McFarlane



2023-2024 Catalog

800-626-7178

www.McFarlaneAviation.com

Photo credit: See page 10 for details.



OUR VISION:
Keep Our Customers Flying

OUR MISSION:
Deliver Innovative Products with Old-Fashioned Customer Service

OUR VALUES:

- Integrity, trust, and respect
- Innovation
- Safety and quality
- Customer service
- Culture

ABOUT US

We are a diversified manufacturing and distribution company that specializes in providing affordable, high-quality FAA-PMA components and services. In addition to our extensive line of high-quality FAA-PMA replacement parts, we offer a complete line of customer-designed and OEM products, including door, flight control and push-pull controls, cargo and seat rails, and many other unique products for the broader aerospace community. In addition, we have a FAA Repair Station to support our customers.

We provide support to General Aviation, Regional/Business, Commercial, Experimental, Homebuilt, and Light-Sport Aircraft. We distributed over 35,000 thousand FAA-PMA products from our facility located on the Vinland Valley Aerodrome (K64) near Baldwin City, Kansas. Today, we continue to increase our company footprint and have five buildings with more than 120,000 square feet of office space, inventory storage, and manufacturing.

Our products are engineered with superior quality and longer service life. Rest assured that when you make a purchase from McFarlane, you will receive a product of the highest quality at the lowest price!

OUR HISTORY



Vinland, Kansas

In 1970, Dave McFarlane created McFarlane Aviation to provide aircraft repair and restoration part-time, while concentrating on agricultural aviation activities in Mississippi, Arkansas, and Iowa. In 1979, Dave bought the Vinland Valley Aerodrome (K64) and moved McFarlane Aviation to its current location today. The quaint little country airport is located in Eastern Kansas, ten miles southeast of Lawrence, Kansas, the home of The University of Kansas and Haskell Indian Nations University, and four miles north of Baldwin City, the home of Baker University. The runway was built in a beautiful valley on the old railroad right-of-way in Vinland, Kansas, a pioneer ghost town. A few old store buildings, two old churches, several houses, and the oldest library in Kansas are all that remains of the once thriving frontier settlement. Fred McClenahan joined Dave and his wife Phylis in Kansas to provide aircraft repair, restoration, rental, flight instruction, and agricultural aviation services. Fred plays a key role today in developing and testing the McFarlane product lines.

In 1986, the company continued to prosper and grow, officially incorporating as McFarlane Aviation, Inc. As the years passed, it became apparent to Dave and Fred that there was room for improvement in many of the aircraft parts they were installing. In 1989, the company started in a new direction. New materials and improved designs were developed and tested for the Cessna seat rollers and washers. Aircraft owners accepted them as being far superior to the OEM parts, while costing much less. Sales of these first products grew rapidly and customers requested more products. New replacement parts were developed and approved by the FAA while manufacturing equipment, talented people, and quality control systems were added and improved.



Our Facility, 2023

Manufacturing grew rapidly, and by 1993, all other operations except for basic airport services were sadly phased out. Since then, McFarlane has focused only on the development, testing, manufacturing, and distribution of quality FAA-PMA products. McFarlane's second generation, Cheryl and Dan McFarlane, joined Dave in expanding the company.

In 1997, we added 7,000 sq ft of office and manufacturing space with another 6,000 sq ft added in the early 2000s. In 2012, we doubled our facility size. Again in 2020, we added another building. And in 2021, we added our fifth building. Today, our facility has five buildings total with more than 100,000 sq ft of storage, manufacturing, inventory, production, repair stations, and office space.

Today, McFarlane holds design and FAA-PMA approval for over 3,000 replacement parts and offers services for the majority of aircraft models in the General Aviation market. McFarlane distributors are serving major aviation centers around the world. Past experience and constant input from knowledgeable customers have given McFarlane engineers vast knowledge of aircraft service demands that are the foundation of improved products. The pioneering spirit continues to live in Vinland, Kansas and we will continue to develop innovative solutions for aircraft service problems.

July 1, 2023

Another year has come and gone. My thoughts went to what makes aviation great! What separates success from failure? History is full of successes and failures in aircraft design and application (flying). Looking back over the years I have made a few observations about the aviation industry and have asked myself several questions. One of the questions is "What makes some aviation companies successful and vibrant while other seem to fade away with personal and financial failures?" The same type of question can be asked of the individual private flyer. Some individuals thrive while learning and continue a long and safe journey with aviation being a big part of their life while others fall by the wayside and quit flying.

One of my observations is that there is a difference between the two groups in attitude towards detail and safety. Most successful operators look for the "detail" in their daily operations. They maintain their aircraft with all the little things in mind. They are always looking ahead for "What could go wrong". It is the details that cause accidents and near misses. Successful operators have few insurance claims or unscheduled maintenance expenses. They take recuring training and learning new skills seriously. These operators and private flyers alike have developed procedures that ensure that the risky business of traveling in the earth's atmosphere is as safe and predictable as possible. Failing operators are besieged with insurance claims, higher insurance rates and unexpected maintenance costs. Bad things just seem to happen to their airplanes and people. The same is true of the private flyer. There is little pleasure in dealing with accidents and mishaps or expensive repairs. Knowing that you have not done everything you could have to be flying safely with a predictable outcome is an uncomforting feeling that retires many pilots.

Another trait of a successful aviation operator or private flyer is "passion". I have observed and have experienced this burning desire to make aviation work for all of us. It is hard to be successful in aviation without it as you are competing with people that have it. Their business or flying goals are motivated to promote aviation to their customers, employees, or friends. These people want to learn more everyday about what will make them and aviation better. You can see this passion in a person's face as they talk about their airplane and their flying. They light up and become excited. They work hard and they study hard. It is a lifelong love that does not go away. They sacrifice other things in life for the freedom of the sky. It is wonderful when you see it in a young person as this passion deserves to be passed on. I hope you have it.

Sincerely,

Dave McFarlane





Back in the Early 1980s!

Near the beginning of our history, Fred McClenahan and Dave McFarlane helped repair some old wind machines for ABC Motion Pictures filming a movie nearby.

Because the wind machines were powered by aircraft engines, the production company thought Fred and Dave could repair some of the broken machines with their knowledge and tools, to which they did, right here in Vinland, Kansas!

"The pipe you see hanging on the right side, that's a water hose to discharge water in front of the wind machine. This is one method Hollywood uses to make driving rain scenes in the movies."

-Fred

Fred McClenahan (left)
Dave McFarlane (right)

New Products



AN Bolts

Now stocking AN3 through AN20 hardware. In stock and ready to ship! See pages 497-502.



Tempest Air Filters

We now offer FAA-PMA Air Filters for additional aircraft models, including Grumman, Vans, and Piper. See page 84.



Jack Screw Access Cover

Our FAA-PMA approved covers are an easier and faster way to access the horizontal stabilizer for inspection and maintenance on various Cessna 180 and 185 models. See page 316.



Brake Shims

FAA-PMA approved for hundreds of aircraft, including Cessna, Piper Beech, Grumman, Navion, and more. Manufactured by APS. See pages 385-386.



Shimmy Dampener

NEW! *For Cessna 182, 206, 207, and 210*

Everything the original should have been and more than the rubber units could ever be!

Also available for 150, 152, 172, 175 models

*See **Landing Gear** section of the catalog*

INSIST ON GENUINE BARRY B MOUNTS® HUTCHINSON AEROSPACE

NEW! Barry Mounts Engine Isolators



FAA-PMA approved for Beechcraft, Piper, Cirrus, Mooney, and more!

*See **Firewall Forward** section of the catalog*



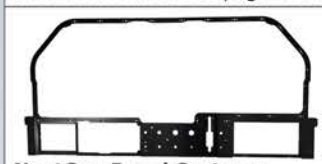
Door Springs

Now offering FAA-PMA approved assemblies for Cessna 182, 206, 210, and 337. Ours have added corrosion resistance, longer life, stronger springs, and better lubrication. Save $$$ with our safer alternative. See page 423.



Fuel Primer

We have FAA-PMA approval on Fuel Primer assemblies, which fit Cessna 150 thru 210. Our assemblies have an improved seal design for consistent operation. These are easier to use! See page 207.



NextGen Panel Systems

We now offer instrument panel systems for Cessna 172, 175, 180, 182. These frames are designed to accommodate modern avionics, allowing a larger canvas with diverse installation options. Manufactured by Bushliner. See page 230.



Fuel Selector Valves

McFarlane has expanded coverage for the Fuel Selector Valves for Cessna aircraft. Our high quality, long lasting valves are now FAA-PMA approved for Cessna 180, 182, 190, and 195 models. See pages 187-191.



Cabin Heat and Air Controls

For Cessna 150 thru 210 models

Knobs match the original!

Longer life, all metal construction, and teflon lined conduit

*See **Push-Pull Controls** section of the catalog*



Parmetheus G3

Whelen's landing and taxi light fits 12-volt and 24-volt systems. This is a drop-in LED replacement for legacy landing lights. Parmetheus G3 is 2.5x brighter than Parmetheus Plus. See pages 426-429.



Primer and Fuel Injection Lines

FAA-PMA approved for various Lycoming engines. Prevent vibration cracking and fuel leakage on the engine. Manufactured by APS. See pages 136-138.



Rope Chocks

No more crawling under your airplane to install or remove! Available in blue or yellow. See page 548.



Engine Baffle Kits

We now offer additional Airforms Engine Baffle Kits that fit several Cessna and Piper models, including C152, C172, C182, PA28, and PA30. See page 115.



SunSpot 36 Equinox

AeroLEDs SunSpot Equinox is a dual-functioning LED landing **AND** taxi light. Available in 12-volt and 24-volt systems. See pages 426-429.



Master Cylinder Upgrade Repair Kits

STC approved for Beechcraft, Mooney, Cirrus, and Piper models. They have an improved lip seal that eliminates the main O-rings. Tooling is included and easy to install. Manufactured by Marsh Brothers. See page 391.



Spinner Washers

Available in grey, clear, and yellow. These polymer Spinner Washers won't fall off the screw! They are long lasting, flexible, and tough. Manufactured by Marsh Brothers. See page 21.



AeroTough Fuel Cap Washers

Avoid the hassel of difficult to open/close fuel caps. Manufactured by Marsh Brothers. See page 205.

Landing Gear Door Hinge Bushing Kits

For Beech Baron, Bonanza, and King Air

Easy to install!

Grease-free and non metallic

*See **Landing Gear** section of the catalog*



New Products



Oil and Oil Filter Analysis Test Kits

Laboratory analysis testing kits on metals in piston and turbine engines. Quick turnaround! Manufactured by AvLab.
See page 538.



Fuel Bacterial Field Test Kits (Bug Test)

Quickly analyzes jet or diesel fuel for bacteria and fungus. Manufactured by AvLab.
See page 538.



Corrosion Preventer

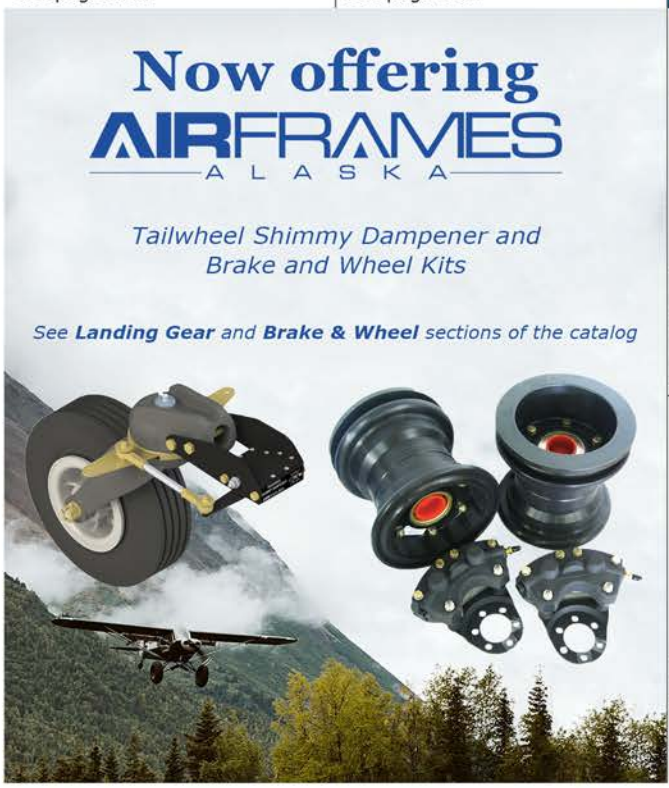
Excellent water displacing corrosion inhibiting lubricant in multiple coating options. Manufactured by AvLab.
See page 538.



Cleaner and Degreaser

Fast acting, dries quickly, and leaves little residue. Manufactured by AvLab.
See page 538.







Alternator Coupling Tool Kits

Designed to protect the steel coupling gear from damage during alternator maintenance. Used on several Continental series engines. See page 78.



Niel Seal™ (Tite-Seal™)

Versatile gasket and joint sealing compound available in light and medium weights. See page 541.



ACF-50

Complete anti-corrosion solutions for airframe, avionics, and ground support equipment. Manufactured by Lear Chemical. See page 541.



Permatex Form-A-Gasket

Slow drying, non-hardening sealant approved for use in aviation. See page 541.

AIRFORMS

Engine Baffles

Expanded eligibility for Cessna 152, 172, and R182RG and Piper PA28-140, PA30, and PA39



*See **Firewall Forward** section of the catalog*



Shrouds, Seals, and Mufflers

In addition to our extensive inventory of exhaust parts, we now have AWI's recently PMA approved Shrouds, Seals, and Mufflers that fit Piper, Cessna, and Champion aircraft. See pages 159-186.



Brake Discs, Linings, and Rivets

We now offer the recently approved Brake Disc, Lining, and Rivets for Diamond DA62, Cessna Citation, and Beechcraft 1900 models. Manufactured by APS. See pages 369-375.



Brake Insulators

Offering FAA-PMA approved APS Brake Insulators for Piper, SOCATA, Pilatus, and several Beechcraft models. See page 391.



AvLab Fuel Quality Test Kit

Includes API gravity, cetane index, D-86 distillation, Karl Fisher water, BUG TEST, and flash point. Manufactured by AvLab. See page 538.

BE THE FIRST TO KNOW!

New product announcements, sales promotions, and aircraft maintenance tips emailed directly to you.

SIGN UP NOW!



Products Coming Soon!

We continuously engineer new products for all different aircraft models

Cessna · Piper · Beechcraft · Mooney · Maule
Grumman · Homebuilt · Light-sport · Commercial

Be the first to know!
*Subscribe to our **email newsletter***



Cessna Aircraft



Door Handles
The updated McFarlane Door Handle design makes for easier installation. They are lighter weight, more durable, and made with better materials.

Fits several Cessna models.

Door Hinges
McFarlane's great Hinges are now available for Cessna 180 and 200 series aircraft.

Our superior hinges are machined providing superior life and durability over the OEM forged hinges. This saves you money!

Environment Controls
McFarlane's new Cabin Heat and Air Controls will feature an all metal construction and Teflon lined conduit for longer life.

They join our extensive line of FAA-PMA approved environmental controls for Cessna 150 thru 210 aircraft.

Flap Motors
Our new electric Flap Motor has better performance and a longer life than the OEM, saving you money.

Fits various Cessna models.

Nose Strut Assembly
We will now offer a Nose Strut Assembly replacement that saves you money. This is the part that actually fails!

Fits various Cessna 150, 170, and 180 series aircraft.

Rudder Pedal Shaft
Now offering a better price on Rudder Pedal Shafts for Cessna aircraft than anywhere else!

Shimmy Dampener
We recently released FAA-PMA approved Shimmy Dampeners, which Cessna 150, 152, 172, 175, 182, 206, 207, and 210 model aircraft.

This new expansion will include late Cessna models.

Tail Brackets
An approved alternative to the OEM Tail Brackets. Our improved design reduces cracking.

Fits Cessna 180 series aircraft.

Trim Tab Push Rods
New Trim Tab Push Rods for several Cessna 200 series aircraft to complement our Trim Tab Actuators and various flight control system products.

In stock at a better price.

Urethane Landing Gear Saddles
Improved design and a better price on a commonly high failure item that extends the life of the components.

Fits Cessna 172RG, 177RG, TR182, and 210 aircraft.

Vertical Fin Fitting
Our Vertical Fin Fitting is crafted using a superior aluminum alloy and implements geometric improvements that increase part life compared to the OEM part, saving you money.

Fits Cessna 150 and 152 series aircraft.

Piper Aircraft

Fuel Caps
. e will soon offer replacement Fuel Caps for the existing fuel cap with an improved design.

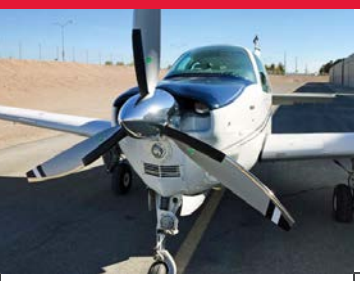
Fits various Piper aircraft models, as well as Cessna and Beechcraft.

Shimmy Dampener
With recent safety and performance improvements, we are expanding our Shimmy Dampener offerings to several Piper models.

We currently have FAA-PMA approved Shimmy Dampeners available for Cessna aircraft. Approval for Beechcraft is also coming soon.



Multiple Aircraft



AN3-AN20 Bolts

Now stocking AN3-AN20 Bolts.

Quantity discounts available.

Fuel Caps

We will soon offer replacement Fuel Caps for the existing fuel cap with an improved design.

Fits various Cessna, Beechcraft, and Piper aircraft models.

PowerFlow Exhaust

PowerFlow Exhaust is a versatile, quality constructed, complete replacement of the exhaust system.

We now offer complete systems for Cessna, Piper, and many other aircraft.

On the Horizon

- Smooth Skins for Cessna Aircraft
- Cabin Heat and Air Controls for Cessna Aircraft
- Fuel Selector Linkage Cessna Aircraft
- Fuel Caps for multiple aircraft
- Safety Hinge Pin for Cessna 152, 182 Aircraft
- Tach Cables for Cessna and Piper Aircraft
- Shimmy Dampener for Beechcraft Bonanza



Get social with us!

Follow us on social media

Keep up on our new products, installation videos, promotions, and company updates

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Catalog Cover Photo

2016 SQ12 Supercruiser, MTV-15-B 210-58 MT Propeller

Pilot: Arnar Þór Emilsson from Reykjavik, Iceland

I learned to fly in my father's Cessna Skyhawk at a young age and have been an active pilot ever since. I started my professional flying career in 2005. Operating de Havilland Twin Otters for Air Iceland now days I am flying Dash 8 200 and 400 domestic routes in Iceland and as well to remote destinations in Greenland.

My father and I have always been fascinated by STOL and off airport operations. He introduced me to that kind of flying in his Skyhawk. I later introduced him to tail wheel flying in a Piper Supercub. So when he retired from a career as an Engineer he started to build our SQ12 Supercruiser and what a joy it had been.

This plane is special in many ways, it has incredible short field capability with lots of horsepower and that MT Prop that pulls crazy hard. We built the plane so that it can carry two mountain bikes under each wing, under the belly we have surfrack so we can carry a surfboard, for winter flying we have skiis that we built around our 35" tires.

This airplane is a pure joy to fly and used to experience Icelandic nature in its best way.

- Arnar Thor Emilsson





Arnar and his father



Custom Flight Control Cables

We also offer Pulleys, Hardware, and many other flight control system parts!

Hundreds of PMA approved assemblies and kits also available for certified aircraft

Custom Flight Cables

All of our custom flight cables meet or exceed all DOD, MIL-SPEC, and FAA specifications

We are DOD certified (QML listed) to fabricate flight cable assemblies to MIL-DTL-6117 specifications or we can manufacture to your custom specifications. Our flight cables are produced with standard AN or MS type fittings. They are also pre-stretched and proof loaded in accordance with MIL-DTL-5688.

We also manufacture and certify cable assemblies to the NAS302 through NAS310 standards. If you need cable assemblies requiring special non-standard terminals, we can quickly make them to your specifications or old cable using our precision machine shop, inspection system, and quality-controlled processes.







To enhance the longevity of your flight control cables, we also offer several industry standard corrosion preventatives. Our custom cable assemblies are manufactured using the same materials and quality as our FAA-PMA products, however custom flight cables are not FAA-PMA approved. When you purchase a McFarlane custom flight cable you can be assured of traceability of all materials and tests are maintained. Our extensive stock of cable and fittings allow us to provide expedited delivery to support your needs for most orders.

Custom flight cable design forms are available below, or you can send us your old cable with a signed statement requesting us to duplicate the cable. Custom cable assemblies are manufactured using the same materials and attention to quality as our FAA-PMA products, however custom flight cables are not FAA-PMA approved.

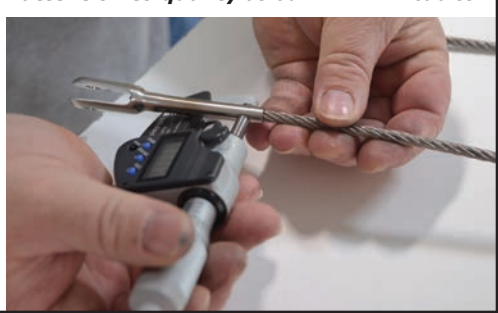
To order a custom flight cable, select the appropriate design form below. Print the form, fill out the required information, and fax, email, or mail it to McFarlane. Please include your address, phone number, and shipping/payment instructions with all orders. Pricing will be provided upon receipt of specifications or a pattern.

If you have questions regarding custom flight cables, call our customs department at 866-920-2741 ext. 289, or email customparts@mcfarlaneaviation.com. Original patterns may be sent to the customs department's attention at McFarlane Aviation, 682 E 1700 RD, Building C, Baldwin City, KS 66006.

For PMA approved flight control cables and full system kits on certified aircraft, visit our **Flight Control System** section of the catalog to find the components that fit your aircraft!



*Manufactured using the **same materials and attention to quality** as our FAA-PMA cables*



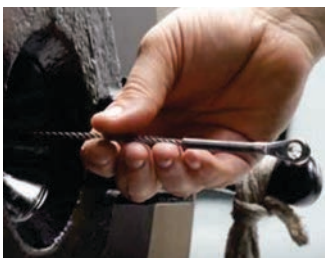


Door Cables

FAA-PMA approved for certified aircraft, or we have custom options available! Our approved cables fit many aircraft, including Cessna, Piper, and Beechcraft. For custom projects, McFarlane offers a variety of color options and hardware configurations. Our pre-formed, stainless steel aicraft cables are sealed with silicone rubber that is easy to clean, will not crack due to wear or climate changes, does not separate from the cable, and remains pliable for easy opening and closing of aircraft doors.

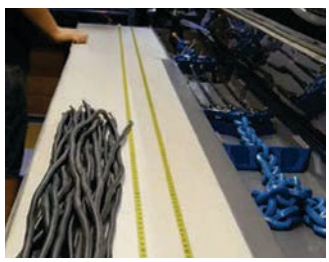


Custom door cables are not FAA-PMA approved. The user must obtain proper FAA approvals to use our custom cables on certified aircraft. Fill out our design form online and email to our customs team. For additional information and questions, contact our customs department 866-920-2741 ext. 289 or email customparts@mcfarlaneaviation.com.









Our Door Cables are hand-crafted in-house. We cut aircraft cable to length, swage hardware, apply the silicone covering, and inspect each cable for strength. Our leading-edge inspection benches ensure that each cable is tested to follow MIL-spec standards for proof loading. You can find our McFarlane Door Cables installed on new Textron aircraft from the factory! We stock FAA-PMA approved Door Cables for Cessna, Piper, Beechcraft, and Learjet. We also offer custom Door Cables to your specified length, color, and hardware requirements.

Choose a color to match your interior!





Silicone Covering Color Chart		
Description	**Color Suffix**	
Dark Black (matte) Fed Spec 17038		**-DKBK2**
Dark Black (semi-gloss) Fed Spec 17038		**-DKBK1**
Black Fed Spec 27038		**-DKBK0**
Dark Gray Fed Spec 26008		**-DKGY0**
Dark Gray Fed Spec 36173		**-DKGY1**
Light Gray Vendor Color #K76169		**-LTGY1**
White Fed Spec 37150		**-LTWT0**
Gray Pantone 409C		**-LTGY0**
Butternut/Brown Fed Spec 30145		**-MDBN0**
Green Pantone 5783U		**-LTGN0**
Translucent (no color)		**-LTTL0**

Custom Engine Controls

Duplicate your existing control or completely customize a new assembly!

Custom length, thread size and pitch, wear sleeve location, diameter, and travel length



Perfect for homebuilt or experimental aircraft

Custom Push-Pull Controls

We also have the capability to manufacture custom Push-Pull Controls for most any aircraft flying today!



All McFarlane Push-Pull custom control cables are built to customer provided specifications. Our custom controls duplicate the original customer supplied controls in regard to length, thread size and pitch, wear sleeve locations, diameter, and travel length. You can also completely customize a brand new control for your application!

Vernier-Assist technology is also available for some controls in addition to our standard designs.

Our custom controls are manufactured to the same standards using the same materials, rigorous testing, and inspections as our FAA-PMA approved products; however, custom controls are not FAA-PMA approved.

Custom control design forms are available on our website or you can send us a pattern to duplicate your current control. To order a custom control, print the applicable form, fill out the required information, and fax or mail it to McFarlane. Please include your address, phone number, and shipping/payment instructions with all orders. Custom controls are normally completed within one week!

When you purchase a McFarlane custom product, you can be assured that traceability of all materials and tests are maintained for our controls.

For PMA approved controls on certified aircraft, visit our **Push-Pull Controls** section of the catalog to find the control that fits your aircraft!





*Manufactured using the **same materials and attention to quality** as our FAA-PMA controls*

Rans S21 EP48 build with McFarlane controls





Learn how to measure your controls for custom manufacture by visiting our website or YouTube.

Quadrant Style

Scan here

Vernier Style

Scan here

Custom Seat Rails

Cut to almost any length and sold by the inch!

Many extrusions to choose from!

FAA-PMA Seat Rails also available for Cessna and Piper aircraft



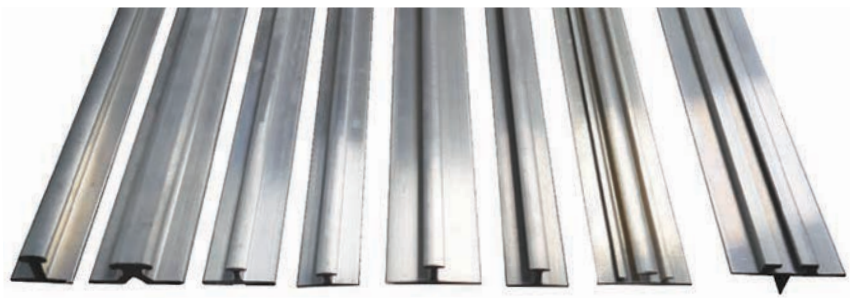
Seat Rail Extrusion

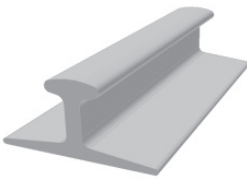
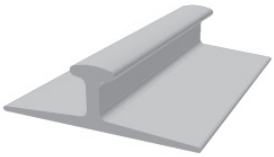
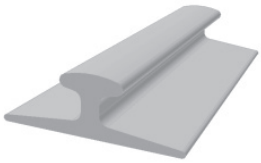
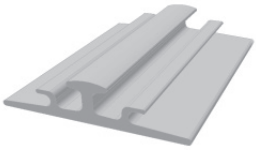
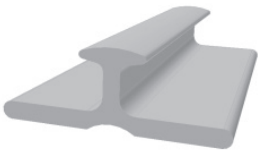
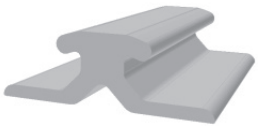


Ideal for homebuilt and experimental aircraft! Also perfect when replacements are no longer available for special applications.
We manufacture high quality custom cargo and seat rails built to customer provided specifications, utilizing the same stringent manufacturing and quality processes as we do with our PMA rails. This provides our customers with proven technology that delivers the product on time, on budget, with superior corrosion resistance and added strength.

We have a variety of extrusions available for use in your design, as well as state of the art CNC machines for precision cuts and finish. Our blank extrusions can be cut to most any length and are sold by the inch.

Custom seat rails are not FAA-PMA approved. The user must obtain proper FAA approvals to use our custom rails on certified aircraft. Fill out our design form online and email to our customs team. For additional information and questions, contact our customs department 866-920-2741, ext. 289 or email customparts@mcfarlaneaviation.com.



P/N STE101 1 1/2" X 7/10" X 1/2"	**P/N STE102** 2 3/10" X 7/10" X 1/2"	**P/N STE103** 1 1/2" X 1/2" X 1/2"	**P/N STE104** 2 3/10" X 1/2" X 1/2"	**P/N STES2343-1** 1 1/2" X 15/16" X 5/8"
				
P/N STE108 1 3/4" X 5/8" X 1/2"	**P/N STE109** 2 3/10" X 3/4" X 1"	**P/N STE105** 1.34" X 0.37"	**P/N 6656** 1.34" X 0.37"	**P/N STES2617-1** 2 5/8" X 1 1/8" X 1 1/4"
				

World's Largest MT-Propeller Distributor

*STC's for **hundreds** of aircraft!*

STOL • BACKCOUNTRY • EXPERIMENTAL SEAPLANES • AEROBATICS • CROSS-COUNTRY

Experience the composite advantage of MT Propellers

- *Vibration dampening*
- *Improved thrust, take-off, climb, and cruise*
- *Nickel-cobalt leading edge for ZERO erosion*
- *Backcountry tough and field repairable*
- *Rebuildable aluminum hubs*



Highly compressed beech/ spruce wood core



Exclusive one-piece aluminum hub



Exclusive REVERSE option in 2- and 3- blades



Experience the composite advantage!



- Vibration dampening
- Better thrust, take-off, climb, and cruise
- Owner repairable blades
- Unlimited blade and hub life
- SMOOTH operation
- Reduced airframe and engine wear

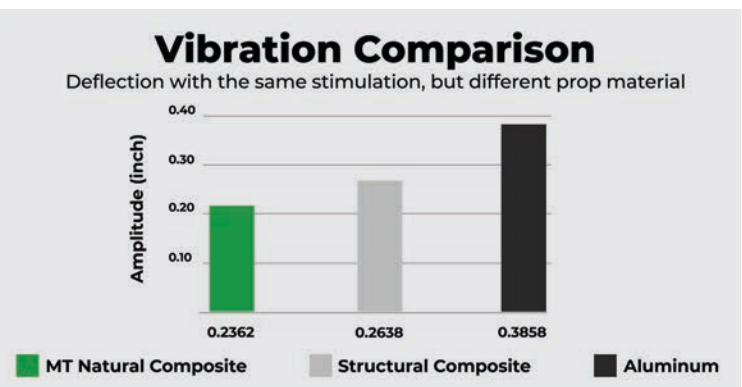
mt-propeller

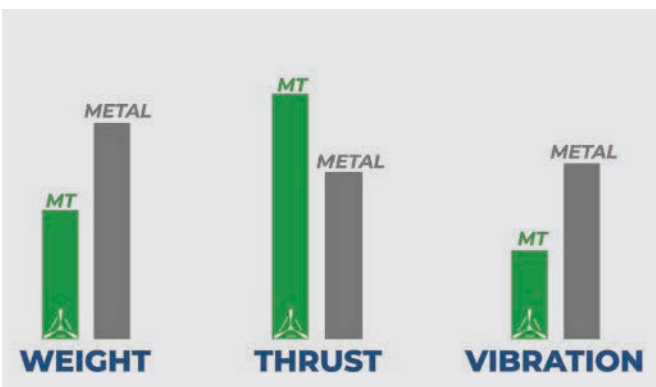
We are the world's largest MT-Propeller distributor!



"The MT natural composite prop is the only composite prop that actually absorbs vibration instead of generating vibration like a metal prop or other foam core composites. The smoothness extends the life of everything under the cowl. The braking action of the MT prop gives unmatched control on short field approaches and I get amazing takeoff performance. I had to do a field repair after picking up something that would have ruined a metal blade. It was a quick and easy fix right on the ramp. The 19 lbs. of less weight and related gyroscopic loading makes the aircraft more responsive with less stress on everything."

Dave McFarlane
Cessna 175
2-Blade Expedition Series MT Propeller





STC's and Field Approvals for Hundreds of Aircraft

Propellers available for the most popular aircraft models

- Improves life of engine and avionic components
- Reduces maintenance costs
- Significant inside and outside noise reduction
- Unlimited blade life
- Reverse option available with select aircraft



Call our MT-Propeller Specialists!

866-717-1117

MT Propellers will provide you with superior performance, maneuverability, and control!

MT-Propeller STC's and Field Approvals

Aircraft	Blades	Reverse Option
Aermacchi		
Marchetti F260	3-Blade	
American Champion		
8GCBC Scout	3-Blade	
8GCBC Scout	2-Blade "Ultra"	
8GCBC Scout	2-Blade	
8KCAB Super Decathlon	2-Blade	
	3-Blade	
Aviat		
A1 Husky	2-Blade "Expedition"	•
	3-Blade "Ultra"	•
	2-Blade "Ultra"	•
Aviat/Christen Eagle	2-Blade	
	3-Blade	
BAE Systems		
Jetstream 3100/3200	5-Blade	
Beechcraft		
Baron 55/58	4-Blade	
Bonanza 33, 35, 36	3-Blade	
Bonanza 36 with RR Turbine	5-Blade	
B99 and B100 series	5 Blade	
Cessna		
170	3-Blade	•
	2-Blade "Ultra"	•
	83" 2-Blade	•
172A thru 172P	3-Blade	•
	2-Blade "Ultra"	•
	83" 2-Blade	•
172R thru 172S	3-Blade Electro Prop	•
175A thru 175D	3-Blade	•
	2-Blade "Ultra"	•
	83" 2-Blade	•
177A,B,RG	3-Blade	•
180	2-Blade	•
	3-Blade	•
182	2-Blade	•
	3-Blade	•
T182	3-Blade	
185	2-Blade	•
	3-Blade	•
206, 207, 210	2-Blade "Expedition"	•
	3-Blade "Expedition"	•
P/T 210	4-Blade	
206 with Soley Turbine	5-Blade	
206 with RR Soley Turbine	5-Blade	•
P210N Turbine Silver Eagle	5-Blade	
208 Caravan with PT6	4-Blade "Express"	
208 Blackhawk with PT6	5-Blade	
T303 Crusader	4-Blade	
310	Contact us	
336 and 337	3-Blade	
340	4-Blade	
400	4-Blade	
414	4-Blade	
421	4-Blade "Express"	
425 PT6	5-Blade "Express"	
Cirrus		
SR-20	3-Blade	
SR-22	3-Blade	
	4-Blade	
Cubcrafters		
Carbon Cub		•
De Havilland		
DHC-6 Twin Otter	4-Blade	
Diamond		
DA20-C1	2-Blade	
DA42	3-Blade	

Continued on next column

Aircraft	Blades	Reverse Option
Dornier		
228 series	5-Blade	
Extra		
200/300 series with -360 Engines	3-Blade	
300 series with -540 Engines	3-Blade "Vortex"	
400	4-Blade	
Extra 500	5-Blade	
Glasair		
I, IFT, II, IIFT, and III	Contact us	
Sportsman	Contact us	
GlasStar	Contact us	
Grob		
G-109, G-112, G-115, G-200	Contact us	
Grumman		
Tiger AA-5B, AG-5B	3-Blade	
Kodiak		
100 series	5-Blade	
Lake		
LA-4-200	3-Blade	•
LA-250	3-Blade	•
Lancair		
All models	Contact us	
M7 Aerospace		
SA26-AT (Merlin IIB)	5-Blade	
SA226, SA227	5-Blade	
SA226	5-Blade	
Maule		
M6, MX7	3-Blade	
Mitsubishi		
MU-2B	5-Blade	
Mooney		
M20E,F,J	3-Blade	
M20K	3-Blade	
M20M	4-Blade	
M20R-S-TN	4-Blade	
Mudry		
CAP 10	2-Blade	
Murphy		
Moose		•
Rebel		•
Pacific Aerospace		
PAC 750 XL	4-Blade	
Palatus		
PC-12 series	5-Blade	
Piper		
PA-18 w/ -260 or -390 engines		•
PA-24-250, 260	3-Blade	
PA-28-180, 181	3-Blade	
PA-28R-180, 200, 201	3-Blade	
PA-28R(T)-201T	3-Blade	
PA-28-236 (Dakota)	3-Blade	
PA-30, 39	3-Blade "Express"	
PA-31P	4-Blade	
PA-31T	5-Blade "Express"	
PA-32-260, PA-32R-300, PA-32RT-300, PA-32R301 Saratoga SP, Saratoga II HP	3-Blade	
PA-34-200T	3-Blade	
PA-34-220T	3-Blade	
PA-42-720	4-Blade	
PA-42-1000	5-Blade	
PA-46-310P	4-Blade	
PA-46R-350P thru -350T	4-Blade	
PA-46-310P/350P Jet Prop	4-Blade	
PA-46-500T	5-Blade	
PA-60-600/601P, 602P Aerostar	4-Blade	

Continued on next page

Additional options available, give our team a call!

866-717-1117

MT-Propeller STC's and Field Approvals continued from previous page

Aircraft	Blades	Reverse Option
Pitts		
S2A	3-Blade	
S2S,B,C	3-Blade "Vortex"	
	4-Blade	
Rockwell		
Commander 112	3-Blade	
Commander 114A,B,C	3-Blade	
Seawind		
All models	Contact us	
Short Brothers		
SC-7	5-Blade	
SOCATA		
TB20	3-Blade	
TB21	3-Blade	
TBM700/850	5-Blade	

Continued on next column

Continued from previous column

Aircraft	Blades	Reverse Option
Sukhoi		
All models	Contact us	
Vans RV		
"Express" Medium Duty	3-Blade	
"Express" Heavy Duty	3-Blade	
Velocity		
All models	Contact us	
Vulcan Air		
P68 Observer	3-Blade	
P68TC Observer	3-Blade	
...		
18, 50, 52, 54, 55	Contact us	

Additional options available, give our team a call!
866-717-1117

World's Largest MT-Propeller Distributor

*The most popular models are **in stock** and ready to ship next day!*







We are the only American distributor that maintains an inventory of the most popular models ready for shipment within 24 hours of ordering!

We assemble, pack, and stock MT Propellers in our warehouse and ship to anywhere in the world

Replacement Blades

Prop strike? We've got you covered!
We stock common replacement blades at our facility so you can quickly return to flying. Whether you have a prop strike or significant damage that needs an overhaul, contact our team. 866-717-1117



Services made
***convenient** and **easy**!*

MT Propellers are also owner repairable for minor FODs
As the owner, you are authorized to make permanent repairs for minor damage. We suggest using common 2-part epoxy to fill in the area, sand smooth, and seal with touch-up paint.

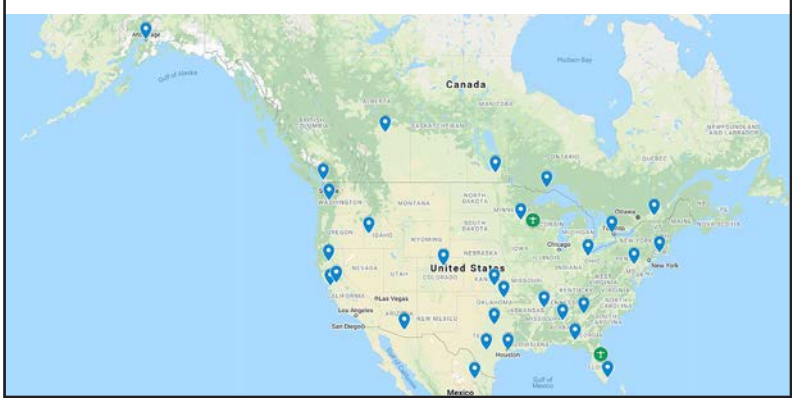
Contact our team for details!

Worldwide Service Centers

MT has a worldwide network of prop shops that have been trained and approved to service MT Propellers.

If you would like more information about the types of services provided, please contact our team. This map only shows MT assembly and service centers in the United States. We have a complete service center listing available with all service centers throughout the globe.

Give our team a call! 866-717-1117



The #1 Propeller for STOL Champions

Proudly supporting STOL events!

mt-propeller

NATIONAL STOL

Husky National STOL hosts competitions where pilots compete for the shortest takeoff and landing score. Each competitor has 3 takeoffs and 3 landings to earn the lowest (combined) score. Each competition is split up by class of airplane.

For event details, competition registration, and camping information, go to www.nationalstol.com

STOL DRAG

STOL Drag takes traditional STOL competitions the next level. Pilots fly side-by-side with their competitors. They land at the halfway point line, come to a complete stop, pivot 180 degrees, and take off again towards the original start line.

For event details, competition registration, and training opportunities, go to www.stoldrag.com



Warren G, Cessna 180

"Putting on the MT prop is hands down the best performance mod I've ever done to my plane."



Kevin Quinn, Cessna 180

"I have had the opportunity to fly almost everything out there. Simply put, nothing compares to my MT propeller."



Micah Lindstrom, Cessna 170B

"Nothing beats the turbine smooth, AD free, lightweight MT. We installed the 83-inch MT Expedition and it pulls like a freight train!"

Exclusive MT Reversing Propeller

*The **best** propeller for land and sea!*

mt-propeller

MT Reversing Technology

Choose two or three blades with electric or alcohol deice boots (optional)

MT reversible propellers are electrically controlled, hydraulically actuated, constant speed propellers. The propeller has a reverse dual piston system with the MT P-900 governor series installed. Its corrosion-protected hub is made from a single-piece aluminum alloy. An aluminum blade ferrule is attached to the blade root by using specially designed patented lag screws. The spinner dome is a single piece part made from fiber reinforced composite (Kevlar®). It is extremely light-weight and crack resistant.

- Inflight safety systems
- Back-up maneuvering and parking
- Docking control and engine warm-up without thrust
- Shorter landings without brakes

Perfect for maneuvering on water, backcountry flying, and STOL competitions!



Austin Clemens, Aviat Husky

"The MT ULTRA reversible propeller is the best thing I've done to my Husky as a float plane as it provides safer docking and operation on the water. The MT is also a valuable tool as a STOL competitor with shortened landing capability when using reverse thrust as well as the responsiveness to power inputs."



Andrew Patry, Cessna 182

"Since purchasing my 182, I've battled the nose heaviness discomfort. The most effective solution has been installing the composite MT propeller. Not only did it enhance my CG, but it also added useful load! I enjoy the quick response to power adjustments and braking. My MT prop is light, smooth, responsive, field repairable, and has great support from McFarlane."



Jon Rector, Royale Air Service

"We would never willingly go back to an old aluminum, non-reversible propeller. Now we can modulate our speed approaching the dock and actually taxi alongside, stopping where we need, and shutting down without moving. As we approach, if we don't like how it's looking, we can back out and try again. The MT reversing prop makes it much easier and safer to negotiate."

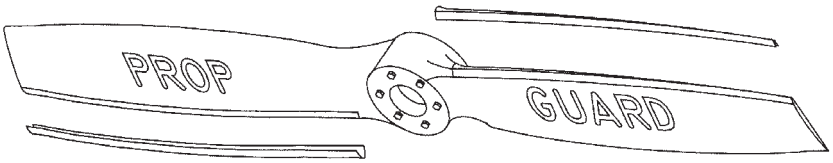
PROP GUARD

P/N FP1001 for two blades (65”)
P/N CS1002 for three blades (92”)
Anti-abrasion Boot for your metal propeller!

It is more economical to protect your propeller blades with PROP GUARD than to continually file, dress, paint and balance your blades until they have to be replaced. Fine sand, rock, and airborne abrasives are constantly eroding your propeller. As the name suggests, this product can eliminate this destructive process. Virtually all propeller blade failures start as leading edge nicks.

- 0.014” thick clear anti-abrasion boot that is bonded to the leading edge of the propeller
- Made from high-strength heat processed polymer engineered for centrifugal loads. It’s NOT just a piece of tape!
- Easy to install (approximately 20 minutes installation time)
- No performance loss
- Repairable
- FAA-PMA/STC approved (minor alteration, no form 337 required)

Complete Kit contains:
PROP GUARD boot for a two or three bladed propeller, adhesion accelerator PN 32965-1, placard, lint-free cotton cloth, complete installation instructions and a copy of the STC.



Repair Kits

P/N PG-KT-R12 for 12 inches of material
P/N PG-KT-R24 for 24 inches of material

Two convenient repair kits are also now available to allow repair of existing PROP GUARD installations. Each repair kit includes a short length of PROP GUARD boot material, adhesion accelerator, lint-free cotton cloth, a spreader, and complete installation instructions.

PROP GUARD Installation Tool

Saves time and makes installation easier!
P/N TOOL125

Working out the air bubbles during installation is much easier with our rubber coated roller. The rubber conforms to the shape of the propeller, and the rolling action allows you to press harder to eliminate small air bubbles. It is recommended for customers who may be installing more than one PROP GUARD or those who just want to make the job faster and easier.



For complete preparation, application, removal, and repair instructions, visit our website.







Scan the QR code to read the instructions here!
https://bit.ly/3x4znOA

337 Skymaster Spinner Bulkhead

Most Skymaster 337 Rear Spinner Bulkheads are cracked!
P/N MC1557300-5

- Now FAA-PMA approved!
- Less than half the price and 15 times the crack resistance!
- Spun to shape, heat treated, and spun again
- Kit includes anodized aluminum pressure plate reinforcement
- One piece construction 2x the thickness
- Precision machined to final trueness and balanced
- Epoxy primed and balanced with installation hardware





5 year warranty!

Aircraft
337, 37B,C,D,E,F,G,H
F337E,F,G,H
FT337E,F,GP,HP
P337H
T337B,C,D,E,F,G,H, T337H-SP

Cowl Plugs and Prop Restraint

Protect your engine!
Cowl Plugs P/N ATI-COWL
Prop Restraint P/N PROP RESTRAINT

- Cowl plugs prevent dirt and other FOD from entering the cowl
- Restrain propeller to prevent windmilling on the ground
- Durable materials for use in harsh environments



Manufactured by AeroTwin

Polymer Spinner Washers

Available in grey, clear, and yellow

NEW

- Won't fall off the screw! No more lost washers!
- Long lasting
- Flexible and tough



Manufactured by Marsh Brothers

Color	Qty Pack	Part Number
Grey	5	M1026-5
	10	M1026-10
	25	M1026-25
Clear	5	M1027-5
	10	M1207-10
	25	M1027-25
Yellow	5	M1020-5
	10	M1020-10
	25	M1020-25

Carbon Brush Block

P/N CA3026
FAA-PMA for several Beechcraft models

Model
A90, B90, C90, C90A, E90, F90
99, 99A, A99A, B99, C99
100, A100, 200, 200T, 200C, 200CT, B200, B200C, B200CT, B200T
300, 300LW, B300, B300C
1900, 1900C, 1900D



Manufactured by PMA Products, Inc.

Nylon Washers

Industry standard washers
Part numbers: NAS1515H04L, NAS1515H06L, NAS1515H08L, NAS1515H3, NAS1515H4

- Protects aluminum surfaces under cowl, spinners, and fairing screws!
- These will not deform like soft washers

Sold in convenient 100 packs!

Carbon Block Assemblies

FAA-PMA for Beechcraft, De Havilland, and McCauley Propellers

Model	Part Number
Beechcraft	
A90,B90,C90,E90,F90,99,99A,A99A,B99,C90A,C99,100,A100, 200,200T,200C,200CT,B200,B200C,B200CT, B200T, 300,300LW,B300,B300C,1900,1900C,1900D	CA3044
De Havilland	
HC-6	CA4731
McCauley Propellers	
This part number is eligible on all make & model aircraft with the following propellers installed: 3GFR34C701,702, 703,4HFR34C754,762,766,768,771,4JFR34C758,5JFR36C1003	CAB5121



P/N CA3044



P/N CAB5121

Manufactured by PMA Products, Inc.



Propeller Balancer

Checks the static balance of a propeller quickly and accurately



Add-on bushing kit for tire balancers TOOL108 or TOOL129

- **All metal construction**
- **Pilot friendly knobs**
- **Lifetime lubrication**
- **Superior low friction conduit**
- **Custom controls available**

Metal Construction

Unlike the controls of our competitors that use plastic, McFarlane control fittings and components are made from stainless steel, plated steel, anodized aluminum, and brass. Our Vernier control locking devices are precision formed and heat treated in critical wear areas.

A Superior Conduit System

Our controls have low-friction smoothness and flexibility, even when routed with multiple tight bends. Our conduits are made from carbon steel wire, specially formed for increased strength and smooth inside diameter. Two of these wires are coiled in tandem for increased tensile strength. A Teflon jacket extruded over the coiled housing provides additional strength and wear-resistance. A virgin Teflon® liner in the center of the conduit reduces friction and ensures reliable operation.

Knobs Make a Difference

Our "pilot friendly" knobs are all compression molded from a reinforced alumimum or phenolic. Unlike the soft injection molded knobs of our competitors, our knobs are hard and thermally stable. They're powder coated, scratch-resistant, and do not deteriorate. McFarlane knobs meet the latest F.A.R. requirements for shape and color.

Special Lubrication

McFarlane controls have a special lifetime lubrication applied to critical sliding surfaces, made from a molybdenum disulfide and Teflon® based lubricant with a synthetic grease base. Our lubricant will reduce friction and prevent galling and contamination locking of the control components from -70° F to over 1000° F.

Vibration Dampening Features

Our metal swivel joints have a unique Viton® rubber vibration dampening sleeve with a spring load system that dampens engine induced vibration in the push rod guide tube and metal swivel joint. Molded Viton® boots are also used on the push rod guides to seal out contaminates. The Viton® rubber withstands the high temperature of the engine environment while resisting degradation from oil and solvents. This system drastically reduces the wear that leads to premature control failure.

Time Tested

With more than 25 years of experience building aircraft engine controls and with thousands of units in airplanes flying on every continent (even Antarctica), McFarlane controls are universally recognized for their high quality products and proven track record.

Consistent Quality

The assembly of McFarlane engine controls is interrupted many times for inspections of all critical elements to ensure only the highest quality controls are produced. Each inner wire swage, each push rod, each conduit fitting and terminal is inspected by our assembly team. As a further measure of quality, a second inspector also checks each critical detail to make sure only controls of the highest quality pass inspection. Attention is given to every detail at McFarlane Aviation. For instance, we verify the torque required to operate every Vernier control to ensure it operates properly and has that smooth feel our customers have come to expect.

Tough in any Environment

The McFarlane controls have an outstanding performance and reliability record in all environments; we test them in the harshest environments to ensure they will provide a long and reliable service life. Bush pilots prefer our controls because they work freely at 50° below zero and have proven solidarity in harsh salt-water. Temperatures approaching the melting point of the steel components cannot stop McFarlane controls from functioning.

Recommended Service Life

Considering the operating environment and criticalness of engine controls, our maximum recommended in-service time for McFarlane engine controls is equal to the maximum time between engine overhauls, as recommended by the engine manufacturer.

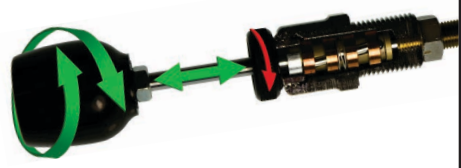
Custom Controls

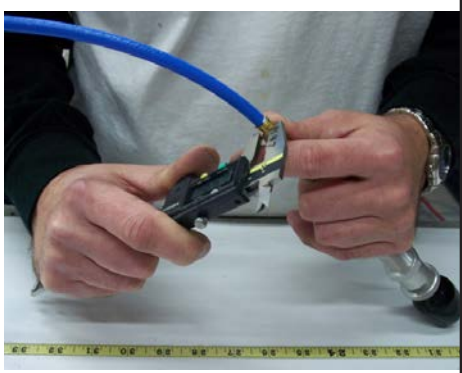
We can manufacture custom engine controls for aircrafts not listed in the approved application charts. All McFarlane custom control cables are built to customer-provided specifications. Our custom controls duplicate the original customer-supplied controls (in length, thread size and pitch, wear sleeve locations, diameter, and travel length). McFarlane custom controls are manufactured to the same standards, materials, rigorous testing, and inspections as our FAA-PMA products – however, custom controls are not FAA-PMA approved. Contact our customs team at **customparts@mcfarlaneaviation.com** or call 866-920-2741 ext 289.

Vernier-Assist™

McFarlane's patented Vernier-Assist™ offers the pilot precision control of the engine, unlike anything else on the market! The Vernier-Assist assembly operates on friction alone by simply turning the knob, with no threads or locking balls/pins. It also allows for normal coarse movement by pushing in or out on the knob. Unlike standard threaded vernier controls, this design cannot be jammed. The friction control provides smoothness and precision when operating the throttle and a friction lock secures the control in position, but it can be easily overridden in the case of an emergency. It is now FAA-PMA approved and **SAFE**!

US Patent No. 8,485,057 B1









Throttle, Mixture, and Propeller Controls

- All metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit



Photo courtesy of Dean Zinter 1956 Cessna 172 TD

Carb Heat Controls

Longer life and up to 40% off OEM list price!

- High temperature Teflon lined conduit for reduced vibration wear, longer life and smooth, consistent control
  - Cheap controls with poly liners will not tolerate engine temperatures!
- Special heavier wire for more fatigue strength and reliability
- Improved friction mechanism
- High quality scratch resistant phenolic knob

Vernier-Assist™ Throttle Controls

Precision control

New roller action vernier provides smooth jam-proof coarse and fine adjustment.

- Jam-proof safety
- Precision power adjustments
- Smooth friction control
- Light and compact
- Standard vernier action, without the button!



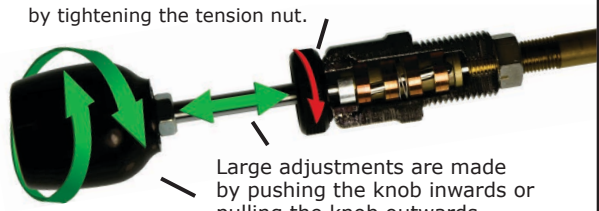
The most often replaced Cessna part just got better and now costs less!

Fine adjustments are made by rotating the knob clockwise or counterclockwise. The McFarlane ***Vernier-Assist™*** throttle control uses a patented roller action and does not use a positive lock thread engagement. For extreme conduit routing or heavy carburetor load installations, slight inward or outward assist pressure could be required during rotation.

New MCVA Throttle Series

Vernier and friction lock - The best of both!

Tension and vernier action is increased by tightening the tension nut.



Large adjustments are made by pushing the knob inwards or pulling the knob outwards.

Part numbers for ***Vernier-Assist™*** are the same as shown in the eligiblity tables except the "MC" prefix changes to "MCVA".

Examples:
Push-Pull P/N MC9863056-2 or ***Vernier-Assist™*** P/N MCVA9863056-2
Push-Pull P/N MCS1222-1S or ***Vernier-Assist™*** P/N MCVAS1222-1S
Push-Pull P/N MCC299505-0101 or ***Vernier-Assist™*** P/N MCVAC299505-0101

Patent No. 8,485,057 B1

Our rod ends and wire clamps sold separately!

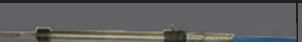
To order Vernier-Assist™ Throttle Controls use "MCVA" prefix

To order an FAA-PMA *Vernier-Assist™* change "MC" prefix to "MCVA" prefix

Model	Serial Number	Throttle Control Rod End	Propeller Control Rod End	Mixture Control Rod End or Wire Clamp	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control Wire Clamp
120	8003 thru 15075	MC0411091-7 [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] *Wire Clamp N/A*			*Control N/A* MCS2323-1 *Wire Clamp*
140 [1]	8001 thru 11846	MC0411091-7 [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] *Wire Clamp N/A*			*Control N/A* MCS2323-1 *Wire Clamp*
140 [1],140A	11847 thru 15724	MC0411091-7 [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] *Wire Clamp N/A*			MC0411090-4CH [6] MCS2323-1 *Wire Clamp*
150 [1]	17001 thru 17683	MC0411091-7 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			*Control N/A* MCS2323-1 *Wire Clamp*

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control 	Propeller Control 	Mixture Control 	Cowl Flap Left Hand 	Cowl Flap Right Hand	Carb Heat Control 
Model	**Serial Number**	**Rod End** 	**Rod End** 	**Rod End or Wire Clamp** 			**Wire Clamp** 
150 [1]	17684 thru 59018	MC0411091-7 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MC0713302-5CH [6] MCS2323-1 *Wire Clamp*
150A,B,C, D,E,F	All	MCS1222-11S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-2 MCS2323-1 *Wire Clamp*
150G	All	MCS1222-14S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-2 MCS2323-1 *Wire Clamp*
150H,J,K,L	All	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
150M	All	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-12 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
A150K,L	All	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
A150M	All	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-12 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
F150F	All	MCS1222-11S [2] MCS1104-3 *Rod End*		*Control N/A* MCS2323-6 *Wire Clamp*			MCS1230-2 MCS2323-1 *Wire Clamp*
F150G	All	MCS1222-14S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-2 MCS2323-1 *Wire Clamp*
F150H, F150J,K,L	All	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
F150M	All	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-12 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
FA150K,L [1]	FA1500001 thru FA1500120	MCC299505-0202S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-6 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
FA150L [1]	FA1500121 thru FA1500261	MCC299505-0202S [2] MCS1104-3 *Rod End*		*Control N/A* MCS2323-6 *Wire Clamp*			*Control N/A* MCS2323-1 *Wire Clamp*
FA150M	FA1500262 thru FA1500336	MCC299505-0202S [2] MCS1104-3 *Rod End*		*Control N/A* MCS2323-12 *Wire Clamp*			*Control N/A* MCS2323-1 *Wire Clamp*
FRA150L, FRA150M [1]	FRA1500121 thru FRA1500311	MCC299505-0202S [2] MCS1104-3 *Rod End*		*Control N/A* MCS2323-12 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
FRA150M [1]	FRA1500312 thru FRA1500336	*Control N/A* MCS1104-3 *Rod End*		*Control N/A* MCS2323-12 *Wire Clamp*			MCS1230-19 MCS2323-1 *Wire Clamp*
152 [1]	15279406 thru 15282031	MC9863053-20 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
152 [1]	15282032 thru 15285939	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
152 [1]	15285940 thru 15286033	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			*Control N/A* MCS2323-5 *Wire Clamp*
A152 [1]	A1520735 thru A1520808	MC9863053-20 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ throttle, change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
A152 [1]	A1520809 thru A1521049	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
F152 [1]	F15201429 thru F15201528	MC9863053-20 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
F152 [1]	F15201529 thru F15201952	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
F152 [1]	F15201953 thru F15201980	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			*Control N/A* MCS2323-5 *Wire Clamp*
FA152 [1]	FA1520337 thru FA1520347	MC9863053-20 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
FA152 [1]	FA1520348 thru FA1520387	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
FA152 [1]	FA1520388 thru FA1520425	MC9863056-1 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			*Control N/A* MCS2323-5 *Wire Clamp*
170	All	MC0411091-2 [2] *Rod End N/A*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MC0411090-4CH [6] MCS2323-1 *Wire Clamp*
170A	All	MC0411091-2 [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MC0411090-4CH [6] MCS2323-1 *Wire Clamp*
170B [1]	20267 thru 25372	MC0411091-2 [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] *Wire Clamp N/A*			MC0411090-4CH [6] MCS2323-1 *Wire Clamp*
170B [1]	25373 thru 27169	MCS1222-2S [8] [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] *Wire Clamp N/A*			MC0411090-22CH [6] MCS2323-1 *Wire Clamp*
172 [1]	28000 thru 36965	MCS1222-2S [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MC0411090-22CH [6] MCS2323-1 *Wire Clamp*
172 [1]	36966 thru 46754	MCS1222-2S [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MC0713302-5CH [6] MCS2323-1 *Wire Clamp*
172A	All	MCS1222-2S [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MC0713302-5CH [6] MCS2323-1 *Wire Clamp*
172B,C	All	MCS1222-2S [2] MCS1104-3 [3] *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1224-4 MCS2323-5 *Wire Clamp*
172D	All	MCS1222-2S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1224-4 ***New!*** MCS2323-5 *Wire Clamp*
172E,F	All	MCS1222-15S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1224-4 MCS2323-5 *Wire Clamp*
172G,H	All	MCS1222-15S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1230-7 MCS2323-5 *Wire Clamp*
172I,K, L,M [1]	17256513 thru 17263458	MCC299505-0102 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control 	Propeller Control 	Mixture Control 	Cowl Flap Left Hand 	Cowl Flap Right Hand	Carb Heat Control 
Model	**Serial Number**	**Rod End** 	**Rod End** 	**Rod End or Wire Clamp** 			**Wire Clamp** 
172M[1]	17263459 thru 17267584	MCC299505-0102 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
172N[1]	17267585 thru 17271034	MC9863053-15 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
172N[1]	17271035 thru 17274009	MC9863056-3 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
172P	17274010 thru 17276654	MC9863056-3 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
172Q	All	MC9863056-3 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1241-49 MCS2323-5 *Wire Clamp*
172R,S	All	MC565-549-021 [2] MCS1104-3 *Rod End*		MC565-548-041 MCS1104-3 *Rod End*			
172RG	All	MC9863056-8 [2] MCS1104-3 *Rod End*	MC345-085-9 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-11 *Wire Clamp*			*Control N/A* MCS2323-7 *Wire Clamp*
F172D	All	MCS1222-2S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1224-4 ***New!*** MCS2323-5 *Wire Clamp*
F172E,F	All	MCS1222-15S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1224-4 MCS2323-5 *Wire Clamp*
F172G,H[1]	F172-0180 thru F172-0559	MCS1222-15S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1230-7 MCS2323-5 *Wire Clamp*
F172H[1],K	F172-0560 thru F17200804	MCC299505-0203S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
F172L,M[1]	F17200805 thru F17201034	MCC299505-0203S [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1230-17 *Wire Clamp N/A*
F172M[1]	F17201035 thru F17201234	MCC299505-0102 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-2 *Wire Clamp*			
F172M[1]	F17201235 thru F17201514	MCC299505-0102 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
F172N[1]	F17201515 thru F17201749	MC9863053-15 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
F172N[1]	F17201750 thru F17202039	MC9863056-3 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
F172P	F17202040 thru F17202254	MC9863056-3 [2] MCS1104-3 *Rod End*		MC600-72 [5] MCS2323-13 *Wire Clamp*			MCS1230-17 MCS2323-5 *Wire Clamp*
FP172	All	MCS1222-4 [2] MCS1106-4 *Rod End*	MCC299506-0105 MCS1104-3 *Rod End*	*Control N/A* MCS2323-4 *Wire Clamp*			*Control N/A* MCS2323-5 *Wire Clamp*
FR172E	All	*Control N/A* MCS1104-3 *Rod End*	MCS1223-17 MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*			

[1] Partial model eligibility
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[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control 	Propeller Control 	Mixture Control 	Cowl Flap Left Hand 	Cowl Flap Right Hand	Carb Heat Control 
Model	**Serial Number**	**Rod End** 	**Rod End** 	**Rod End or Wire Clamp** 			**Wire Clamp** 
FR172F, G,H,J[1]	FR17200061 thru FR17200530	MCC299505-0204S [2] MCS1104-3 *Rod End*	MCC299506B0104 MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*			
FR172J[1]	FR17200531 thru FR17200590	MCC299505-0204S [2] MCS1104-3 *Rod End*	MCC299506B0104 MCS1104-3 *Rod End*	MC9862066-6 MCS1104-3 *Rod End*			
FR172K[4]	FR17200591 thru FR17200630	MC9863053-10 [2] MCS1104-3 *Rod End*	MCC299506B0104 MCS1104-3 *Rod End*	MC9862066-6 MCS1104-3 *Rod End*	MCS1391-26 (one per aircraft)		
FR172K[1]	FR17200631 thru FR17200675	MC9863055-10 [2] MCS1104-3 *Rod End*	MCC299506B0104 MCS1104-3 *Rod End*	MC9862066-6 MCS1104-3 *Rod End*	MCS1391-26 (one per aircraft)		
P172D	All	MCS1222-4 [2] MCS1106-4 *Rod End*	MCC299506-0105 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1224-4 MCS2323-5 *Wire Clamp*
R172K[1][9]	R1722000 thru R1722929	MC9863053-10 [2] MCS1104-3 *Rod End*	MCC299506B0104 MCS1104-3 *Rod End*	MC9862066-6 MCS1104-3 *Rod End*	MCS1391-26 (one per aircraft)		
R172K[1]	R1722930 thru R1723454	MC9863055-10 [2] MCS1104-3 *Rod End*	MCC299506B0104 MCS1104-3 *Rod End*	MC9862066-6 MCS1104-3 *Rod End*	MCS1391-26 (one per aircraft)		
175[1]	55001 thru 55703	MC0411091-27 [2] MCS1106-4 *Rod End*	*Control N/A* MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MC0411090-22CH [6] MCS2323-5 *Wire Clamp*
175[1]	55704 thru 56238	MC0411091-30 [2] MCS1106-4 *Rod End*	*Control N/A* MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MC0713302-5CH [6] MCS2323-5 *Wire Clamp*
175A	All	MCS1222-4 [2] MCS1106-4 *Rod End*	*Control N/A* MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MC0713302-5CH [6] MCS2323-5 *Wire Clamp*
175B,C	All	MCS1222-4 [2] MCS1106-4 *Rod End*	*Control N/A* MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1224-4 MCS2323-5 *Wire Clamp*
177	All	MCS1222-19 [2] MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-2 *Wire Clamp*			MCS1788-2 *Wire Clamp N/A*
177A	All	MCC299505-0301 [2] MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-19 MCS2323-5 *Wire Clamp*
177B[1]	17701371 thru 17702539	MCC299505-0301 [2] MCS1104-3 *Rod End*	MCC299506-0105 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1391-25	MCS1391-26	MCS1230-19 MCS2323-5 *Wire Clamp*
177B[1]	17702540 thru 17702752	MC565-549-013 [2] MCS1104-3 *Rod End*	MC345-085-4 MCS1104-3 *Rod End*	MC600-72 [5] *Wire Clamp N/A*	MCS1391-25	MCS1391-26	MCS1230-19 MCS2323-5 *Wire Clamp*
177RG[1]	177RG0001 thru 177RG1051	MCC299505-0401 [2] MCS1104-3 *Rod End*	MCC299506-0105 MCS1104-3 *Rod End*	MCC299507-0102 MCS1104-3 *Rod End*	MCS1391-27	MCS1391-27	
177RG[1]	177RG1052 thru 177RG1366	*Control N/A* MCS1104-3 *Rod End*	MC345-085-4 MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	MCS1391-27	MCS1391-27	
F177RG[1]	F177RG0001 thru F177RG0160	MCC299505-0401 [2] MCS1104-3 *Rod End*	MCC299506-0105 MCS1104-3 *Rod End*	MCC299507-0102 MCS1104-3 *Rod End*			
F177RG[1]	F177RG0161 thru F177RG0177		MC345-085-4 *Rod End N/A*				
180[1]	30000 thru 32150	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC0713041-1 or MC0713041-1B [10] (Dual control, one per aircraft)		MC0411090-22CH [6] MCS2323-5 *Wire Clamp*

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
180 [1]	32151 thru 32160	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC0713041-1 or MC0713041-1B [10] (Dual control, one per aircraft)		*Control N/A* MCS2323-5 *Wire Clamp*
180 [1], 180A	32161 thru 50355	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC0713041-1 or MC0713041-1B [10] (Dual control, one per aircraft)		MC0713050-2 MCS2323-5 *Wire Clamp*
180B	50356 thru 50661	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC0713050-2 [7] [5] MCS2323-4 *Wire Clamp*	MC0713041-1 or MC0713041-1B [10] (Dual control, one per aircraft)		MC0713050-2 MCS2323-5 *Wire Clamp*
180C	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC0713050-2 [7] [5] MCS2323-4 *Wire Clamp*	MC0713306-1 (Dual control, one per aircraft)		MC0713302-5CH [6] MCS2323-5 *Wire Clamp*
180D,E	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1245-1	MCS1245-2	MC0713302-5CH [6] MCS2323-5 *Wire Clamp*
180F	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1245-1	MCS1245-2	MCS1230-2 MCS2323-5 *Wire Clamp*
180G	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1245-3	MCS1245-2	MCS1230-2 MCS2323-5 *Wire Clamp*
180H [1]	18051446 thru 18051875	MCS1222-13S [2] MCS1106-4 *Rod End*	MCS1223-5 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1572-1	MCS1245-2	MCS1230-2 MCS2323-5 *Wire Clamp*
180H [1], J	18051876 thru 18052770	MCC299505-0201S [2] MCS1106-4 *Rod End*	MCC299506-0103 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1572-1	MCS1245-2	MCS1230-19 MCS2323-5 *Wire Clamp*
180K [1]	18052771 thru 18053000	MC9863053-5 [2] MCS1106-4 *Rod End*	MC345-085-3 MCS1104-3 *Rod End*	*Control N/A* MCS2323-4 *Wire Clamp*	MC9860074-3	MC9860074-4	MCS1230-19 MCS2323-5 *Wire Clamp*
180K [1]	18053001 thru 18053203	MC9863055-9 [2] MCS1106-4 *Rod End*	MC345-085-3 MCS1104-3 *Rod End*	*Control N/A* MCS2323-4 *Wire Clamp*	MC9860074-3	MC9860074-4	MCS1230-19 MCS2323-5 *Wire Clamp*
182	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			*Control N/A* MCS2323-5 *Wire Clamp*
182A	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MC0411090-22CH [6] MCS2323-5 *Wire Clamp*
182B,C	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC0713050-2 [5] [7] MCS2323-4 *Wire Clamp*	MC0713306-1 (Dual control, one per aircraft)		MC0713302-5CH [6] MCS2323-5 *Wire Clamp*
182D	All	MCS1222-1S [2] MCS1106-4 *Rod End*	MCS1223-4 MCS1104-3 [3] *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MCS1245-1	MCS1245-2	MC0713302-5CH [6] MCS2323-5 *Wire Clamp*
182E,F,G	All	MCS1222-6S [2] MCS1106-4 *Rod End*	MCS1223-3 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-3 MCS2323-5 *Wire Clamp*
182H,J,K	All	MCS1222-13S [2] MCS1106-4 *Rod End*	MCS1223-6 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-3 MCS2323-5 *Wire Clamp*
182L,M, 182N [1]	18258506 thru 18260445	MCC299505-0201S [2] MCS1106-4 *Rod End*	MCC299506-0102 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*
182N [1], 182P [1]	18260446 thru 18261425	MCC299505-0201S [2] MCS1106-4 *Rod End*	MCC299506-0102 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
182P[1]	18261426 thru 18264835	MCC299505-0205 [2] MCS1106-4 *Rod End*	MCC299506-0102 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*
182P[1]	18264836 thru 18265175	MC9863053-5 [2] MCS1106-4 *Rod End*	MCC299506-0102 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*
182Q[1]	18265176 thru 18266590	MC9863053-5 [2] MCS1106-4 *Rod End*	MC9862067-3 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*
182Q[1]	18266591 thru 18267715	MC9863055-9 [2] MCS1106-4 *Rod End*	MC9862067-3 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*
182R	All	MC9863055-9 [2] MCS1106-4 *Rod End*	MC9862067-3 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 *Wire Clamp*
182S, 182T, T182T	All	MC565-549-031 [2] MCS1104-3 *Rod End*	MC565-580-038 MCS1104-3 *Rod End*	MC565-548-042 MCS1104-3 *Rod End*	MC580-703-024	MC580-703-025	
A182J, A182K,L,N		*Control N/A* MCS1106-4 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	*Control N/A* MCS2323-4 *Wire Clamp*			*Control N/A* MCS2323-5 *Wire Clamp*
F182P	All	MC9863053-5 [2] MCS1106-4 *Rod End*	MCC299506-0102 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-10 MCS2323-5 *Wire Clamp*
F182Q[1]	F18200026 thru F18200094	MC9863053-5 [2] MCS1106-4 *Rod End*	MC9862067-3 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-10 MCS2323-5 *Wire Clamp*
F182Q[1]	F18200095 thru F18200169	MC9863055-9 [2] MCS1106-4 *Rod End*	MC9862067-3 MCS1104-3 *Rod End*	MC600-72 [5] MCS2323-4 *Wire Clamp*			MCS1230-10 MCS2323-5 *Wire Clamp*
FR182[1]	FR18200001 thru FR18200020	MC9863053-11 [2] MCS1104-3 *Rod End*	MC345-085-5 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*			MCS1230-10 MCS2323-1 *Wire Clamp*
FR182[1]	FR18200021 thru FR18200045	MC9863056-6 [2] MCS1104-3 *Rod End*	MC345-085-5 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*			MCS1230-10 MCS2323-1 *Wire Clamp*
FR182[1]	FR18200046 thru FR18200070	MC9863056-6 [2] MCS1104-3 *Rod End*	MC345-085-8 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*			MCS1230-10 MCS2323-1 *Wire Clamp*
R182[1]	R18200001 thru R18200583	MC9863053-11 [2] MCS1104-3 *Rod End*	MC345-085-5 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*	MC9860075-3	MC9860075-4	MCS1230-10 MCS2323-1 *Wire Clamp*
R182[1]	R18200584 thru R18201313	MC9863056-6 [2] MCS1104-3 *Rod End*	MC345-085-5 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*	MC9860075-3	MC9860075-4	MCS1230-10 MCS2323-1 *Wire Clamp*
R182[1]	R18201314 thru R18202041	MC9863056-6 [2] MCS1104-3 *Rod End*	MC345-085-8 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*	MC9860075-3	MC9860075-4	MCS1230-10 MCS2323-1 *Wire Clamp*
T182	All	MC9863056-7 [2] *Rod End N/A*	MC345-085-8 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*	MC9860075-3	MC9860075-4	*Control N/A* MCS2323-3 *Wire Clamp*
TR182[1]	R18200584 thru R18201313	MC9863056-7 [2] MCS1104-3 *Rod End*	MC345-085-6 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*	MC9860075-3	MC9860075-4	*Control N/A* MCS2323-3 *Wire Clamp*
TR182[1]	R18201314 thru R18202041	MC9863056-7 [2] MCS1104-3 *Rod End*	MC345-085-8 MCS1104-3 *Rod End*	*Control N/A* MCS2323-11 *Wire Clamp*	MC9860075-3	MC9860075-4	*Control N/A* MCS2323-3 *Wire Clamp*

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
185	All	MC1213228-3 [2] MCS1104-3 *Rod End*	MCS1223-5 MCS1104-3 *Rod End*	MC1213229-2 MCS1104-3 *Rod End*	MCS1245-3	MCS1245-2	MCS1230-2 *Wire Clamp N/A*
185A,B, C,D,E	All	MCS1294-1 [2] MCS1104-3 *Rod End*	MCS1223-5 MCS1104-3 *Rod End*	MCS1220-4 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	MCS1230-2 *Wire Clamp N/A*
A185E [1]	185-0968 thru 185-1300	MCS1294-1 [2] MCS1104-3 *Rod End*	MCS1223-5 MCS1104-3 *Rod End*	MCS1220-4 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	MCS1230-2 *Wire Clamp N/A*
A185E [1]	185-1301 thru 18502007	MCC299505-0301 [2] MCS1104-3 *Rod End*	MCC299506-0103 MCS1104-3 *Rod End*	MCC299507-0201 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	
A185E [1]	18502008 thru 18502025	MCC299505-0501 [2] MCS1104-3 *Rod End*	MCC299506-0201 MCS1104-3 *Rod End*	MCC299507-0401 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	
A185E [1]	18502026 thru 18502027	MCC299505-0301 [2] MCS1104-3 *Rod End*	MCC299506-0103 MCS1104-3 *Rod End*	MCC299507-0201 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	
A185E [1]	18502028 thru 18502090	MCC299505-0501 [2] MCS1104-3 *Rod End*	MCC299506-0201 MCS1104-3 *Rod End*	MCC299507-0401 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	
A185F [1]	18502091 thru 18502310	MCC299505-0501 [2] MCS1104-3 *Rod End*	MCC299506-0201 MCS1104-3 *Rod End*	MCC299507-0401 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	
A185F [1]	18502311 thru 18503153	MCC299505-0501 [2] MCS1104-3 *Rod End*	MCC299506-0201 MCS1104-3 *Rod End*	MCC299507-0401 MCS1104-3 *Rod End*	MCS1572-1	MCS1245-2	
A185F [1]	18503154 thru 18503683	MC9863053-17 [2] MCS1104-3 *Rod End*	MC345-085-7 MCS1104-3 *Rod End*	MC9862066-3 MCS1104-3 *Rod End*	MC9860074-3	MC9860074-4	
A185F [1]	18503684 thru 18504448	MC9863056-5 [2] MCS1106-3 *Rod End*	MC345-085-7 MCS1104-3 *Rod End*	MC9862066-3 MCS1104-3 *Rod End*	MC9860074-3	MC9860074-4	
188,188A	All	MCS1391-18 [2] MCS1104-3 *Rod End*	MCS1391-19 MCS1104-3 *Rod End*	MCS1220-13 MCS1104-3 *Rod End*			*Control N/A* MCS2323-5 *Wire Clamp*
188B, A-188B [4] A-A188B [4]	All	MCS2149-1 [2] MCS1106-3 *Rod End*	MCS2149-2 MCS1106-3 *Rod End*	MCC299507-0301 MCS1106-3 *Rod End*			*Control N/A* MCS2323-5 *Wire Clamp*
A188 [4] A188A [4]	All	MCS1391-20 [2] MCS1104-3 *Rod End*	MCS1391-19 MCS1104-3 *Rod End*	MCS1220-13 MCS1104-3 *Rod End*			*Control N/A* MCS2323-5 *Wire Clamp*
A188B [1] [4]	18802349 thru 18802745, 18802349T thru 18802745T	MCS2149-1 [2] MCS1106-3 *Rod End*	MCS2149-2 MCS1106-3 *Rod End*	MCC299507-0301 MCS1106-3 *Rod End*			*Control N/A* MCS2323-5 *Wire Clamp*
A188B [1] [4]	18802746 thru 18803973, 18802746T thru 18803973T	MCC299508-0301 [2] MCS1106-3 *Rod End*	MCC299508-0302 MCS1106-3 *Rod End*	MCC299508-0401 MCS1106-3 *Rod End*			*Control N/A* MCS2323-5 *Wire Clamp*
T188C	All	MCC299508-0303 [2] MCS1106-3 *Rod End*	MCC299508-0304 MCS1106-3 *Rod End*	MCC299508-0402 MCS1106-3 *Rod End*			

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
190	All	MC0411091-4 [2] MCS1106-3 [2] *Rod End*	MC0311031-1 MCS1104-3 [3] *Rod End*	*Control N/A* MCS1104-3 [3] *Rod End*			
195, 195A,B	All	MC0411091-4 [2] MCS1106-3 [2] *Rod End*	MC0311031-2 MCS1104-3 [3] *Rod End*	*Control N/A* MCS1104-3 [3] *Rod End*			
210-5 (205), 210-5A (205A)	All	MCS1219-1 [2] MCS1104-3 *Rod End*	MCS1223-17 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
206	All	MCS1219-1 [2] MCS1104-3 *Rod End*	MCS1223-17 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
206H	All	MC565-549-041 [2] MCS1104-3 *Rod End*	MC565-580-012 MCS1104-3 *Rod End*	MC565-548-043 MCS1104-3 *Rod End*	MC580-703-026	MC580-703-027	
P206, P206A,B	All	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
P206C,D,E	All	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
T206H	All	MC565-549-041 [2] MCS1104-3 *Rod End*	MC565-580-012 MCS1104-3 *Rod End*	MC565-548-043 MCS1104-3 *Rod End*	MC580-703-026	MC580-703-027	
TP206A[1]	P2060161 thru P2060274	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
TP206A[1], TP206B	P2060275 thru P2060419	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
TP206C, TP206D,E	All	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
TU206A[1]	U2060438 thru U2060617	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
TU206A[1], TU206B	U2060618 thru U206-0914	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
TU206C, TU206D, TU206E, TU206F	All	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
TU206G[1]	U20603522 thru U20604649	MC9863053-13 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
TU206G[1]	U20604650 thru U20607020	MC9863056-2 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
U206, U206A,B	All	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
U206C,D,E	All	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
U206F[1]	U20601701 thru U20602199	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
U206F[1]	U20602200 thru U20603521	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
U206G[1]	U20603522 thru U20604649	MC9863053-13 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
U206G[1]	U20604650 thru U20607020	MC9863056-2 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
207,T207	All	MCS1222-25A [2] MCS1104-3 *Rod End*	MCS1223-16 MCS1104-3 *Rod End*	MCS1220-12A MCS1104-3 *Rod End*	MCS1244-29	MCS1244-30	
207A[1] T207A[1]	20700363 thru 20700482	MC9863053-16 [2] MCS1104-3 *Rod End*	MC9862067-12 MCS1104-3 *Rod End*	MC9862066-5 MCS1104-3 *Rod End*	MCS1244-29	MCS1244-30	
207A[1] T207A[1]	20700483 thru 20700788	MC9863056-4 [2] MCS1104-3 *Rod End*	MC9862067-12 MCS1104-3 *Rod End*	MC9862066-5 MCS1104-3 *Rod End*	MCS1244-29	MCS1244-30	
210,210A	All	MC1213228-2 [2] MCS1104-3 *Rod End*	MCS1223-17 MCS1104-3 *Rod End*	MC1213229-1 MCS1104-3 *Rod End*	MC1213040-1	MC1213040-2	
210B,C,D	All	MCS1219-1 [2] MCS1104-3 *Rod End*	MCS1223-17 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
210E,F,G	All	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
210H,J	All	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
210K[1]	21059200 thru 21059240	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
210K[1],L	21059241 thru 21061573	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
210M	All	MC9863053-13 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
210N	All	MC9863056-2 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
210R	All	MCC299513-0101 [2] MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*			
P210N[1]	P21000001 thru P21000150	MC9863053-13 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
P210N[1]	P21000151 thru P21000834	MC9863056-2 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
P210R	All	MCC299513-0101 [2] MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	*Control N/A* MCS1106-3 *Rod End*	*Control N/A* MCS1106-3 *Rod End*	
T210F	All	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
T210G	All	MCS1222-10A [2] MCS1104-3 *Rod End*	MCS1223-4 MCS1104-3 *Rod End*	MCS1220-3 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

Eligibility continued on next page

To order an FAA-PMA *Vernier-Assist*™ change "MC" prefix to "MCVA" prefix		Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
Model	**Serial Number**	**Rod End**	**Rod End**	**Rod End or Wire Clamp**			**Wire Clamp**
T210H,J	All	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
T210K[1]	21059200 thru 21059240	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-5	MCS1244-31	
T210K[1],L	21059241 thru 21061573	MCC299505-0101 [2] MCS1104-3 *Rod End*	MCC299506-0101 MCS1104-3 *Rod End*	MCC299507-0101 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
T210M	All	MC9863053-13 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
T210N	All	MC9863056-2 [2] MCS1104-3 *Rod End*	MC9862067-1 MCS1104-3 *Rod End*	MC9862066-1 MCS1104-3 *Rod End*	MCS1244-32	MCS1244-31	
T210R	All	MCC299513-0101 [2] MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	*Control N/A* MCS1104-3 *Rod End*	*Control N/A* MCS1106-4 *Rod End*	*Control N/A* MCS1106-4 *Rod End*	

[1] Partial model eligibility
[2] To order Vernier-Assist™ throttle controls change "MC" prefix to "MCVA" prefix
[3] If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit
[4] Controls not eligible for A188, A188A, or A188B with Continental O-470 engine
[5] P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
[6] Eligible for use as a carburetor heat control only
[7] The MC600-72 control is an approved alternate control for this aircraft. See note [5]
[8] The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.
[9] S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51
[10] See page 34 for details

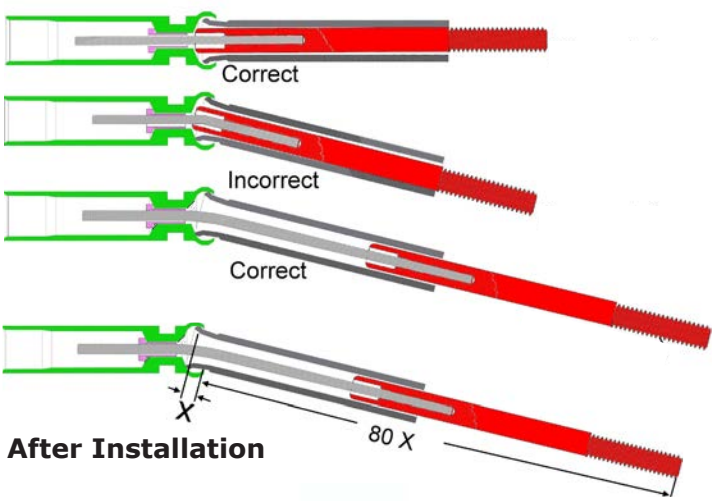


Maintenance Tip:

McFarlane does not recommend any lubrication of our controls, especially the throttle control. A special laminated leather packing is used on our throttle controls to allow smooth friction adjustments as the friction nut is rotated. When lubrication is applied to the control (even at the engine end), the oil can work up the inner core cable and conduit to the leather packing area causing loss of locking friction. The McFarlane controls are built with a self-lubricating Teflon® liner and a stainless steel inner core. A lifetime anti-seize paste lubricant is applied in specific areas to prevent galling and control lockup if the control becomes contaminated in service. The oil can compromise the anti-seize compound installed at the factory. McFarlane and Cessna both recommend new controls at time intervals equal to engine overhaul. Engine controls absorb tremendous vibration over an engine service cycle and the resultant wear and damage cannot be seen from the control exterior. The rubber boots must be kept in good condition as they keep contamination out and are critical to prevent vibration wear. Never re-install a control that has excess friction as this friction is the best indicator of overload internal damage and pending failure.

Engine Control Rigging

- Pushrod must be extended when angled
- Inner flex cable is stressed when pushrod is retracted and angled



Engine Controls Can Be Damaged

- The pushrod has extreme leverage on the swivel joint
- Do not sideload the pushrod during installation

Always Replace Vibration Boots and Spring After Installation

- Stops vibration erosion and wear
- Seals out dirt



Cessna Flap Indicator Cables

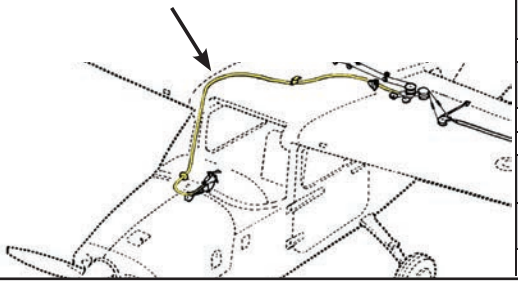
- Ours actually work!
- Reduced friction, longer life
- Restore reliability
- Save $$$



P/N MCS1244-9



P/N MC9864054-2



Aircraft	Serial Number	Part Number	Description
150F,G, F150F,G	15061533 thru 15067198	MC0413416-2	Tube
		MC0413416-6	Cable
150H,J,K,L,M[1]	15067199 thru 15078505	MC0413416-11 MC0413416-6	Tube Cable
A150K,L,M[1]	A1500001 thru A1500684		
F150H,J,K,L,M[1]	F150-0220 thru F15001338		
FA150K,L,M[1]	FA1500001 thru F1500311		
150M[1]	15078506 thru 15079405	MC9864054-2 MC0413416-6	Cable Cable
A150M[1]	A1500685 thru A1500734		
F150M[1]	F15001339 thru F15001428		
FA150M[1]	FA1500312 thru FA1500336		
152, A152, F152, FA152	All	MC9864054-2	Cable
172N,P,Q,R,S, 172RG, F172N,P, FR172K, R172K	All	MC9864054-1	Cable
177B[1] 177RG[1] F177RG[1]	17701634 thru 17702592 177RG0213 thru 177RG1088 F177RG0043 thru F177RG0172	MC9864050-200	Control
	17702593 thru 17702752 177RG1089 thru 177RG1266 F177RG0173 thru F177RG0177	MC9864050-10	
FR182, R182[1], TR182[1]	FR18200001 thru FR18200070 R18200001 thru R18201384	MC9864050-12	Control
	R18201385 thru R18202041	MCS2083-2	Control
206H, T206H	All	MC9864050-3	Control
207[1], T207[1]	20700001 thru 20700314	MC9860058-2	Control
	20700315 thru 20700362	MC9864050-2	
210H,J,K,L,M,N[1]	21058937 thru 21063174	MCS1244-9	Control
T210H,J,K,L,M,N[1]	T210-0308 thru 21063174		
210N, 210R[1], T210N, T210R[1]	21063169, 21063175 thru 21064975	MC9864050-16	Control
P210N[1] P210R[1]	P21000197, P21000213 thru P21000874		

[1] Partial model eligibility.

Dual Cowl Flap Controls for Cessna Aircraft

Models 180, 180A and 180B

- Solid wire ends
- Choose a chrome or black knob to match your panel!



Chrome P/N MC0713041-1

Black P/N MC0713041-1B

Models 180C, 182B and 182C
P/N MC0713306-1

- Higher locking force than the original prevents cowl flap slippage
- Superior low friction Teflon lined conduit to reduce wear
- Heavier inner wire and conduit mean less deflection under load
- Powder coated aluminum knob for a durable finish
- Push rod ends



P/N MC0713306-1

Starter Control Cable

P/N 0513142-14

- Manufactured by Cessna
- Panel mounted
- Fits some earlier model Cessna aircraft



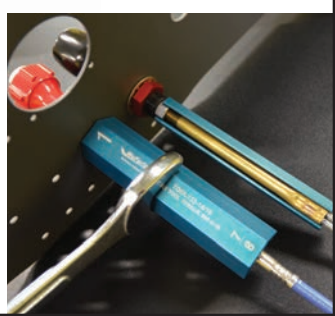
Push-Pull Control Wrench Set

P/N TOOL132 installs and removes push-pull control nuts behind the panel

- Works with all controls — six nut sizes!
- 5 1/2" length reaches deep, hard to access nuts
- Slot allows access to nut on installed control
- Wrench anywhere on the external hex
- Lightweight aluminum is easy to handle when using overhead
- Many other uses (brake/fuel/vent/hydraulic lines, etc)
- Includes case

Part Number	Description
TOOL132	Contains one of each wrench
TOOL132-8/9	1/2" and 9/16"
TOOL132-11/12	11/16" and 3/4"
TOOL132-14/16	7/8" and 1" wrench





Cabin Environment Controls for Cessna Aircraft

- Special, heavier wire for more fatigue strength and reliability
- Improved push-to-unlock mechanism on MCS P/Ns = more holding strength
- High temperature Teflon lined conduit
- Reduced vibration wear and longer life!
- Most knobs match originally equipped knobs
- Part numbers ending in "A" are marked "Cabin Air" on the knob;
  Part numbers ending in "H" are marked "Cabin Heat" on the knob;
  Part numbers ending with numbers are unmarked.

NEW

New cabin heat and cabin air controls and expanded eligibility!



Aircraft	Serial Number	Part Number	Aux Cabin Air	Cabin Air	Cabin Air LH	Cabin Air RH	Cabin Heat	Cabin Vent.	Cold Air	Defrost	Fwd Air
150A,B,C,D,E,F, F150F	All	MCS1239-25					●				
		MCS1239-25H					●				
150G, F150G	All	MCS1239-25					●				
		MCS1239-25H					●				
		MCS1239-25A		●							
150K,L,M, A150K,L,M, F150K,L,M, FA150K,L,M	All	MCS1239-46		●			●				
		MCS1239-46A		●							
		MCS1239-46H					●				
152 [1], A152 [1], F152 [1], FA152 [1]	15279406 thru 15283591 A1520735 thru A1520878 F15201429 thru F15201673 FA1520337 thru FA1520357	MCS1239-46		●			●				
		MCS1239-46A		●							
		MCS1239-46H					●				
	15283592 thru 15286033 A1520879 thru A1521049 F15201674 thru F15201980 FA1520358 thru FA1520425	MCS1239-46		●							
		MCS1239-46A					●				
		MCS1239-48					●				
		MCS1239-48H					●				
172 [1], 172A	36966 thru 47746	MC0713302-5					●				
		MC0713302-5H					●				
		MCS1239-19		●							
		MCS1239-19A		●							
172B,C	17247747 thru 17249544	MCS1239-19		●			●				
		MCS1239-19A		●							
		MCS1239-19H					●				
172D,E,F,G, F172D,E,F,G, P172D	All	MCS1239-15		●			●				
		MCS1239-15A		●							
		MCS1239-15H					●				
172H,I,K [1], F172H [1]	17254893 thru 17258486 F172-0320 thru F172-0654	MCS1239-36		●			●				
		MCS1239-36A		●							
		MCS1239-36H					●				
172K [1],L,M,N [1], F172H [1],K,L,M,N [1]	17258487 thru 17272884 F17200655 thru F17201909	MCS1239-48		●			●				
		MCS1239-48A		●							
		MCS1239-48H					●				
172N [1]	17272885 thru 17274009	MCS1239-46		●							
		MCS1239-46A		●							
		MCS1239-48					●				
		MCS1239-48H					●				
172P [1],Q, F172N [1],P [1]	17274010 thru 17276259 F17201910 thru F17202233	MCS1239-46		●							
		MCS1239-46A		●							
		MCS1239-48					●				
172P [1], F172P [1]	17276260 thru 17276654 F17202234 thru F17202254	MCS1241-35		●							
		MCS1241-52					●				
172R,S	All	MCS1241-35		●							
		MCS1241-52					●				
172RG [1]	172RG0001 thru 172RG1177	MCS1239-46		●							
		MCS1239-46A		●							
		MCS1239-48					●				
		MCS1239-48H					●				
	172RG1178 thru 172RG1191	MCS1241-35		●							
		MCS1241-52					●				

Notes:
[1] Partial model eligibility

Continued on next page

Cabin Environment for Cessna Aircraft continued from previous page

Aircraft	Serial Number	Part Number	Aux Cabin Air	Cabin Air	Cabin Air LH	Cabin Air RH	Cabin Heat	Cabin Vent.	Cold Air	Defrost	Fwd Air
175 [1]	55001 thru 55703	MC0411090-22					●				
		MC0411090-22H					●				
175 [1], 175A	55704 thru 56777	MC0713302-5					●				
		MC0713302-5H					●				
		MCS1239-19		●							
		MCS1239-19A		●							
175B,C	All	MCS1239-19		●			●				
		MCS1239-19A		●							
180B,C	All	MC0713302-5					●				
		MC0713302-5H					●				
		MCS1239-19		●							
		MCS1239-19A		●							
180D,E	All	MCS1239-19		●							
		MCS1241-1					●				
180F,G	All	MCS1241-1					●				
		MCS1239-25		●							
		MCS1239-25A		●							
180H	18051446 thru 18051875	MCS1241-1					●				
		MCS1239-25		●							
		MCS1239-25A		●							
	18051876 thru 18052103	MCS1239-31					●				
		MCS1239-31H					●				
		MCS1239-36		●							
		MCS1239-36A		●							
	18052104 and on	MCS1239-46A		●							
		MCS1239-46		●							
		MCS1239-48					●				
		MCS1239-48H					●				
180J,K	All	MCS1239-46A		●							
		MCS1239-46		●							
		MCS1239-48					●				
		MCS1239-48H					●				
182B,C	All	MC0713302-5					●				
		MC0713302-5H					●				
		MCS1239-19		●							
		MCS1239-19A		●							
182D	All	MCS1239-19		●							
		MCS1239-19A		●							
		MCS1241-1					●				
182E,F,G,H,J,K	All	MCS1241-1		●			●				
182L,M	All	MCS1241-27		●			●				
182N	18260056 thru 18260445	MCS1241-27		●			●				
	18260446 and on	MCS1241-34					●				
		MCS1241-36		●			●				
182P,Q,R,S,T	All	MCS1241-34					●				
		MCS1241-36		●			●				
F182P,Q	All	MCS1241-34					●				
	18260446 and on	MCS1241-36		●			●				
FR182	All	MCS1241-34					●				
R182	All	MCS1241-34					●				
T182, T182T	All	MCS1241-34					●				
	18260446 and on	MCS1241-36		●			●				
TR182	All	MCS1241-34					●				
185, 185A,B,C,D,E	All	MCS1239-25		●							
		MCS1239-25A		●							
		MCS1241-1					●				

Notes:

[1] Partial model eligibility

Part numbers ending in "A" are marked "Cabin Air" on the knob; Part numbers ending in "H" are marked "Cabin Heat" on the knob; Part numbers ending with numbers are unmarked.

Continued on next page

Cabin Environment for Cessna Aircraft continued from previous page

Aircraft	Serial Number	Part Number	Aux Cabin Air	Cabin Air	Cabin Air LH	Cabin Air RH	Cabin Heat	Cabin Vent.	Cold Air	Defrost	Fwd Air
A185E, F	All	MCS1239-46		●							
		MCS1239-46A		●							
		MCS1239-48					●				
		MCS1239-48H					●				
	18501600 thru 18501679	MCS1241-34									
	185-0001 thru 185-1300	MCS1239-25		●							
		MCS1239-25A		●							
		MCS1241-1					●				
	185-1301 thru 185-1599	MCS1241-27									
		MCS1239-31					●				
		MCS1239-31H					●				
		MCS1239-36		●							
		MCS1239-36A		●							
188B	18800986 thru 18801824	MCS1241-34						●			
	18801825 thru 18802348	MCS1241-34	●								
A188B, A188B (w/large hopper)	18800986 thru 18801824T	MCS1241-34						●			
	18801825 thru 18802348T	MCS1241-34	●								
	18802349 thru 18802745T	MCS1241-34	●						●		
	18802746 thru 18803973T	MCS1241-34							●		
T188C	All	MCS1241-34							●		
210-5(205)	205-0001 thru 205-0126	MCS1241-1	●	●		●	●				
	205-0127 and On	MCS1241-1	●	●	●	●	●				
206	All	MCS1241-1	●	●			●				
206H	20600001 thru 20608082	MCS1241-34		●			●				
	20608083 and On	MCS1241-34		●			●			●	
P206, P206A,B	All	MCS1241-1	●	●			●				
P206C,D	All	MCS1241-27	●	●			●				
P206E	U20601445 thru U20601587	MCS1241-34		●			●				
T206H	T20608001 thru T20608146	MCS1241-34		●			●				
	T20608147 and On	MCS1241-34		●			●			●	
TP206A,B	All	MCS1241-1					●				
TP206C	All	MCS1241-27	●	●			●				
TP206D,E	All	MCS1241-27					●				
TU206A	All	MCS1241-1					●				
TU206B	All	MCS1241-1	●	●			●				
TU206C,D	All	MCS1241-27	●	●			●				
TU206E,F [1]	U20601445 thru U20602199	MCS1241-27					●				
TU206F [1]	U20602200 thru U20603521	MCS1241-34		●			●				
TU206G	All	MCS1241-34		●			●			●	
U206	All	MCS1241-1		●			●				
U206A,B	All	MCS1241-1	●	●			●				
U206C,D	All	MCS1241-27	●	●			●				
U206E,F	All	MCS1241-34		●			●				
U206G	All	MCS1241-34		●			●			●	
207, T207	20100001 thru 0700148	MCS1241-27	●	●			●				
	20700149 thru 0700362	MCS1241-34		●			●				
207A, T207A	All	MCS1241-34		●			●			●	
210B	21057841 thru 1057940	MCS1241-1			●		●				
	21057941 thru 1058085	MCS1241-1				●	●				
210C	All	MCS1241-1				●					
210D	All	MCS1241-1			●	●					
210E	All	MCS1241-1	●		●	●	●				
210F	All	MCS1241-1	●				●				
210G	All	MCS1241-1	●	●			●				
210H,J	All	MCS1241-27	●	●			●				
210K,L,M,N,R	All	MCS1241-34		●			●				
P210N,R	All	MCS1241-34									●
T210F	All	MCS1241-1	●				●				
T210G	All	MCS1241-1	●	●			●				
T210H,J	All	MCS1241-27	●	●			●				
T210K,L,M,N,R	All	MCS1241-34		●			●				

Notes:

[1] Partial model eligibility

P/Ns ending in "A" are marked "Cabin Air"; P/Ns ending in "H" are marked "Cabin Heat"; P/Ns ending with numbers are unmarked knobs.

Fuel Shut Off Controls for Cessna 185

- Special, heavier wire for more fatigue strength and reliability
- Improved push-to-unlock mechanism = more holding strength
- High temperature Teflon lined conduit
- Reduced vibration wear and longer life!
- Most knobs match originally equipped knobs



Aircraft	Serial Number	Part Number	Fuel Shut Off	Fuel Valve
185A 1,B	185-0414 thru 185-0653	MCS1241-1		●
185D,E	All	MCS1241-1	●	
A185E	185-0968 thru 185-1300	MCS1241-1	●	
	185-1301 thru 185-1599	MCS1241-27	●	
	18501600 thru 18501679	MCS1241-34	●	

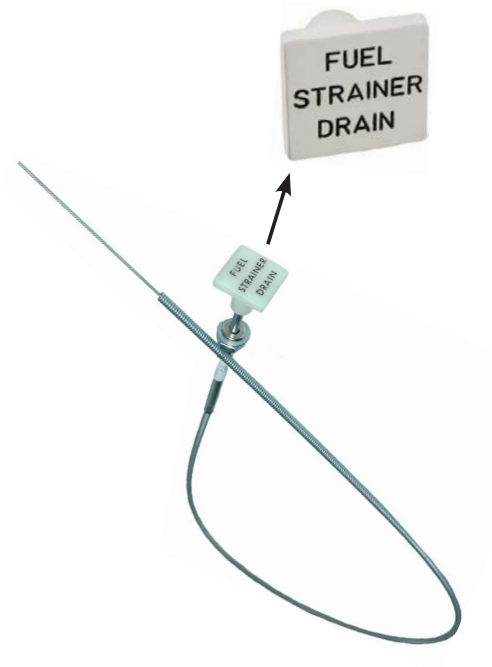
1 Partial model eligibility

Fuel Strainer Drain Cable for Cessna Aircraft

P/N MCS1517 Series

- Stainless steel conduit
- Improved aluminum knob
- Larger wire diameter





*See **Fuel System** section of the catalog for all Fuel Strainer parts and kits available!*

Aircraft Model	Serial Number	Part Number
150E,F,G,H,J,K,L,M	All	MCS1517-7
A150K,L, A-150L, A150M, A-A150L	All	MCS1517-7
F150F, F150G, F150H, F150J, F150K, F150L, F150M	All	MCS1517-7
FA150L 1, FA150M 1	All	MCS1517-7
FRA150L,M	All	MCS1517-7
152, A152, F152, FA152	All	MCS1517-7
172I,K,L,M,N,P,Q,RG	All	MCS1517-7
F172H,K,L,M,N,P	All	MCS1517-7
FR172F,G,H,J,K	All	MCS1517-7
R172F (T-41D), R172G (T-41C,D), R172H (T-41D), R172K	All	MCS1517-7
177, 177A,B	All	MCS1517-7
180H,J,K	All 2	MCS1517-4
180H	18051876 and on	MCS1517-7
180J,K	All 3	MCS1517-7
182L,M,N,P,Q,R, F182P,Q, FR182, R182, T182, TR182	All	MCS1517-7
A185E	18501600 thru 18502090, 185-1301 and on	MCS1517-4 2
		MCS1517-7
A185F	All	MCS1517-4 2
		MCS1517-7 3
188	188-0446 and on	MCS1517-12 6
	All	MCS1517-7 4
188A	All	MCS1517-12 6
		MCS1517-7 4
188B	All	MCS1517-7 4
A188	188-0446 and on	MCS1517-12 6
A188A	All	MCS1517-12 6
A188B 7	18802349 thru 18802745	MCS1517-7 5
	18800833 thru 18803926	MCS1517-12 6
A188B (w/ large hopper)	18800833T thru 18803926T	MCS1517-12 6
T188C	T18803297T thru T18803926T	MCS1517-15 6
P206C,D,E	All	MCS1517-7
TP206C,D,E	All	MCS1517-7
TU206C,D,E,F,G	All	MCS1517-7
U206C,D,E,F,G	All	MCS1517-7
207, 207A	All	MCS1517-7
T207, T207A	All	MCS1517-7
210H,J,K,L,M,N,R	All	MCS1517-7
P210N,R	All	MCS1517-7
T210H,J,K,L,M,N,R	All	MCS1517-7

Notes:

1 When equipped w/ FKA150-2311 and FKA150-2316
2 Floatplane
3 Landplane
4 Used with fueselage fuel tank only
5 Used with fuselage tank and fuselage for small hopper
6 Used with wing tanks
7 Partial model eligibility

Rod Ends for Cessna Aircraft

P/N MCS1104-3
P/N MCS1106-3
P/N MCS1106-4

Rod Ends that fit our McFarlane engine controls are listed within their applicable engine controls eligibility table at the beginning of the **Push-Pull Controls** section. Cessna Caravan 208 and 208B Rod Ends are located in the **Cessna Caravan** section.

All Rod Ends (including flap, aileron, landing gear, and more applications) are listed in the **Hardware** section of the catalog.

Rod End Dimensions		
Part Number	**Bore/Eye**	**Thread**
MCS1104-3	0.19	10-32 Internal
MCS1106-3	0.19	1/4-28 Internal
MCS1106-4	0.25	1/4-28 Internal



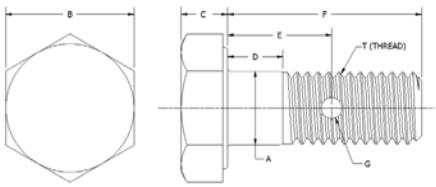
Model	Part Number	Alt Air Control	Cowl Flap		Cowl Flap Control	Inertial Separator Actuator Push Rod	Inertial Separator Control	Mixture Control			Mixture Linkage	Prop Control		Prop Syncro Push Rod	Throttle Control			Throttle Linkage
		MCS1106-3	MCS1106-3	MCS1106-4	MCS1106-3	MCS1106-3	MCS1106-4	MCS1104-3	MCS1106-3	MCS1106-4	MCS1104-3	MCS1104-3	MCS1106-3	MCS1106-3	MCS1104-3	MCS1106-3	MCS1106-4	MCS1104-3
210,210A											•							•
T210R				•														
310,310B		•								•							•	
310C,D,F,G,H,I,J,J-1,K,L,N,P,Q												•						
310R										•		•	•				•	
E310H,J, T310P,Q												•						
T310R										•		•	•				•	
320,320-1,320A,B,C									•			•				•		
320D,E,F												•						
335			•						•			•				•		
336			•					•				•			•			
337			•		•			•				•			•			
337A,B			•		•			•				•			•			
337C			•		•			•				•			•			
337D			•		•			•				•			•			
337E,F,G,H, F337E,F,G,H, FT337E,F, FT337GP (FP337), FT337HP (FP337H)			•					•				•			•			
M337B			•		•			•				•			•			
P337H			•					•				•			•			
T337B,C,D			•		•			•				•			•			
T337E,F,G,H, T337H-SP			•					•				•			•			

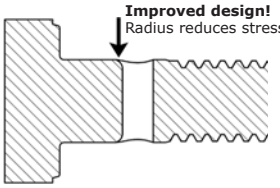
Bolt Style Wire Clamps for Solid Wire Controls for Cessna Aircraft

FAA-PMA Approved

- Unique design to reduce wire stress
- Heat treated stainless steel for wear and corrosion resistance
- The best for less!
- Visit our website to find the correct clamp for all other applications







www.mcfarlaneaviation.com/products/category/wire-clamps-bolt-style

P/N	A Bolt Dia. (in)	B Wrench Size (in)	C Thick (in)	D Grip Length (in)	E Hole Position (in)	F Shank Length (in)	G Hole Dia. (in)	T Thread (~)	Application
MCS2323-1	0.188	3/8	0.125	0.250	0.183	0.653	0.073	10-32	Carb heat, starter, mixture, cabin heat, fuel shutoff, strainer drain, defrost, shutter, wastegate, oxygen control, deice, heater, airbox, alternate air, flap/elevator, pressure air dump, heat exchanger
MCS2323-2	0.250	7/16	0.156	0.312	0.325	0.781	0.073	1/4-28	cabin heat, mixture, defrost
MCS2323-3	0.250	7/16	0.156	0.188	0.199	0.539	0.073	1/4-28	strainer drain, cowl flaps, carb heat, alternate air
MCS2323-4	0.250	7/16	0.156	0.313	0.312	0.781	0.073	1/4-28	mixture, flap indicator, flap guide, fuel shut-off
MCS2323-5	0.188	3/8	0.125	0.125	0.188	0.531	0.073	10-32	cabin air, carb heat, starter, airbox, defrost, flap, shutter, oxygen
MCS2323-6	0.250	7/16	0.156	0.188	0.355	0.656	0.073	1/4-28	mixture, hopper, induction
MCS2323-7	0.188	3/8	0.125	0.250	0.192	0.656	0.076	10-32	fuel shut-off, alternate air, flap elevator trim
MCS2323-8	0.188	3/8	0.125	0.250	0.202	0.656	0.096	10-32	fuel shut-off, oxygen control
MCS2323-9	0.250	7/16	0.156	0.438	0.343	0.906	0.129	1/4-28	flap control, flap guide
MCS2323-10	0.188	3/8	0.125	0.125	0.204	0.477	0.079	10-32	fuel shut-off, heat exchanger
MCS2323-11	0.188	3/8	0.125	0.250	0.266	0.656	0.076	10-32	mixture, bleed air, fuel selector, flap/elevator
MCS2323-12	0.250	7/16	0.156	0.188	0.357	0.656	0.073	1/4-28	mixture, cabin heat, pressurization
MCS2323-13	0.250	7/16	0.156	0.313	0.271	0.781	0.073	1/4-28	mixture, alternate air, bleed air
MCS2323-14	0.188	3/8	0.125	0.125	0.132	0.531	0.082	10-32	cabin heat, cabin air
MCS2323-19	0.188	3/8	0.125	0.125	0.200	0.531	0.094	10-32	defroster

Throttle, Mixture, and Propeller Controls for Piper Aircraft

- All metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit

Carb Heat and Alt Air Controls

Longer life and save $$$

- The most commonly replaced controls just got better
- Special, heavier wire for more fatigue strength and reliability
- Improved friction mechanism
- Reduced vibration wear
- Anti-rotate feature to reduce stress on the inner wire
- High temperature Teflon lined conduit

Vernier-Assist™ Throttle Controls

Precision Control

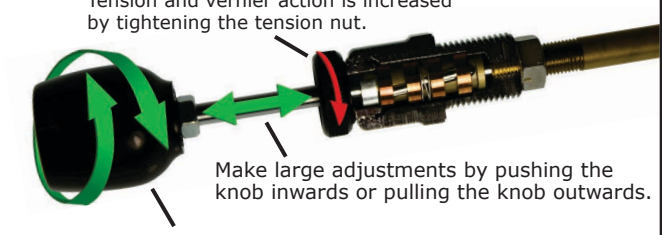
New roller action vernier provides smooth jam-proof coarse and fine adjustment.

- Jam-proof safety
- Precision power adjustments
- Smooth friction control
- Light and compact
- Standard vernier action, without the button!

New MCVA Throttle Series

Vernier and friction lock - The best of both!

Tension and vernier action is increased by tightening the tension nut.



Make large adjustments by pushing the knob inwards or pulling the knob outwards.

Make fine adjustments by rotating the knob clockwise or counterclockwise. Our ***Vernier-Assist™*** throttle control uses a patented roller action and does not use a positive lock thread engagement. For extreme conduit routing or heavy carburetor load installations, slight inward or outward assist pressure could be required during rotation.

Patent No. 8,485,057 B1



New! Controls for Piper Super Cub Aircraft!

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Carb Heat or Alt Air Control
PA-18, PA-18S	All	MC12694-002 9 MC12694-000 10		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"105" (Special)	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"125" (Army L-21A)	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"135" (Army L-21B)	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"150"	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18A, PA-18A"135",A"150"	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18AS"125", AS"135", AS"150"	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18S"105",S"125",S"135"	All	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18S "150"	1809001 thru 1809113	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-18S "150"	18-3771 thru 18-8309025	MC12694-003		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-19, PA19S,L-18C	All			MC600-72	
PA-20, PA-20S	20-01 thru 20-811	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20, PA-20S	20-812 thru 20-1121	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20, PA-20S	20-1122 and On			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"115", PA-20S"115"	20-01 thru 20-1121	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"115", PA-20S"115"	20-1122 and On			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"135", PA-20S"135"	20-877 thru 20-1121	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"135", PA-20S"135"	20-1122 and On			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22	All	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22-108	22-8000 and On	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 1
PA-22-135	22-534 thru 22-2377	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22-135	22-2379 thru 22-2424	MC455-139 or MCVA455-139 11		MC454-120 5 7 or MC600-72 8	MC454-120 2

See notes on next page
Eligibility continued on next page

Eligibility continued from previous page

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Carb Heat or Alt Air Control
PA-22-135	22-2378, 22-2425 thru 22-3217	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22-135	22-3219 thru 22-3386	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22S-135	22-534 thru 22-2377			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22S-135	22-2379 thru 22-2424			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22S-135	22-2378, 22-2425 thru 22-3217	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22S-135	22-3219 thru 22-3386	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22-150, PA-22S-150	22-2378, 22-2425 thru 22-7642	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22-160, PA-22S-160	22-5139, 22-5603 thru 22-7642	MC12693-04 or MCVA12693-04 11		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-24	24-1 thru 24-2969			MC454-120 1 7 or MC600-72 8	
PA-24-250	24-1 thru 24-104			MC454-120 1 7	
PA-24-250	24-105 thru 24-2174 24-2176 thru 24-2298		MC455-184	MC454-120 1 7 or MC600-72 8 Carb Engine Only	
PA-24-250	24-2175, 24-2299 thru 24-2969		MC455-252	MC454-120 1 7 or MC600-72 8 Carb Engine Only	
PA-24-250	24-2970 thru 24-3687		MC455-252	MC600-72 8 Carb Engine Only	
PA-24-260	24-3642, 24-4000 thru 24-4803		MC455-252	MC600-72 Carb Engine Only	
PA-24-260	24-4804 thru 24-5034			MC600-72 Carb Engine Only	
PA-24-400	26-2 thru 26-148			MC22633-04	
PA-28-140	28-20002 thru 28-21095	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-003 4
PA-28-140	28-21096 thru 28-24999	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-016 6
PA-28-140	28-25000 thru 28-25821	MC455-353		MC455-352	MC554-167
PA-28-140	28-25822 thru 28-7425418	MC455-353		MC455-352	MC554-093 1
PA-28-140	28-7425419 thru 28-7725290	MC455-353		MC455-352	MC554-094 1
PA-28-150	28-1 thru 28-2627	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-003 4
PA-28-150	28-2628 thru 28-4377	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-016 6
PA-28-151	All	MC455-350		MC455-352	MC554-093 1
PA-28-160	28-1 thru 28-2627	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-003 4
PA-28-160	28-2628 thru 28-4377	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-016 6
PA-28S-160	28-1 thru 28-1760			MC600-72	MC63902-003 4
PA-28-161	2816001 thru 2816110 (Less 2816066)	MC455-350		MC455-352	MC554-093 1
PA-28-161	2816111 thru 2816119				MC554-093 1
PA-28-161	2841001 thru 2842999	MC455-350		MC455-352	MC554-093 1
PA-28-161	28-7716002 thru 28-8616057	MC455-350		MC455-352	MC554-093 1
PA-28-180	28-671 thru 28-1760	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-003 4
PA-28-180	28-1761 thru 28-2627	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-003 4

1 Knob not included.
2 Knob not included. Order P/N MC471-052.
3 Knob not included. Order P/N MC471-060.
4 Knob P/N MC471-084 included with control.
5 Knob not included. Order P/N MC471-053.
6 Knob P/N MC571-131 included with control.
7 P/N MC454-120 duplicates original control.
8 P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
9 W/Electrical Equipment
10 W/O Electrical Equipment
11 To order ***Vernier-Assist***™ throttle controls change "MC" prefix to "MCVA" prefix.

See page 45 for knobs!

Additional knob eligibility is on the following pages. Rod end part numbers and eligibility is on the following pages.

Eligibility continues on next page

Eligibility continued from previous page

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Carb Heat or Alt Air Control
PA-28-180	28-2628 thru 28-4377	MC12693-04 or MCVA12693-04 11		MC600-72	MC63902-016 6
PA-28-180	28-4378 thru 28-5152	MC455-333		MC455-332	MC66856-007
PA-28-180	28-5153 thru 28-5398	MC455-350		MC455-352	MC66856-007
PA-28-180	28-5399 and On	MC455-350		MC455-352	MC554-095 1
PA-28R-180	28R-30005 thru 28R-30481	MC455-322	MC455-322	MC455-322	
PA-28R-180	28R-30483 thru 28R-31092	MC455-322	MC455-322	MC455-322	
PA-28R-180	28R-31093 thru 28R-31279	MC455-322	MC455-322	MC455-322	MC554-092 1
PA-28R-180	28R-7130001 thru 28R-7130013	MC455-322	MC455-322	MC455-322	MC554-130 1
PA-28R-180	28R-7130014 thru 28R-7130019	MC455-322	MC455-322	MC455-322	
PA-28S-180	28-671 thru 28-2627			MC600-72	MC63902-003 4
PA-28S-180	28-2628 thru 28-4377			MC600-72	MC63902-016 6
PA-28S-180	28-4378 thru 28-5398				MC66856-007
PA-28S-180	28-5399 thru 28-28-7205234				MC554-095 1
PA-28-181	2843001 thru 2843999			MC455-352	MC554-094 1
PA-28-181	2890001 thru 2890205			MC455-352	MC554-095 1
PA-28-181	2890206 thru 2890231			MC455-352	MC554-094 1
PA-28-181	28-7690001 thru 28-8290174	MC455-350		MC455-352	MC554-095 1
PA-28-181	28-8390001 and On	MC455-350		MC455-352	MC554-095 1
PA-28-201T	28-7921001 thru 28-7921095	MC455-322	MC455-322	MC455-361	MC554-387 1
PA-28R-200	28R-30482, 28R-35001 thru 28R-35225	MC455-322	MC455-322	MC455-322	
PA-28R-200	28R-35226 thru 28R-35830	MC455-322	MC455-322	MC455-322	MC554-092 1
PA-28R-200	28R-7135001 thru 28R-7635545	MC455-322	MC455-322	MC455-322	MC554-130 1
PA-28R-201	2837001 thru 2837061	MC455-322	MC455-322	MC455-322	MC554-130 1
PA-28R-201	2844001 thru 2844999				MC554-130 1
PA-28R-201	28R-7737002 thru 28R-7837317	MC455-322	MC455-322	MC455-322	MC554-130 1
PA-28R-201T	28R-7703002 thru 28R-7803372	MC455-322	MC455-322	MC455-361	MC554-387 1
PA-28R-201T	2803001 thru 2803015	MC455-322	MC455-322	MC455-361	MC554-387 1
PA-28RT-201	28R-7918001 thru 28R-8018116	MC455-322	MC455-322	MC455-322	MC554-130 1
PA-28RT-201	28R-8018117 thru 28R-8118000				MC554-130 1
PA-28RT-201	28R-8118001 and On	MC455-322	MC455-322	MC455-322	MC554-130 1
PA-28RT-201T	2831001 thru 2831038				MC554-387 1
PA-28RT-201T	28R-7931001 thru 28R-8031188	MC455-322	MC455-322	MC455-361	MC554-387 1
PA-28RT-201T	28R-8031189 thru 28R-8131000				MC554-387 1
PA-28RT-201T	28R-8131001 and On	MC455-322	MC455-322	MC455-361	MC554-387 1
PA-28-235	28-10003 thru 28-11038	MC12693-04 or MCVA12693-04 11		MC600-72	
PA-28-235	28-11039	MC12693-04 or MCVA12693-04 11			
PA-28-235	28-11040 thru 28-11252	MC455-333		MC455-332	MC66856-007
PA-28-235	28-11253 thru 28-11393	MC455-333		MC455-332	MC554-094 1
PA-28-235	28-7110001 thru 28-7210033	MC455-333		MC455-332	MC554-094 1
PA-28-235	28-7310001 thru 28-7710089	MC455-333	MC455-344	MC455-332	MC554-094 1
PA-28-236	28-11001 thru 2811050				MC554-094 1
PA-28-236	28-7911001 thru 28-8211060	MC455-333	MC455-344	MC455-332	MC554-094 1
PA-28-236	28-8311001 and On	MC455-333	MC455-344	MC455-332	MC554-094 1
PA-32-260	32-451 thru 32-1110				MC63902-021 6
PA-32-260	32-1111 thru 32-1320	MC455-360		MC455-361	MC554-053
PA-32-260	32-7100001 thru 32-7800008	MC455-360		MC455-361	MC554-053
PA-32-300	32-40000 thru 32-40565	MC69530-02 or MC69530-02 11	MC65451-04		

1 Knob not included.
2 Knob not included. Order P/N MC471-052
3 Knob not included. Order P/N MC471-060
4 Knob P/N MC471-084 included with control.
5 Knob not included. Order P/N MC471-053
6 Knob P/N MC571-131 included with control.
7 P/N MC454-120 duplicates original control.
8 P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
9 W/Electrical Equipment
10 W/O Electrical Equipment
11 To order ***Vernier-Assist™*** throttle controls change "MC" prefix to "MCVA" prefix.

See page 45 for knobs!

Additional knob eligibility is on the following pages. Rod end part numbers and eligibility are on the following pages.

Eligibility continues on next page

Eligibility continued from previous page

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Carb Heat or Alt Air Control
PA-32-300	32-41019 thru 32-7140000				MC554-051
PA-32-300	32-40566 thru 32-41018	MC455-358			MC554-051
PA-32-300	32-7140001 thru 32-7940282	MC455-358			MC554-051
PA-32-300	32-7940283 and On				MC554-051
PA-32R-300	All				MC554-051
PA-32RT-300	All				MC554-051
PA-32S-300	32S40566 thru 32S-7240137				MC554-051
PA-32-301	32-8006001 thru 32-8406020	MC455-358			MC554-051
PA-32-301	32-8406021 thru 32-8506000	MC455-358			MC554-051
PA-32-301	32-8506001 and On	MC455-358			MC554-051
PA-32-301FT	All				MC554-051
PA-32-301T	32-8024001 thru 32-8424002	MC455-344		MC455-344	MC553-874
PA-32-301T	32-8524001 and On	MC455-344		MC455-344	
PA-32R-301	3213001 thru 3213103				MC554-051
PA-32R-301	3246001 thru 3246999				MC653-658
PA-32R-301	32R-8013001 thru 32R-8613006				MC554-051
PA-32R-301T	3229001 thru 3229003				MC553-885
PA-32R-301T	3257001 thru 3257999				MC653-658
PA-32R-301T	32R-8029001 thru 32R-8229078	MC455-360		MC455-360	MC553-885
PA-32R-301T	32R-8229079 thru 32R-8329000				MC553-885
PA-32R-301T	32R-8329001 and On	MC455-360		MC455-360	MC553-885
PA-32RT-300T	32R-7787001 thru 32R-7887000				MC554-466
PA-32RT-300T	32R-7887001 thru 32R-7987126	MC455-360		MC455-360	MC554-466
PA-38-112	All				MC554-511 1

1 Knob not included.
2 Knob not included. Order P/N MC471-052
3 Knob not included. Order P/N MC471-060
4 Knob P/N MC471-084 included with control.
5 Knob not included. Order P/N MC471-053
6 Knob P/N MC571-131 included with control.
7 P/N MC454-120 duplicates original control.
8 P/N MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337). May require enlarging the mounting hole to ¾" diameter. Use our Drill Step P/N 44460 (see details on page 53).
9 W/Electrical Equipment
10 W/O Electrical Equipment
11 To order ***Vernier-Assist***™ throttle controls change "MC" prefix to "MCVA" prefix.

See page 45 for knobs!

Additional knob eligibility is on the following pages. Rod end part numbers and eligibility are on the following pages.

Easily remove or install your controls using our wrench tool set! See below.

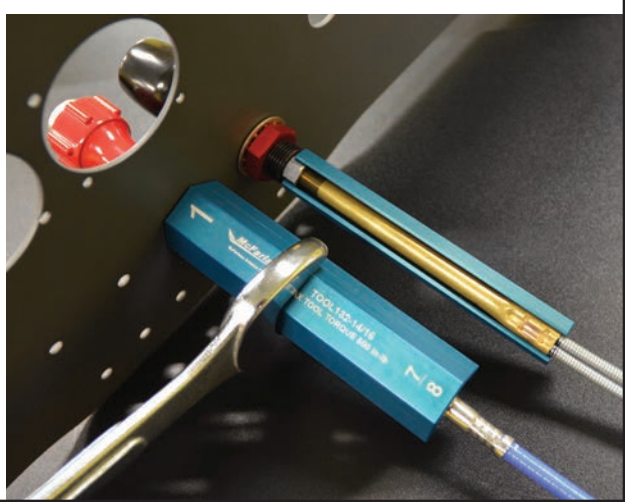
Push-Pull Control Wrench Set

P/N TOOL132 installs and removes push-pull control nuts behind the panel

- Works with all controls — six nut sizes!
- 5 1/2" length reaches hard to access nuts
- Slot allows access to nut on installed control
- Wrench anywhere on the external hex
- Lightweight aluminum is easy to handle when using overhead
- Many other uses (brake/fuel/vent/hydraulic lines, etc.)

Includes case!





Part Number	Description
TOOL132	Contains one of each wrench
TOOL132-8/9	1/2" and 9/16"
TOOL132-11/12	11/16" and 3/4"
TOOL132-14/16	7/8" and 1" wrench

Cabin Environment Controls for Piper Aircraft

Longer life and save up to $200.00

- Special, heavier wire for strength and reliability
- Improved friction mechanism
- Reduced vibration wear
- Anti-rotate feature to reduce stress on the inner wire
- High temperature Teflon lined conduit

Additional knob eligibility shown on the following page!





P/N MC454-120
without knob



P/N MC454-120 with
P/N MC471-052 Knob



P/N MC454-120 with
P/N MC471-060 Knob

Aircraft	Serial Number	Cabin Heat	Cabin Heat Rear	Cold Air Inlet	Defrost Control	Parking Brake
PA-18, PA-18A, PA-18S	All	MC454-120 2				
PA-18 "105" (Special), PA-18S "105" (Special)	All	MC454-120 2				
PA-18 "125" (Army L-21A), PA-18AS "125", PA-18S "125"	All	MC454-120 2				
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-1 thru 18-2167	MC454-120 2				
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-2168 and On	MC454-120 2		MC454-120 2		
PA-18AS "135",	All	MC454-120 1				
PA-18 "150"	All	MC454-120 2				
PA-18A "150", PA-18AS "150"	All	MC454-120 2		MC454-120 2		
PA-18S "150"	1809001 thru 1809113	MC454-120 3		MC454-120 1		
PA-18S "150"	18-3771 thru 18-8309025	MC454-120 2		MC454-120 2 3		
PA-20, PA-20S	20-1 thru 20-553	MC454-120 2				
PA-20, PA-20S	20-554 thru 20-811	MC454-120 2		MC454-120 2		
PA-20, PA-20S	20-812 and On	MC454-120 2	MC454-120 2	MC454-120 2		
PA-20 "115", PA-20S "115"	All	MC454-120 2				
PA-20 "135", PA-20S "135"	20-877, 20-881, 20-885, 20-888	MC454-120 2		MC454-120 2		
PA-20 "135", PA-20S "135"	20-878 thru 20-880	MC454-120 2	MC454-120 2	MC454-120 2		
PA-20 "135", PA-20S "135"	20-882 thru 20-884	MC454-120 2	MC454-120 2	MC454-120 2		
PA-20 "135", PA-20S "135"	20-886 thru 20-887	MC454-120 2	MC454-120 2	MC454-120 2		
PA-20 "135", PA-20S "135"	20-889 and On	MC454-120 2	MC454-120 2	MC454-120 2		
PA-22	All	MC454-120 2	MC454-120 2	MC454-120 2		MC454-120 2
PA-22-108	All	MC454-120 3	MC454-120 3	MC454-120 3		MC454-120 1
PA-22-135	22-534 thru 22-539, 22-543	MC454-120 2		MC454-120 2		MC454-120 2
PA-22-135	22-540 thru 22-542	MC454-120 2	MC454-120 2	MC454-120 2		MC454-120 2
PA-22-135	22-544 thru 22-2377	MC454-120 2	MC454-120 2	MC454-120 2		MC454-120 2
PA-22-135	2378	MC454-120 3	MC454-120 3	MC454-120 3		MC454-120 1
PA-22-135	22-2379 thru 22-2424	MC454-120 2	MC454-120 2	MC454-120 2		MC454-120 2
PA-22-135	22-2425 and On	MC454-120 3	MC454-120 3	MC454-120 3		MC454-120 1
PA-22S-135	22-534 thru 22-2377 and 22-2379 thru 22-2424	MC454-120 2 4	MC454-120 1	MC454-120 2		
PA-22S-135	22-2378, 22-2424 and On	MC454-120 2 4	MC454-120 3	MC454-120 3		
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2378, 22-2425 thru 22-5138	MC454-120 3	MC454-120 3	MC454-120 3		MC454-120 3
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2379 thru 22-2424	MC454-120 2	MC454-120 1	MC454-120 2		MC454-120 2
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5139, 22-5603 and On	MC454-120 3	MC454-120 3	MC454-120 3		MC454-120 1
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5140 thru 22-5602	MC454-120 3	MC454-120 3	MC454-120 3		MC454-120 3
PA-24, PA-24-250	24-1 thru 24-2174	MC454-120 1		MC454-120 1	MC454-120 1	MC454-120 1
PA-24, PA-24-250	24-2176 thru 24-2298			MC454-120 1		MC454-120 1

1 Knob not included.
2 Knob not included. Order P/N MC471-052
3 Knob not included. Order P/N MC471-060
4 Quantity 2 each of the Cabin Heat Control is required for this aircraft.

Easily remove or install your controls using our wrench tool set on the previous page!

Control Knobs for Piper Aircraft

Give your panel an upgrade - replace old discolored knobs!

- "Original" look
- Superior quality
- 10-32 thread



See knobs and continued eligibility on next page

Aircraft	Serial Number	Knob Type	Alternate Air (Chrome)	Cabin Heat (Chrome)	Cabin Heat (Black)	Cabin Heat (Ivory)	Cabin Heat (Rear)	Cabin Heat Rear (Ivory)	Cabin Heat Front (Ivory)	Cabin Vent (Black)	Carb Heat (Black)	Decal, Carb Heat	Carb Heat (Chrome)	Carb Heat (Black)	Carb Heat (Ivory)	Cold Air (Black)	Cold Air Inlet (Chrome)	Cold Air Inlet (Black)	Cold Air Inlet (Ivory)	Defrost (Chrome)	Mixture Control (Red)	Parking Brake (Black)	Parking Brake (Ivory)
		Part Number	MC571-131	MC571-131	MC471-060	MC471-052	MC471-060	MC471-052	MC471-052	MC471-060	MC471-084	6289	MC571-131	MC471-060	MC471-052	MC471-060	MC571-131	MC471-060	MC471-052	MC571-131	MC471-053	MC471-060	MC471-052
PA-18, PA-18A, PA-18S	All					•									•						•		
PA-18 "105" (Special), PA-18S "105"	All					•									•						•		
PA-18 "125" (Army L-21A), PA-18AS "125", PA18S "125"	All					•									•						•		
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-1 thru 18-2167					•									•						•		
PA-18AS "135"	18-1 thru 18-2167														•						•		
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-2168 thru 18-7632					•									•	•			•		•		
PA-18AS "135"	18-2168 thru 18-7632														•	•			•		•		
PA-18A "150", PA-18AS "150"	All					•									•	•			•		•		
PA-18S "150"	1809001 thru 1809113				•									•							•		
PA-18S "150"	18-3771 thru 18-8309025					•									•			•	•		•		
PA-20, PA-20S	20-1 thru 20-553					•									•								
PA-20, PA-20S	20-554 thru 20-811					•									•				•				
PA-20, PA-20S	20-812 and On					•		•							•				•		•		
PA-20 "115", PA-20S "115"	All					•									•						•		
PA-20 "135", PA-20S "135"	All							•	•						•				•		•		
PA-22	All					•		•							•				•		•		•
PA-22-108	All				•		•			•				•		•					•		
PA-22-135	22-534 thru 22-539					•									•				•		•		•
PA-22-135	22-540 thru 22-542					•		•							•				•		•		•
PA-22-135	22-543					•									•				•		•		•
PA-22-135	22-544 thru 22-2377					•		•							•				•		•		•
PA-22-135	22-2378				•		•			•				•				•			•		
PA-22-135	22-2379 thru 22-2424					•		•							•				•		•		•
PA-22-135	22-2425 and On				•		•			•				•				•			•		
PA-22S-135	22-534 thru 22-2377 and 22-2379 thru 22-2424					• [1]									•				•		•		•
PA-22S-135	22-2378, 22-2425 and On				•		•			•				•				•			•		
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2378				•		•			•				•				•			•	•	
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2379 thru 22-2424					• [1]									•				•		•		•
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2425 thru 22-5138				•		•			•				•				•			•	•	
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5139				•		•			•				•				•			•		
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5140 thru 22-5602				•		•			•				•				•			•	•	
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5603 and On				•		•			•				•				•			•		
PA-25-235	All														•								
PA-25-260	All														•								
PA-28-140	28-20002 thru 28-21095										•	•											
PA-28-140	28-21096 thru 28-24999			•									•				•			•			
PA-28-150, PA-28-160	28-0001 thru 28-2627										•	•											
PA-28-150, PA-28-160	28-2628 thru 28-4377			•									•							•			
PA-28S-160	28-1 thru 28-1760										•	•											

[1] Quantity 2 each of knob Cabin Heat (Ivory) is required for these aircraft.

Eligibility continued on next page

Continued from previous page



P/N MC471-052



P/N MC471-053



P/N MC471-060



P/N MC471-084
With P/N 6289 Carb Heat Decal
(Decal sold separately)



P/N MC571-131

Aircraft	Serial Number	Knob Type	Alternate Air (Chrome)	Cabin Heat (Chrome)	Cabin Heat (Black)	Cabin Heat (Ivory)	Cabin Heat (Rear)	Cabin Heat Rear (Ivory)	Cabin Heat Front (Ivory)	Cabin Vent (Black)	Carb Heat (Black)	Decal, Carb Heat	Carb Heat (Chrome)	Carb Heat (Black)	Carb Heat (Ivory)	Cold Air (Black)	Cold Air Inlet (Chrome)	Cold Air Inlet (Black)	Cold Air Inlet (Ivory)	Defrost (Chrome)	Mixture Control (Red)	Parking Brake (Black)	Parking Brake (Ivory)
		Part Number	MC571-131	MC571-131	MC471-060	MC471-052	MC471-060	MC471-052	MC471-052	MC471-060	MC471-084	6289	MC571-131	MC471-060	MC471-052	MC471-060	MC571-131	MC471-060	MC471-052	MC571-131	MC471-053	MC471-060	MC471-052
PA-28-180, PA-28S-180	28-671 thru 28-2627										•	•											
PA-28-180	28-2628 thru 28-4277			•									•							•			
PA-28-180	28-4278 thru 28-4377												•							•			
PA-28S-180	28-671 thru 28-2627										•	•											
PA-28S-180	28-2628 thru 28-4377												•										
PA-28-235	28-10003 thru 28-10675										•	•											
PA-28-235	28-10676 thru 28-11039			•									•							•			
PA-32-260	32-1 thru 32-1110												•										
PA-32-300	32-40000 thru 32-40565		•																				
PA-32-300S	32S-15 thru 32S-40565		•																				

New! Swivel Fittings and Studs (Bug Nuts) for Piper Aircraft

Save $$$ with FAA-PMA Approval!

- Vast eligibility with multiple applications
- Heat-treated stainless steel
- Improved cone for less wire distortion
- Multiple FAA-PMA replacement options: buy only the swivel fitting and stud, or get the swivel assembly!
- The MC70371-00 Swivel Assembly replaces Piper P/Ns 70371-00 or 70371-800.
  This full assembly includes the -002 fitting, the -003 stud, as well as AN320-3 castle shear nut, MS24665-132 cotter pin, and two special sized Piper specific washers.
- Different stud lengths and swivel fitting sizes offered!





Aircraft	Serial Number	Part Number	Location: Aft Hydraulics	Airbox Installation	Baggage Door Assembly	Cabin Door Assembly	Cabin Heat	Cabin Pressure Control	Cabin Vent	Carb Heat and Mix Control	Cowl Flap Control	Engine Control	Fuel Control	Fuselage Press. Air Supply	Hand Brake	Heat and Defrost	Hopper Installation	Turbocharger	Ventilation	Windshield Defroster
J-3	All	MC70371-00											•							
		MC70371-002											•							
		MC70371-003											•							
J3 (Canadian), J3 (Converted TG-8 Glider), J3C-40, J3C-50, J3C-50S, J3C-65 (Army L-4,L-4A,B,H,J, Navy NE-1,2), J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, J3F-65 (Army L-4D), J3F-65S, J3L, J3L-65 (Army L04C), J3L-65S, J3L-S, J3P	All	MC70371-002											•							
		MC70371-003											•							
J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C	All	MC70371-00											•							
		MC70371-002											•							
		MC70371-003											•							
PA-12	All	MC70371-00										•								
		MC91193-00										•								
PA-12S	All	MC91193-00										•								
PA-14	All	MC70371-00					•													
		MC70371-002					•													
		MC70371-003					•			•										
		MC91193-00								•		•								

Eligibility continued on next page

Wire Clamps, Swivel Fittings and Studs (Bug Nuts)

Continued from previous page





Aircraft	Serial Number	Part Number	Location: Aft Hydraulics	Airbox Installation	Baggage Door Assembly	Cabin Door Assembly	Cabin Heat	Cabin Pressure Control	Cabin Vent	Carb Heat and Mix Control	Cowl Flap Control	Engine Control	Fuel Control	Fuselage Press. Air Supply	Hand Brake	Heat and Defrost	Hopper Installation	Turbocharger	Ventilation	Windshield Defroster
PA-15	All	MC70371-003								•										
		MC91193-00											•							
PA-17	All	MC91193-00											•							
PA-18, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150"	All	MC70371-002		•								•								
		MC70371-003		•								•					•			
		MC91193-00										•								
PA-18A, PA-18A "135", PA-18A "150", PA-18AS "125", PA-18AS "135", PA-18AS "150"	All	MC70371-002		•								•					•			
		MC70371-003		•								•					•			
		MC91193-00										•								
PA-18S, PA-18S "105" (Special), PA-18S "125", PA- 18S "135", PA-18S "150"	All	MC70371-002		•								•								
		MC70371-003		•								•					•			
		MC91193-00										•								
PA-19 (Army L-18C), PA-19S	All	MC70371-002		•								•								
		MC70371-003		•								•					•			
		MC91193-00										•								
PA-20, PA-20 "115", PA-20 "135", PA-20S, PA-20S "115", PA-20S "135"	All	MC70371-00										•								
		MC91193-00										•								
PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-22S-135, PA-22S-150, PA-22S-160	All	MC70371-00										•								
		MC70371-002										•								
		MC70371-003										•								
		MC91193-00										•								
PA-23, PA-23-160	All	MC70371-00							•							•				
		MC91193-00			•	•						•								
PA-23-235, PA-23-250 (Navy UO-1), PA-E23-250	All	MC70371-00														•				
	27-0001 thru 27-2222	MC91193-00			•	•														
	27-2223 thru 27-7954089				•	•							•							
PA-24, PA-24-250, PA-24-260, PA-24-400	All	MC70371-00					•													
		MC70371-002					•					•				•		•		
		MC70371-003					•					•				•		•		
		MC91193-00					•					•								
PA-28-140, PA-28-150, PA-28-160, PA-28-180	All	MC70371-00					•													
		MC70371-002					•		•			•								
		MC70371-003					•		•			•								
		MC91193-00					•					•								
PA-28-151	All	MC70371-002					•		•											
		MC70371-003					•													
		MC70371-005										•								
		MC70371-006										•								
PA-28-161	All	MC70371-002					•		•											
	2816001 thru 2816119	MC70371-003					•													
		MC70371-005										•								
		MC70371-006										•								
	2841001 thru 2842999	MC70371-003					•		•											
		MC70371-005										•								
		MC70371-006										•								
	28-7716001 thru 28-8616057	MC70371-003					•													
		MC70371-005										•								
		MC70371-006										•								
PA-28-181	2843001 thru 2843999	MC70371-002					•					•								
		MC70371-003					•					•								

Eligibility continued on next page

Wire Clamps, Swivel Fittings and Studs (Bug Nuts)

Continued from previous page





Aircraft	Serial Number	Part Number	Location: Aft Hydraulics	Airbox Installation	Baggage Door Assembly	Cabin Door Assembly	Cabin Heat	Cabin Pressure Control	Cabin Vent	Carb Heat and Mix Control	Cowl Flap Control	Engine Control	Fuel Control	Fuselage Press. Air Supply	Hand Brake	Heat and Defrost	Hopper Installation	Turbocharger	Ventilation	Windshield Defroster
PA-28-181	2890001 thru 2890231, 28-7690001 thru 28-8690062	MC70371-002					•					•							•	
		MC70371-003					•					•							•	
PA-28R-180, PA-28R-200, PA-28S-160, PA-28S-180	All	MC70371-00					•													
		MC70371-002					•		•			•								
		MC70371-003					•		•			•								
		MC91193-00					•					•								
PA-28-201T	All	MC70371-002										•				•			•	
		MC70371-003										•				•			•	
PA-28R-201, PA28R-201T, PA-28RT-201, PA-28RT-201T	All	MC70371-002										•							•	
		MC70371-003										•				•			•	
		MC91193-00										•				•				
PA-28-235	All	MC70371-00					•													
		MC70371-002					•		•			•								
		MC70371-003					•		•			•								
		MC91193-00					•					•								
PA-28-236	All	MC70371-002					•												•	
		MC70371-003					•												•	
PA-30	All	MC70371-002														•			•	
		MC70371-003										•				•			•	
PA-31, PA-31-300, PA-31-325	All	MC70371-00											•							
		MC70371-002							•			•			•	•			•	
		MC70371-003										•				•			•	
	31-2 thru 31-4	MC91193-00									•	•								
	31-5 thru 31-7912023										•	•	•							
	31-7912024 thru 31-8312019										•	•								
PA-31-350	All	MC70371-002							•			•			•	•			•	
		MC70371-003										•				•			•	
	31-5001 thru 31-7305016	MC91193-00									•	•								
	31-7305017 thru 553002										•									
PA-31P	All	MC70371-00												•						
		MC70371-002													•					•
		MC70371-003						•												•
		MC70371-005											•							
	31P-1 thru 31P-2	MC91193-00											•							
	31P-3 thru 31P-7730003							•												
	31P-7730004 thru 31P-7730012												•							
PA-31P-350	All	MC70371-00												•						
		MC91193-00									•									
PA-31T	All	MC70371-00												•						
		MC70371-002							•						•					•
		MC70371-003						•	•											•
	31T-7400002 thru 31T-7720069	MC91193-00						•												
PA-31T1, PA-31T2	All	MC70371-00												•						
		MC70371-002							•						•					•
		MC70371-003						•	•											•
PA-32-260	All	MC70371-002					•					•			•					
		MC70371-003					•					•			•					
		MC91193-00										•								
PA-32-300	All	MC70371-002					•					•			•					
		MC70371-003					•					•			•					
PA-32-301, PA-32-301T	All	MC70371-002					•		•			•								
		MC70371-003					•		•			•								
PA-32-301FT, PA-32-301XTC	All	MC70371-002					•		•			•								
		MC70371-003					•		•			•								

Eligibility continued on next page

Wire Clamps, Swivel Fittings and Studs (Bug Nuts)

Continued from previous page





Aircraft	Serial Number	Part Number	Location																	
			Aft Hydraulics	Airbox Installation	Baggage Door Assembly	Cabin Door Assembly	Cabin Heat	Cabin Pressure Control	Cabin Vent	Carb Heat and Mix Control	Cowl Flap Control	Engine Control	Fuel Control	Fuselage Press. Air Supply	Hand Brake	Heat and Defrost	Hopper Installation	TTurbocharger	Ventilation	Windshield Defroster
PA-32R-300	All	MC70371-002					●					●			●					
		MC70371-003					●					●			●					
PA-32R-301, PA-32R-301T	All	MC70371-002					●		●			●								
		MC70371-003					●		●			●								
PA-32RT-300, PA-32RT-300T	All	MC70371-002					●		●			●								
		MC70371-003					●		●			●								
PA-32S-300	All	MC70371-002					●					●			●					
		MC70371-003					●					●			●					
PA-34-200	All	MC70371-002					●		●							●				
		MC70371-003					●		●											
PA-34-200T	All	MC70371-002							●							●				
		MC70371-003							●							●				
PA-34-220T	All	MC70371-002							●						●	●				
		MC70371-003							●						●	●				
PA-36-285, PA-36-300, PA-36-375	All	MC70371-002																	●	
		MC70371-003																	●	
PA-38-112	All	MC70371-002					●					●								
		MC70371-003					●					●								
PA-39	All	MC70371-002														●			●	
		MC70371-003										●				●			●	
PA-42, PA-42-1000	All	MC70371-002							●						●					
		MC70371-003							●											
PA-42-720, PA-42-720R	All	MC70371-002							●						●					
		MC70371-003							●											
PA-44-180	All	MC70371-002													●	●			●	
		MC70371-003													●	●				
PA-46-310P	All	MC70371-002	●				●					●			●					
		MC70371-003	●				●					●			●					
		MC70371-005										●								
		MC70371-006										●								
PA-46-350P (w/G1000)	All	MC70371-002							●						●					
		MC70371-003							●						●					
		MC70371-005										●								
		MC70371-006										●								
PA-46-350P (w/o G1000)	4622001 thru 4622200	MC70371-002	●				●					●			●					
		MC70371-003	●				●					●			●					
		MC70371-005										●								
		MC70371-006										●								
	4636001 thru 4636999	MC70371-002							●						●					
		MC70371-003							●						●					
		MC70371-005										●								
		MC70371-006										●								
PA-46-500TP (w/G1000)	All	MC70371-002							●						●					
		MC70371-003							●						●					
PA-46-500TP (w/o G1000)	All	MC70371-002							●						●					
		MC70371-003							●						●					
PA-46R-350T (w/G1000)	All	MC70371-002							●						●					
		MC70371-003							●						●					
		MC70371-005										●								
		MC70371-006										●								
PA-46R-350T (w/o G1000)	All	MC70371-002							●						●					
		MC70371-003							●						●					
		MC70371-005										●								
		MC70371-006										●								

Throttle, Propeller and Mixture Controls for Beechcraft Bonanza Aircraft

- All metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit
- Includes ICA with improved inspection procedures



Vernier-Assist™ Throttle Controls

Precision Control

New roller action vernier provides smooth jam-proof coarse and fine adjustment

- Jam-proof safety
- Precision power adjustments
- Smooth friction control
- Light and compact
- Standard vernier action, without the button!



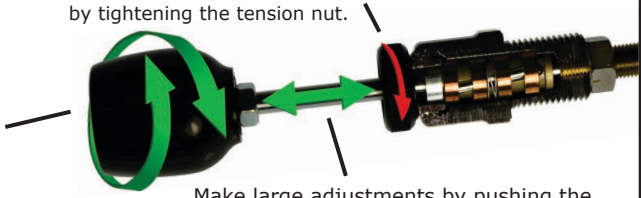
Fine adjustments are made by rotating the knob clockwise or counterclockwise. The McFarlane ***Vernier-Assist***™ throttle control uses a patented roller action and does not use a positive lock thread engagement. For extreme conduit routing or heavy carburetor load installations, slight inward or outward assist pressure could be required during rotation.

Copy of ICA, clamps, and seals provided with each control!

New MCVA Throttle Series

Vernier and friction lock - The best of both!

Tension and vernier action is increased by tightening the tension nut.



Make large adjustments by pushing the knob inwards or pulling the knob outwards.

Patent No. 8,485,057 B1

Model	Serial Number	Throttle	Propeller	Mixture
19A, M19A, B19,23, A23-19, B23	All	N/A	N/A	MC600-120
35-C33	CD-964 thru CD-1118	MC35-944046-7 1	MC35-944048-7	N/A
35-C33A	All	MC35-944046-7 1	MC35-944048-7	MC35-944054-7
E33	All	MC35-944046-7 1	MC35-944048-7	N/A
E33A, E33C, F33, F33A, F33C, G33	All	MC35-944046-7 1	MC35-944048-7	MC35-944054-7
35, A35, B35, C35, D35, E35, F35, G35	All	N/A	N/A	MC600-72
H35	All	N/A	N/A	MC35-944054-9
J35, K35, M35	All	N/A	MC35-944048-1	MC35-944054-9
N35	All	N/A	MC35-944048-1	
P35,S35, V35, V35A, V35A-TC	All	MC35-944046-7 1	MC35-944048-1	MC35-944054-7
V35B, V35B-TC	All	MC35-944046-7 1	MC35-944048-7	MC35-944054-7
V35TC	All	MC35-944046-7 1	MC35-944048-1	MC35-944054-7
36, A36	E-1 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110	MC35-944046-7 1	MC35-944048-7	MC35-944054-7
	E-1946, E-2104, E-2111 and on	MC36-380084-3	MC36-380084-7	MC36-380084-5
A36TC, B36TC	EA-1 thru EA-319, EA-321 thru 388	MC35-944046-7 1	MC35-944048-7	MC35-944054-9
	EA-320, EA-389 thru EA-439	MC36-380084-3	MC36-380084-7	N/A
G36	All	MC36-380084-3	MC36-380084-7	MC36-380084-5

Notes:

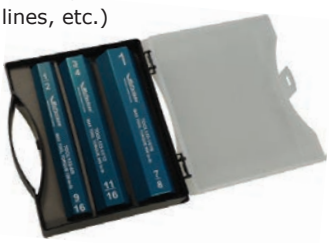
1 To order ***Vernier-Assist***™ throttle controls change "MC" prefix to "MCVA" prefix.

Push-Pull Control Wrench Set

P/N TOOL132

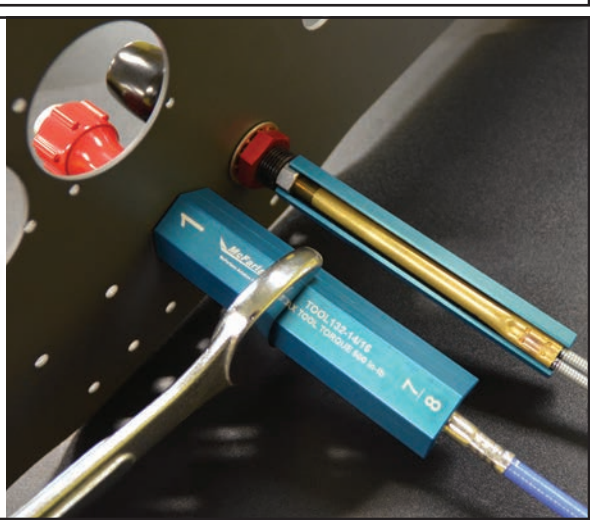
Installs and removes push-pull control nuts behind the panel

- Works with all controls — six nut sizes!
- 5 1/2" length reaches hard to access nuts
- Slot allows access to nut on installed control
- Wrench anywhere on the external hex
- Lightweight aluminum is easy to handle when using overhead
- Many other uses (brake/fuel/vent/hydraulic lines, etc.)



Includes case!

Part Number	Description
TOOL132	Contains one of each wrench
TOOL132-8/9	1/2" and 9/16"
TOOL132-11/12	11/16" and 3/4"
TOOL132-14/16	7/8" and 1" wrench



Throttle, Propeller and Mixture Controls for Beechcraft Baron Aircraft

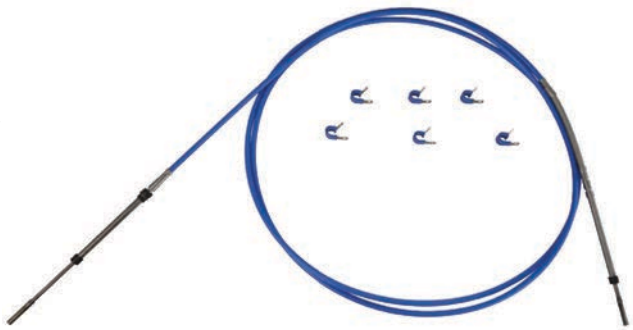
Now offering approved controls for your Baron!

All of our Baron engine controls feature McFarlane's time proven control design, which is *preferred by pilots around the world*.

- Low-friction Teflon™ lined conduit
- Vibration dampened
- Built to outlast original controls
- Tested to -50° F
- Save $$$ without compromising quality or safety
- All controls include mounting clamps and ICA documents for a seamless installation



Most dependable and durable in the industry!



P/N MC50-389012-29



Aircraft	S/N	Throttle		Propeller		Mixture	
		LH	RH	LH	RH	LH	RH
58 [1] 58A [2]	TH-1 thru TH-1388	MC50-389012-23	MC50-389012-29	MC50-389010-33 [1] MC50-389012-23 [2]	MC50-389010-23	MC50-389012-29	MC50-389012-23
	TH-1389	MC102-389010-47	MC102-389010-47	MC102-389010-47	MC102-389010-49	MC102-389010-47	MC102-389010-47
	TH-1390 thru TH-1395	MC50-389012-23	MC50-389012-29	MC50-389010-33 [1] MC50-389012-23 [2]	MC50-389010-23	MC50-389012-29	MC50-389012-23
	TH-1396	MC102-389010-47	MC102-389010-47	MC102-389010-47	MC102-389010-49	MC102-389010-47	MC102-389010-47
	TH-1630	MC102-389010-47	N/A	N/A	N/A	N/A	MC102-389010-47
95-B55, 95-B55A	TC-1608 thru TC-2456	MC50-389012-15	MC50-389012-15	MC50-389010-29	MC50-389010-27	MC50-389010-19	MC50-389010-21
E55, E55A	All	N/A	MC50-389012-19	MC50-389010-23	N/A	MC50-389012-19	MC50-389012-25
56TC	TG-2 thru TG-83	N/A	N/A	MC50-389010-25	N/A	MC50-389012-21	MC50-389012-21
A56TC	TG-84 thru TG-94	N/A	N/A	MC50-389010-25	N/A	MC50-389012-25	MC50-389012-25
95-C55, 95-A55	TC-350, TC-380 thru TC-501	MC50-389012-15	MC50-389012-15	MC50-389010-29	MC50-389010-27	MC50-389010-19	MC50-389010-21
D55,E55	TE-452 thru TE-627, TE-638 thru TE-937, TE-939 thru TE-942	MC50-389012-19	MC50-389012-19	MC50-389010-23	MC50-389010-25	MC50-389012-19	MC50-389012-25
95-55, 95-B55, 95-B55A	All	MC50-389012-15	MC50-389012-15	MC50-389010-29	MC50-389010-27	MC50-389010-19	MC50-389010-21
95-C55, 95-C55A	TE-1 thru TE-451 (except TE-50)	MC50-389012-19	MC50-389012-19	MC50-389010-23	MC50-389010-25	MC50-389012-19	MC50-389012-25
	TC-350	MC50-389012-15	MC50-389012-15	MC50-389010-29	MC50-389010-27	MC50-389010-19	MC50-389010-21
D55A	TE-452 thru TE-627, TE-638 thru TE-767	MC50-389012-19	MC50-389012-19	MC50-389010-23	MC50-389010-25	MC50-389012-19	MC50-389012-25
E55A	TE-768 thru TE-942 (except TE-938)	MC50-389012-19	MC50-389012-19	MC50-389010-23	MC50-389010-25	MC50-389012-19	MC50-389012-25
58P	TJ-136 thru TJ-443 (except TJ-436)	N/A	N/A	N/A	MC102-389010-47	MC102-389010-13	MC102-389010-13
	TJ-3 thru TJ-135				MC102-389010-47	MC50-389012-19	MC50-389012-19
58TC	TK-90	N/A	N/A	N/A		MC50-389012-19	MC50-389012-19
	TK-91 thru TK-146				MC102-389010-47	MC102-389010-13	MC102-389010-13
	TK-148 thru TK-150					MC102-389010-13	MC102-389010-13
G58	All	MC102-389010-47	MC102-389010-47	MC102-389010-47	MC102-389010-49	MC102-389010-47	MC102-389010-47

Notes:

[1] Model 58 S/N 1388, 1390-1395, Prop LH is P/N MC50-389010-33.

[2] Model 58A S/N 1388, 1390-1395, Prop LH is P/N MC50-389012-23.

Throttle, Propeller, and Mixture Controls for Mooney Aircraft

- Solid Metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit
- Controls featuring cutout for Microswitch comes with McFarlane FAA approved Dust Boot and ICA for control debris protection

Vernier-Assist™ Throttle Controls

Precision control

- Jam-proof safety
- Precision power adjustments
- Smooth friction control
- Light and compact
- Standard vernier action, without the button!
- Microswitch Dust Boot and ICA included with microswitch cutout controls

Ram Air Controls

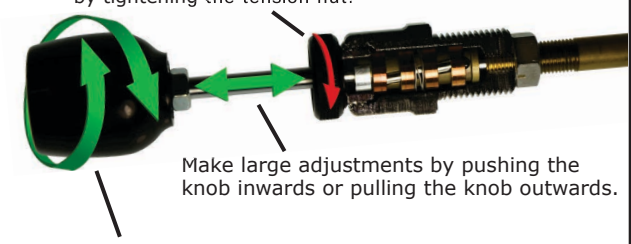
FAA-PMA approved!

- High temperature Teflon lined conduit
- Push-pull design
- Direct cable connection between control knob and ram air flaps
- Comes with McFarlane FAA approved Microswitch Dust Boot and ICA for control debris protection

New MCVA Throttle Series

Vernier and friction lock - The best of both!

Tension and vernier action is increased by tightening the tension nut.



Make large adjustments by pushing the knob inwards or pulling the knob outwards.

Make fine adjustments by rotating the knob clockwise or counterclockwise. Our ***Vernier-Assist™*** throttle control uses a patented roller action and does not use a positive lock thread engagement. For extreme conduit routing or heavy carburetor load installations, slight inward or outward assist pressure could be required during rotation.

Patent No. 8,485,057 B1

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Ram Air
M20C	20-0001 thru 20-0009	MC660166-009 1	MC660166-003 1	N/A	N/A
	20-0011 thru 20-0046	MC660166-009 1	MC660166-003 1		
	20-0047 thru 20-1258	MC660166-009 1	N/A		
	2807 thru 670149	MC660190-003 2 4 6	N/A		
	680001 thru 680198	N/A	MC660166-003 1		
			MC660189-005 3		
	690001 thru 690098	MC660166-009 1	N/A		
	700001 thru 700091	MC660166-009 1	MC660166-003 1		
M20D	252 thru 260	MC660190-003 2 4 6	N/A	N/A	N/A
M20E	21-0001 thru 21-0037	MC660166-007 1	MC660166-003 1	MC660166-005 1	MC640257-017 5 6
	21-0039 thru 21-0060	MC660166-007 1	MC660166-003 1	MC660166-005 1	MC640257-017 5 6
	21-0061 thru 21-1180	MC660166-007 1	N/A	MC660166-005 1	MC640257-017 5 6
	470 thru 1308	MC660190-005 2 4 6	MC660189-005 3	MC660189-003 3	N/A
	690001 thru 700061	MC660166-007 1	MC660166-003 1	MC660166-005 1	MC640257-017 5 6
M20F	22-0001 thru 22-0078	MC660166-007 1	MC660166-003 1	MC660166-005 1	MC640257-017 5 6
	22-0078 thru 22-1439	MC660166-007 1	N/A	MC660166-005 1	MC640257-017 5 6
	660002 thru 660004	MC660190-005 2 4 6	MC660189-005 3	MC660189-003 3	N/A
	670001 thru 670539	MC660190-005 2 4 6	MC660189-005 3	MC660189-003 3	
	680001 thru 680206	MC660190-005 2 4 6	MC660189-005 3	MC660189-003 3	MC640257-017 5 6
	690001 thru 690092	MC660166-007 1	N/A	MC660166-005 1	MC640257-017 5 6
	700001 thru 700072	MC660166-007 1	MC660166-003 1	MC660166-005 1	MC640257-017 5 6
M20G	680001 thru 680164	MC660190-003 2 4 6	MC660189-005 3	N/A	N/A
	690001 thru 690020	N/A	MC660166-003 1		
	700001 thru 700006	MC660166-009 1	MC660166-003 1		
M20J	24-0002 thru 24-0037	MC660166-007 1	MC660166-003 1	MC660166-005 1	MC640257-017 5 6
	24-0378 thru 24-3431	MC660226-001 2 4 6	MC660226-003 3	MC660226-005 3	N/A
M20K	25-0001 thru 25-0841	MC660226-007 2 4 6	MC660226-009 3	MC660226-011 3	N/A
	25-0842 thru 25-0999	MC660226-013 2 4 6			
	25-1000 thru 25-1066	MC660226-015 2 4 6			
	25-1067 thru 25-2032	MC660226-017 2 4			
M20M	27-0001 thru 27-0355	MC660226-019 2 4 6	MC660226-023 3	MC660226-025 3	N/A
M20R, M20S, M20N	29-0001 thru 29-0525, 30-0001 thru 30-0065, 31-0001 thru 31-143	MC660226-027 2 4 6	MC660226-023 3	MC660226-005 3	N/A
M20U, M20V	32-0001 and on, 33-0001 and on	MC660226-027 2 4 6	MC660226-029 3	MC660226-005 3	N/A

Notes:

1 Quadrant control style
2 Friction Lock control style
3 Vernier control style
4 To order ***Vernier-Assist™*** throttle controls change "MC" prefix to "MCVA" prefix.
5 Push-Pull control style
6 Contains Microswitch cut out, comes with Microswitch Dust Boot and ICA

Solid Wire Vernier Mixture Control for Beechcraft, Mooney, Maule, and Stinson Aircraft



- FAA-PMA approved, high quality McFarlane manufacture
- Precise mixture control for less than the original replacement part
- Extra long — trim to exact length

Make	Model	S/N	P/N
Raytheon(Beech)	19A, M19A, B19,23, A23-19, B23	All	MC600-120
Raytheon(Beech)	35, A35, B35, C35, D35, E35, F35, G35, H35	All	MC600-72
Mooney	M20, M20A, M20B, M20C, M20D	All	MC600-72
Maule	Bee Dee M-4, M4, M-4C, M-4S, M-4T	All[1]	MC600-72
Maule	M-4-220, M-4-220-C, M-4-220S	All[1]	MC600-72
Maule	M-4-220T, M-4-180C, M-4-180S, M-4-180T	All[1]	MC600-72
Maule	M-5-180C, M-5-220T, M-5-235C	All[1]	MC600-72
Maule	M-5-210TC, M-6-180, M-6-235, MX-7-160	All[1]	MC600-72
Maule	MXT-7-160, MX-7-180, MX-7-180A	All[1]	MC600-72
Maule	MXT-7-180, MXT-7-180A, MX-7-180B	All[1]	MC600-72
Maule	MX-7-180C, M-7-235, MX-7-235	All[1]	MC600-72
Maule	MX-7-235A, MX-7-235B, MX-7-235C, M-8-235	All[1]	MC600-72
Univair(Stinson)	108, 108-1, 108-2, 108-3, 108-5	All	MC600-72

[1] With a carbureted engine

Drill Step

P/N 44460

Easily enlarge the mounting hole on your instrument panel for your MC600 series control!

- Enlarges holes to ¾" diameter to fit MC600 series controls
- TIN coated



Don't forget your clamps and bolts!

We have FAA-PMA on Piper, Cessna, Beechcraft, and more

Throttle Controls for Grumman Aircraft

FAA-PMA approved

- Longer conduit terminal to allow extra clearance between the swivel joint and the air filter box at the clamp location
- Thread length has been tailored to allow full adjustment of the Grumman swivel assembly
- Push rod length has been tailored to ensure that McFarlane throttle controls duplicate the original controls in fit and function

Model	Serial Number	Part Number
AA-1	AA1-0433 and on	MC507005-1 [1]
AA-1A	AA1A-0001 and on	MC507005-1 [1]
AA-1B	AA1B-0001 and on	MC507005-1 [1]
AA-1C	AA1B-0601	MC507005-1 [1]
AA-1C	AA1C-0001 and on	MC507005-1 [1]
AA-5	AA5-0001 and on	MC507005-2 [1]
AA-5A	AA5A-0283 and on	MC507005-2 [1]
AA-5B	AA5B-0001 and on	MC507005-3

[1] To order ***Vernier-Assist***™ throttle controls change "MC" prefix to "MCVA" prefix

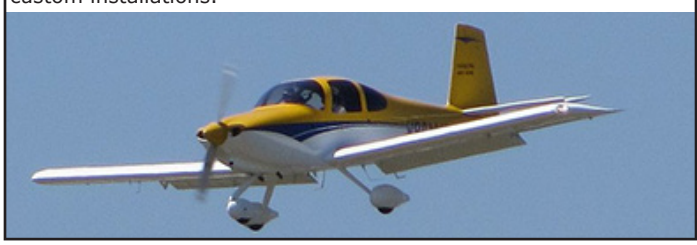


Engine Controls for Van's RV Series Aircraft

- Quick delivery, no long lead times
- High quality and affordable
- Lifetime lubrication
- Non certified, designed for listed aircraft models only
- See page 369 for APS brake discs and linings

Model	Throttle	Vernier-Assist Throttle	Mixture	Propeller
RV-10	MCRV10-T	MCRV10-TV	MCRV10-M	MCRV10-P
RV-12		MCRV12-TV		

Controls designed to work with Van's firewall forward kit. Call for custom installations.



Engine Controls for Bellanca Viking Aircraft

FAA-PMA approved

Model	Serial Number	Throttle	Propeller	Mixture
17-30A	30263 and on, and aircraft with S/N prefix "75-"	MCS191783-18 [1]	MCS191783-1	MCS191783-16
17-31A	73-32-128 and on, and aircraft with S/N prefix "75-"	MCS191783-18 [1]	MCS191783-1	MCS191783-17
17-31ATC	73-31067 and on, and aircraft with S/N prefix "75-"	MCS191783-18 [1]	MCS191783-1	MCS191783-17

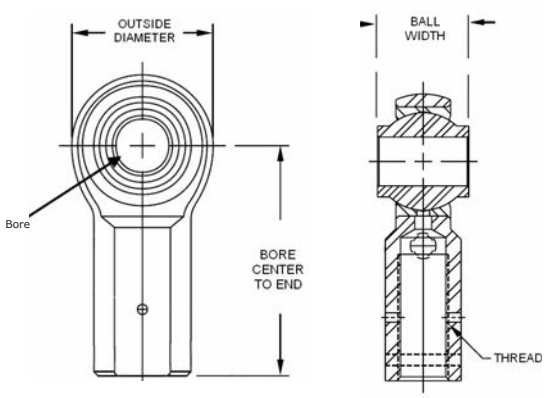
[1] To order ***Vernier-Assist***™ throttle controls change "MC" prefix to "MCVA" prefix.

Rod Ends for Experimental Aircraft

Not for use on certified aircraft.
Not FAA-PMA approved.
We have FAA-PMA approved Rod Ends for Cessna, Piper, and Beech aircraft.

Manufactured by Aurora Bearing

P/N	Bore (in)	O.D. (in)	Bore Center to End (in)	Ball Width (in)	Thread (in)	Thread Type	Ultimate Static Load (lbs)
MW-3M-500	0.190	0.625	1.062	0.312	10-32	Internal	1,531
GMW-3M-470	0.190	0.750	1.375	0.437	1/4-28	Internal	2,881
GMW-4M-470	0.250	0.812	1.375	0.437	1/4-28	Internal	2,950
MM-3M-500	0.190	0.625	1.250	0.312	10-32	External	1,169



Universal Light-Weight Controls

- For use in non-certified aircraft applications such as carb heat, cabin heat, cabin air, and defrost
- Keyed shaft prevents rotation and maintains knob alignment
- High quality brass and aluminum construction
- Teflon lined conduit for smooth, consistent control
  (low-quality controls with poly liners will not tolerate engine temperatures)
- Many knob styles available or provide your own knob with 10-32 thread
  -Knobs are not included with the control, see pages 60-62 for knob choices
- Available in 4,6,8,10 and 12 ft and custom lengths - Wire end - Easily trimmed to length
  -Measured from panel fitting to end of conduit, wires extend at least 3" beyond conduit
- Available with optional creep resistant feature to prevent creep due to engine vibration



Standard Control: *P/N MCU124-**LLL** (**LLL** = length in inches)*
Control with creep resistant feature: *P/N MCU224-**LLL** (**LLL** = length in inches)*

Specifications:
- Travel (stroke): 3.75” maximum*
- Conduit: 0.188 inch OD Teflon lined
- Max Work Loads: Pull: ~10 lbs; Push: ~5 lbs**
- Operating Temp: -65 to 450°F
- Inner Wire: 0.061 inch solid wire
- Screw thread for knob attachment: 10-32 X .3
- Screw thread for instrument panel: 3/8-24 X .5



*Installer must ensure maximum travel is not exceeded during installation and rigging of the control.
*Maximum push load with 3-1/2” of wire extending from the conduit. Push loads depend on wire diameter, length of wire not supported by conduit, geometry of the rigging and the actuator configuration.

Turn-to-Lock Controls

Perfect for homebuilt or custom projects!
These versatile controls are ideal for many applications. They feature a turn-to-lock mechanism that requires a quarter turn of the knob to lock or unlock the control.



- Quality stainless steel construction
- High temperature Teflon lined conduit for smooth, consistent control
  (low-quality controls with poly liners will not tolerate engine temperatures)
- Wire end - may be trimmed to length
- Not for use on certified aircraft, flight controls or flight control trim tabs

Dual twisted wire ends: *P/N MCTL1014D**LLL**-**K** (**LLL** = length in inches, **K** = Knob style)*
- 1/16” diameter 7X7 stainless steel
- ~ 30 lbs minimum locking force
- Includes two adjustable barrel stops to attach to Rotax choke arms
- Available in 4, 6, 8 and 12 ft lengths

Dual solid wire ends: *P/N MCTL2254D072-**K** (**K** = Knob style)*
- 0.071” diameter music wire
- ~ 55 lbs minimum locking force
- 6 foot length

Single twisted wire end: *P/N MCTL1034-072-**K** (**K** = Knob style)*
- 1/16” diameter 1X7 stainless steel
- ~ 30 lbs minimum locking force
- 6 foot length

Single solid wire end: *P/N MCTL2254-072-**K** (**K** = Knob style)*
- 0.071” diameter music wire
- ~ 55 lbs minimum locking force
- 6 foot length

Call us with your custom requirements!
Custom Department: 866-920-2741 ext. 289

Specifications:
- Travel (stroke): 4.0” maximum
- Conduit (dual wire controls): 0.188 in OD Teflon lined
- Conduit (single wire controls): 0.25 in OD Teflon lined, Teflon jacket
- Max Work Loads: Pull: ~25 lbs; Push: ~10 lbs*
- Operating Temp: -65 to 450°F (knob/housing assembly: -65 to 250°F)
- Panel Fitting: 1/2-20 UNF thread

* Push loads apply to controls with solid wire only and depend on wire diameter, length of wire not supported by conduit, geometry of wire rigging, and the actuator configuration.



MCTL1014D MCTL2254D series | **MCTL1034 MCTL2254 series**

Knob Style Suffix (-K)	Knob Style
-B	Ball
-F	Fluted
-P	4-Prong
-T	Shortened T-Handle
-FA	Fluted, engraved "Airbox Lock"
-FH	Fluted, engraved "Cabin Heat Lock"
-FL	Fluted, engraved "Lock"
-PL	4-Prong, engraved "Lock"
-TC	T-Handle, engraved "Choke Lock"
-TL	T-Handle, engraved "Lock"
	No knob

Push-to-Unlock Controls

Perfect for homebuilt or custom projects!

- Quality stainless steel construction with bright powder coated aluminum knobs
- High temperature Teflon lined conduit for smooth, consistent control (low-quality controls with poly liners will not tolerate engine temperatures)
- Heavy duty strength and long life
- Not for use on certified aircraft, flight controls or flight control trim tabs

Custom laser marking of the knobs is available!

Call for details.



Clean and Durable!

Round knob with solid wire end (MC6150 series):
Order P/N MC6150-071**XXLLL** where **XX** is the knob color code and **LLL** is the length in inches

- Red, black, blue, clear (silver), or Chrome plated bronze (designed to match vintage controls)
- Available in 4, 6, 8, 10, 12 foot, and custom lengths
- May be trimmed to length

Square knob with solid wire end (MC6160 series):
Order P/N MC6160-071**XXLLL** where **XX** is the knob color code and **LLL** is the length in inches

- Square black knob with a black or clear (silver) push-button
- Available in 6, 8, 12 foot, and custom lengths
- May be trimmed to length
- Ideal for carburetor heat or alternate air

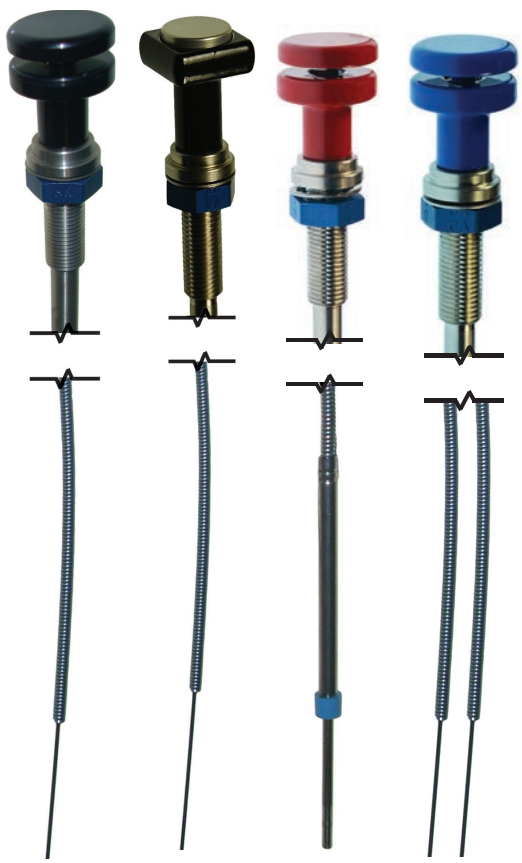
Round knob with 10-32 threaded push rod end (MC6250 series):
Order P/N MC6250-**XXLLL** where **XX** is the knob color code and **LLL** is the length in inches

- Red, black, blue and clear (silver)
- Available in 4, 5, 6, 7, 8, 9, 10 foot, and custom lengths

Round knob with dual solid wire ends (MC6350 series):
Order P/N MC6350-**XXLLL** where **XX** is the knob color code and **LLL** is the length in inches

- Red, black, blue and clear (silver)
- Available in 4, 6, 8, 12 foot, and custom lengths
- May be trimmed to length

Knob Color Codes	
Code	**Description**
BB	Black powder coated aluminum
RR	Red powder coated aluminum
LL	Blue powder coated aluminum
CC	Clear (Silver) anodized aluminum
CB	Black powder coated aluminum with Clear (Silver) push button
HH	Chrome plated brass knob



Vintage Chrome also available!



Specifications:

- Travel (stroke): 3” minimum
- Conduit (dual wire): 0.188 inch OD, .071 inch ID (Inner Wire) Teflon lined wound conduit
- Conduit (single wire): 0.24 inch OD, .071 inch ID (Inner Wire) Teflon lined wound conduit with a Teflon jacket
- Max Work Loads: Pull: ~25 lbs; Push: ~10 lbs*
- Min Locking Force (measured at the knob): 15 lbs tensile, 10 lbs compression
- Operating Temp: -65° to 450° F (knob/housing assembly: -65° to 250° F)
- Panel Fitting: 7/16-20 thread

*Max push load for solid wire end designs is dependent on wire diameter, length of trimmed wire (unsupported by conduit), geometry of wire rigging, and the actuator configuration.

Vernier-Assist™ Throttle Controls

Precision Control

- Jam-proof safety
- Precision power adjustments
- Smooth friction control
- Light and compact
- Standard vernier action, but without the button!

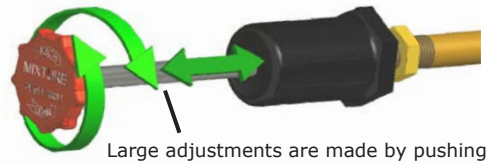


Vernier-Assist™

Patent No. 8,485,057 B1

MCMV Mixture Series

Vernier action with only a 3/8" panel hole!

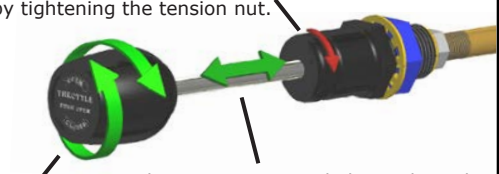


Large adjustments are made by pushing the knob inwards or pulling the knob outwards.

MCVA Throttle Series

Vernier and friction lock - The best of both!

Tension and vernier action is increased by tightening the tension nut.



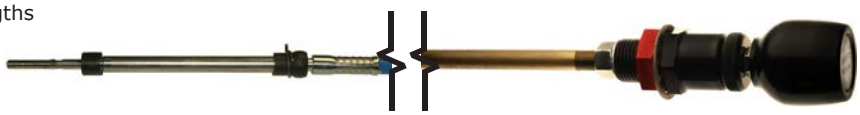
Large adjustments are made by pushing the knob inwards or pulling the knob outwards.

Make fine adjustments by rotating the knob clockwise or counterclockwise. Our ***Vernier-Assist***™ controls use a patented roller action and do not use a positive lock thread engagement. For extreme conduit routing or heavy carburetor load installations, slight inward or outward assist pressure could be required during rotation.

Throttle Control with 10-32 threaded end and 3.5" travel:

P/N *MCTV1035-**LLL*** with knob or *MCVA1035-20-**LLL*** without knob [1] *(**LLL** = length in inches)*

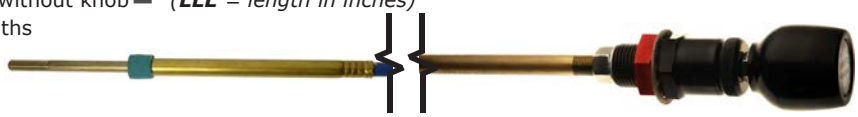
- Available in 3, 4, 5, 6, 7, 8 foot, and custom lengths
- Vernier and friction lock
- Requires a 3 3/4" panel hole



Throttle Control with 1/4-28 threaded end and 3.5" travel:

P/N *MCTV2035-**LLL*** with knob or *MCVA2035-20-**LLL*** without knob [1] *(**LLL** = length in inches)*

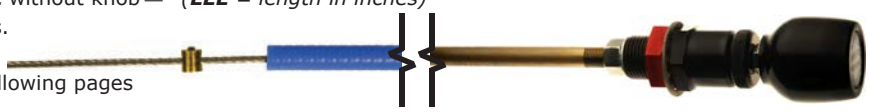
- Available in 3, 4, 5, 6, 7, 8 foot, and custom lengths
- Vernier and friction lock
- Requires a 3/4" panel hole



Throttle Control with 5/64" diameter 1X7 twisted stainless wire end and 3.5" travel:

P/N *MCTV3035-**LLL*** with knob or *MCVA3035-20-**LLL*** without knob [1] *(**LLL** = length in inches)*

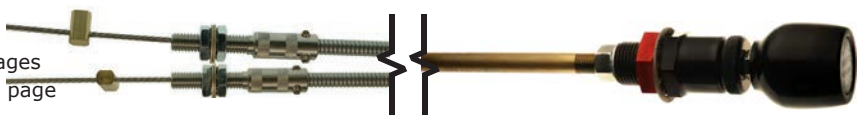
- Available in 4, 6, 8, 12 foot, and custom lengths.
- Vernier and friction lock
- Includes P/N 6515 Barrel Stop Assembly, see following pages
- Requires a 3/4" panel hole



Dual Throttle Control with 1/16" diameter 1X7 twisted stainless wire ends and 3.5" travel:

P/N *MCTV0005D**LLL*** with knob or *MCVA0005-30D**LLL*** without knob [1] *(**LLL** = length in inches)*

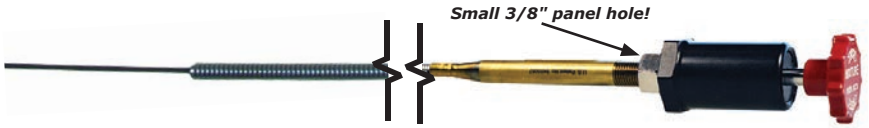
- Available in 4, 6, 8, 12 foot, and custom lengths
- Vernier and friction lock
- Includes P/N 6408 Hardware Kit, see following pages
- Perfect for Rotax 912/914 engines! See following page
- Requires a 3/4" panel hole



Mixture Control with 0.061" diameter solid wire end and 3.5" travel:

P/N *MCMV0241-**LLL*** with knob or *MCVA0241-03-**LLL*** without knob [1] *(**LLL** = length in inches)*

- Available in 4, 6, and 10 foot lengths
- May be trimmed to length
- Compact behind the dash
- Requires a 3/8" panel hole
- Not recommended for use as a throttle control



Alternate knobs available

- All controls below are offered with or without a knob
- As a propeller control use knob P/N 6730
- See pages 59-62 for complete list of 1/4-20 thread knobs





Vernier Assist Roller Pin P/N 6518
Now sold in six packs!

[1] Requires a knob with 1/4-20 thread. See pages 59-62 for available knob options.

Controls for Dual Carburetor 912/914 Series Rotax Engines

Allows a neat, clean installation without a clunky splitter box

- Quality metal construction
- High temperature Teflon lined conduit for smooth consistent control (Cheapy controls with poly liners will not tolerate engine temperatures)
- Available in 4, 6, 8 and 12 foot, and custom lengths - Easily trimmed to length
- Manufactured to the same quality standards as McFarlane's FAA-PMA parts
- Not for use on certified aircraft, or for flight controls or flight control trim tabs



Throttle Controls for 912/914 Series Rotax Engines

- Includes throttle hardware kit P/N 6408 with lightweight throttle return springs (P/N 6822 and 7235) to prevent throttle creep *(see page 58)*
- Inner Wire: Heavy duty 0.062 inch diameter, flexible 1/16 1X7 stainless steel twisted wire
- Conduit: 0.188 inch OD Teflon lined for smooth consistent control
- Design work load: 10 lbs (pull only)
- Operating temp: -65 to 450°F

P/N 6408
Dual hardware throttle kit



Panel Mount: *P/N MCT100D**LLL** (**LLL** = length in inches. Add a "-B" for a ball knob)*

- Super smooth friction lock
- Travel (stroke): 3.75" max
- Typical locking force: 1 to 10 lbs (locking force dependent on friction lock engagement)
- Panel fitting: 1/2-20 UNF thread
- Control length is measured from panel fitting to end of conduit, wires extend 6 inches beyond conduit
- Two knob options (ball or standard barrel shape)



P/N EC03
Standard style knob



P/N EC53
Ball style knob



***Vernier-Assist*™ Panel Mount:**
*P/N MCTV0005D**LLL*** with knob or *MCVA0005-30D**LLL*** without knob[1] *(**LLL** = length in inches)*

- Travel (stroke): 3.5" max
- Typical locking force: 1 to 10 lbs (locking force dependent on friction lock engagement)
- Panel fitting: 3/4-16 UNF X 0.875 inch thread
- Control length is measured from panel fitting to end of conduit, wires extend 6 inches beyond conduit
- See page 56 for additional details



Vernier option without button! See page 5



Quadrant Style: *P/N MCQ100D**LLL** (**LLL** = length in inches)*

- Includes convenient dual conduit clamp P/N 6433-1 for simple quadrant mounting
- Viton boot to dampen vibration and seal out dust on the quadrant end
- Travel (stroke): 4" max
- Pushrod thread (quadrant end): 10-32 UNF X 0.65 inch thread
- Control length equals the conduit length, wires extend a minimum of 6 inches beyond the conduit





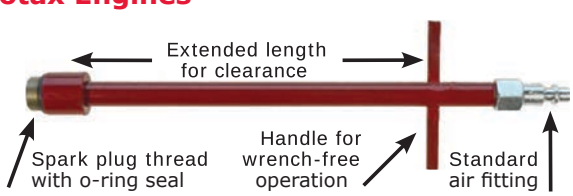
P/N 6433-1
Dual Conduit Clamp

[1] Requires a knob with 1/4-20 thread. See page 59-62 for available knob options.

Compression Tester Extension for Rotax Engines

P/N EXTENSION CT12 (12mm thread)

- Wrench-free compression testing
- Allows for exhaust system and baffling clearance
- Makes compression testing easier

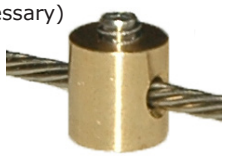




Manufactured by Baines Specialites LLC

Choke Controls for 912/914 Series Rotax Engines

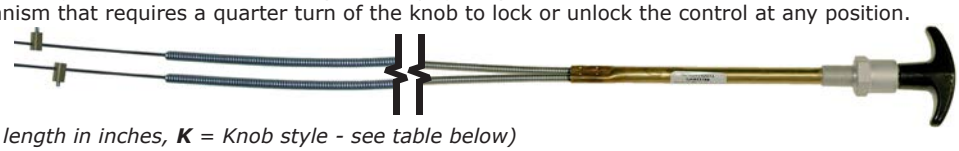
- Includes two adjustable barrel stops P/N 6515 to attach to the carb choke arms (no swaging or soldering necessary)
- Inner Wire: Heavy duty 0.062 inch diameter, flexible 1/16 7X7 stainless steel twisted wire
- Conduit: 0.188 inch OD Teflon lined for smooth consistent control
- Design work load: 25 lbs (pull only)
- Operating temp: -65 to 450°F (knob housing assembly: -65 to 250°F)
- Control length is measured from panel fitting to end of conduit, wires extend 6 inches beyond conduit



P/N 6515
Barrel Stop

Turn-to-Lock: *P/N MCTL1014D**LLL**-**K** (**LLL** = length in inches, **K** = Knob style - see page 54)*
These controls feature a turn-to-lock mechanism that requires a quarter turn of the knob to lock or unlock the control at any position.

- Travel (stroke): 4.0" max
- Minimum locking force ~30 lbs
- Panel fitting: 1/2-20 UNF thread



Non-Locking: *P/N MCC101D**LLL**-**K** (**LLL** = length in inches, **K** = Knob style - see table below)*
Internal elastomer seal to dampen vibration and provide a small amount of resistance. If your choke installation features a return spring, this control will return to the closed position when released.

- Travel (stroke): 3.5" max
- Panel fitting: 7/16-20 X 1.3" UNF thread



Knob Style Suffix (-K)	Knob Style
-RB	Round, Black
-RC	Round, Clear (silver)
-RL	Round, Blue
-RR	Round, Red
-RBC	Round, Black, engraved with "Choke"
-RCC	Round, Clear (silver), engraved with "Choke"
-RLC	Round, Blue, engraved with "Choke"
-RRC	Round, Red, engraved with "Choke"



Many knob styles available!

Throttle Return Springs

Stop throttle creep! Kit P/N 7140
A common complaint about the Rotax 912/914 engines is that the throttle return springs are too strong. We stock a variety of springs so you can choose the one that best fits your application. All of our Throttle Controls for Rotax engines contain P/N 7140. A new design limits potential contact with adjacent parts. Individual springs can also be purchased, see table. *For use on non-certified aircraft.*



Spring P/N	Relaxed Spring Length (max in)	Approx. Pre Load (lbf)	Spring Rate (lbf/in)
6822, Red, Left	1.6	1.5	2.1-2.7
7235, Blue, Right	1.6	1.5	2.1-2.7
Rotax Original	1.8 (approx.)	2.0	8-12 (approx.)

Throttle Hardware Kit for Rotax Engines

Dual Throttle Hardware Kit P/N 6408
Parts also available separately. For use on non-certified aircraft.

Slip Fit Conduit Terminal P/N 6271

- M6x1 x 1.00 inch thread for easy adjustment
- Three installation options — (1) Free Fitting: Slip on the conduit, (2) Semi-Permanent: Secure to conduit with provided set screws, (3) Permanent: Epoxy to conduit with set screws

Adjustable cable stops P/N 6270
Prevents damage to the carburetor from excessive pilot force at the idle-cutoff position. If needed, install cable stop assembly on control wire(s). Locate stop so that when carburetor is at full idle, the cable stop is against part number 6271 conduit terminal.

Alternate Carburetor Arm Return Spring P/N 6822 (Red, Left) and 7235 (Blue, Right)

- Less than half the strength of the original stock Rotax springs
- Prevents throttle "creep" due to excessive return spring force
- Requires 1 per carburetor (2 per engine)
- Installer must determine whether this spring is appropriate for their application.



Kit contains:
2 each 6271 Slip Fit Conduit Terminal Assemblies, 2 each 6270 Adjustable Cable Stop Assemblies
1 each 6822 (Red, Left) and 7235 (Blue, Right) Spring, 1 each Hex Wrench

Slip Fit Conduit Terminals

P/N 6271 (for 0.188" diameter conduit)
P/N 7002 (for 0.258" diameter conduit)
M6x1 x 1.00 inch thread for easy adjustment



Three installation options:
(1) Free Fitting: Slip on the conduit
(2) Semi-Permanent: Secure to conduit with provided set screws
(3) Permanent: Epoxy to conduit with set screws

Conduit Terminal P/N 6424

May be used as a slip fit conduit terminal, or swaged, or epoxied onto the conduit. Fits 0.188" diameter conduit. OD is 0.25"

- 2 per control
- Stainless Steel



Barrel Stop Assembly P/N 6515

- Attach to the carburetor choke arm
- No swaging or soldering necessary
- Accepts 1/16" wire



MCTL1014D series Turn-to-Lock Choke Controls,
MCC101D series Non-Locking Choke Controls.

Conduit Clamps

Standard (AN742 Series)
MIL-SPEC standard clamps.

Extra Grip (6317 Series)
Similar to standard AN742 clamps, but include a detent groove for better grip on coiled wire conduit.

Cushioned CJ Type MIL-Spec (MS21919WCJ Series)
Adel clamps for high temp application. *(See page 138)*


AN742 Series


6317 Series


MS21919 Series

Part Number	Material	Approx. Conduit Diameter
6317-3	Steel	3/16"
6317-4	Steel	1/4"
6317D3	Aluminum	3/16"
6317D4	Aluminum	1/4"
AN742-3	Steel	3/16"
AN742-4	Steel	1/4"
AN742D3	Aluminum	3/16"
AN742D4	Aluminum	1/4"

McFarlane recommends using steel clamps near the engine or exhaust instead of aluminum clamps.

Replacement Knobs for McFarlane Controls

Photos on the following pages

Parts used on FAA-PMA approved controls are FAA-PMA approved. All other parts are non FAA-PMA approved.

Knobs:

P/N	Fig	Description	Thread	Color	Marking	Use Eligibility
1536A-B	1	T-Handle	10-32	Black		MCU series controls
1536A-C	2	T-Handle	10-32	Clear		MCU series controls
1536A-GN	3	T-Handle	10-32	Green		MCU series controls
1536A-L	4	T-Handle	10-32	Blue		MCU series controls
1536A-R	5	T-Handle	10-32	Red		MCU series controls
1536A-W	6	T-Handle	10-32	White		MCU series controls
1536A-Y	7	T-Handle	10-32	Yellow		MCU series controls
1536B-B	8	T-Handle	1/4-20	Black		MCTL series controls
1536B-C	9	T-Handle	1/4-20	Clear		MCTL series controls
1536B-GN	10	T-Handle	1/4-20	Green		MCTL series controls
1536B-L	11	T-Handle	1/4-20	Blue		MCTL series controls
1536B-R	12	T-Handle	1/4-20	Red		MCTL series controls
1536B-W	13	T-Handle	1/4-20	White		MCTL series controls
1536B-Y	14	T-Handle	1/4-20	Yellow		MCTL series controls
6277B [1]	15	Round powder coated aluminum	10-32	Black		MCC101D and MCU series controls
6277C [1]	16	Round anodized aluminum	10-32	Clear (silver)		MCC101D and MCU series controls
6277L [1]	17	Round powder coated aluminum	10-32	Blue		MCC101D and MCU series controls
6277R [1]	18	Round powder coated aluminum	10-32	Red		MCC101D and MCU series controls
6307-BK	19	Round powder coated aluminum	10-32	Black		MCU series controls
6307-RD	20	Round powder coated aluminum	10-32	Red		MCU series controls
6417	21	T-Handle	1/4-20	Black		MCTL series controls
6418	22	T-Handle	1/4-20	Black	"Lock" w/arrows	MCTL series controls
6427	23	4 Prong	1/4-20	Black		MCTL series controls
6428	24	4 Prong	1/4-20	Black	"Lock" w/arrows	MCTL series controls
6429	25	Fluted	1/4-20	Black		MCTL series controls
6430	26	Fluted	1/4-20	Black	"Lock" w/arrows	MCTL series controls
6432	27	Shortened T-Handle	1-4-20	Black		MCTL series controls
6489B [1]	28	Square powder coated aluminum	10-32	Black		MCU series controls
6489C [1]	29	Square anodized aluminum	10-32	Clear (silver)		MCU series controls
6489L [1]	30	Square powder coated aluminum	10-32	Blue		MCU series controls
6489R [1]	31	Square powder coated aluminum	10-32	Red		MCU series controls
6495-01B	32	Phenolic	10-32	Black		MCU series controls
6495-02B	33	Phenolic	10-32	Black		MCU series controls
6495-03B	34	Phenolic	10-32	Black		MCU series controls
6495-04B	35	Phenolic	10-32	Black		MCU series controls
6495-04R		Phenolic	10-32	Red		MCU series controls
6512B	36	Triangle powder coated aluminum	10-32	Black		MCU series controls
6512C	37	Triangle anodized aluminum	10-32	Clear (silver)		MCU series controls
6512L	38	Triangle powder coated aluminum	10-32	Blue		MCU series controls
6512R	39	Triangle powder coated aluminum	10-32	Red		MCU series controls
6570	40	Vernier-Assist Mixture	1/4-20	Red		Vernier-Assist Mixture series controls
6620	41	Vernier-Assist Throttle	1/4-20	Black		Vernier-Assist Throttle series controls
6660	42	T-Handle	1/4-20	Black	Choke Lock	MCTL series controls
6661	43	Fluted	1/4-20	Black	Cabin Heat Lock	MCTL series controls

[1] See Knob Options table below for Color and Marking Codes

Replacement Knobs continued on the next page

Replacement Knobs continued

Photos on the following pages

Parts used on FAA-PMA approved controls are FAA-PMA approved. All other parts are non FAA-PMA approved.

Knobs:

P/N	Fig	Description	Thread	Color	Marking	Use Eligibility
6662	44	Fluted	1/4-20	Black	Airbox Lock	MCTL series controls
6730	45	Vernier-Assist Propeller	1/4-20	Blue		Vernier-Assist series controls
EC03	46	Black Knob	1/4-20	Black		Throttle controls
EC53	47	Black Ball Knob	1/4-20	Black		P/N MC12693-04 or MC455-139, MCT100D, MCTL and MCC101D series controls
EC125-1	48	2” Hemisphere	1/4-20	Black		
MC471-052	49	Round, Phenolic	10-32	Ivory		Piper Cabin Environment and Carb Heat Controls
MC471-053	50	Round, Phenolic	10-32	Red		Piper Mixture Controls
MC471-060	51	Round, Phenolic	10-32	Black		Piper Cabin Environment Controls
MC471-084	52	Round, Phenolic	10-32	Black		Piper Carb Heat Controls
MC571-131	53	Round, Phenolic	10-32	Clear (Silver)		Piper Cabin Environment and Carb Heat Controls
Knob Adapter	54	Adapts the McFarlane throttle control to the early hemisphere style knobs. Inner thread size is 1/4-20. Outer thread size is 1/4-28.				

1 See Knob Options table below for Color and Marking Codes

Knob Jam Nuts and Lock Washers	
Part Number	**Description**
EC33	1/4-20 Jam Nut
Use Eligibility: MCTL Series Throttle Controls using 1/4-20 threaded fittings (except P/Ns MC12693-04 & MC455-139)	
MS35650-304	10-32 Jam Nut
Use Eligibility: MCC101D series controls	
MS35333-40	1/4” Steel Lock Washer
Use Eligibility: MCTL and MCC101D Series Controls	
Decals	
6289	Carb Heat Decal
Use Eligibility: Piper Carb Heat Controls	



Custom engraved knobs are available
for a small additional fee. Call for details.



Knob Options
Marking Code
A - CABIN AIR only on 6277 series knobs (PULL ON)
B - CARB HEAT only on 6489 series knobs (PULL ON)
C - CHOKE use on 6277 series knobs
D - DEFROST only on 6277 series knobs (PULL ON)
H - CABIN HEAT only on 6277 series knobs (PULL ON)
P - PARK BRAKE only on 6277 series knobs (PULL ON)

Knob Options
Color Code
B - Black
C - Clear (Silver)
GN - Green
L - Blue
R - Red
W - White
Y - Yellow



Custom Engine Controls

Duplicate your existing control or completely customize a new assembly!

Custom length, thread size and pitch, wear sleeve location, diameter, and travel length



Perfect for homebuilt or experimental aircraft

Replacement Parts for McFarlane Controls

Photos on the following pages

Parts used on FAA-PMA approved controls are FAA-PMA approved. All other parts are non FAA-PMA approved.
Boots: Fuel, oil and temperature resistant, keeps trash out of the control and dampens vibration.

P/N	Fig	Description	Use Eligibility
235	62	3/16" Pushrod Boot	Controls with a 3/16" pushrod
272	63	1/4" Pushrod Boot	Controls with a 1/4" pushrod
EC04	64	Swivel Boot	Controls employing a swivel joint
Retaining Nuts and Lock Washers: The retaining nut threads onto the threaded section of the control on the back side of the instrument panel to secure the control.			
P/N	**Fig**	**Description**	**Use Eligibility**
6060-8	65	1/2-20 Retaining Nut	Throttle controls using 1/2-20 threaded fittings
EC111	66	1/2" Lock Washer	Throttle controls using 1/2" threaded fittings
MS35333-44	67	Same as EC111	
6060-12	68	3/4-16 Retaining Nut	Throttle controls using 3/4-16 threaded fittings
EC112	69	3/4" Lock Washer	Throttle controls using 3/4" threaded fittings
MS35333-47	70	Same as EC112	
6196	71	3/8-24 Jam Nut	Cessna carb heat controls
6197	72	3/8" Lock Washer	Cessna carb heat controls
6133	73	7/16-20 Retaining Nut	Throttle controls using 7/16-20 threaded fittings
6260	74	7/16-20 Retaining Nut, Modified	MC6350 Dual Push-to-Unlock controls
EC38	75	7/16" Lock Washer	
EC61	76	3/8" Lock Washer	P/N MC12693-04 or MC455-139
EC62	77	3/8-24 Retaining Nut	P/N MC12693-04 or MC455-139
EC65	78	Throttle Spacer Bushing	P/N MC12693-04 or MC455-139
EC119	79	3/4-16 Retaining Nut Extended Nut	McFarlane vernier controls using 3/4-16 threaded fittings
Threaded Wear Sleeve Nuts and Lock Washers: Threaded wear sleeves are used on many McFarlane controls to secure the control to the firewall and/or mounting brackets.			
P/N	**Fig**	**Description**	**Use Eligibility**
EC38	80	7/16" Lock Washer	MC565-548 series controls
EC70	81	12M x 1.25 Jam Nut	MC565 series controls
EC72	82	12mm Lock Washer	MC565 series controls
Spring			
P/N	**Fig**	**Description**	**Use Eligibility**
6822	83	Spring, Throttle, Red	Alternate carburetor arm return spring for dual carburetor 912/914 series Rotax engines. Less than half the strength of the original stock Rotax springs. Prevents throttle "creep" due to excessive return spring force. Requires 1 per carburetor (2 per engine). See page 58.
7235	107	Spring, Throttle, Blue	
7140	108	Spring, Throttle Kit (one red and one blue)	
Adjustable Friction Lock Service Kits			
P/N	**Fig**	**Description**	**Use Eligibility**
EC12SK	84	Friction Packing Service Kit	Throttle controls using a 1/2" friction nut
EC312SK	85	Friction Packing Service Kit	Throttle controls using a 9/16" friction nut
Miscellaneous			
P/N	**Fig**	**Description**	**Use Eligibility**
6135	86	1/8 " Ball Bearing, sold in 5 packs	Replaces the ball bearing used in the locking mechanism for the MC6150, MC6250 and MC6350 series Push-to-Unlock controls.
6270	87	Cable Stop Assembly	Rotax Engines
6271	88	Conduit Terminal Assembly, Slip Fit	Rotax Engines
6290-06-12K	89	Panel Hole Reducer 0.375 X 0.75	Includes a flat washer. Not for use on certified aircraft.
6290-08-12K	90	Panel Hole Reducer 0.50 X 0.75	Includes a flat washer. Not for use on certified aircraft.
6408	91	Dual Throttle Hardware Kit	Rotax Engines
6409	92	Allen Wrench	MCTL series controls
6415	93	Panel Bolt, Turn-to-Lock	MCTL series controls
6416	94	Pin, Turn-to-Lock	MCTL series controls
6420	95	Ferrule, Turn-to-Lock, Brass	MCTL series controls
6423	96	Ferrule, Turn-to-Lock, Nylon	MCTL series controls
6424	97	Conduit Terminal	Rotax Choke Controls
6433-1	98	Conduit Clamp	MCQ100 series controls
6515	99	Barrel Stop Assembly	MCC101D and MCTL series controls
6518	100	Vernier Assist Roller Pin	Vernier Assist series controls
6797	101	Control Clip Plate	Typically used on quadrant style controls
7002	102	Slip Fit Terminal	Rotax Engines
EC02	103	1/2" Friction Adjust Wheel	Throttle controls using a 1/2" friction adjust wheel
EC89	104	Wedge Washer	One used on each side of the instrument panel to angle a control (approx 6.5°) to avoid interference behind the panel. 9/16" ID, sold in pairs. Included with Cessna 170 aircraft throttle control.
EC98	105	9/16" Friction Adjust Wheel	Throttle controls using a 9/16" friction adjust wheel
M83248/1-006	106	O-ring	MCC101D series controls

See photos on next page!

1  1536A-B	2  1536A-C	3  1536A-GN	4  1536A-L	5  1536A-R	6  1536A-W	7  1536A-Y	8  1536B-B	9  1536B-C
10  1536B-GN	11  1536B-L	12  1536B-R	13  1536B-W	14  1536B-Y	15  6277B	16  6277C	17  6277L	18  6277R
19  6307-BK	20  6307-RD	21  6417	22  6418	23  6427	24  6428	25  6429	26  6430	27  6432
28  6489B	29  6489C	30  6489L	31  6489R	32  6495-01B	33  6495-02B	34  6495-03B	35  6495-04B	36  6512B
37  6512C	38  6512L	39  6512R	40  6570	41 6620	42 6660	43 6661	44 6662	45 6730
46 EC03	47 EC53	48 EC125-1	49 MC471-052	50 MC471-053	51 MC471-060	52 MC471-084	53 MC571-131	54 KNOB ADAPTER
55 6277BP	56 6277BC	57 6277LP	58 6489RB	59 6489CB	60 6378	61 474-084 with 6289 Decal	62 235	63 272
64 EC04	65 6060-8	66 EC111	67 MS35333-44	68 6060-12	69 EC112	70 MS35333-47	71 6196	72 6197
73 6133	74 6260	75 EC38	76 EC61	77 EC62	78 EC65	79 EC119	80 EC38	81 P/N EC70
82 EC72	83 6822	84 EC12SK	85 EC312SK	86 6135	87 6270	88 6271	89 6290-06-12K	90 6290-08-12K
91 6408	92 6409	93 6415	94 6416	95 6420	96 6423	97 6424	98 6433-1	99 6515
100 6518	101 6797	102 7002	103 EC02	104 EC89	105 EC98	106 M83248/1-006	107 7235	108 7140

Your Source for Tempest Aero Group Products

Spark Plugs, Vacuum Pumps, Carburetors, Oil Filters, Tools, and more!



Now offering a wide selection of spark plugs, vacuum pumps, oil filters, and more!

We continue providing high-quality FAA-PMA parts and services for your instrument panel and firewall forward by expanding our product selection to include Tempest, Alcor, Marvel Schebler, Precision Airmotive, and Consolidated Systems.

Pneumatic, Ignition, and Filtration Products

Tempest is a leading manufacturer of dry air pumps, spark plugs, and oil filters. Additional products include fuel pumps, oil filter adapters, and specialty tools.

New, Rebuilt, and Overhauled Carburetors

Marvel-Schebler provides genuine MSA carburetors, kits and parts including factory overhauls. Each carburetor is built with the highest quality standards. Factory carburetors are subjected to a dynamic fuel delivery analysis from idle to full throttle to ensure proper engine performance.

Instruments, Probes, and Sensors

Alcor has been a leader in the world of exhaust gas temperature (EGT), cylinder head temperature (CHT) and turbine inlet temperature (TIT) sensor development. Alcor maintains a stellar reputation for its high-quality probes. Alcor probes and sensors are compatible with the vast majority of engine monitors.

Fuel Injection Systems

Precision Airmotive provides factory new, rebuilt and overhauled RSA fuel injection servos. They also manufacture new, rebuilt and overhauled flow dividers, new and overhauled nozzles, as well as a complete line of replacement parts and kits.

FAA Repair Station

Consolidated Fuel Systems offers complete overhaul services for RG Lear Romec fuel pumps and Continental fuel injection systems.

Resistance Tester

Know when to replace your Spark Plugs!

P/N AT5K

Measures between the terminal inside the lead and the spark plugs' center firing tip.

- Follows MIL-S-7886
- Prevents misfiring, wasted fuel, and pollution



Green only — *Excellent*
Green and Red — *Serviceable*
Red only — *Replace with a new Spark Plug*

Thread Lubricant

Lubricate your Spark Plug threads during the cleaning process

P/N T556

- Flows smoothly
- Spreads evenly
- Doesn't ball up!
- Dries quickly

Maintenance Tip:

Do not get any lubricant on the electrodes or the insulator. If you do, wipe it off with a cloth dampened with water.



Spark Plug Gasket

Best price — quantity discount!

P/N MS17840-1

18mm solid copper



Spark Plug Tray

Balance and organize Spark Plugs during maintenance

P/N AA446

- Constructed with high quality metal, protecting Spark Plug damage
- Rubber feet to keep tray in place on metal workbenches and tool boxes
- Numbered slots for proper organization and rotation

**Spark Plugs not included*





Avoid spilling your Spark Plugs!

Spark Plugs

The best spark plugs at the best price!

Not your grandfather's spark plugs!

- 'Fired in' resistor for stable resistance value and smoother running engine
- Zero-leakage seal encloses hot, high pressure combustion gases
- Durable nickel finish offers wear and corrosion resistance
- Ceramic insulator provides high performance in severe operational conditions
- Reduced fouling and enhanced heat range control



Engine Models / Part Number	Massive										Fine Wire						
	UREM37HE	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32HE	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32HS	URHB32S	URHB36S	URHM38S	URHM38SE
Continental Motors	5/8"-24					3/4"-20					5/8"-24		3/4"-20				
A-65, A-75, C-75, C-85, C-90, C115, C-125 Series			•		•					•		•				•	
C-145 Series			•	•	•				•	•		•				•	
E165, E-185, E225 Series			•		•					•		•				•	
O-200-A,B,C,D			•		•					•		•			•	•	
IO-240-A, B				•					•			•				•	
O-300-A,B,C,D,E			•	•	•				•	•		•				•	
GO-300-A,B,C,D,E,F			•	•	•				•	•		•				•	
IO-360-A,AB,C,CB,D,DB,E,ES,G,GB,H,HB,J,JB,K,KB				•					•			•				•	
IO-360-B					•					•		•				•	
TSIO-360-A,AB,B,BB,C,CB,D,DB,E,EB,ES,F,FB,G,GB,H,HB,JB,K,KB,LB, MB,NB,PB,RB,SB				•					•			•				•	
LTSIO-360-E,EB,K,KB,RB				•					•			•				•	
O-470-2				•					•			•				•	
O-470-4, 11, 11B, 11B-C1, 11-C1, 13, 13A, 15					•					•		•				•	
O-470-B,G,H,M,N,P,R,S				•	•				•	•		•				•	
O-470-B-C1, G-C1, K-C1, L-C1, M-C1					•					•							
O-470-A,E,J,K,L					•					•		•				•	
O-470-T,U							•							•	•		
IO-470-A,C,G,P,R,T				•	•				•	•		•				•	
IO-470-D,E,F,H,L,LO,M,N,S,U,V,VO							•							•	•		
IO-470-J,K					•					•		•				•	
L/IO-470-A				•	•				•	•		•				•	
TSIO-470-B,C,D							•							•	•		
IO-520 Series							•										
IO-520-A,B,BA,BB,C,CB,D,E,F,J,K,L,M,MB,N,NB							•							•	•		
LIO-520 Series							•										
TSIO-520-A,AE,AF,B,BB,BE,C,CE,D,DB,E,EB,F,G,H,J,JB,K,KB,L, LB,M,N,NB,P,R,T,U,UB,V,VB,WB							•							•	•		
LTSIO-520-A,AE,B,BE,C,CE,D,DB,E,EB,G,H,J,JB,K,KB,L,LB,M, N,NB,P,R,T,U,UB,VB,WB							•							•	•		
GTSIO-520-C,D,E,F,G,H,K,L,M,N							•							•	•		
IO-550-A,B,C,D,E,F,G,L,N,P,R							•							•	•		
IOF-550-B,C,D,E,F,L,N,P,R														•			
TSIO-550-A,B,C,E,K							•							•	•		
R9-A		•						•			•				•		
R-670			•		•												
R-670-3, -4, -8, -11, -11A												•				•	
W-670			•		•					•		•				•	
Continental Titan™ Engines																	
OX-320 Series				•	•				•	•		•				•	
IOX-320 Series				•	•				•	•		•				•	
OX-340 Series				•	•				•	•		•				•	
IOX-340 Series				•	•				•	•		•				•	
OX-360 Series				•	•				•	•		•				•	
IOX-360 Series				•	•				•	•		•				•	
OX-370 Series				•	•				•	•		•				•	
IOX-370 Series				•	•				•	•		•				•	
OX-540 Series				•	•				•	•		•				•	
IOX-540 Series				•	•				•	•		•				•	
O-340 Series (ASTM certified)				•	•				•	•		•				•	
IO-340 Series (ASTM certified)				•	•				•	•		•				•	
Electroair (electronic ignition)																	
EIS-41000, EIS-41000IC, EIS-41000T, EIS-41000TIC, EIS-41000TLH, EIS-41000LHIC	•					•							•				•

Eligibility continued on next page

Spark Plugs eligibility continued from previous page

Engine Models / Part Number	Massive										Fine Wire						
	UREM37HE	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32HE	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32HS	URHB32S	URHB36S	URHM38S	URHM38SE
Franklin/PZL/WSK		5/8"-24					3/4"-20				5/8"-24			3/4"-20			
2A-120-A,B,C,D							•								•		
4A-235-B, B1, B2, B3, B4, B6							•				•				•		
6AS-335-A,B		•					•	•			•				•		
6V-335-A1A, A1B		•					•	•			•				•		
6VS-335-A,B, A1, B1		•					•	•			•				•		
6A-350-C1, C1A, C2, C2A, C1L, C1R, D, D1, D1A, D1B							•				•			•	•		
6AS-350-A, A1							•				•				•		
6V-350-A,B							•				•				•		
PZL-3S, 3S 2nd Series, 3SR		•						•			•				•		
ASZ-62IR-16, M18		•						•			•				•		
Jacobs																	
L-4, L-5, L-6 Series					•					•		•				•	
4M, 4MA, 4MA7, 4MB, 5M, 5MB, 6M, 6MA, 6MBA					•							•				•	
R-755-A1, A2, A2M, A2M1, B1, B2, B2M, E					•					•							
R-755S, SM				•	•				•								
R-755-9					•							•				•	
R-915-3, 5, 7												•				•	
Ken Royce																	
Ken Royce 7F, 7G					•					•							
Ken Royce 90 5G					•					•							
Kinner																	
B-5, B-54, C-5, K-5					•					•							
Kinner R-5, R-5 Series 2, R-55, R-56					•					•							
Lambert																	
B-5, B-54, C-5, K-5					•					•							
LeBlond																	
LeBlond 70 5DE, 5E					•					•							
LeBlond 85 5F, 5DF					•					•							
LeBlond 90 5F					•					•							
LeBlond 110 7DF					•					•							
Menasco																	
Buccaneer A-6, B-6, B6S					•					•							
Super Buccaneer C6S-4					•					•							
Pirate A-4, B-4, C4, D4, M-50					•					•							
Super Pirate D-4-87		•									•						
P. Ponk																	
O-470-50 Super Eagle							•							•			
Pratt & Whitney																	
R-985 Wasp Jr. Series			•		•					•		•				•	
R-1340 Wasp Series (Short Reach)			•		•					•		•				•	
R-1340 Wasp Series (Long Reach)		•					•	•									
SR-1340-E					•					•							
R-1800 Twin Wasp E1		•					•	•									
R-1830 Twin Wasp Series		•					•	•			•			•	•		
R-2000 Twin Wasp Series		•					•	•			•				•		
Twin Wasp SC-G, SC3-G, S1C-G, S1C3-G, S3C4-G, S4C4-G		•					•	•			•			•	•		
R-2800 Double Wasp A,B Series		•					•	•			•			•	•		
Double Wasp Series CA3, CA5, CA15, CA17, CA18, CA19, R2800-97, CB3, CB4, CB16, CB17		•					•	•			•			•	•		
R-4630 Wasp Major Series		•					•	•			•				•		
Ranger																	
Ranger 6-390, 6-410, 6-440 Series					•					•		•				•	
Superior Air Parts																	
O-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, A4A1, A4A2, A5A1, A5A2, A6A1, A6A2, B1A1, B1A2, B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1, B6A2, C1A1, C1A2, C2A1, C2A2, C3A1, C3A2, C4A1, C4A2, C5A1, C5A2, C6A1, C6A2, D1A1, D1A2, D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1, D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2, E4A1, E4A2, E5A1, E5A2, E6A1, E6A2					•												

Eligibility continued on next page

Spark Plugs eligibility continued from previous page

Engine Models	Part Number	Massive										Fine Wire						
		UREM37HE	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32HE	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32HS	URHB32S	URHB36S	URHM38S	URHM38SE
Textron Lycoming																		
O-235-C,E,H,K,L,M,N,P Series				•	•	•				•	•		•				•	
O-235-F,G,J Series					•					•	•		•				•	
O-290 Series				•	•	•				•	•		•				•	
O-320-A,B,C,D,E,H Series				•	•	•				•	•		•				•	
O-320-F Series					•	•				•	•		•					
IO-320 A, B, C, D, E, Series				•	•	•				•	•		•				•	
IO-320-F Series				•	•	•				•	•		•				•	
IO-320-C1A, F1A (Long Reach)			•						•			•						
IO-320-C1B (Long Reach)			•						•									
AIO-320-A, B, C Series				•	•	•				•	•		•				•	
LIO-320-B Series (Short Reach)				•	•	•				•	•		•				•	
LIO-320-C1A (Long Reach)			•						•			•				•		
AEIO-320 A, B, C, D, E Series				•	•	•				•	•		•				•	
O-340-A, B Series					•	•				•	•		•				•	
O-360-A, B, C, D, F, J Series				•	•	•				•	•		•				•	
O-360-E Series					•	•				•	•		•				•	
HO-360-A, B, C Series				•	•	•				•	•		•				•	
IO-360-A, B, C, D, E, F, J, K, L, M Series				•	•	•				•	•		•				•	
IO-360-A1B6, C1A, C1F, F1A Series (Long Reach)			•						•			•				•		
LO-360-A, C, E Series				•	•	•				•	•		•				•	
TO-360-A, C, E, F Series			•					•	•			•			•	•		
TO-360-C1A6D, E1A6D, F1A6D Series (Long Reach)								•	•			•			•	•		
VO-360-A, B Series				•	•	•				•	•		•				•	
AIO-360-A, B Series				•	•					•			•				•	
HIO-360-A, B, G Series				•	•	•				•	•		•				•	
HIO-360 -C, D Series				•						•			•				•	
HIO-360-E1AD, E1BD, F1AD Series (Long Reach)								•	•						•	•		
IVO-360-A Series			•					•	•			•			•	•		
LIO-360-C, M Series				•	•					•			•				•	
LTO-360-A1A6D, E1A6D			•					•	•			•			•	•		
TIO-360-A, C Series			•					•	•			•			•	•		
AEIO-360-A, B, C, H Series				•	•	•				•	•		•				•	
AEIO-360-A Series (Long Reach)			•						•			•				•		
LHIO-360-C Series				•	•					•			•					
LHIO-360-F1AD								•	•						•	•		
IO-390-A, C			•						•			•				•		
AEIO-390-A			•						•			•				•		
O-435-A, C, K Series					•	•				•	•		•				•	
O-435-B Series													•				•	
O-435-A1A (Long Reach)								•	•									
O-435-6, 6A															•			
O-435-23, 23A, 23B, 23C, 25, 25A			•					•	•			•			•	•		
GO-435-A Series					•					•			•				•	
GO-435-C, D, Series						•					•		•				•	
GO-435-K Series						•					•							
VO-435-A Series					•	•				•			•				•	
VO-435-A,B Series (Long Reach)			•					•	•			•			•	•		
TVO-435-A Series (Short Reach)					•					•			•				•	
TVO-435-A,B,C,D,E,F,G Series (Long Reach)			•					•	•			•			•	•		
O-480-1, 3								•				•			•	•		
GO-480-B,D,F Series					•	•				•	•		•				•	
GO-480-C,G Series					•					•			•				•	
GO-480-G1,G2 Series (Long Reach)			•					•	•			•			•	•		
GO-480-E1A6													•				•	
GSO-480-A,B,D,F Series (Short Reach)					•	•				•	•		•				•	
GSO-480-A, B Series (Long Reach)			•						•			•				•		
IGO-480-A Series (Long Reach)			•					•	•			•			•	•		
IGSO-480-A Series (Short Reach)					•	•				•	•		•				•	
IGSO-480-A Series (Long Reach)			•					•	•			•			•	•		

Eligibility continued on next page

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Spark Plugs eligibility continued from previous page

Engine Models / Part Number	Massive										Fine Wire						
	UREM37HE	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32HE	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32HS	URHB32S	URHB36S	URHM38S	URHM38SE
Textron Lycoming cont.	5/8"-24					3/4"-20					5/8"-24		3/4"-20				
O-540-A,B,D,E,F,G,H,J Series				•	•				•	•		•				•	
O-540-L3C5D, M1B5D Series (Long Reach)		•						•			•				•		
IO-540-A,AB,AE,B,C,D,E,G,J,K,L,M,N,P,R,S,T,U,V,W (Short Reach)				•	•				•	•		•				•	
IO-540-AF (Short Reach)				•	•				•	•							
IO-540-AA,AC,AE,E,G,J,K,M,N,P,R,S,U (Long Reach)							•	•						•	•		
IO-540-E1A5, E1B5, E1C5, J4A5, K1B5, K1B5D, K1C5, K1D5, K1E5, K1E5D, K1F5, K1F5D, K1G5, KIG5D, K1H5, K1J5, K1J5D, K1K5, K1K5D, K2A5, P1A5, R1A5 (Long Reach)		•					•	•			•			•	•		
VO-540-A,B,C Series (Short Reach)				•					•			•				•	
VO-540-A,B,C Series (Long Reach)		•						•			•				•		
TIO-540-C1A, E, H		•															
TIO-540-A,AA,AB,AE,AF,AG,AH,AJ,AK,C,E,F,G,H,J,K,N,R,S, T,U,V,W Series							•	•						•	•		
LTIO-540-F,J,N,R Series							•	•			•			•	•		
LTIO-540-U,V Series							•	•						•	•		
AEIO-540-D, L Series (Short Reach)				•	•				•	•		•				•	
AEIO-540-L Series (Long Reach)		•					•	•						•	•		
IGO-540-A,B, Series		•					•	•						•	•		
IVO-540-A Series		•						•			•				•		
TIVO-540-A Series							•	•			•			•	•		
IGSO-540-A,B Series							•	•						•	•		
TIO-541-A,E Series		•					•	•			•			•	•		
TIGO-541-A, E Series		•					•	•			•			•	•		
IO-580 Series (Short Reach)				•													
IO-580 Series (Long Reach)		•						•							•		
AEIO-580 Series (Short Reach)				•													
AEIO-580 Series (Long Reach)		•						•							•		
R-680 Series					•					•		•				•	
IO-720-A,B,C,D Series (Short Reach)				•					•			•				•	
IO-720-A,B,C,D Series (Long Reach)		•					•	•			•			•	•		
Warner																	
Scarab Series 28, 29, 30, 40, 50					•					•		•				•	
Scarab Jr. Series 40, 50					•					•		•				•	
Super Scarab Series 40, 50, 50A					•					•		•				•	
Super Scarab 165, A, B, D, 185, 185J, 185K					•					•		•				•	
Wright/ Curtis Wright																	
Cyclone Double Row Series		•						•									
Cyclone R-1300 Series		•						•			•				•		
Cyclone R-1820 Series (Except F & HE)		•						•			•				•		
Cyclone R-1820-84 (C9HE) Series							•							•			
Cyclone R-2600 Series		•						•			•				•		
Cyclone R-3350-C18BA, C18BD		•						•			•				•		
GR-540 Series					•					•							
GR-975 Series (Short Reach)					•					•							
GR-975C Series (Long Reach)		•						•									
R-540 Series					•					•							
R-975 Series (Short Reach)					•					•							
R-975 Series (Long Reach)		•						•									
Whirlwind J-5 (Short Reach)					•					•							
Whirlwind J-5 (Long Reach)		•						•									
Whirlwind R-760 Series (Long Reach)		•						•									
Whirlwind R-760 Series - 1/2" reach cyl.					•					•							

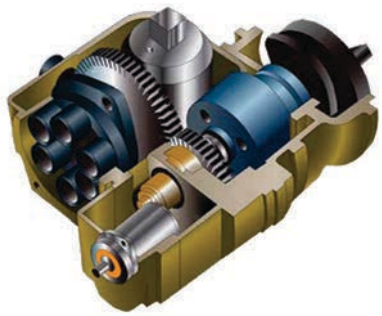
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- Easy installation
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- Quieter
- 1 year warranty
- Core returns accepted

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See eligibility on following pages

Overhauled Magneto Condition

P/N	Model	Impulse Coupled	Pressurized	LH Rot	RH Rot	Lag	Note
4301-FOH	4300 SERIES	•		•		25°	
4302-FOH	4300 SERIES				•	0°	Direct Drive
4309-FOH	4300 SERIES			•		0°	Direct Drive
4310-FOH	4300 SERIES			•		30°	Retard Breaker
4316-FOH	4300 SERIES	•			•	25°	
4330-FOH	4300 SERIES	•			•	25°	
4333-FOH	4300 SERIES	•			•	25°	Tach Drive
4342-FOH	4300 SERIES			•		0°	Retard Breaker
4345-FOH	4300 SERIES			•		15°	Retard Breaker
4347-FOH	4300 SERIES			•		25°	Retard Breaker
4348-FOH	4300 SERIES				•	25°	Tach Drive
4353-FOH	4300 SERIES			•		0°	Direct Drive
4370-FOH	4300 SERIES			•		0°	
4371-FOH	4300 SERIES	•		•		20°	
4372-FOH	4300 SERIES	•		•		15°	
4373-FOH	4300 SERIES	•		•		25°	
4374-FOH	4300 SERIES	•			•	15°	
4381-FOH	4300 SERIES	•		•		5°	
4392-FOH	4300 SERIES	•			•	30°	
6309-FOH	6300 SERIES				•	35°	Retard Breaker
6310-FOH	6300 SERIES	•			•	30°	
6313-FOH	6300 SERIES				•	0°	Direct Drive
6314-FOH	6300 SERIES	•		•		30°	
6320-FOH	6300 SERIES	•	•		•	30°	
6324-FOH	6300 SERIES	•	•	•		30°	
6340-FOH	6300 SERIES				•	0°	Direct Drive
6350-FOH	6300 SERIES			•		0°	Direct Drive
6351-FOH	6300 SERIES	•		•		35°	
6355-FOH	6300 SERIES	•		•		45°	
6360-FOH	6300 SERIES		•	•		0°	Direct Drive
6361-FOH	6300 SERIES	•	•	•		35°	
6362-FOH	6300 SERIES	•			•	30°	
6363-FOH	6300 SERIES		•	•		30°	Retard Breaker
6364-FOH	6300 SERIES	•		•		35°	
6367-FOH	6300 SERIES	•			•	35°	
6371-FOH	6300 SERIES			•		0°	Tach Drive
6377-FOH	6300 SERIES	•		•		45°	
6379-FOH	6300 SERIES	•		•		45°	
6380-FOH	6300 SERIES	•			•	30°	
6390-FOH	6300 SERIES			•		0°	Tach Drive
6393-FOH	6300 SERIES			•		37°	Retard Breaker
6394-FOH	6300 SERIES				•	30°	Retard Breaker
6399-FOH	6300 SERIES	•			•	35°	

Champion Slick Magneto continued from previous page

Factory overhauled Magnetos are in stock and ready to ship!

NEW

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Franklin		
4A-235-B31 (32°,116HP)	4392	4392
4A-235-B4 (26°,125HP)	4392	4392
6A-350-C1 (28°,220HP)	6399	6399
6A-350-C1A (28°,220HP)	6399	6399
6A-350-C2 (28°,215HP)	6399	6399
6A-350-C2A (28°,212HP)	6399	6399
6A-350-D1 (28°,200HP)	6399	6399
6A-350-D1A (28°,230HP)	6399	6399
6A-350-D1B (28°,220HP)	6399	6399
6A4-150-B3 (28°,150HP)	6399	6399
6A4-150-B31 (28°,150HP)	6399	6399
6A4-150-B4 (28°,150HP)	6399	6399
6A4-165-B3 (32°,165HP)	6399	6399
6A4-165-B4 (32°,165HP)	6399	6399
6A4-165-B6 (32°,165HP)	6399	6399
Great Plains		
Volkswagen (30°,65HP)	4316	
Type 1-1600 (25°,57HP)	4316	
Type 1-1835 (25°,65HP)	4316	
Type 1-2180 (25°,76HP)	4316	
Type 4-2400 (25°,85HP)	4316	
Grob		
Volkswagen (30°,65HP)	4330	4330
Limbach		
Volkswagen (30°,65HP)	4330	4330
Monnett		
Volkswagen (30°,65HP)	4316	4316
Mosler		
Volkswagen (30°,65HP)	4316	4316
Superior Air Parts		
IO-360 (25°,180HP)	4371	4371
O-360 (25°,180HP)	4371	4371
Continental		
A-65-1 (30°,65HP)	4333; 4302	4333; 4302
A-65-12 (30°,65HP)	4302	4302
A-65-12F (30°,65HP)	4302	4302
A-65-12FJ (30°,65HP)	4302	4302
A-65-12J (30°,65HP)	4302	4302
A-65-14 (30°,75HP)	4302	4302
A-65-14F (30°,75HP)	4302	4302
A-65-14FJ (30°,75HP)	4302	4302
A-65-14J (30°,75HP)	4302	4302
A-65-3 (30°,65HP)	4333; 4302	4333; 4302
A-65-6 (30°,65HP)	4333; 4302	4333; 4302
A-65-6J (30°,65HP)	4333; 4302	4333; 4302
A-65-7 (30°,65HP)	4333; 4302	4333; 4302
A-65-8 (30°,65HP)	4333; 4302	4333; 4302
A-65-8F (30°,65HP)	4333; 4302	4333; 4302
A-65-8FJ (30°,65HP)	4333; 4302	4333; 4302
A-65-8J (30°,65HP)	4333; 4302	4333; 4302
A-65-9 (30°,65HP)	4302	4302
A-65-9F (30°,65HP)	4302	4302
A-65-9FJ (30°,65HP)	4302	4302
A-65-9J (30°,65HP)	4302	4302
A-75-3 (30°,75HP)	4333; 4302	4333; 4302
A-75-6 (30°,75HP)	4333; 4302	4333; 4302
A-75-6J (30°,75HP)	4333; 4302	4333; 4302
A-75-8 (30°,75HP)	4333; 4302	4333; 4302
A-75-8F (30°,75HP)	4333; 4302	4333; 4302
A-75-8FJ (30°,75HP)	4333; 4302	4333; 4302
A-75-8J (30°,75HP)	4333; 4302	4333; 4302

Continued on next column

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Continental continued from previous column		
A-75-9 (30°,75HP)	4302	4302
A-75-9J (30°,75HP)	4302	4302
C-145-2 (26°,145HP)	6364	6364
C-145-2H (26°,145HP)	6364	6364
C-145-2HP (26°,145HP)	6364	6364
C-75-8 (30°,75HP)	4333; 4330	4333; 4330
C-75-8F (30°,75HP)	4333; 4330	4333; 4330
C-75-8FH (30°,75HP)	4333; 4330	4333; 4330
C-75-8FHJ (30°,75HP)	4333; 4330	4333; 4330
C-75-8FJ (30°,75HP)	4333; 4330	4333; 4330
C-75-8J (30°,75HP)	4333; 4330	4333; 4330
C-85-12 (30°,85HP)	4301	4301
C-85-12F (30°,85HP)	4301	4301
C-85-12FH (30°,85HP)	4301	4301
C-85-12FHJ (30°,85HP)	4301	4301
C-85-12FJ (30°,85HP)	4301	4301
C-85-12J (30°,85HP)	4301	4301
C-85-14 (30°,85HP)	4301	4301
C-85-14F (30°,85HP)	4301	4301
C-85-15 (30°,85HP)	4301	4301
C-85-15F (30°,85HP)	4301	4301
C-85-8 (30°,85HP)	4333; 4330; 4302	4333; 4330; 4302
C-85-8F (30°,85HP)	4333; 4330; 4302	4333; 4330; 4302
C-85-8FHJ (30°,87HP)	4333; 4330; 4302	4333; 4330; 4302
C-85-8FJ (30°,87HP)	4333; 4330; 4302	4333; 4330; 4302
C-85-8J (30°,87HP)	4333; 4330; 4302	4333; 4330; 4302
C-90-12F (25°,95HP)	4301	4301
C-90-12FH (25°,95HP)	4301	4301
C-90-12FJ (25°,95HP)	4301	4301
C-90-12FP (25°,95HP)	4301	4301
C-90-14F (25°,95HP)	4301	4301
C-90-14FH (25°,95HP)	4301	4301
C-90-14FJ (25°,95HP)	4301	4301
C-90-16F (25°,95HP)	4301	4301
C-90-8F (25°,95HP)	4333; 4330; 4302	4333; 4330; 4302
C-90-8FJ (25°,95HP)	4333; 4330; 4302	4333; 4330; 4302
E-165-2 (26°,165HP)	6377; 6379	6377; 6379
E-165-3 (26°,165HP)	6377; 6379	6377; 6379
E-165-4 (26°,165HP)	6377; 6379	6377; 6379
E-185-1 (26°,205HP)	6377; 6379	6377; 6379
E-185-10 (26°,205HP)	6377; 6379	6377; 6379
E-185-11 (26°,205HP)	6377; 6379	6377; 6379
E-185-2 (26°,185HP)	6377; 6379	6377; 6379
E-185-3 (26°,205HP)	6377; 6379	6377; 6379
E-185-5 (26°,185HP)	6377; 6379	6377; 6379
E-185-8 (26°,205HP)	6377; 6379	6377; 6379
E-185-9 (26°,205HP)	6377; 6379	6377; 6379
E-225-2 (26°,225HP)	6377; 6379	6377; 6379
E-225-4 (26°,225HP)	6377; 6379	6377; 6379
E-225-8 (26°,225HP)	6377; 6379	6377; 6379
E-225-9 (26°,225HP)	6377; 6379	6377; 6379
GO-300-A (28°,175HP)	6367	6367
GO-300-B (28°,175HP)	6367	6367

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Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Continental continued from previous page		
GO-300-C (28°,175HP)	6367	6367
GO-300-D (28°,175HP)	6367	6367
GO-300-E (28°,175HP)	6367	6367
IO-240-B (26°,125HP)	4309	4310
IO-360-A (20°,210HP)	6314	6314
IO-360-B (20°,180HP)	6314	6314
IO-360-C (20°,210HP)	6314	6314
IO-360-CB (20°,210HP)	6314	6314
IO-360-D (20°,210HP)	6314	6314
IO-360-DB (20°,210HP)	6314	6314
IO-360-E (20°,210HP)	6314	6314
IO-360-ES (24°,210HP)	6314	6314
IO-360-G (20°,210HP)	6314	6314
IO-360-GB (20°,210HP)	6314	6314
IO-360-H (20°,210HP)	6314	6314
IO-360-HB (20°,210HP)	6314	6314
IO-360-J (20°,210HP)	6314	6314
IO-360-JB (20°,210HP)	6314	6314
IO-360-K (20°,195HP)	6314	6314
IO-360-KB (20°,195HP)	6314	6314
IO-470-A (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-C (26°,250HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-D (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-E (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-F (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-G (26°,250HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-H (20°,260HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-J (22°,225HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-K (22°,225HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-L (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-LO (20°,260HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-M (20°,260HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-N (20°,260HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-P (26°,250HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-R (26°,250HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-S (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-T (26°,250HP)	6310; 6380; 6362	6310; 6380; 6362
IO-470-U (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-V (20°,260HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-470-VO (20°,260HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-A (22°,285HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-B (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-BA (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362

Continued on next column

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Continental continued from previous column		
IO-520-BB (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-C (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-CB (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-D (22°,300HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-E (22°,300HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-F (22°,300HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-J (22°,285HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-K (22°,300HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-L (22°,300HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-M (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-MB (22°,285HP)	6310; 6380; 6309; 6362	6310; 6380; 6313; 6362
IO-520-N (22°,300HP)	6310; 6380; 6362	6310; 6380; 6362
IO-520-NB (22°,300HP)	6310; 6380; 6362	6310; 6380; 6362
IO-550-A (22°,300HP)	6310; 6309	6310; 6313
IO-550-B (22°,300HP)	6310	6310
IO-550-C (22°,300HP)	6310	6310
IO-550-D (22°,300HP)	6310	6310
IO-550-F (22°,300HP)	6310	6310
IO-550-L (22°,300HP)	6310	6310
LTSIO-360-E (20°,200HP)	6320	6320
LTSIO-360-EB (20°,200HP)	6320	6320
LTSIO-360-KB (20°,220HP)	6320	6320
LTSIO-360-RB (22°,220HP)	6320	6320
LTSIO-520-AE (20°,250HP)	6324	6324
O-200-A (25°,100HP)	4301	4301
O-200-B (25°,100HP)	4301	4301
O-200-C (25°,100HP)	4301	4301
O-300-A (26°,145HP)	6364	6364
O-300-B (26°,145HP)	6364	6364
O-300-C (26°,145HP)	6364	6364
O-300-D (26°,145HP)	6364	6364
O-300-E (26°,145HP)	6364	6364
O-470-11 (26°,213HP)	6377; 6379	6377; 6379
O-470-11B (26°,213HP)	6377; 6379	6377; 6379
O-470-11B-C1 (26°,213HP)	6377; 6379	6377; 6379
O-470-11-C1 (26°,213HP)	6377; 6379	6377; 6379
O-470-13 (26°,225HP)	6377; 6379	6377; 6379
O-470-13A (26°,225HP)	6377; 6379	6377; 6379
O-470-15 (26°,213HP)	6377; 6379	6377; 6379
O-470-4 (26°,225HP)	6377; 6379	6377; 6379
O-470-A (26°,225HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-B (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-B-C1 (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-E (26°,225HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-G (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362

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Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Continental continued from previous page		
O-470-G-C1 (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-H (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-J (20°,225HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-K (22°,230HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-K-C1 (22°,230HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-L (22°,230HP)	6310; 6380; 6309; 6362	6310; 6380; 6309; 6362
O-470-L-C1 (22°,230HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-M (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-M-C1 (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-N (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-P (24°,240HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-R (22°,230HP)	6310; 6380; 6309; 6362	6310; 6380; 6309; 6362
O-470-S (22°,230HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-T (24°,230HP)	6310; 6380; 6362	6310; 6380; 6362
O-470-U (24°,230HP)	6310; 6380; 6362	6310; 6380; 6362
TSIO-360-A (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-AB (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-B (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-BB (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-C (20°,225HP)	6324; 6314	6324; 6314
TSIO-360-CB (20°,225HP)	6324; 6314	6324; 6314
TSIO-360-D (20°,225HP)	6324; 6314	6324; 6314
TSIO-360-DB (20°,225HP)	6324; 6314	6324; 6314
TSIO-360-E (20°,200HP)	6324; 6314	6324; 6314
TSIO-360-EB (20°,200HP)	6324; 6314	6324; 6314
TSIO-360-F (20°,200HP)	6324; 6314	6324; 6314
TSIO-360-FB (20°,200HP)	6324; 6314	6324; 6314
TSIO-360-G (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-GB (20°,210HP)	6324	6324
TSIO-360-H (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-HB (20°,210HP)	6324; 6314	6324; 6314
TSIO-360-JB (20°,225HP)	6324; 6314	6324; 6314
TSIO-360-KB (20°,220HP)	6324	6324
TSIO-360-LB (20°,210HP)	6324	6324
TSIO-360-MB (20°,210HP)	6324	6324
TSIO-360-NB (20°,210HP)	6324	6324
TSIO-360-PB (20°,200HP)	6324	6324
TSIO-360-RB (22°,220HP)	6324	6324
TSIO-360-SB (20°,220HP)	6324	6324
TSIO-520-A (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-AE (20°,250HP)	6320	6320
TSIO-520-AF (22°,310HP)	6320	6320
TSIO-520-B (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-BB (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-BE (24°,310HP)	6320	6320
TSIO-520-C (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-CE (20°,325HP)	6320	6320

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Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Continental continued from previous column		
TSIO-520-D (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-DB (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-E (20°,300HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-EB (20°,300HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-G (22°,300HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-H (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-J (20°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-JB (20°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-K (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-KB (20°,285HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-L (20°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-LB (20°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-M (22°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-N (20°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-NB (20°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-P (22°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-R (22°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-T (22°,310HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-U (22°,300HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-UB (22°,300HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-VB (20°,325HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-520-WB (20°,325HP)	6310; 6380; 6320; 6362	6310; 6380; 6320; 6362
TSIO-550-A (24°,360HP)	6320	6320
TSIO-550-B (24°,350HP)	6320	6320
TSIO-550-C (24°,310HP)	6320	6320
TSIO-550-E (24°,350HP)	6320	6320
Lycoming		
AEIO-320-D1B (25°,160HP)	4373	4353; 4370; 4373
AEIO-320-D2B (25°,160HP)	4373	4353; 4370; 4373
AEIO-320-E1A (25°,150HP)	4373	4370; 4373
AEIO-320-E1B (25°,150HP)	4371	4370; 4371
AEIO-320-E2A (25°,150HP)	4373	4370; 4373
AEIO-320-E2B (25°,150HP)	4371	4370; 4371
AEIO-360-A1A (20°,200HP)	4345; 4347	4370
AEIO-360-A1A (25°,200HP)	4345; 4347	4370
AEIO-360-A1B (20°,200HP)	4372	4370; 4372
AEIO-360-A1B (25°,200HP)	4373	4370; 4373
AEIO-360-A1B6 (20°,200HP)	4372	4370; 4372
AEIO-360-A1B6 (25°,200HP)	4373	4370; 4373
AEIO-360-A1D (20°,200HP)	4372	4370; 4372

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Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Lycoming continued from previous page		
AEIO-360-A1D (25°,200HP)	4373	4370; 4373
AEIO-360-A1E (20°,200HP)	4372	4370; 4372
AEIO-360-A1E (25°,200HP)	4373	4370; 4373
AEIO-360-A2B (20°,200HP)	4371	4370; 4371
AEIO-360-B1B (25°,180HP)	4347	4370
AEIO-360-B1F (25°,180HP)	4373	4373
AEIO-360-B1F6 (25°,180HP)	4371	4370; 4371
AEIO-360-B1G6 (25°,180HP)	4371	4371
AEIO-360-B2F (25°,180HP)	4373	4373
AEIO-360-B2F6 (25°,180HP)	4371	4370; 4371
AEIO-360-B4A (25°,180HP)	4373	4370; 4373
AEIO-360-H1A (25°,180HP)	4371	4370; 4371
AEIO-540-D4A5 (25°,260HP)	6393	6350
AEIO-540-D4B5 (25°,260HP)	6351; 6393	6371; 6350; 6351
AEIO-540-L1B5 (20°,300HP)	6393; 6351	6350
AIO-320-A1B (25°,160HP)	4373	4370; 4373
AIO-320-A2B (25°,160HP)	4371	4370; 4371
AIO-320-B1B (25°,160HP)	4373	4370; 4373
AIO-320-C1B (25°,160HP)	4373	4370; 4373
AIO-360-A1A (20°,200HP)	4372	4372
AIO-360-A1B (20°,200HP)	4372	4370; 4372
AIO-360-A2B (20°,200HP)	4371	4370; 4371
AIO-360-B1B (20°,200HP)	4372	4370; 4372
AIO-360-B1B (25°,200HP)	4373	4370; 4373
HIO-360-D1A (20°,190HP)	4345	4345
HO-360-C1A (25°,180HP)	4347	4370
IO-320-B1A (25°,160HP)	4373	4373
IO-320-B1B (25°,160HP)	4371	4370; 4371
IO-320-B1C (25°,160HP)	4373	4342; 4370; 4373
IO-320-B1D (25°,160HP)	4347	4370
IO-320-B2A (25°,160HP)	4373	4370; 4373
IO-320-C1A - 1/2" (25°,160HP)	4373	4373
IO-320-C1A - 13/16" (25°,160HP)	4373	4373
IO-320-D1A (25°,160HP)	4373	4370; 4373
IO-320-D1B (25°,160HP)	4373	4370; 4373
IO-320-E1A (25°,150HP)	4373	4370; 4373
IO-320-E1B (25°,150HP)	4371	4370; 4371
IO-320-E2A (25°,150HP)	4373	4370; 4373
IO-320-E2B (25°,150HP)	4371	4370; 4371
IO-320-F1A (25°,160HP)	4373	4373
IO-360-A1A (25°,200HP)	4345	4370
IO-360-A1B (20°,200HP)	4372	4370; 4372
IO-360-A1B (25°,200HP)	4373	4370; 4373
IO-360-A1B6 (20°,200HP)	4372	4370; 4372
IO-360-A1B6 (25°,200HP)	4373	4370; 4373
IO-360-A1C (20°,200HP)	4345	4370
IO-360-A1D (20°,200HP)	4372	4370; 4372
IO-360-A1D6 (20°,200HP)	4372	4370; 4372
IO-360-A2A (20°,200HP)	4345	4342; 4370
IO-360-A2B (20°,200HP)	4372	4370; 4372
IO-360-A2B (25°,200HP)	4373	4370; 4373
IO-360-A2C (20°,200HP)	4345	4370
IO-360-B1B (25°,180HP)	4347	4370
IO-360-B1D (25°,180HP)	4347	4342
IO-360-B1E (25°,180HP)	4373	4370; 4373
IO-360-B1F (25°,180HP)	4373	4373
IO-360-B1F6 (25°,180HP)	4371	4370; 4371
IO-360-B2E-nd (25°,180HP)	4373	4373
IO-360-B2E-wd (25°,180HP)	4373	4373
IO-360-B2F (25°,180HP)	4373	4373

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NEW

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Lycoming continued from previous column		
IO-360-B2F6 (25°,180HP)	4373	4373
IO-360-B4A (25°,180HP)	4373	4370; 4373
IO-360-C1A (20°,200HP)	4345	4370
IO-360-C1B (20°,200HP)	4345	4370
IO-360-C1C (20°,200HP)	4372	4370; 4372
IO-360-C1C6 (20°,200HP)	4372	4370; 4372
IO-360-C1C6 (25°,200HP)	4373	4370; 4373
IO-360-C1D6 (20°,200HP)	4372	4370; 4372
IO-360-C1D6 (25°,200HP)	4373	4370; 4373
IO-360-C1E6 (20°,200HP)	4372	4370; 4372
IO-360-C1E6 (25°,200HP)	4373	4370; 4373
IO-360-C1F (20°,200HP)	4372	4370; 4372
IO-360-C1F (25°,200HP)	4373	4370; 4373
IO-360-D1A (20°,200HP)	4345	4370
IO-360-E1A (25°,180HP)	4347	4370
IO-360-F1A (25°,180HP)	4373	4370; 4373
IO-360-K2A (20°,200HP)	4372	4370; 4372
IO-540-A1A5 (20°,290HP)	6393	6350
IO-540-AA1A5 (20°,270HP)	6393	6350
IO-540-AA1B5 (20°,270HP)	6361	6360
IO-540-AB1A5 (23°,230HP)	6351	6351
IO-540-AC1A5 (20°,300HP)	6351	6351
IO-540-B1A5 (20°,290HP)	6393	6350
IO-540-B1C5 (20°,290HP)	6393	6350
IO-540-C1B5 (25°,250HP)	6393	6350
IO-540-C1C5 (25°,250HP)	6393	6350
IO-540-C2C (25°,250HP)	6355	6350; 6355
IO-540-C4B5 (25°,250HP)	6393	6350
IO-540-C4C5 (25°,250HP)	6393	6350
IO-540-D4A5 (25°,260HP)	6393	6350
IO-540-D4B5 (25°,260HP)	6351	6350; 6351
IO-540-D4C5 (25°,260HP)	6393	6350
IO-540-E1A5 (20°,290HP)	6393	6350
IO-540-E1B5 (20°,290HP)	6393	6350
IO-540-G1A5 (20°,290HP)	6393	6350
IO-540-G1B5 (20°,290HP)	6393	6350
IO-540-G1C5 (20°,290HP)	6351	6350; 6351
IO-540-G1D5 (20°,290HP)	6351	6371
IO-540-G1E5 (20°,290HP)	6351; 6393	6371; 6350
IO-540-G1F5 (20°,290HP)	6351	6351
IO-540-J4A5 (25°,250HP)	6393	6350
IO-540-K1A5 (20°,300HP)	6351	6350; 6351
IO-540-K1B5 (20°,300HP)	6351	6371; 6351; 6350
IO-540-K1C5 (20°,300HP)	6351; 6393	6350; 6351
IO-540-K1D5 (20°,300HP)	6393	6350
IO-540-K1E5 (20°,300HP)	6351	6351
IO-540-K1F5 (20°,300HP)	6393	6350
IO-540-K1G5 (20°,300HP)	6351	6350; 6351
IO-540-K1H5 (20°,300HP)	6351	6350; 6351
IO-540-K1J5 (20°,300HP)	6393	6350
IO-540-K1K5 (20°,300HP)	6351	6350; 6351
IO-540-L1A5 (20°,300HP)	6351	6350; 6351
IO-540-L1C5 (20°,300HP)	6351	6350; 6351
IO-540-M1A5 (20°,300HP)	6393	6350
IO-540-N1A5 (25°,260HP)	6393	6350
IO-540-P1A5 (20°,290HP)	6393	6350
IO-540-R1A5 (25°,260HP)	6393	6350

Continued on next page

Champion Slick Magneto continued from previous page

Factory overhauled Magnetos are in stock and ready to ship!

NEW

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Lycoming continued from previous page		
IO-540-S1A5 (20°,300HP)	6393	6350; 6371
LIO-320-B1A (25°,160HP)	4330	4330
LIO-320-C1A (25°,160HP)	4330	4330
LIO-360-C1E6 (20°,200HP)	4374	4302
LIO-360-C1E6 (25°,200HP)	4374	4302
LTIO-540-J2B (20°,350HP)	6394	6340
O-235-C1 (25°,115HP)	4373	4370; 4373
O-235-C1B (25°,115HP)	4347	4370
O-235-C1C (25°,115HP)	4371	4370; 4371
O-235-C2A (25°,115HP)	4373	4370; 4373
O-235-C2B (25°,115HP)	4373	4370; 4373
O-235-C2C (25°,115HP)	4371	4370; 4371
O-235-E1 (25°,115HP)	4371	4370; 4371
O-235-E2A (25°,115HP)	4373	4370; 4373
O-235-E2B (25°,115HP)	4371	4370; 4371
O-235-F1 (25°,125HP)	4371	4370; 4371
O-235-F1B (25°,125HP)	4347	4370
O-235-F2A (25°,125HP)	4373	4370; 4373
O-235-F2B (25°,125HP)	4373	4370; 4373
O-235-G1 (25°,125HP)	4373	4370; 4373
O-235-G2A (25°,125HP)	4373	4370; 4373
O-235-G2B (25°,125HP)	4371	4370; 4371
O-235-H2C (25°,115HP)	4371	4370; 4371
O-235-J2A (25°,125HP)	4373	4370; 4373
O-235-J2B (25°,125HP)	4371	4370; 4371
O-235-K2A (20°,118HP)	4372	4370; 4372
O-235-K2B (20°,118HP)	4372	4370; 4372
O-235-K2C (20°,118HP)	4372	4370; 4372
O-235-L2A (20°,118HP)	4372	4370; 4372
O-235-L2C (20°,118HP)	4381; 4372	4370; 4381; 4372
O-235-M1 (20°,118HP)	4372	4370; 4372
O-235-M2C (20°,118HP)	4372	4370; 4372
O-235-N2A (20°,116HP)	4372	4370; 4372
O-235-N2C (20°,116HP)	4381; 4372; 4371	4381; 4370; 4372; 4371
O-235-P1 (20°,116HP)	4372	4370; 4372
O-235-P2A (20°,116HP)	4372	4342
O-290-D (20°,125HP)	4373	4370; 4373
O-290-D2 (18°,135HP)	4372	4370; 4372
O-320-A1A (25°,150HP)	4371	4370; 4371
O-320-A1B (25°,150HP)	4373	4370; 4373
O-320-A2A (25°,150HP)	4373	4370; 4373
O-320-A2B (25°,150HP)	4373	4370; 4373; 4342
O-320-A2C (25°,150HP)	4347	4370
O-320-A2D (25°,150HP)	4371	4370; 4371
O-320-A3A (25°,150HP)	4373	4370; 4373
O-320-A3B (25°,150HP)	4373	4370; 4373
O-320-A3C (25°,150HP)	4347	4370
O-320-B1A (25°,160HP)	4347	4370; 4347
O-320-B1B (25°,160HP)	4373	4370; 4347
O-320-B2A (25°,160HP)	4373	4370; 4373
O-320-B2B (25°,160HP)	4373	4370; 4373
O-320-B2C (25°,160HP)	4347	4342
O-320-B2D (25°,160HP)	4347	4370
O-320-B3A (25°,160HP)	4373	4370; 4373
O-320-B3B (25°,160HP)	4373	4370; 4373
O-320-B3C (25°,160HP)	4347	4370
O-320-C1A (25°,150HP)	4373	4370; 4373
O-320-C1B (25°,150HP)	4373	4370; 4373
O-320-C2A (25°,150HP)	4373	4370

Continued on next column

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Lycoming continued from previous column		
O-320-C2B (25°,150HP)	4373	4370; 4373
O-320-C2C (25°,150HP)	4373	4370; 4373
O-320-C3A (25°,150HP)	4373	4370; 4373
O-320-C3B (25°,150HP)	4373	4370; 4373
O-320-C3C (25°,150HP)	4373	4370; 4373
O-320-D1A (25°,150HP)	4373	4370; 4373; 4342
O-320-D1A (25°,160HP)	4373	4370; 4373; 4342
O-320-D1C (25°,150HP)	4373	4370; 4373
O-320-D1C (25°,160HP)	4373	4370; 4373
O-320-D1D (25°,150HP)	4371	4370; 4371
O-320-D1D (25°,160HP)	4371	4370; 4371
O-320-D1F (25°,150HP)	4373	4370; 4373
O-320-D1F (25°,160HP)	4373	4370; 4373
O-320-D2A (25°,150HP)	4373	4370; 4373
O-320-D2A (25°,160HP)	4373	4370; 4373
O-320-D2B (25°,150HP)	4347	4370
O-320-D2B (25°,160HP)	4347	4370
O-320-D2C (25°,150HP)	4373	4370; 4373
O-320-D2C (25°,160HP)	4373	4370; 4373
O-320-D2F (25°,150HP)	4373	4370; 4373
O-320-D2F (25°,160HP)	4373	4370; 4373
O-320-D2G (25°,150HP)	4371	4370; 4371
O-320-D2G (25°,160HP)	4371	4370; 4371
O-320-D2H (25°,150HP)	4371	4370; 4371
O-320-D2H (25°,160HP)	4371	4370; 4371
O-320-D2J (25°,150HP)	4371	4371
O-320-D2J (25°,160HP)	4371	4371
O-320-D3G (25°,150HP)	4371	4370; 4371
O-320-D3G (25°,160HP)	4371	4370; 4371
O-320-E1A (25°,150HP)	4373	4370; 4373
O-320-E1C (25°,150HP)	4373	4370; 4373
O-320-E1F (25°,150HP)	4373	4370; 4373
O-320-E1J (25°,150HP)	4371	4370; 4371
O-320-E2A (25°,140HP)	4373	4370; 4373
O-320-E2A (25°,150HP)	4373	4370; 4373
O-320-E2B (25°,150HP)	4347	4370
O-320-E2C (25°,140HP)	4373	4370; 4373
O-320-E2C (25°,150HP)	4373	4370; 4373
O-320-E2D (25°,150HP)	4371	4370; 4371
O-320-E2F (25°,150HP)	4373	4370; 4373
O-320-E2G (25°,150HP)	4371	4370; 4371
O-320-E2H (25°,150HP)	4373	4370; 4373
O-320-E3D (25°,150HP)	4371	4370; 4371
O-320-E3H (25°,150HP)	4373	4370; 4373
O-360-A1A-nd (25°,180HP)	4373	4370; 4373
O-360-A1A-wd (25°,180HP)	4373	4370; 4373
O-360-A1D (25°,180HP)	4347	4370
O-360-A1F (25°,180HP)	4373	4353
O-360-A1F6 (25°,180HP)	4373	4370; 4373
O-360-A1G (25°,180HP)	4373	4370; 4373
O-360-A1G6 (25°,180HP)	4373	4370; 4373
O-360-A1H (25°,180HP)	4373	4370; 4373
O-360-A1H6 (25°,180HP)	4373	4370; 4373
O-360-A2A (25°,180HP)	4373	4370; 4373
O-360-A2D (25°,180HP)	4347	4342; 4370
O-360-A2F (25°,180HP)	4373	4370; 4373
O-360-A2G (25°,180HP)	4373	4370; 4373

Continued on next page

Champion Slick Magneto continued from previous page

Factory overhauled Magnetos are in stock and ready to ship!

NEW

Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Lycoming continued from previous page		
O-360-A2H (25°,180HP)	4371	4370; 4371
O-360-A3A (25°,180HP)	4373	4370; 4373
O-360-A4A (25°,180HP)	4373	4370; 4373
O-360-A4G (25°,180HP)	4373	4370; 4373
O-360-A4J (25°,180HP)	4373	4370; 4373
O-360-A4K (25°,180HP)	4371	4370; 4371
O-360-A4M (25°,180HP)	4371	4370; 4371
O-360-A4N (25°,180HP)	4371	4371
O-360-B1A (25°,168HP)	4371	4370; 4371
O-360-B2A (25°,168HP)	4373	4370; 4373
O-360-C1A (25°,180HP)	4373	4370; 4373
O-360-C1C (25°,180HP)	4347	4370
O-360-C1E (25°,180HP)	4371	4370; 4371
O-360-C1F (25°,180HP)	4371	4370; 4371
O-360-C1G (25°,180HP)	4373	4370; 4373
O-360-C2A (25°,180HP)	4373	4370; 4373
O-360-C2B (25°,180HP)	4371	4370; 4371
O-360-C2C (25°,180HP)	4347	4370
O-360-C2E (25°,180HP)	4371	4370; 4371
O-360-D1A (25°,168HP)	4371	4370; 4371
O-360-D2A (25°,168HP)	4373	4370; 4373
O-360-F1A6 (25°,180HP)	4371	4371
O-360-G1A6 (25°,180HP)	4371	4371
O-540-A1A (25°,250HP)	6355	6350; 6355
O-540-A1A5 (25°,250HP)	6355	6350; 6355
O-540-A1B5 (25°,250HP)	6355; 6393	6355; 6350
O-540-A1C5 (25°,250HP)	6355	6355
O-540-A1D (25°,250HP)	6393	6350
O-540-A1D5 (25°,250HP)	6393; 6355	6350; 6355
O-540-A2B (25°,250HP)	6355	6350; 6355
O-540-A3D5 (25°,250HP)	6393	6350
O-540-A4A5 (25°,250HP)	6355	6350; 6355
O-540-A4B5 (25°,250HP)	6355	6355
O-540-A4D5 (25°,250HP)	6393	6350
O-540-B1A5 (25°,235HP)	6393	6350
O-540-B2A5 (25°,235HP)	6393	6350
O-540-B2B5 (25°,235HP)	6355	6350; 6355
O-540-B2B5-wd (25°,235HP)	6355	6350; 6355
O-540-B2C5 (25°,235HP)	6351	6350; 6351
Continued on next column		



Engine Model (Degree°, HP)	Magneto	
	Left P/N	Right P/N
Lycoming continued from previous column		
O-540-B2C5-wd (25°,235HP)	6355	6350; 6355
O-540-B4B5 (25°,235HP)	6355	6350; 6355
O-540-B4B5-wd (25°,235HP)	6355	6350; 6355
O-540-D1A5 (25°,250HP)	6393	6350
O-540-E4A5 (25°,260HP)	6393	6350
O-540-E4B5 (25°,260HP)	6355	6350; 6355
O-540-E4B5-wd (25°,260HP)	6355	6350; 6355
O-540-E4C5 (25°,260HP)	6351; 6393	6371; 6350; 6351
O-540-F1B5 (25°,260HP)	6393	6390
O-540-G1A5 (25°,260HP)	6351	6350; 6351
O-540-G1A5-wd (25°,260HP)	6351	6350; 6351
O-540-G2A5 (25°,260HP)	6351	6350; 6351
O-540-G2A5-wd (25°,260HP)	6351	6350; 6351
O-540-H2A5 (25°,260HP)	6355	6350
O-540-J3A5 (23°,235HP)	6351	6350; 6351
TIO-540-A2B (20°,310HP)	6363	6360
TIO-540-A2C (20°,310HP)	6363	6360
TIO-540-AE2A (20°,350HP)	6361	6360
TIO-540-AF1A (20°,270HP)	6361	6360
TIO-540-AG1A (20°,270HP)	6361	6360
TIO-540-J2B (20°,350HP)	6363	6360
TIO-540-U2A (20°,350HP)	6360	6361
TIO-540-W2A (20°,350HP)	6361	6360
TIO-540-W2B (20°,350HP)	6360	6361

Champion Slick Magnetos

Quieter, smaller, and lighter!

Easier installation and maintenance

Core returns accepted



Sky-Tec Starters

Multiple series available for Lycoming and Continental engines

NEW

Lycoming Starters 1



E-Drive
- Highest duty cycle Lycoming starter available
- In-line design replaces most Bendix-drive legacy starters
- Kickback Protection System - self-resetting

NL Series
- Most popular in the Lycoming lineup
- In-line design replaces most Bendix-drive legacy starters
- Kickpack Protection System with field-repairable shear pin

XLT Series
- Lightest PMA-certified Lycoming stater
- Updated replacement for the LS

PM / LS Series
- Orignal FlyweightTM
- External left (LS) or right (PM) hand-mounted solenoid

HT Series
- High-torque motor
- Perfect for helicopter applications
- Kickback Protection System - self-resetting

1 Lycoming Note: Confirm teeth ring gear before making a selection. Note the "V" geometry between 122 tooth ring gear, and the "U geometry between 149 tooth ring gear. Always confirm and order the correct starter to match. See below.

Continental Starters



Powerlite Series
- Lightweight direct-drive motor
- Ball bearing design for low internal friction and heat
- Low back drive torque to protect starter adapter

PM Series
- High-torque direct-drive motor
- Fast spin helps prevent kickbacks
- Low back torque to protect starter adapter

Engergizer Style Series
- Heavy-duty direct motor
- Fast spring helps prevent kickbacks
- Low back torque to protect starter adapter

ST5 Series
- Gear-reduced motor for excellent starting torque
- Solenoid engagement to protect starter adapter

ST2 Series
- For use with all 4-cylinder Continentals
- Kickback Protection System - self-resetting

ST2 / S Series
- STC kit to convert to electric push-button start
- Includes ST2 starter

122 Tooth



Note the "V" geometry between teeth

149 Tooth

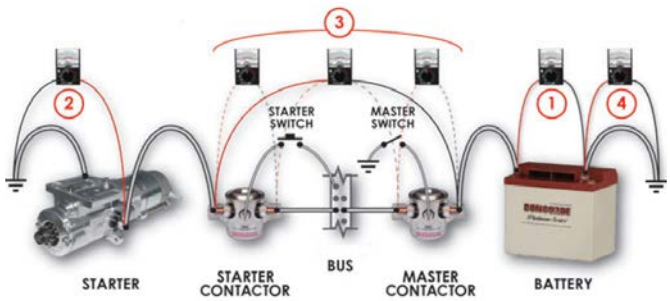


Note the "U" geometry between teeth

Performance issues:

1. Pretest Considerations: If possible, visually inspect the starter and/or interview pilots or operators for starting history. Indications of long cranking periods, burning odor or smoke from the starter, kickbacks, a cracked starter mount, a fast spinning starter with no prop movement, oil in starter, grinding noise, or a damaged ring gear are generally indications that the starter needs repair and the following tests will not be helpful. Jump to starter issues below for some guidance, but chances are you will need to replace or overhaul your starter.

2. Test Procedure: The following testing procedure is most relevant to 12/14 and 24/28 volt Lycoming starters and some Continental starters that are low performing including slow cranking and/or failure to crank the engine over a compression stroke. If a starter is damaged by over-cranking or a stuck starter solenoid, voltage in step one may read below acceptable levels, thus incorrectly indicating a potential battery problem. Therefore, in such cases some consideration must be to the pretest conditions noted above, e.g., if it smells burned. If the only effect of energizing the starter results in an audible "click" with no prop movement, confirm step two to isolate the problem to the starter or starter contactor.



Alternator Coupling Tool Kit

NEW

These tool kits include a zinc-coated coupling spanner wrench and unique coupling gear socket with steel housing and aluminum gear engagement, designed to protect the steel coupling gear from damage during maintenance. Together, these tools allow the coupling to be held in place (mounted on the alternator or free-standing) while the coupling gear slippage is checked with a calibrated 3/8" torque wrench (as specified in the engine maintenance manual). Torque wrench and alternator drive coupling is not included.



Tool Kit 1
P/N ADCKIT1
For Continental IO520/550 engines



Tool Kit 2
P/N ADCKIT2
For Continental C-75/85/90/115/125/145, E-165/185/225, O-200/300, IO240/360 engines

Tool Kit 2 includes an adapter to use on O-520/550 series engines!

Why should every mechanic have this tool kit?
The alternator drive coupling plays an important role in engines with direct-drive, gear-driven alternators. The coupling provides a shear point, protecting the engine from damage should the alternator fail. However, it is imperative that the coupling be installed properly and inspected every 500 hours or any time that the alternator is removed from the aircraft. This critical component has been the subject of several Service Bulletins (SBs) and Special Airworthiness Information Bulletins (SAIBs) because an out-of-tolerance or improperly installed coupling can lead to catastrophic engine failure. The lack of specialized tools to perform these tasks has made compliance difficult for many shops, increasing the risk that these critical inspections are not being performed in the field. In addition, alternator coupling slippage is a frequent cause of low alternator output. Without the tools to properly inspect the coupling, these failures are often misdiagnosed as a failure of the alternator, resulting in wasted time and money for both shops and owners.

Manufactured by Approach Aviation

Plane-Power Alternators

Certified and Experimental Alternators

NEW

Plane-Power

- Substantially higher power at lower engine RPMs
- Significantly less heat while producing rated power
- Rated power at typical aircraft cruise RPMs
- Vastly improved balancing drastically reduces bracket failure
- Greater reliability for significantly increased service life
- Weighs up to four pounds less!



AL Series
- Original Plane-Power alternator
- Modern, lightweight replacements for OEM alternators
- Comes with mounting hardware need to make switch from OEM alternators



Prestolite Style
- Refined and improved Prestolite design
- Widespread use on legacy OEM applications
- Many are PMA approved as identical, direct-fit replacements for the OEM part number



ES Series
- Provides customized solutions for OEM applications and new PMA approved alternatives to Ford, Chrysler, and CMI/Crittenden units
- OEM on a range of general aviation applications including piston, single engine turboprops, and single-engine light jets
- Lightweight/high power density ES Series alternators are seeing extensive use on UAV applications



ASG Series
- Originally developed by Aero Electric and are OEM on several Cessna applications
- PMA replacements for out-of-production 24V Ford alternators
- Several improvements over Ford alternators they replaced



C/E Series
- Modern, lightweight replacements for OEM alternators
- Direct drive for use on Continental engines

Plane-Power Alternators continued from previous page

Certified and Experimental Alternators continued

NEW

Part Number	Series	Voltage	Current Rating (Amps)	Drive
10-1050 1	AL	12	70	Belt
10-1050-1 2	AL	12	70	Belt
10-1050A 3	AL	12	60	Belt
10-1050C 4	AL	12	60	Belt
10-1051 5	AL	12	60	Belt
10-5050(HET) 6	AL	24	70	Belt
10-5050-1 7	AL	24	70	Belt
10-5050A 8	AL	24	60	Belt
10-5050B 9	AL	24	60	Belt
10-5050C 10	AL	24	60	Belt
AL12-70 11	AL	12	70	Belt
AL12-C60 11	AL	12	60	Belt
AL12-F60 11	AL	12	60	Belt
AL12-F60C 11	AL	12	60	Belt
AL12-P70 11	AL	12	70	Belt
AL24-70 11	AL	24	70	Belt
AL24-F60 11	AL	24	60	Belt
AL24-F60C 11	AL	24	60	Belt
AL24-FS60 11	AL	24	60	Belt
AL24-P70 11	AL	24	70	Belt
ALT-FLX-1	AL	28	150	Belt
ALT-FLX-3	AL	28	150	Belt
ALT-FLX-5	AL	28	150	Belt
ALT-FLX-7	AL	28	150	Belt
ALT-FLX-8	AL	28	150	Belt
ALT-FLX-9	AL	28	150	Belt
ASG10001-13-PMA	ASG	28	60	Belt
ASG10001-17-PMA	ASG	28	60	Belt
ASG10001-18-PMA	ASG	28	60	Belt
ASG12000-1-PMA	ASG	28	95	Belt
ASG12000-2-PMA	ASG	28	95	Belt
ASG12000-3-PMA	ASG	28	95	Belt
15-1014 12	C/E	14	50	Gear 14
C14-100	C/E	24	100	Gear 14
C14-100S 13	C/E	12	100	Gear 14
C28-150	C/E	24	150	Gear 14
C28-150S 13	C/E	28	150	Gear 14
ALV-9610	ES	24	100	Gear 14
ES-10024	ES	24	100	Gear 14
ES-10024B-2	ES	24	100	Belt
ES-10024B-6	ES	24	100	Belt
ES-4000	ES	15	60	Belt
ES-4001	ES	15	60	Gear 14
ES-4002	ES	15	80	Gear 14
ES-4003	ES	15	95	Belt
ES-4004	ES	28	38	Gear 14
ES-4006	ES	28	60	Gear 14
ES-4008	ES	28	70	Gear 14
ES-4009	ES	28	70	Belt
ES-4011	ES	28	90	Belt
ES-4011LS	ES	28	90	Belt 15
ES-4017	ES	15	90	Belt
ES-4019-1	ES	28	130	Belt
ES-4019-3LS	ES	28	130	Belt 15
ES-4019LS	ES	28	130	Belt 15
ES-4020	ES	14	60	Belt
ES-4024LP	ES	24	85	Belt 15
ES-4024LP-2	ES	24	85	Belt 15
ES-4024LP-3	ES	24	85	Belt 15
ES-4029	ES	28	70	Gear 14
ES-6012-6	ES	12	60	Belt

Continued on next column

Continued from previous column

Part Number	Series	Voltage	Current Rating (Amps)	Drive
ES-6024D	ES	24	60	Gear 14
ES-7024-14	ES	24	70	Belt
ALT-8520	Prestolite	24	50	Belt
ALT-8521	Prestolite	24	50	Belt
ALT-8521LS	Prestolite	24	50	Belt 15
ALT-9522	Prestolite	24	50	Gear 14
ALU-6521LS	Prestolite	24	70	Belt 15
ALU-6526	Prestolite	12	60	Belt
ALU-6539-3	Prestolite	24	75	Belt
ALU-6539-4	Prestolite	24	75	Belt
ALU-8521	Prestolite	24	70	Belt
ALU-8521LS	Prestolite	24	70	Belt 15
ALU-8532LS	Prestolite	28	75	Belt 15
ALX-6526	Prestolite	12	70	Belt
ALX-8521	Prestolite	12	70	Belt
ALX-8521LS	Prestolite	12	70	Belt 15
ALX-8523	Prestolite	12	70	Belt
ALX-9524	Prestolite	12	70	Gear 14
ALX-9525B	Prestolite	12	70	Gear 14
ALY-6520LS	Prestolite	12	60	Belt 15
ALY-6522	Prestolite	12	60	Belt
ALY-6527	Prestolite	12	60	Belt
ALY-8520	Prestolite	12	60	Belt
ALY-8520LS	Prestolite	12	60	Belt 15

Notes:

1 Alternator only for AL12-70,
AL12-P70 Kits - 3.75” x .75” single V-Belt
2 Alternator only for AL12-70,
AL12-P70 Kits - 3.75” x .50” single V-Belt
3 Alternator only for AL12-F60 Kit
4 Alternator only for AL12-F60C, SAL12-70C Kits
5 Alternator only for AL12-C60, SAL12-70, TAL12-70 Kits
6 Alternator only for AL24-P70, AL24-70 Kits
7 Alternator only for AL24-P70, AL24-70 Kits with Blast Tube
8 Alternator only for AL24-F60 Kit
9 Alternator only for AL24-FS60 Kit
10 Alternator only for AL24-F60C, TAL24-70C Kit
11 Kit includes mounting hardware
12 Alternator only for ER14-50 Kit
13 Without debris shield
14 Drive not included
15 Pulley not included

To find full aircraft eligibility, visit our website!
Scan the code to view our full application guide

Plane-Power

Plane-Power Alternators continued from previous page

Experimental Alternator Kits

Complete kits include all new brackets, spacers, mounting hardware, and belts

NEW



AL Kits

- High performance externally and internally regulated
- Belt-driven experimental installations



C/E Kits

- High performance internally regulated
- Gear-driven experimental small block Continentals



Fly Safe Kits

- High performance standby and/or primary
- Vacuum pad mounting on experimental aircraft

To find full aircraft eligibility, visit our website!

Scan the QR code

Part Number	Series	Voltage	Current Rating (Amps)	Drive	Voltage Regulation	Notes
AL12-EE70/B	AL	12	70	Belt	External	Boss Mount - Kit includes Regulator
AL12-EE70/C	AL	12	70	Belt	External	Case Mount - Kit includes Regulator
AL12-EI60/B	AL	12	60	Belt	Internal	Boss Mount
AL12-EI60/C	AL	12	60	Belt	Internal	Case Mount
AL12-EI60-L	AL	12	60	Belt	Internal	
AL12-EI70/B	AL	12	70	Belt	Internal	Boss Mount
AL12-EI70/C	AL	12	70	Belt	Internal	Case Mount
AL24-EE70/B	AL	24	70	Belt	External	Boss Mount
99-1012	AL	12	60	Belt	Internal	Alternator only for AL12-EI60 Kit
99-1006-1	AL	12	70	Belt	Internal	Alternator only for AL12-EI70 Kit
AL24-EE70/C	AL	24	70	Belt	External	Case Mount
EX14-50	C/E	15	50	Gear (Drive not included)	Internal	
C14-50	C/E	14	50	Gear (Drive not included)	Internal	
FS1-14	Fly Safe	13.6	30	Gear	Internal	Mounts on Standard CMI and Lycoming Vacuum Pump Accessory Pad
FS1-14B	Fly Safe	14.2	30	Gear	Internal	Mounts on Standard CMI and Lycoming Vacuum Pump Accessory Pad

Voltage Regulators

R1224 Series replaces Voltage Regulators on Ford, Electrodelta, Prestolite, Interav, Wico, and FVR

R1224B Series replaces Voltage Regulators on Twin Cessnas, Beechcraft, and Vulcanair

- Over-voltage protection
- Field short protection
- Reverse battery protection
- Precision load sharing for twin applications
- Alternator inoperative lamp
- Setup in the field for 14-volt or 28-volt

NEW



Part Number	Voltage	Mounting Holes
R1224 Series		
R1224S-14	14	6
R1224S-28	28	6
R1224B Series		
R1224S-14	14	6
R1224S-28	28	6



V-Belts

Replace your worn belt with a high-quality FAA-PMA approved McFarlane V-Belt

For Cessna, Piper, Lycoming, and Continental

Save $$$ with our REALISTIC prices!

Plane-Power Alternators continued from previous page

Generator to Alternator Conversion Kits

FAA-STC approved modern upgrade to obsolete, unsupported equipment with less weight and much better cut-in performance

NEW



SAL Kits

- Belt-driven generator to alternator conversion
- Replaces generator on single-engine aircraft with Continental or Lycoming engines
- 12/14-volt, 70 amp alternator
- Solid state Plane-Power voltage regulator



TAL Kits

- Belt-driven generator to alternator conversion
- Replaces generator on twin-engine aircraft with Continental or Lycoming engines
- (2) each 24/28-volt, 70 amp alternator
- (2) each solid state Plane-Power voltage regulators

To find full aircraft eligibility, visit our website!
Scan the code to view our full application guide



ER Kits

- Gear-driven generator to alternator conversion
- 12-volt, 50 amp alternator
- Solid state Plane-Power voltage regulator



ALT-FLX Kits

- Belt-driven generator to alternator conversion
- Replaces generator on aircraft with Continental or Lycoming engines
- 100 amps at 14 volts and unmatched power at idle
- Solid state Plane-Power voltage regulator



Jasco Kits

- Replaces generator on vintage aircraft
- 12-volt/50 amp and 24-volt/70 amp alternators
- Includes Jasco voltage regulator

P/N	Volt.	Current Rating (Amps)	Drive	Alternator	Alternator Series	Voltage Regulator
ALT-FLX-2	14	100	Belt	17-2000-2-FR	AL	R1224BS-12
ALT-FLX-4	14	100	Belt	17-2000-3-FR	AL	R1224BS-12
ALT-FLX-6	14	100	Belt	17-2000-3-FR	AL	R1224BS-12
TAL12-70	12	70	Belt	10-1051	AL	R1224S-12
TAL24-70	24	70	Belt	10-5051	AL	R1224S-12
TAL24-70C	24	70	Belt	10-5050C	AL	R1224S-12
SAL12-70	12	70	Belt	10-1051	AL	R1224S-12
SAL12-70C	12	70	Belt	10-1050C	AL	R1224S-12
ER14-50	12	50	Gear [1]	15-1014	C/E	R1224S-12
6555-1	12	50	Gear [1]	6555T	Jasco	J2M2OSP
7555-1	24	70	Gear [1]	7555T	Jasco	JI2M24SP
6560-1	12	50	Gear [1]	6560T	Jasco	JIM2O

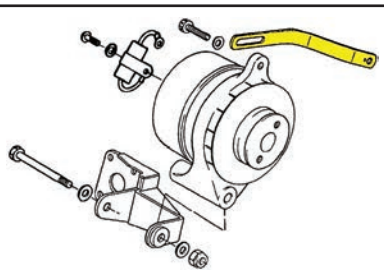
Notes:
[1] Drive not included

Alternator Adjust Arm

P/N AD0750221-1

- Direct replacement
- 1/4 of the cost of OEM
- FAA-PMA





Manufactured by F. Atlee Dodge

Model
180F,G,H,J,K
182Q,R, F182Q
185, 185A,B,C,D,E, A185E,F
206, U206, P206

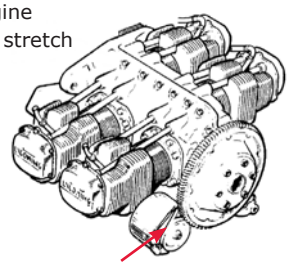
V-Belts for Lycoming & Continental Engines

Replace your old worn belt today with a high-quality McFarlane V-belt!

- FAA-PMA approved for specific engine
- Each lot is tested for strength and stretch
- Save $$$



V-Belts for Cessna and Piper aircraft on the following pages!



Alternator V-Belt

Lycoming Engines	Part Number
O-235-L2A, O-235-L2C	MC37A19773-376
O-320-E2D	
IO-360-L2A	
O-360-A1A, O-360-A1AD, O-360-A1D, O-360-A1F6, O-360-A1F6D, O-360-A1G6, O-360-A1LD	MCS1597-1-37.5
O-360-A2A, O-360-A2D, O-360-A2F, O-360-A2G	
O-360-A3A, O-360-A3AD	
O-360-A4A	
O-360-A5AD	
Continental Engines	**Part Number**
IO-470-C,D,E,F,G,H,J,K,L,N,P,R,S	MC539547-31.19
O-470-A,B,E,G,J,K,L,M,P,R,S	
IO-520-A,F	

V-Belts for Cessna and Piper Aircraft

Replace your old cracked belt today!

- FAA-PMA Approved for specific aircraft at a lower price!
- Save with our realistic prices
- Each lot tested for strength and stretch



V-Belts for Lycoming and Continental engines on the previous page!

Model	Serial Number	P/N	Notes
Cessna Aircraft			
152 [1]	15279406 thru 15285940	MCS1597-1-37.5 [3]	
A152 [1]	A1520735 thru A1521028	MCS1597-1-37.5 [3]	
F152 [1]	F15201429 thru F15201952	MCS1597-1-37.5 [3]	
FA152 [1]	FA1520337 thru FA1520387	MCS1597-1-37.5 [3]	
172I,J,K,L, M,N,P,Q	All	MCS1597-1-37.5 [3]	
172RG [1]	172RG0001 thru 172RG1178	MCS1597-1-37.5 [3]	
F172L,M,N,P	All	MCS1597-1-37.5 [3]	
177, 177A,B, 177RG, F177RG	All	MCS1597-1-37.5 [3]	
180F,G	All	MC539547-31.19 [2]	
180H	All	MCS2416-1-31.0 [3]	
180J,K [1]	18052385 thru 18052981	MCS2416-1-31.0 [3]	Used with 60 Amp, 14 and 28 Volt Alternators
182G [1]	18255101 thru 18255125	MCS2416-1-31.0 [3]	
182H,J,K,L,M, N,P,Q,R, F182P,Q	All	MCS2416-1-31.0 [3]	18262466 thru 18267715 and F18200026 thru F18200094; with or without O-470-R, O-470-S Engines
FR182, R182, TR182 [1]	FR18200001 thru FR1820070 R18200001 thru R18202032	MCS1597-1-37.5 [3]	Used with O-540-J3C5D Engine
T182	All	MCS1597-1-37.5 [3]	Used with 60 Amp Alternator on Lycoming O-540L3C5D Engine
		MCS1597-1-38.5 [3]	Used with 95 Amp Alternator on Lycoming O-540L3C5D Engine
185, 185A,B,C	All	MC539547-31.19 [2]	
185D,E, A185E,F	All	MCS2416-1-31.0 [3]	18502311 thru 18503619 with 60 Amp 14V and 28V Alternators; 18503260 thru 18504448 with 60 Amp 28 Volt Alternator
188,188A,B, A188,A188A,B, T188C	All	MCS2416-1-31.0 [3]	188-0001 thru 188-0572 with 60 Amp, 12, 14, and 28 Volt Alternators; 188-0573 thru 18802348 with 60 Amp, 14 and 28 Volt Alternators; 18802349 thru 18803973, T18803325T thru T18803974T used with 60 Amp, 14 and 28 Volt Alternators, and 95 Amp, 128 Volt Alternator
TU206F,G, U206F,G	All	MCS2416-1-31.0 [3]	U20604469 thru U20605919 with 60 Amp, 24 Volt Alternator; U20605920 thru U20607020 with 60 Amp, 24 Volt Alternator and 95 Amp Alternator
207, 207A, T207, T207A	All	MCS2416-1-31.0 [3]	
210E,F,G,H,J, T210F,G,H,J	All	MCS2416-1-31.0 [3]	
210K,L,M,N,R, T210K,L,M,N,R	All	MCS2416-1-31.0 [3]	21059200 thru 21064135 with 60 Amp, 12 and 24 Volt Alternators; 21064136 thru 21065009 with 60 Amp and 95 Amp Alternators
		MCN7365 [3]	21064536 thru 21064950 with Fwd Alternator of Dual Alternator Installation; 21064898 thru 21065009 with Aft Alternator of Dual Alternator Installation
P210N	All	MCS2416-1-31.0 [3]	
		MCN7365 [3]	P21000761 thru P21000834 with Fwd Alternator of Dual Alternator Installation
P210R [1]	P21000835 thru P21000867	MCN7365 [3]	For use with Fwd Alternator of Dual Alternator Installation

Model	Serial Number	Location	Alternator Assembly	OD	Width	Part Number
Piper Aircraft						
PA-28-140	28-7125472 thru 28-7725290 and 28-250001	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-28-151	All	Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-28-161	28-7716001 thru 28-7816000	Engine, Alternator Drive		33.00"	0.47"	MC73965-015
	28-7816001 thru 28-8616057 2816001 thru 2816119	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-28-180	28-7205092 thru 28-7505260 and 28-5663	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010

Notes:

[1] Partial model eligibility
[2] Location of use is Generator
[3] Location of use is Alternator

Eligibility continued on next page

V-Belts for Cessna and Piper Aircraft continued from previous page

Model	Serial Number	Location	Alternator Assembly	OD	Width	Part Number
Piper Aircraft continued						
PA-28-181	2843001 thru 2843999	A/C Compressor		40.55"	0.44"	MC73965-010
	2890001 thru 2890231 28-7690001 thru 28-8690062	Alternator	Kelly Aerospace AL Y6522	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Alternator	680-500 (ES4032), 02591-002 (Lycoming)	42.08"	0.41"	MC73965-020
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-28-236	2811001 thru 2811050	Alternator	Prestolite 99891-000	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-28-236	28-7911001 thru 28-8611008	Alternator	Prestolite 99891-000	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-28R-200	28R-7235001 thru 28R-7635545	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-28R-201	2837001 thru 2837061 28R-7737002 thru 28R-7837317	Alternator	Prestolite 99891-000, Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
	2844001 thru 2844999	Alternator	Prestolite 99891-000, Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-28R-201T	2803001 thru 2803012 28R-7703001 thru 28R-7803373	Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-28RT-201	28R-7918001 thru 28R-8218026	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-28RT-201T	2831001 thru 2831038	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
	28R-7931001 thru 28R-8631005	Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-32-300	32-7240056 thru 32-7940290, 32-40853	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-32-301	3206001 thru 3206060 32-8006002 thru 32-8606023	Alternator	Prestolite ALY-6421	37.50"	0.38"	MC73965-003
		Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-32-301T	32-8024001 thru 8424002	Alternator	60 A Prestolite or 90 A Ford	37.50"	0.38"	MC73965-003
		Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Alternator	87415-05 (Ford 90 amp, 690-019)	39.09"		MC73965-016
PA-32R-300	32R-7680001 thru 32R-7880068	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
PA-32R-301	3213001 thru 3213103 32R-8013001 thru 32R-8613006	Alternator	Prestolite ALY-6421	37.50"	0.38"	MC73965-003
		Alternator	Prestolite 99891-000	40.55"	0.28"	MC73965-009
	3246001 thru 3246087	A/C Compressor		40.55"	0.44"	MC73965-010
PA-32R-301T	3229001 thru 3229003 32R-8029001 thru 32R8629008	Alternator		37.50"	0.38"	MC73965-003
		Alternator	Prestolite 99891-000	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Alternator	87415-03 (Ford 90 amp)	39.09"	0.41"	MC73965-016
PA-32RT-300	32R-7885002 thru 32R-7985106	Alternator	Prestolite ALY-6421	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-32RT-300T	32R-7787001 thru 32R-7987126	Alternator	Prestolite ALY-6422	40.55"	0.28"	MC73965-009
		A/C Compressor		40.55"	0.44"	MC73965-010
		Engine, Alternator Drive	Chrysler	33.00"	0.47"	MC73965-015
PA-34-200	34-7250001 thru 34-7450220	Alternator	Prestolite ALY-6421	37.50"	0.38"	MC73965-003
PA-44-180	44-7995001 thru 44-8195026 and 4495001	Alternator	Prestolite ALY-6421, ALX 84 21 LS	37.50"	0.38"	MC73965-003
PA-44-180T	44-817001 thru 44-8207020	Alternator	Prestolite ALY-6421, ALX 84 21 LS	37.50"	0.38"	MC73965-003
PA-46-310P	4608001 thru 4608140 46-8408001 thru 46-8608067	Alternator	690-040 (Electrosystems ES4005-2)	35.00"	0.38"	MC73965-011
PA-46-350P (w/o G1000)	4622001 thru 4622200	Alternator	690-040 (Electrosystems ES4005-2)	35.00"	0.38"	MC73965-011
PA-46-500TP (w/ G1000)	4697002 thru 4697999	Alternator	602-300 (ES-4019-1)	22.08"	0.41"	MC73965-023
PA-46-500TP (w/o G1000)	4697001 thru 4697398	Alternator	602-300 (ES-4019-1)	22.08"	0.41"	MC73965-023

AeroGuard™ Air Filters

Greatly reduces contaminants and maximizes airflow

- Stops more than 99% of contaminants larger than 5 microns
- Less piston ring wear
- Air filters are cheap — engines are not!
- Cleans with air and soap water
- These are not a paper filter, no AD applies

One teaspoon of dirt ruins an engine!







McFarlane Air Filter Shroud Assembly now available *(see page 110)*

Aircraft Model	Part Number
Aeronca	
65-CA, S-65-CA	AA10-7150
Aeronca (Champion)	
7AC, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GCAA, 7GCBC, 7JC, 7KC, 7KCAB, S7AC, S7CCM, S7DC, S7EC	AA10-7150
Aviat	
A-1	AA10-7150
Beechcraft	
19A, 23, A23, A23-19, A23A, A24, B23	AA617058
35-33, 35-B33,C33, E33	AA13-0374
E33A, F33A, F33C, G33	
B35,C35,D35,E35,F35,G35,H35,J35,K35,M35, N35,P35	
S35,V35, V35A,V35B, V35TC	
35-C33A, 36, A36	
95-C55, C55A, D55, D55A	AA12-7996
E55, E55A, 58	AA12-7996
	AA12-8167
58P, 58TC	AA12-4439
Bellanca	
17-30A	AA10-6150
Britten-Norman (Pilatus)	
BN-2, BN-2A, BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21,BN-2A-27, BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27	AA10-6150
Cessna	
120, 140, 140A	AA10-7150
150, 150A,B,C,D,E,F,G,H,J,K,L,M	
A150K,L,M, F150G,H,J,K,L,M, FA150K,L	
152, A152, F152, FA152	
170, 170A,B	AA10-7172
172, 172A,B,C,D,E,F,G,H,I,K,L,M,N,P,Q	
172R,S	AA198281
F172D,E,F,G,H,K,L,M,N,P	AA10-7172
177, 177A,B,177RG	AA11-0172
180A,B,C,D,E,F,G,H,J,K	AA10-6150
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R,S,T, T182T	
182R,T	AA13-1367
T182T	AA10-6150
TR182	AA13-1367
182S	AA10-6150
	AA198290
F182P,Q	AA10-6150
185, 185A,B,C,D,E, A185E, A185F	
Champion/Aeronca	
7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	AA10-6150
Diamond	
DA 40F	AA10-7172
Ercoupe	
F-1, F-1A	AA10-7150
Ercoupe (Univair)	
A-2, A2-A	AA10-7150
Grumman	
AA-1, AA-1A, AA-1B, AA-1C	AA10-7150
AA-5B, AG-5B, GA-7 ***New!***	AA8994656
Luscombe	
8, 8A,8B,8C,8D,8E,8F, T-8F	AA10-7150

Continued in next column

Aircraft Model continued	Part Number
Maule	
M-4, M-4C,4S,4T, M-4-180C,S,T, M-4-220, M-4-220C,S,T	AA10-7172
M-180C, M-5-10C, 210TC, M-5-235C	
M-6-180, M-6-235	
M-7-235, MX-7-160,MX-7-180	
Mooney (Univair)	
M10	AA10-7150
Mooney	
M-18C, M-20, M20A,B,C,D,G	AA10-7172
Piper	
J-3, J3C-65,J3C-65S, J4A, J4A-S, J4E, J5A, J5A-80	AA10-7150 [1]
PA-11, PA-11S, PA-12, PA-12S, PA-16, PA-17	
PA-18, PA-18 "125", "135", "150", PA-18A, PA-18A "150", PA-18AS "125", "135", PA-18S, PA-18S "125", "150"	
P-19, PA-20, PA-20 "115", "135"	
PA-22	
PA-23-235	AA617058
PA-23-250	AA617058
	AA617774
PA-E23-250	AA617774
PA-24, PA-24-250,260	AA617058
PA-28-140,150,160,180,181,201T,235	
PA28R-180,200,201	AA617053
PA28R-201T, PA28RT-201, 201T	AA617053
	AA617058
PA-30	AA617053
PA-31, PA-31-300,325,350 ***New!***	AA10-6590
PA-32-260	AA617058
PA-32-300	AA617058
	AA617774
PA-32-301,301FT, PA-32R-300,301, PA32RT-300	AA617058
PA-32R-301,301T, PA-32-301XTC ***New!***	AA15-1936
PA-32RT-300T ***New!***	AA10-6590
PA-34-200	AA617053
PA-34-200T,220T	AA617058
PA-36-285,300,375	
PA-38-112	AA10-7150
PA-39, PA-44-180	AA617053
PA-46-310P,350P ***New!***	AA15-1936
Swift	
GC-1A,1B	AA10-7150
Taylorcraft	
19, F19,21,22,22A,22B,22C	AA10-7150
BC12-64, BC12-D1, BC12-D-4-85, BC12-D-85, BC-65, BCS12-D1, BCS12D-4-85, BCS12D-85, BCS-65, DC-65, DCO-65	
Van's RV	
RV-1,3,4,6,6A,7,7A,8,8A,9A ***New!***	AA10-3260 [2]
	AA10-3450 [3]
RV-10,12 ***New!***	AA10-3260 [2]

Notes:

[1] Verify your OEM part number before replacing the air filter. Some aircraft require a square filter, and others require a cylinder. The PMA supplement may differ than the original filter installed on the aircraft. P/N AA10-7150 is a square filter.

[2] Fits with FAB-320-1 airbox only

[3] Fits with FAB-360/540 airbox only

[4] Replaces Cessna P/N P198290 and CA3717. Serial numbers 18280001 thru 18280244, compliance with Cessna Service Bulletin SB98-71-02 is a prerequisite for installation

[5] Replaces Cessna P/N 0750038-4

[6] Replaces Cessna P/N C-294510-0901

Oil Filters

Save time and money!

- Strengthened can
- Increased burst strength
- Full pleat media designed for uniform flow and collapse resistance
- Spin EZ® lubricant for easy removal of the filter
- Better bypass valve



Aircraft	Engine Model	Part Number
Aerospatiale (SOCATA)		
TB9 Tampico	O-320-D2A	AA48110-2
TB10 Tobango	O-360-A1AD	AA48110-2
TB20 Trinidad	IO-540-C4D5D	AA48103-2
TB21 Trinidad TC	TIO-540-AB1AD	
TB-30	AEIO-540-L1B5D	AA48103-2
American General Aircraft		
AG5B Tiger	O-360-A4K	AA48110
Beech Debonair/Bonanza		
E33A, F33A,F33B,F33C	IO-520B	AA48109
G-33	IO-470N	AA48108-2
H-35	O-470	AA48108-2
J,K,M-35	IO-470C	AA48108-2
N,P-35	IO-470N	AA48108-2
S35, V35, V35A, V35B	IO-520	AA48109
S35	IO-520B	AA48109
V35TC, V35A-TC, V35B-TC	TSIO-520D	AA48109
V35,V35A,V35B, 36,A36	IO-520B	AA48109
A36TC, B36TC	TSIO-520-UB	AA48109
B36-550	IO-550	AA48109
C33A, E33A,E33C	IO-520B	AA48109
Beech Musketeer		
A23-19, 19A, B19 Sport	O-320	AA48110-2
A23,A23A	IO-346A	AA48109
B23, C23 Sundowner	O-360	AA48110-2
Beech Sierra		
24, A-24,A-24R, B-24R, C-24R	IO-360, L2A	AA48110-2
Beech Skipper		
77	O-235-L2C	AA48110-2
Beech Baron		
C55, D55, E55, 58	IO-520C	AA48109
56TC, A56TC	TIO-541-E	AA48104
58P, 58TC	TSIO-520-L,W,B	AA48108-2
58C, 550	IO-550	AA48109
Beech Duke		
60, A60, B60	TIO-541	AA48104
Beech Queen Air		
65, 70	IGSO-480	AA48111
80, 88, B80	IGSO-540	AA48111
Beech Travel Air		
95, B95	O-360	AA48110-2
B95A, D95A, E95	IO-360, L2A	AA48110-2
Beech Duchess		
76	O-360-A1G6D	AA48103-2
Beech Bellanca		
17-31A, 17-31ATC	IO-540-K	AA48110-2
17-31A Viking	IO-540-K	AA48110-2
17-31ATC Turbo	TIO-540	AA48110-2
Cessna (Single Engine)		
All Cessna aircraft modified under Cessna Service bulletin SEB-93-1 or MEB-93-1 require Tempest Oil Filter AA48108. The AA48109 may be used if clearance permits installation.		
150 A thru M	O-200	AA48108-2
F150 F thru M	O-200	AA48108-2
A150L	O-200	AA48108-2
FA150	O-200	AA48108-2
152	O-235-L2C, H2C	AA48110-2
172 A thru H	O-300	AA48108-2

Eligibility continues on the next column

Aircraft	Engine Model	Part Number
Cessna (Single Engine) continued from previous column		
All Cessna aircraft modified under Cessna Service bulletin SEB-93-1 or MEB-93-1 require Tempest Oil Filter AA48108. The AA48109 may be used if clearance permits installation.		
172 N	O-320-H2AD	AA48103-2
172 P	O-320-D2J	AA48111
FR172 E thru K	IO-360	AA48108-2
R172K	IO-360-K	AA48108-2
172R	IO-360-L2A	AA48110-2
172RG	O-360-F1A6	AA48110-2
172S	IO-360-L2A	AA48110-2
177	O-320	AA48110-2
177A, B	O-360-A1B6D	AA48103-2
177RG	IO-360-A1B6D	AA48103-2
180 A thru J	O-470	AA48108-2
180Q	O-470-U	AA48108-2
180, S/N 53087 and on	IO-470-U	AA48108-2
182 A thru P	O-470	AA48108-2
182Q, R	O-470-U	AA48108-2
182S	IO-540-AB1A5	AA48110-2
A182 K thru N	O-470	AA48108-2
182, S/N 67042 and on	O-470-U	AA48108-2
F182, S/N 00130 and on	O-470-U	AA48108-2
R182	O-540-J3C5D	AA48103-2
T182	O-540-L3C5D	AA48103-2
TR182, FTR182	O-540-L3C5D	AA48103-2
185 A thru D	IO-470, IO-520	AA48108-2
A185E, F	IO-470, IO-520	AA48108-2
185, S/N 03852 and on	IO-520	AA48108-2
188	O-470, IO-520	AA48108-2
188, S/N 03474 and on	IO-520-D	AA48109
T188, S/N 03474 and on	TSIO-520	AA48109
205A	IO-470	AA48108-2
206 A thru G	IO-520	AA48108-2
206H	IO-540-AC15A	AA48110-2
206, S/N 05030 and on	IO-520	AA48109
206, S/N 05030 and on	TSIO-520	AA48109
U206	IO-520	AA48108-2
T-206H	TIO-540-AJ1A	AA48110-2
TU-206	TSIO-520	AA48108-2
P206	IO-520	AA48108-2
TP-206	TSIO-520	AA48108-2
207	IO-520	AA48108-2
207, S/N 05227 and on	IO-520	AA48109
T207, S/N 05227 and on	TSIO-520	AA48109
T207	TSIO-520	AA48108-2
210	IO-470, IO-520	AA48108-2
210, S/N 63373-63375 and on	IO-520	AA48109
T210, S/N 63373-63375 and on	TSIO-520	AA48108-2
P210, S/N 278 and on	TSIO-520	AA48108-2
T210, P210, S/N 1-277	TSIO-520	AA48108-2
Cessna (Twin Engine)		
T303	TSIO-520-AE	AA48109
310-C thru Q	IO-470	AA48108-2
310-R	IO-520-M	AA48108-2
T310-P,Q,R	TSIO-520-B	AA48108-2
320-A	TSIO-470	AA48104

Eligibility continues on the next page

Oil Filters eligibility continued from previous page

Cessna (Twin Engine) continued from previous page		
Aircraft	**Engine Model**	**Part Number**
320-B,C	TSIO-470	AA48109
320-D,E,F	TSIO-520-B	AA48108-2
335	TSIO-520-EB	AA48109
336	IO-360	AA48108-2
337	IO-360	AA48108-2
P337,P337H	TSIO-360	AA48108-2
T337H	TSIO-360-H	AA48108-2
340	TSIO-520-K	AA48108-2
340A	TSIO-520-N,NB	AA48109
401/402	TSIO-520E	AA48108-2
402C	TSIO-520-VB	AA48109
404	GTSIO-520-M	AA48111
411, S/N OOO thru 0126	GTSIO-520-C	AA48104
411, S/N 0127 and on	GTSIO-520-C	AA48111
414,414A	TSIO-520-J,N	AA48108-2
421-A, B	GTSIO-520-D,H	AA48111
421-C, S/N 1017 thru 1404	GTSIO-520-L,N	AA48111
Cirrus		
SR20	IO-360ES	AA48108-2
SR22	IO-550N	AA48109
SR22T	TSIO-550-K	AA48109
Columbia/Lancair		
300, 350	IO-550N	AA48109
400	TSIO-550	AA48109
Diamond		
DA20-C1	IO-240	AA48108-2
DA40-180	IO-360	AA48110-2
Riley Conversion		
310	TIO-540-N2BD	AA48103-2
	LTIO-540-N2BD	AA48103-2
Gulfstream American (Single Engine)		
AA-1, 1A, 1B, 1B Trainer, TR	O-235	AA48110-2
A1C LYNX, T-CAT	O-235-L	AA48110-2
AA-5 Traveler	O-320-E	AA48110-2
AA-5A Cheetah	O-320-E	AA48110-2
AA-5B Tiger	O-360-A4K	AA48110-2
Cougar	O-320-D	AA48110-2
Commander (Single Engine)		
112,112-A	IO-360-C, L2A	AA48110-2
112-TC	TO-360-C1A6D	AA48110-2
114	IO-540-T4A5D	AA48110-2
Commander (Twin Engine)		
500-B,500-U	IO-540	AA48110-2
700	TIO-540-R2AD	AA48103-2
Helio		
HELIO 700	TIO-540-J2BD	AA48103-2
Maule		
M5-180-C, MX7-180	O-360-C, C1F	AA48110-2
M5-210-TC	TO-360-C1A6D	AA48103-2
M5-235-C, M6-235, M7-235	O-540-J1A5D	AA48103-2
MX-7-235	O-540-WIA5D	AA48103-2
Mooney		
M20	O-320	AA48110-2
M20-A, B, Mark 21	O-360	AA48110-2
M20-D Master	O-360	AA48110-2
M20-C Ranger	O-360	AA48110-2
M20-G Statesman	O-360	AA48110-2
M20-E Chaparral	IO-360,L2A	AA48110-2
M20-F Executive	IO-360,L2A	AA48110-2
M20-J-201	IO-360-A3B6D,L2A	AA48103-2
M20-K-231	TSIO-360-G,LB	AA48108-2

Eligibility continues on the next column

Aircraft/Mfg Model	Engine Model	Part Number
Mooney continued from previous column		
M20-M-TLS	TIO-540-AFIA,B	AA48110-2
M20-R	IO-550	AA48108-2
M22 Mustang	TIO-541	AA48110-2
M20-K-252 TSE	TSIO-360-MB1	AA48108-2
Piper Cub		
PA-18-150	O-320	AA48110-2
Piper Tri-Pacer		
PA-22-150	O-320	AA48110-2
PA-22-160	O-320	AA48110-2
Piper Commanche		
PA-24-180	O-360	AA48110-2
PA-24-250	O-540, IO-540	AA48110-2
PA-24-B, PA-24-C-260	O-540, IO-540	AA48110-2
PA-24 Turbo 260	IO-540	AA48110-2
Piper Commanche (Twin)		
PA-30-160 Turbo	IO-320	AA48110-2
PA-39-160	IO-320	AA48110-2
PA-39-160 Turbo	IO-320	AA48110-2
Piper Pawnee		
PA-25-150	O-320	AA48110-2
PA-25-260	O-540	AA48110-2
PA-36-375 Brave	IO-720-D1C	AA48110-2
PA-36-400 Brave	IO-720-DICD	AA48104
Piper Cherokee, Cadet		
PA-28-140	O-320	AA48110-2
PA-28-150	O-320	AA48110-2
PA-28-160, 161	O-320	AA48110-2
PA-28-180	O-360	AA48110-2
PA-28-180, 181	O-360-A4M	AA48110-2
PA-28-235	O-540	AA48110-2
PA-28-151	O-320	AA48110-2
Piper Cherokee Six		
PA-32-260	O-540	AA48110-2
PA-32-300	IO-540	AA48110-2
PA-32R-300	IO-540-K1AD	AA48103-2
PA-32R-300	TIO-540-S1AD	AA48103-2
PA-32RT-300T	TIO-540-S1AD	AA48103-2
PA-32-301	IO-540-K1G5D	AA48103-2
PA-32-301	TIO-540-S1AD	AA48103-2
PA-32R-301	IO-540-K1G5D	AA48103-2
PA-32R-301	TIO-540-S1AD	AA48103-2
Piper Arrow		
PA-28R-180	IO-360, L2A	AA48110-2
PA-28R-180	IO-360-C1CD,L2A	AA48103-2
PA-28R-200 Arrow II	IO-360, L2A	AA48110-2
PA-28R-200 Turbo Arrow III	TSIO-360	AA48108-2
PA-28R-201T	TSIO-360-F1	AA48108-2
Piper Dakota		
PA-28-235	O-540-J3A5D	AA48103-2
PA-28-201T	TSIO-360-FB	AA48108-2
Piper Tomahawk		
Trainer PA-38-112	O-235-L2C	AA48103-2
Piper Malibu		
PA-46-301-P	O-235-L2C	AA48109
Piper Malibu Mirage		
PA-46-350-P	TIO-540-AE2A	AA48103-2
Piper Apache		
PA-23-150	O-320	AA48110-2
PA-23-160	O-320	AA48110-2
PA-23-235	O-540	AA48110-2

Eligibility continues on the next page

Oil Filters eligibility continued from previous page

Continued from previous page		
Aircraft/Mfg Model	**Engine Model**	**Part Number**
Piper Aztec		
PA-23-250	O-540	AA48110-2
C-PA-23	IO-540	AA48110-2
PA-23-250 Turbo C,D,E,F	IO-540	AA48110-2
PA-23-250 Turbo	TIO-540	AA48110-2
Piper Navajo		
PA-31-300	IO-540	AA48110-2
PA-31-310 Turbo	TIO-540	AA48110-2
PA-31-325	TIO-540-F2BD	AA48103-2
PA-31-350 Chieftain	TIO-540-J2BD	AA48103-2
PA-31P-425	TIGO-541	AA48104
PA-31P-350 Mojave	TIO-540-V2AD	AA48104
Eligibility continues on the next column		

Continued from previous column		
Aircraft/Mfg Model	**Engine Model**	**Part Number**
Piper Seneca		
PA-34	IO-360-C	AA48110-2
PA-34-200T Seneca II	TSIO-360-E	AA48108-2
PA-34-220T Seneca III	TSIO-360-KB	AA48108-2
Piper Aerostar		
PA-60-600,600A	IO-540-G,K	AA48110-2
PA-60-604, 601B	IO-540-P,S	AA48110-2
PA-60-601P	IO-540-S	AA48110-2
PA-60-602P	IO-540-AA1A5	AA48110-2
Piper Seminole		
PA-44-180	O-360-E1AD	AA48103-2
PA-44-180T	TO-360-E1A6D	AA48103-2

EZ Drain Tool

P/N AA473

Saves time, prevents drips and spills, and makes cleanup easy!

Oil change is as easy as 1... 2... 3

1. Slip EZ Drain around filter and secure by turning the butterfly knob until tight against the filter. Ensure that Easy Drain is located at the lowest part of the oil filter can (to allow maximum drainage).
2. Attach host to the bottom of t-handle and then twist the t-handle to puncture the filter. Back the t-handle out to original position to allow the oil to drain.
3. Drain oil into pan. This process will take awhile. Oil drains slowly, no matter the temperature, because the media pack is saturated with oil.





Works on horizontally or vertically mounted oil filters!

Torque Wrench

P/N AA472

Easy installation or removal of all aviation oil filters



EZ Wrench Extension

P/N AA474

Install the oil filter nut with ease using this extension



Can Cutter

P/N AA470

Can be used on all aircraft oil filters!
Lightweight and durable



Replacement cutter blades: P/N AA004A

Media Cutter

P/N AA471

An efficient and safe way to cut the media pack open and spread the pleats during inspection!



AeroShell Aircraft Engine Oil

McFarlane has the lowest cost on engine oil!
All oil is sold in 6 quarts per case, except
Sport Plus 4 (sold in individual liters)



Engine oil is priced at COST!

Choosing the Right Grade of Oil	
Oil Type	**Part Number**
Straight Grade Mineral Oil • Aids engine break-in • Prevents cylinders glazing • Clean burning	AEROSHELL 80 AEROSHELL100
Single Grade Ashless • Improved performance • Reduce maintenance costs • Reduce oil consumption	AEROSHELL W80 AEROSHELL W100 AEROSHELL W120
Single Grade Ashless Plus • Prolonged engine life • Advanced additive for cam protection and rust and corrosion protection	AEROSHELL W80 PLUS AEROSHELL W100 PLUS
Multigrade Sport Plus • Developed for light sport planes • Can be used in any climate • Advanced additive for full performance with different fuel types	AEROSHELL SPORT PLUS 4
Multigrade Ashless • High performance in all seasons • Reduced oil and fuel consumption • Advanced additive for cam protection and rust and corrosion protection	AEROSHELL W15W-50

Save $$$ with Multigrade and Plus Oils!

AeroShell single grade plus and multigrade oils comply with AD 80-04-03 and DO NOT require adding the **expensive** Lycoming LW16702 additive.
This ***saves you over $50.00*** during oil change!

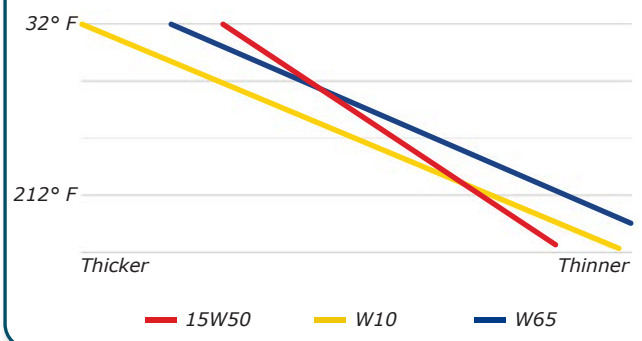
Comparison example:

AeroShell W80 Plus = $48.02	**AeroShell 80** = $43.12
(already contains additive)	LW16702 additive = $60.00
Total cost = $48.02	**Total cost = $103.12**

AeroShell Plus Oil saves you over $50.00!

**Pricing as of 6/1/2022*

Single Grade vs. Multigrade Viscosity



Phillips Aircraft Engine Oil

P/N PHILLIPS XC 20W50
P/N PHILLIPS VICTORY 20W50 *(pre-blended with Lycoming-approved anti-wear additive)*
Ashless dispersant, multi-grade engine oil for piston engines

- Aids engine break-in
- High performance in all seasons
- Save $$$
- Sold in 12 quarts per case

All engine oil is priced at COST!
We want to keep you flying!



NEW! CamGuard™ Aviation Advanced Oil Supplement

P/N CAMGUARD AVIATION 16 OZ and **P/N CAMGUARD AVIATION GAL**
FAA accepted! The only lubricant to undergo certification testing in the extremes of aerobatic use

- Provides maximum engine protection with blends of high performance additives
- Prevents rust and corrosion with multi-metal corrosion inhibitors
- Dramatically reduces the wear of cams, lifters, cylinders, rings, gears, and valve guides
- Prevents varnish and carbon deposits throughout engine with ashless deposit control additives
- Prevents oil weeping and keep seals supple, flexible, and performing like new with seal conditioners

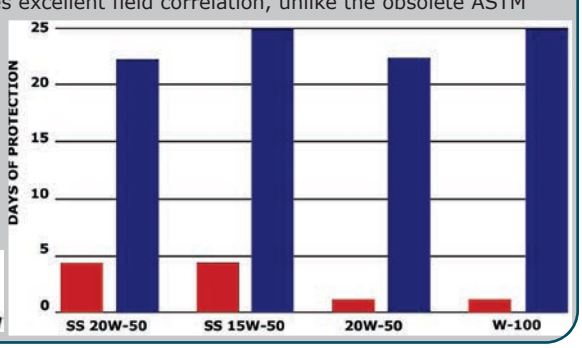


Available in pint and gallon!

Increased Corrosion Protection with CamGuard

Four of the top selling piston oils were tested for corrosion resistance with and without CamGuard. Testing was performed using the DIN 50017 humidity cabinet test. The DIN 50017 method demonstrates excellent field correlation, unlike the obsolete ASTM 1748 humidity cabinet test.

The graph shows the average number of days until failure (defined as the observation of three 1mm spots of rust on the steel test panels). The red bars represent the untreated oils. The blue bars represent the corresponding oils with the addition of 5% CamGuard. All the oils show a remarkable improvement with the addition of CamGuard.





These are pistons from two different Lycoming IO-540 aircraft engines. The left piston is from an FAA certification engine using CamGuard for 500 hrs. The testing was in an aerobatic aircraft that used very high power settings resulting in extremely high temperatures. The piston on the right was taken from a non-aerobatic aircraft engine that was flown at typical cruise settings, without CamGuard, for 500 hrs. **The difference in deposits is striking.**

Pneumatic Filters

FAA-PMA approved

- Uses 0.3-micron filtration elements for superior protection against outside contaminants
- Keeps your system clean and improves the pneumatic system performance
- Save $$$



For full aircraft eligibility, enter your aircraft model on our website. Scan this code for direct access!

.../products/category/firewall-forward-pneumatic-system-filters/

High Flow Fittings

Specially designed to reduce pressure drop!

- Improved pneumatic system performance
- Manufactured with light-weight thin wall steel tubing
- Smooth tube bends allow air flow through the fitting
- Straight fittings, or fittings with bends from 45-160° are available



P/N	Description	Angle	Aircraft used in
AA1K1-4-6	¼ NPT x ⅜ Hose	90°	
AA1K1-4-8	¼ NPT x ½ Hose	90°	
AA1K1-6-8	⅜ NPT x ½ Hose	90°	Piper
AA1K1-6-10	⅜ NPT x ⅝ Hose	90°	Cessna, Maule, Piper, Beech
AA1K1-8-10	½ NPT x ⅝ Hose	90°	Beech
AA1K1-8-12	½ NPT x ¾ Hose	90°	
AA1K8-6-8	⅜ NPT x ½ Hose	52°	Piper
AA1K8-6-10	⅜ NPT x ⅝ Hose	52°	Cirrus
AA1K9-4-6	¼ NPT x ⅜ Hose	60°	Cessna
AA1K9-6-10	⅜ NPT x ⅝ Hose	45°	Cessna, Cirrus, Beech
AA1K9-8-10	½ NPT x ⅝ Hose	45°	
AA1K9-8-12	½ NPT x ¾ Hose	45°	
AA1K10-2-4	⅛ NPT x ¼ Hose	Straight	
AA1K22-10-10	⅝ x ⅝ Hose Bulkhead	Straight	Piper
AA1K43-10-10	⅝ x ⅝ Hose Bulkhead	90°	Mooney, Piper

Instrument Air Filter

P/N AA103535IA
Replaces Cessna P/N C294501-0302

P/N AA103435IA
Replaces Cessna P/N C294501-0301



Pneumatic Garter Filter

P/N ARB3-5-1
FAA-PMA approved for Cessna, Beech, Mooney, Piper, Grumman, and more!

- Superior protection against outside contaminants
- Maintains clean pneumatic system
- Protects your vacuum pump



Pneumatic Valves

Improved FAA-PMA new or overhauled assemblies!

- Save $$$
- Lightweight and high performing
- Accurately controls the air pressures in your pneumatic system



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Flow Divider and Nozzles

Available separately or in kits

- Save $$$ with the full kits
- In stock, ready to ship
- Return your nozzles for core credit



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Fuel Servos

FAA-PMA fuel injection systems for certified and experimental aircraft

- Peak performance
- Dynamically tested to verify fuel flow from idle to full throttle



For full aircraft eligibility, scan this code!

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Vacuum Pump Cooling Kits

P/N KIT #10
P/N KIT #11
P/N KIT #20

Increase the life of your vacuum pump!

- Keeps cooler air flowing around the pump housing
- Powered by ram air forward of the engine baffle
- Easy installation, minimal tools and RTV silicone adhesive required
- FAA-PMA STC approved



P/N Kit #10



P/N Kit #11



P/N Kit #20

Component List for Vacuum Pump Cooling Kits			
P/N	**Qty**	**Part Number**	**Description**
KIT #10	1	2CDH	Cooling Shroud (3.96" O.D.)
	1	2CDH-1	Flange 1"
	13 - 14"	2CDH-2	1" ID SCAT Aeroduct Ducting
	2	2CDH-3	Cable Ties
	4	AN526-632R8	Screws
	4	AN365-632	Nuts
	4	AN960-6	Washers
KIT #11	1	4ADH	Cooling Shroud (3.96" O.D. Modified)
	1	2CDH-1	Flange
	17 - 18"	2CDH-2	1" ID SCAT Aeroduct Ducting
	2	2CDH-3	Cable Ties
	4	AN526-632R8	Screws
	4	AN365-632	Nuts
	4	AN960-6	Washers
KIT #20	1	6ADH	Cooling Shroud (4.20" O.D.)
	1	6CDH-1	Flange
	17 - 18"	6CDH-2	1.25" ID SCAT Aeroduct Ducting
	2	2CDH-3	Cable Ties
	4	AN526-632R8	Screws
	4	AN365-632	Nuts
	4	AN960-6	Washers



Aircraft	KIT #10 [1]	KIT #11 [2]	KIT #20 [3]
Beechcraft			
F33A, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	•	•	•
Cessna			
152, A152	•		
172K,L,M,N,P,Q	•		
182G,H,J,K,L,M,N,P,Q, R182, TR182, T182	•		
206, U206, U206A,B,C,D,E,F,G, TU206A,B,C,D,E,F,G	•		
P206A,B,C,D,E, TP206A,B,C,D,E	•		
210L,M,N,R, P210N,R, T210L,M,N	•	•	•
310P,Q,R, T310P,Q,R	•	•	•
Piper			
PA-28-140,150,151,160, S-160,161, S-180,181,235,236,201T	•		
PA-28R-180, R-200, R-201, R-201T, RT-201, RT-201T	•		
PA-32-260,300,301, S-300,R-300,R-301,RT-300	•	•	•
PA-34-200T, 220T	•	•	•
Mooney			
M20E,F,J,K	•	•	•

[1] KIT #10 for Airborne model 200 thru 212CW, CC Dry Air Pumps, Tempest models AA3215CC and AA3216CW Dry Air Pumps
[2] KIT #11 for EDO-AIRE model 1U128, 1U12BA and 1U128B and Sigma Tek model 1U128B Dry Air Pumps
[3] KIT #20 for Airborne model 400-Series Dry Air Pumps and Tempest AA441CC and A442CW

Vacuum Pump Wrench

Get into those really tight spots!

P/N TOOL133 (use for small pumps)

P/N TOOL133-L (use for large pumps)

- Heat treated tool steel
- 1/4" square drive
- Torque wrench friendly



Precision made!



Dry Air Pumps

New and overhauled FAA-PMA assemblies

- Smooth temperature compensation
- Low friction
- Increased service life
- Wear resistant
- Durable and lightweight



TEMPEST Excellence

Know where you're at with the built-in vane wear indicator!

Aircraft		Engine	Dry Air Pumps New P/N	Dry Air Pumps Overhauled P/N
Aero Commander / Gulfstream / Rockwell				
500		Lyc. O-540-A	AA3215CC	215CC-OH SERIES
500-A		Cont. IO-470-M	AA3216CW	216CW-OH SERIES
500-B, -U		Lyc. IO-540-B,-E	AA3215CC	215CC-OH SERIES
500-S		Lyc. IO-540-E	AA3215CC	216CW-OH SERIES
520		Lyc. GO-435-C	AA3216CW	216CW-OH SERIES
700 Non Deice & Deice		Lyc. TIO-540-R		241CC-OH SERIES
Aerostar / Ted Smith Aerostar / Piper Aerostar				
360, 400		Lyc. O-360-D,-E	AA3215CC	215CC-OH SERIES
PA-60-600, -601 Aerostar	Non Deice 003 thru 0925 except 0750	Lyc. IO-540-G,-P	AA243CC-13	243CC-13OH SERIES
	Deice 003 thru 0925 except 0750 w/o Auto Timer	Lyc. IO-540-G,-P	AA441CC-17	441CC-17OH SERIES
PA-60-601P	Non Deice 0153 thru 0925 except 0750	Lyc. IO-540-G,-P	AA441CC-17	441CC-17OH SERIES
	Deice 0153 thru 0925 except 0750 w/Auto Timer	Lyc. IO-540-P,-A	AA243CC-13	243CC-13OH SERIES
	Deice 0153 thru 0925 except 0750 w/o Auto Timer	Lyc. IO-540-P,-A	AA441CC-17	441CC-17OH SERIES
PA-60-602P	Non Deice 0750, 0861 thru 0932, 60-8265001 thru 60-8365021	Lyc. IO-540-P,-A	AA243CC-13	243CC-13OH SERIES
	Non Deice 0750, 0861 thru 0932, 60-8265001thru 60-8365021 w/ or w/o Auto timer		AA441CC-17	441CC-17OH SERIES
PA-60-700P	Non Deice 60-8423001 and up	Lyc. TIO-540-U	AA441CC-17 RH AA442CW-20 LH	441CC-17OH SERIES 442CW-20OH SERIES
	Deice 60-8423001 and up w/ or w/o Auto Timer	Lyc. LTIO-540-U		
Aviat Aircraft				
A1C-160		Lyc. O-320-D2A	AA3215CC	215CC-OH SERIES
A1C-180		Lyc. O-320-A1P		
A1C-200		Lyc. O-320-A1D6		
Beechcraft				
19 and 19A	MB1 thru MB480	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
B19 Musketeer Sport 150	MB481 thru MB865	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
23 Musketeer	M1 thru M554	Lyc. O-320-D	AA3215CC	215CC-OH SERIES
A23 and A23A	M555 thru M1094	Cont. IO-346-A	AA3216CW	216CW-OH SERIES
A23-24	MA1 thru MA363	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
B23	M1095 thru M1284	Lyc. O-360-B	AA3215CC	215CC-OH SERIES
C23 Sundowner	M1285-M1979 except M1971	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
	M1971, M1980-M2290 w/ Comfort Pack			
	M1971, M1980-M2290 w/o Comfort Pack			
	M2291 and up			
24, A24	MA1 thru MA368	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
A24R, B24R	MC2 thru MC451 except MC449	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
C24R	MC449, MC452 thru MC536 except MC533	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
	MC533, MC537 thru MC739 w/ or w/o Comfort Pack			
	MC740 and up			
35-33, 35A33, 35B33	w/ Conversion Kit	Cont. IO-470-J,K	AA3216CW	216CW-OH SERIES
35-C33, 35-C33A	CD826 thru CD1118, CE1 thru CE179 except CD982	Cont. IO-470	AA3216CW	216CW-OH SERIES
	CE1 thru CE179 except CD892 w/Conversion Kit		AA244CW	244CW-OH SERIES

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Dry Air Pumps continued from previous page



Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Beechcraft continued				
C33, C33A	CD826 thru CD1118, CE1 thru CE179 except CD982	Cont. IO-470-J	AA3216CW	216CW-OH SERIES
E33	CD1119 thru CD1234, CE180 thru CE289	Cont. IO-470-K	AA3216CW	216CW-OH SERIES
E33A	CD1119 thru CD1234, CE180 thru CE289	Cont. IO-520-B	AA3216CW	216CW-OH SERIES
E33C, F33	CD1235 thru CD1254	Cont. IO-470-K, IO550	AA3216CW	216CW-OH SERIES
F33A	CE290 thru CE631	Cont. IO-520-B,-BA,-BB, IO550	AA244CW AA442CW	244CW-OH SERIES 442CW-OH SERIES
	CE632 thru CE1439, CE1441 thru CE1456		AA3216CW, AA442CW	216CW-OH SERIES 442CW-OH SERIES
	CE1440, CE1457 and up, CE1056 thru CE1457 and up w/ Standby		AA3216CW	216CW-OH SERIES
F33C	CJ26 thru CJ179	Cont. IO-520-B,-BA,-BB, IO550	AA244CW	216CW-OH SERIES
			AA442CW	442CW-OH SERIES
	CJ180 and up, CJ156 thru CJ180 and up w/Standby System		AA3216CW	216CW-OH SERIES
G33	CD1255 thru CD1304	Cont. IO-470-N	AA3216CW	216CW-OH SERIES
35, A35	w/Conversion Kit	Cont. E-185-1	AA3216CW	216CW-OH SERIES
B35, 35R	w/Conversion Kit	Cont. E-185-8	AA3216CW	216CW-OH SERIES
C35, D35, E35, F35	w/Conversion Kit	Cont. E-185-11	AA3216CW	216CW-OH SERIES
G35	w/Conversion Kit	Cont. E-225-8	AA3216CW	216CW-OH SERIES
H35	w/Conversion Kit	Cont. IO-470-G	AA3216CW	216CW-OH SERIES
J35, K35, M35	w/Conversion Kit	Cont. IO-470-C	AA3216CW	216CW-OH SERIES
N35, P35	w/Conversion Kit	Cont. IO-470-N	AA3216CW	216CW-OH SERIES
S35	D7310 thru D7976	Cont. IO-520-B,-BA	AA3216CW	216CW-OH SERIES
V35		Cont. IO-520-B,-BA	AA3216CW	216CW-OH SERIES
			AA244CW	244CW-OH SERIES
V35A, V35A-TC	D7977 thru D9068	Cont. IO-520-B,-BA,-BB, TSIO-520	AA3216CW	216CW-OH SERIES
V35B, V35B-TC	D9069 thru D9855	Cont. IO-520-B,-BA,-BB	AA244CW	244CW-OH SERIES
	D9858 and up		AA3216CW	216CW-OH SERIES
			AA442CW	442CW-OH SERIES
36, A36	E1 thru E196 except E184	Cont. IO-520-B,-BA,-BB, IO-550	AA3216CW	216CW-OH SERIES
			AA244CW	244CW-OH SERIES
	E184, E197, E203 thru E451		AA244CW	244CW-OH SERIES
			AA442CW	442CW-OH SERIES
	E452 thru E2179		AA244CW	244CW-OH SERIES
			AA442CW	442CW-OH SERIES
	E2180 and up w/ Standby System		AA3216CW	216CW-OH SERIES
A36TC, B36TC	EA1 thru EA502, EA504 w/ Standby System	Cont. TSIO-520-U, IO-550	AA3216CW	216CW-OH SERIES
			AA442CW	442CW-OH SERIES
	EA503, EA505 and up w/ Standby System	Cont. TSIO-520-U, IO-550	AA3216CW	216CW-OH SERIES
45 (YT-34)		Cont. E-225-8	AA3216CW	216CW-OH SERIES
A45 (T-34A), B-45, D45 (T-34B)		Cont. O-470	AA3216CW	216CW-OH SERIES
50, B50		Lyc. GO-435-C	AA3216CW	216CW-OH SERIES
G50, H50		Lyc. IGSO-480-A	AA442CW	442CW-OH SERIES
95-55, 95-A55		Cont. IO-470-L	AA3216CW	216CW-OH SERIES
			AA442CW	442CW-OH SERIES
95-B55 Non Deice	TC1608 - TC2002	Cont. IO-470-L	AA3216CW	216CW-OH SERIES
	TC2003 - TC2075		AA442CW-12	442CW-12OH SERIES
	TC2076 and up		AA3216CW	216CW-OH SERIES
			AA442CW-14	442CW-14OH SERIES
95-B55 Deice	TC2003 and up	Cont. IO-470-L	AA442CW-14	442CW-14OH SERIES
95-B55A		Cont. IO-470-L	AA442CW	442CW-OH SERIES
95-C55, 95-C55A		Cont. IO-520-C	AA244CW	244CW-OH SERIES
			AA442CW-12	442CW-12OH SERIES
D55	Non Deice TE452 Thru TE767	Cont. IO-520-C,-CB	AA244CW	244CW-OH SERIES
			AA442CW-12	442CW-12OH SERIES
	Deice TE452 Thru TE767		AA442CW-12	442CW-12OH SERIES
D55A	Non Deice	Cont. IO-520-C,-CB	AA3216CW	216CW-OH SERIES
	Deice		AA244CW	244CW-OH SERIES

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Dry Air Pumps continued from previous page

Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Beechcraft continued				
E55 Non Deice	TE768 - TE937, TE939 - TE942	Cont. IO-520-C,-CB	AA244CW	244CW-OH SERIES
			AA442CW-12	442CW-12OH SERIES
	TE938, TE943 - TE1114 and Up		AA244CW	244CW-OH SERIES
			AA442CW-14	442CW-14OH SERIES
E55 Deice	TE768 - TE942 except TE938	Cont. IO-520-C,-CB	AA442CW-12	442CW-12OH SERIES
	TE938, TE943 - TE1075 and Up		AA442CW-14	442CW-14OH SERIES
55A	Non Deice	Cont. IO-520-C,-CB	AA3216CW AA244CW	216CW-OH SERIES 244CW-OH SERIES
56TC Non Deice	TC1 thru TG83	Lyc. TIO-541-E	AA244CW	244CW-OH SERIES
	TG84 thru TG94		AA442CW	442CW-OH SERIES
56TC Deice	TG52 thru TG94	Lyc. TIO-541-E	AA442CW	442CW-OH SERIES
58 Non Deice	TH1 thru TH873	Cont. IO-520-C	AA244CW	244CW-OH SERIES
	TH874 and up		AA442CW-12	442CW-12OH SERIES
58 Deice	TH1 thru TH852 and Up, except TH1389	Cont. IO-520-C	AA442CW-12	442CW-12OH SERIES
			AA442CW-14	442CW-14OH SERIES
58P Non Deice	TJ3 thru TJ123 and Up	Cont. TSIO-520-L,-LB	AA244CW-4	244CW-4OH SERIES
58P Deice	TJ3 thru TJ96 and Up		AA442CW-4	442CW-4OH SERIES
58TC Non Deice	TK1 thru TK150 except TK147	Cont. TSIO-520-L,-LB	AA244CW-4	244CW-4OH SERIES
58TC Deice			AA442CW-4	442CW-4OH SERIES
60, A60 Non Deice w/o Auto Pilot	P4 thru P246	Lyc. TIO-541-E	AA244CW	244CW-OH SERIES
60, A60 Non Deice w/ Auto Pilot			AA442CW	442CW-OH SERIES
A60 Deice			AA442CW	442CW-OH SERIES
B60 Non Deice	P247 and up Single Instrument	Lyc. TIO-541-E	AA244CW	244CW-OH SERIES
	P247 and up Dual Instrument		AA442CW	442CW-OH SERIES
B60 Deice	P247 - P307 Single Instrument	Lyc. TIO-541-E	AA442CW	442CW-OH SERIES
	P308 - P509 and up Dual Instrument		AA442CW	442CW-OH SERIES
65-B80 Non Deice or Deice	LD362and up	Lyc. IGSO-540-A	AA441CC-9	441CC-9OH SERIES
A65 Non Deice or Deice	LC240 - LC271 and Up	Lyc. IGSO-480-A	AA442CW	442CW-OH SERIES
70 Non Deice or Deice	LB1 and up	Lyc. IGSO-480-A	AA442CW	442CW-OH SERIES
76	ME1 and up	Lyc. O-360-A, LO-360-A	AA3215CC LH	215CC-OH SERIES
			AA3216CW RH	216CW-OH SERIES
77	WA-1 and up	Lyc. O-235-L2C	AA3215CC	215CC-OH SERIES
95, B95		Lyc. O-360-A	AA3215CC	215CC-OH SERIES
B95A	TD708 and up	Lyc. IO-360-B	AA3215CC	215CC-OH SERIES
Deice	TD708 and up	Lyc. IO-360-B	AA441CC	441CC-OH SERIES
Bellanca (Aeronca, Alexanderia, American Champion)				
7AC		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
7GC, 7HC		Lyc. O-290-D	AA3215CC	215CC-OH SERIES
7GCA, 7GCB, 7KC, 7GCBA		Lyc. O-320-A	AA3215CC	215CC-OH SERIES
7ECA		Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
7GCAA, 7GCBC		Lyc. O-320-A,-C	AA3215CC	215CC-OH SERIES
		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
7KCAB, 8KCAB		Lyc. IO-320-E	AA3215CC	215CC-OH SERIES
8GCBC		Lyc. O-360-C	AA3215CC	215CC-OH SERIES
14-19-2		Cont. O-470-D	AA3216CW	216CW-OH SERIES
14-19-3		Cont. O-470-F	AA3216CW	216CW-OH SERIES
14-19-3A		Cont. O-470-F	AA3216CW	216CW-OH SERIES
17-30 Viking		Cont. IO-520-D	AA3216CW	216CW-OH SERIES
17-30A Super Viking (75 and up)		Cont IO-520-K	AA3216CW	216CW-OH SERIES
17-31, 17-31TC		Lyc. IO-540-G	AA3215CC	215CC-OH SERIES
			AA441CC-7	441CC-7OH SERIES
17-31A, 17-31ATC		Lyc. IO-540-G	AA3215CC	215CC-OH SERIES
			AA441CC-7	441CC-7OH SERIES
Britten Norman				
BN-2A Islander	Non Deice	Lyc. O-540-E, IO-540-K	AA3216CW	216CW-OH SERIES
	Deice		AA442CW	442CW-OH SERIES

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Dry Air Pumps continued from previous page

Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Cessna				
120, 140 w/ Lycoming		Lyc. O-235	AA3215CC	215CC-OH SERIES
150, 150A, B, C	17001 thru 15060087	Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
150D	15060088 thru 15060772	Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
150J,K,L,M	15069309 thru 15078505	Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
A150K,L,M	A1500001 thru A1500685	Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
F150K,L,M	F15000530 thru F15001339	Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
FA150K,L,M	FA1500001 thru FA1500312	Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
152	15279404 and up	Lyc. O-235	AA3215CC	215CC-OH SERIES
	Electric Standby 15285940 and up		AA3216CW Standby	216CW-OH SERIES
A152	A1520735 and up	Lyc. O-235	AA3215CC	215CC-OH SERIES
	Electric Standby A1521028 and up		AA3216CW Standby	216CW-OH SERIES
F152	F15201429 thru F15201808	Lyc. O-235	AA3215CC	215CC-OH SERIES
FA152	FA15200337 and up	Lyc. O-235	AA3215CC	215CC-OH SERIES
172A,B,C,D,E,F,G,H	All	Cont. O-300-D	AA3215CC	215CC-OH SERIES
172 I thru P	17256513 thru 17257164	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
	17257165 thru 17259760	Lyc. O-320-E	AA3215CC-9	215CC-OH SERIES
	17259761 thru 17265685 and up	Lyc. O-320E, -H	AA3215CC	215CC-OH SERIES
172Q	17276260 and up	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
	Electric Standby		AA3216CW Standby	216CW-OH SERIES
172R,S	17280001 and up	Lyc. IO-360-L	AA3215CC Upper	215CC-OH SERIES
			AA3216CW Lower	216CW-OH SERIES
172RG		Lyc. O-360-F	AA3215CC	215CC-OH SERIES
F172	F17200805 thru F17201234	Cont. O-300-D	AA3215CC-9	215CC-9OH SERIES
	F17201235 thru F17201385 and Up	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
	F17202234 and up	Lyc. O-320-D	AA3215CC	215CC-OH SERIES
	Electric Standby		AA3216CW Standby	216CW-OH SERIES
FR172K (Hawk XP)	FR17200591 thru FR17200675	Cont. O-300-K,-KB	AA3215CC	215CC-OH SERIES
P172, P172D	P17257120 thru P17257188	Cont. GO-300-E	AA3216CW	216CW-OH SERIES
R172E and R172F Hawk XP		Cont. IO-360-D	AA3215CC	215CC-OH SERIES
R172H Hawk XP		Cont. IO-360-C,-D,-H	AA3215CC	215CC-OH SERIES
R172J Hawk XP		Cont. IO-360-H,-HB	AA3215CC	215CC-OH SERIES
R172K	R1722000 thru R1723454	Cont. IO-360-K,-KB	AA3215CC	215CC-OH SERIES
175, 175A,B,C		Cont. GO-300A,-C,-D,-E	AA3215CC	215CC-OH SERIES
177	17700001 thru 17701164	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
	17701165 thru 17701530	Lyc. O-360-A	AA3215CC-9	215CC-9OH SERIES
	17701531 thru 17702752	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
177RG	All	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
F177RG	F177RG001 thru F177RG0177	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
180, 180A thru F	w/ Conversion Kit	Cont. O-470-L,-K,-R	AA3216CW	216CW-OH SERIES
180G,H,J	18051313 thru 18052384	Cont. O-470-A,-K,-L,-R,-S	AA3216CW	216CW-OH SERIES
182 A thru G	w/ Conversion Kit	Cont. O-470-L,-R,-S,-U	AA3216CW	216CW-OH SERIES
182N, P	18260446 thru 18265176 and Up	Cont. O-470-R,-S	AA3216CW	216CW-OH SERIES
	Electric Driven Pump 18268435 and up	Cont. O-470-R,-S	AA3216CW	216CW-OH SERIES
182Q thru R		Cont. O-470-U	AA3216CW	216CW-OH SERIES
182S, 182T, T182T		Lyc. IO-540-A	AA3215CC Upper	215CC-OH SERIES
			AA3216CW Lower	216CW-OH SERIES
F182	F18200001 thru F18200169	Cont. O-470-S,-U	AA3216CW	216CW-OH SERIES
FR182	F18200001 thru F18200070	Lyc. O-540-J	AA3215CC	215CC-OH SERIES
R182, TR182	R18200001 and up	Lyc. O-540-J	AA3215CC	215CC-OH SERIES
	Electric Drive Pump R18202000 and up		AA3216CW	216CW-OH SERIES
T182	18267716 thru 18268434	Lyc. O-540-L	AA3215CC	215CC-OH SERIES
	18268435 and up		AA3216CW	216CW-OH SERIES
	Electric Driven Pump 18268435 and Up		AA3216CW	216CW-OH SERIES
185A, B	w/ Conversion Kit	Cont. IO-470-F	AA3216CW	216CW-OH SERIES
185C,D,E	185-0654 thru 18502310	Cont. IO-470-F, IO-520-D	AA3216CW	216CW-OH SERIES
A185E, F		Cont. IO-520-D	AA3216CW	216CW-OH SERIES
188, 188A, 188B Ag Wagon		Cont. O-470-R,-S	AA3216CW	216CW-OH SERIES
A188, A188A, A188B		Cont. IO-520-D	AA3216CW	216CW-OH SERIES

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Dry Air Pumps continued from previous page

Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Cessna continued				
205, 205A		Cont. IO-470-S	AA3216CW	216CW-OH SERIES
206, U206, U206A, P206, P206A thru E		Cont. IO-520-A	AA3216CW	216CW-OH SERIES
206H	20680001 and up	Lyc. IO-540-A	AA3215CC Upper	215CC-OH SERIES
			AA3216CW Lower	216CW-OH SERIES
U206B thru G		Cont. IO-520-F	AA3216CW	216CW-OH SERIES
U206, TU206 Single Pump	20602200 thru U20606440 and Up	Cont. IO-520-FC, TSIO-520-C,-M	AA3216CW	216CW-OH SERIES
U206, TU206 Dual Pump	U20606700 and up	Cont. IO-520-A,-F, TSIO-520-C,-M	AA3216CW (RH)	216CW-OH SERIES
U206, TU206	Electric Standby U20606847	Cont. IO-520-A,-F, TSIO-520-C,-M	AA3216CW	216CW-OH SERIES
TU206A thru E, TP206A thru E		Cont. TSIO-520-C	AA3216CW	216CW-OH SERIES
TU206F		Cont. TSIO-520-C	AA244CW	244CW-OH SERIES
207,T207	All	Cont. IO-520-F, TSIO-520-G,-M	AA3216CW	216CW-OH SERIES
210 Non Deice, Single Pump	21059810, 21059819 thru 21064898 and up	Cont. IO-470-E,-S, IO-520-L	AA3216CW	216CW-OH SERIES
210 Non Deice, Dual Pump w/ Conversion Kit	21064136 thru 21064535 w/SK210-103 Mod	Cont. IO-470-E,-S, IO-520-A,-L	AA3216CW	216CW-OH SERIES
	21064536 thru 21064772			
210 Electric System w/ Conversion Kit	21064898 and up	Cont. IO-470-E,-S, IO-520-A, -L	AA3216CW	216CW-OH SERIES
210 Deice, Single Pump w/ Conversion Kit	21059840, 21059819 thru 21064135	Cont. IO-470-E,-S, IO-520-A,-L	AA442CW-8	442CW-8OH SERIES
210 Deice, Dual Pump	21064136 thru 21064535 w/SK210-103 Mod	Cont. IO-520-A,-J, -L	AA3216CW (LH)	216CW-OH SERIES
			AA442CW-8 (RH)	442CW-8OH SERIES
	21064536 thru 21064772		AA3216CW (LH)	216CW-OH SERIES
			AA442CW-8 (RH)	442CW-8OH SERIES
	21064773 and up		AA442CW-8	442CW-8OH SERIES
T210 Non Deice, Single Pump	21059810, 21059819 thru 210664536 and up	Cont. TSIO-520-C,-H,-R	AA3216CW	216CW-OH SERIES
Non Deice Dual Pump	21064136 thru 21064535 w/SK210-103 Mod	Cont. TSIO-520-C,-H,-R	AA3216CW	216CW-OH SERIES
	21064536 thru 21064772			
T210 w/ Electric Driven System	21064898 and up	Cont. TSIO-520-C,-H,-R	AA3216CW	216CW-OH SERIES
T210		Cont. TSIO-520-C,-H,-R	AA442CW-8	442CW-8OH SERIES
T210 Deice, Single Pump	21059810, 21059819 thru 21064135	Cont. TSIO-520-C,-H,-R	AA442CW-8	442CW-8OH SERIES
T210 Deice, Dual Pump	21064136 thru 21064535 w/SK210-103 Mod	Cont. TSIO-520-C,-H,-R	AA3216CW (LH)	216CW-OH SERIES
			AA442CW-8 (RH)	442CW-8OH SERIES
	21064536 thru 21064897		AA3216CW (LH)	216CW-OH SERIES
			AA442CW-8 (RH)	442CW-8OH SERIES
	21064898 and up		AA442CW-8	442CW-8OH SERIES
P210 Non Deice, Single Pump	P21000001 thru 21000812 and up	Cont. TSIO-520-P	AA3216CW	216CW-OH SERIES
P210 Non Deice, Dual Pumps	P21000761 thru P21000835 and up	Cont. TSIO-520-P	AA3216CW	216CW-OH SERIES
P210 Electric Driven Pump	P21000835 and up	Cont. TSIO-520-P	AA3216CW	216CW-OH SERIES
	P21000001 thru 21000760 w/ SK210-105 & 103 Mod.			
P210 Deice, Single Pump	P21000001 thru P21000835 and up	Cont. TSIO-520-P	AA442CW-8	442CW-8OH SERIES
P210 Deice, Dual Pump	P21000001 thru 21000760 w/SK210-105 & -103 Mod	Cont. TSIO-520-P	AA3216CW (LH)	216CW-OH SERIES
			AA442CW-8 (RH)	442CW-8OH SERIES
T303	Non Deice T30300001 and up	Cont. TSIO-520-AE	AA3216CW (LH)	216CW-OH SERIES
		Cont. LTSIO-520-AE	AA3215CC (RH)	215CC-OH SERIES
	Deice T30300001 and up	Cont. TSIO-520-AE	AA442CW-8 (LH)	442CW-8OH SERIES
		Cont. LTSIO-520-AE	AA441CC-3 (RH)	441CC-3OH SERIES
305A thru F		Cont. O-470	AA3216CW	216CW-OH SERIES
310		Cont. O-470-B,-M	AA3216CW	216CW-OH SERIES
310A, 310B		Cont. O-470-B,-M	AA3216CW	216CW-OH SERIES
310C thru H and J	Non Deice	Cont. O-470-D,-U	AA3216CW	216CW-OH SERIES 244CW-OH SERIES
	Deice		AA442CW	442CW-OH SERIES
E310H, E310J	Non Deice	Cont. IO-470-D,-U	AA3216CW	216CW-OH SERIES 244CW-OH SERIES
	Deice		AA442CW	442CW-OH SERIES

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Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Cessna continued				
310I, 310J	Non Deice w/ Conversion Kit	Cont. IO-470-U	AA3216CW	216CW-OH SERIES 244CW-OH SERIES
	Deice		AA442CW	442CW-OH SERIES
310K	Non Deice	Cont. IO-470-V,-VO	AA3216CW	216CW-OH SERIES 244CW-OH SERIES
	Deice		AA442CW	442CW-OH SERIES
310L w/ Auto Pilot	310L0001 and up	Cont. IO-470-V,-VO	AA244CW	244CW-OH SERIES
310N w/ Auto Pilot	310N0001 and up	Cont. IO-470-VO	AA244CW	244CW-OH SERIES
310P w/o Auto Pilot	w/ Conversion Kit 310P0001 and up	Cont. IO-470-VO	AA3216CW	216CW-OH SERIES
310P w/ Auto Pilot	310P0001 and up	Cont. IO-470-VO	AA244CW	244CW-OH SERIES
310Q, w/o Auto Pilot	w/ Conversion Kit 310Q0953 and up	Cont. IO-470-VO	AA3216CW	216CW-OH SERIES
310Q, w/ Auto Pilot	w/ Conversion Kit 310Q0001 thru 310Q0460 and Up	Cont. IO-470-VO	AA244CW	244CW-OH SERIES
310R Non Deice	310R0001 and up	Cont. IO-520-M,-MB	AA3216CW	216CW-OH SERIES
310R Deice	310R0001and up	Cont. IO-520-M,-MB	AA442CW	442CW-OH SERIES
T310P,Q,R	w/ Conversion Kit	Cont. TSIO-520-B,-BB	AA244CW	244CW-OH SERIES
	Deice	Cont. TSIO-520-B,-BB	AA442CW	442CW-OH SERIES
320, -1, -A, -B	w/ Auto Pilot	Cont. TSIO-470-B,-C	AA3216CW	216CW-OH SERIES
	w/o Auto Pilot, w/ Conversion Kit	Cont. TSIO-470-B,-C	AA244CW	244CW-OH SERIES
	w/ Deice, w/ Conversion Kit	Cont. TSIO-470-B,-C	AA442CW	442CW-OH SERIES
320	w/o Auto Pilot w/ Conversion Kit	Cont. TSIO-470-D	AA3216CW	216CW-OH SERIES
	w/ Auto Pilot	Cont. TSIO-470-D	AA244CW	244CW-OH SERIES
	Deice	Cont. TSIO-470-D	AA442CW	442CW-OH SERIES
320D thru F	w/ Conversion Kit	Cont. TSIO-520-B,-BB	AA244CW	244CW-OH SERIES
	Deice w/ Conversion Kit	Cont. TSIO-520-B,-BB	AA442CW	442CW-OH SERIES
321		Cont. O-470-2	AA3216CW	216CW-OH SERIES
335	Non Deice 3350001 thru 3350065	Cont. TSIO-520-EB	AA3216CW	216CW-OH SERIES
	Deice 3350001 thru 3350065	Cont. TSIO-520-EB	AA442CW	442CW-OH SERIES
336	3360001 thru 3360195	Cont. IO-360-A	AA3215CC	215CC-OH SERIES
337 Non Deice	3370001 thru 3370963	Cont. IO-360-C,-D,-DB	AA3215CC	215CC-OH SERIES
	3370964 thru 3371193		AA3215CC-9	215CC-9OH SERIES
	3371194 thru 33701611		AA3215CC	215CC-OH SERIES
337 Deice	33701490 and up	Cont. IO-360-C,-D,-DB	AA441CC	441CC-OH SERIES
F337 Non Deice	F33700001 thru F33700086	Cont. IO-360-C, -D,-DB	AA3215CC	215CC-OH SERIES
F337 Deice	F33700056 and up	Cont. IO-360-C,-D,-DB	AA441CC	441CC-OH SERIES
FT337 Non Deice	FP3370001 thru FP3370016 and up	Cont. IO-360-C,-D,-DB	AA3215CC	215CC-OH SERIES
FT337 Deice	FP3370001 and up	Cont. IO-360-D,-DB	AA441CC	441CC-OH SERIES
M337B		Cont. IO-360-D,-DB	AA3215CC	215CC-OH SERIES
P337 Non Deice	P3370001 thru P3370226	Cont. TSIO-360-C,-CB	AA3215CC	215CC-OH SERIES
	P3370053 and up		AA441CC	441CC-OH SERIES
P337H Deice	Non Deice	Cont. TSIO-360-C,-DB	AA3215CC	215CC-OH SERIES
	Deice		AA441CC	441CC-OH SERIES
T337B	Non Deice	Cont. TSIO-360-A,-B	AA3215CC	215CC-OH SERIES
	Deice	Cont. TSIO-360-A	AA441CC	441CC-OH SERIES
T337C thru F	Non Deice	Cont. TSIO-360-A	AA3215CC	215CC-OH SERIES
	Deice		AA441CC	441CC-OH SERIES
T337G Non Deice	P3370001 thru P3370226	Cont. TSIO-360-C,-CB	AA3215CC	215CC-OH SERIES
T337G Deice	P3370053 and up		AA441CC	441CC-OH SERIES
T337, T337H-SP		Cont. TSIO-360H,-HB,-JB	AA3215CC	215CC-OH SERIES
340 w/ Single Instruments	3400001 and up	Cont. TSIO-520-K,-KB	AA3216CW	216CW-OH SERIES
340 w/ Dual Instruments	3400001 and up	Cont. TSIO-520-K,-KB	AA442CW	442CW-OH SERIES
340 w/ Auto Pilot	3400001 and up	Cont. TSIO-520-K,-KB	AA244CW	244CW-OH SERIES
340A Non Deice, Single Instruments	340A0001 and up	Cont. TSIO-520-N,-NB	AA3216CW	216CW-OH SERIES
340A Non Deice Dual Instruments	340A0001 and up	Cont. TSIO-520-N,-NB	AA442CW	442CW-OH SERIES
340A w/ Auto Pilot	340A0001 and up	Cont. TSIO-520-N,-NB	AA244CW	244CW-OH SERIES
340A Deice	340A0201 thru 340A1805 and up	Cont. TSIO-520-N,-NB	AA442CW	442CW-OH SERIES
401, 401A w/o Auto Pilot	401-0001 and up, 401A0001 and up	Cont. TSIO-520-E,-EB	AA3216CW	216CW-OH SERIES
401, 401A w/ Auto Pilot			AA244CW	244CW-OH SERIES
401B w/o Auto Pilot	401B0001 thru 401B0300	Cont. TSIO-520-E,-EB	AA3216CW	216CW-OH SERIES

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Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Cessna continued				
401B w/ Auto Pilot	401B0001 thru 401B0300	Cont. TSIO-520-E,-EB	AA244CW	244CW-OH SERIES 442CW-OH SERIES
402 w/ Conversion Kit		Cont. TSIO-520-E,-EB	AA3216CW	216CW-OH SERIES
402A	w/o Auto Pilot w/ Conversion Kit	Cont. TSIO-520-E,-EB	AA3216CW	216CW-OH SERIES
	w/ Auto Pilot w/ Conversion Kit		AA244CW	244CW-OH SERIES
402B w/o Auto Pilot	402B0001 thru 402B0101 and Up	Cont. TSIO-520-E,-EB	AA3216CW	216CW-OH SERIES
402B w/ Auto Pilot	402B0001 thru 402B0101 and Up	Cont. TSIO-520-E,-EB	AA244CW	244CW-OH SERIES 442CW-OH SERIES
404 Titan		Cont. GTSIO-520-M	AA3215CC	215CC-OH SERIES
411, 411A	w/o Auto Pilot	Cont. GTSIO-520-C	AA3215CC	215CC-OH SERIES
	w/ Auto Pilot		AA243CC	241CC-OH SERIES
414, 414A Vac. Instrument	4140001 thru 4140349	Cont. TSIO-520-J,-JB,-N,-NB	AA3216CW	216CW-OH SERIES
414, 414A w/ Auto Pilot	4140001 thru 4140349	Cont. TSIO-520-J,-JB,-N,-NB	AA244CW	244CW-OH SERIES
414, 414A Pressure Instruments	4140251 and up	Cont. TSIO-520-J,-JB,-N,-NB	AA3216CW	216CW-OH SERIES
414, 414A w/ Auto Pilot	4140251 and up	Cont. TSIO-520-J,-JB,-N,-NB	AA244CW	244CW-OH SERIES
414A w/ Dual Instruments		Cont. TSIO-520-J,-JB,-N,-NB	AA442CW	442CW-OH SERIES
414A Deice		Cont. TSIO-520-J,-JB,-N,-NB	AA442CW	442CW-OH SERIES
421, A, B w/o Auto Pilot	421B0001 thru 421B0602 and up	Cont. GTSIO-520-D,-H	AA3215CC	215CC-OH SERIES
421, A , B w/ Auto Pilot	421B0001 thru 421B0602 and up	Cont. GTSIO-520-D,-H	AA243CC	241CC-OH SERIES
421C Non Deice	1976 thru 1985	Cont. GTSIO-520-L,-N	AA3215CC	215CC-OH SERIES
421C Dual Instrument	C1097 and up	Cont. GTSIO-520-L,-N	AA441CC	441CC-OH SERIES
421C Deice	1976 thru 1985	Cont. GTSIO-520-L,-N	AA441CC	441CC-OH SERIES
Cirrus				
SR20		Cont. IO-360-ES	AA3215CC	215CC-OH SERIES
Grumman American / American Aviation / American General / Gulfstream / Tiger Aircraft				
AA-1, AA1A		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
AA-1B TC	AA-1B-0219 and Up Except AA1B-243 and 246 thru 250	Lyc. O-235-C	AA3215CC	215CC-OH SERIES
	AA-1B-0379 and up			
AA-1C, T	(Model Years 1977/1978)	Lyc. O-235-L	AA3215CC	215CC-OH SERIES
AA-5		Lyc. O-320-E	AA3215CC	215CC-OH SERIES
AA-5A	(Model Years 1977, 1978, 1979)	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
AA-5B	(Model Years 1977, 1978, 1979)	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
GA-7		Lyc. O-320-D	AA3215CC	215CC-OH SERIES
Helio				
H295	1204 and up	Lyc. GO-480-G	AA3216CW	216CW-OH SERIES
Lake				
LA-4-200 Buccaneer	437 and up	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
250 and Turbo 250 Renegade		Lyc. O-540-C	AA3215CC	215CC-OH SERIES
Maule				
M-4-180		Franklin 6A-335-B	AA3216CW	216CW-OH SERIES
M-4-210		Cont. IO-360-A,-D	AA3215CC	215CC-OH SERIES
M-4-220		Franklin 6A-350-C	AA3216CW	216CW-OH SERIES
M-5-180C		Lyc. O-360-C	AA3215CC	215CC-OH SERIES
M-5-200		Lyc. IO-360-J	AA3215CC	215CC-OH SERIES
M-5-235		Lyc. O-540-J, IO-540-W	AA3215CC	215CC-OH SERIES
M-6-180		Lyc. O-360-C	AA3215CC	215CC-OH SERIES
M-6-235		Lyc. O-540-J, IO-540-W	AA3215CC	215CC-OH SERIES
Mooney				
M20		Lyc. O-320	AA3215CC	215CC-OH SERIES
M20A		Lyc. O-360-A	AA3215CC	215CC-OH SERIES
M20B	1701B thru 1939B	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
M20C	1940C up, 680001C thru 680225C, 690001 thru 700091	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
	20-0001 thru 20-0045, 20-1147 and up	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
M20D	101D and up	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
M20E	101E and up, 690001 thru 700061	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
	21-0001 thru 21-0060, 21-1161 and up	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
M20F	670001 thru 680215, 690001thru 700072	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
	22-0001 thru 22-0078, 22-1179 and up	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
M20G	680001 thru 680205, 690001 thru 700006	Lyc. IO-360-A	AA3215CC	215CC-OH SERIES

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Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Mooney continued				
M20K w/ Single Alternator	25-1001 thru 25-1087	Cont. TSIO-360-G,-L,-M,-S	AA3215CC	215CC-OH SERIES
			AA243CC	AA241CC-OH SERIES
	25-1088 and up		AA3215CC	215CC-OH SERIES
			AA243CC	AA241CC-OH SERIES
M20K w/ Dual Alternator	25000 and up		AA3216CW	216CW-OH SERIES
			AA244CW	244CW-OH SERIES
M20K w/ Standby System	25-1001 and up	Cont. TSIO-360-G,-L,-M,-S	AA3216CW	216CW-OH SERIES
M20M		Lyc. TIO-540-A	AA243CC-15	243CC-15OH SERIES
M20R		Cont. IO-550-G	AA244CW	244CW-OH SERIES
M22	670001 thru 670004 and 680001 and up	Lyc. TIO-541	AA3216CW	216CW-OH SERIES
Navion				
Model G		Cont. IO-470-H	AA3216CW	216CW-OH SERIES
Model H		Cont. IO-520-B	AA3216CW	216CW-OH SERIES
Piaggio				
P.136-L		Lyc. GO-435-C2B	AA3216CW	216CW-OH SERIES
Piper				
J5C		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
PA-12, PA-12S		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
PA-14		Lyc. O-235-C1	AA3215CC	215CC-OH SERIES
PA-16, -16S		Lyc. O-235-C1	AA3215CC	215CC-OH SERIES
PA-18	18-8020 thru 18-7609013 and Up, 189001 and up	Lyc. O-235-C, O-290-D, O-320	AA3215CC	215CC-OH SERIES
PA-20-115, PA-20S-115		Lyc. O-235-C	AA3215CC	215CC-OH SERIES
PA-20, -20S, -20-135, -20S-135		Lyc. O-290-D,-D2	AA3215CC	215CC-OH SERIES
PA-22		Lyc. O-290-D,-D2	AA3215CC	215CC-OH SERIES
PA-22-108	22-8000 thru 22-8710 and up	Lyc. O-235-C	AA3215CC	215CC-OH SERIES
PA-22-135, PA-22S-135		Lyc. O-290-D	AA3215CC	215CC-OH SERIES
PA-22-150, PA-22S-150		Lyc. O-320-A,-B	AA3215CC	215CC-OH SERIES
PA-22-160, PA-22S-160		Lyc. O-320-A,-B	AA3215CC	215CC-OH SERIES
PA-23-160H	23-2395 and up	Lyc. O-320-A,-B,-C	AA3215CC	215CC-OH SERIES
PA-23-235 Non Deice	27-505 thru 27-622	Lyc. O-540-A	AA3215CC	215CC-OH SERIES
PA-23-235 Deice	27-549 thru 27-622	Lyc. O-540-A	AA441CC-7	441CC-7OH SERIES
PA-23-250 Non Deice, Single Inst.	27-2000 thru 27-7654001	Lyc. O-540-A	AA3215CC	215CC-OH SERIES
PA-23-250 Non Deice, Dual Inst.	27-7554001 and up	Lyc. O-540-A	AA441CC-7	441CC-7OH SERIES
PA23-250 Deice	27-4510 thru 27-7654001	Lyc. O-540-A	AA441CC-7	441CC-7OH SERIES
	27-7554112 thru 27-7554168			
PA-24-180	24-2176, 24-2177, 24-2179 thru 24-2184	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
	24-2186 thru 24-2202, 24-2204 thru 24-2218			
	24-2222, 24-2999 thru 24-2587 except 24-2563			
	24-2563, 24-2588 and up			
PA-24-250	24-2563, 24-2588 and up	Lyc. IO-540-D,-N,-R	AA3215CC	215CC-OH SERIES
PA-24-260	24-3842, 24-4000 and up	Lyc. O-540-D,-E,-N,-R	AA3215CC	215CC-OH SERIES
PA-24-400	26-2 and up	Lyc. IO-720	AA3215CC	215CC-OH SERIES
PA-25		Lyc. O-320,-A	AA3215CC	215CC-OH SERIES
PA-25-235, -260		Lyc. O-540-B,-G	AA3215CC	215CC-OH SERIES
PA-28-140	28-20002 thru 28-26958, 28-7125001 thru 28-7425454	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
	28-7585001 and up			
PA-28-150	28-1 thru 28-4377	Lyc. O-320-A,-E	AA3215CC	215CC-OH SERIES
PA-28-151	28-7415001 thru 28-7415713	Lyc. O-320-E	AA3215CC	215CC-OH SERIES
	28-7515001 thru 28-7715314			
PA-28-160	28-1 thru 28-4377	Lyc. O-320-D	AA3215CC	215CC-OH SERIES
PA-28-161	28-7716001 and up	Lyc. O-320-D	AA3215CC	215CC-OH SERIES
	2841001 and up w/ Aux. Pump System			
PA-28-180, PA-28S-180	28-671 thru 28-5869, 28-7105001 thru 28-7406290	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
	28-7505001 thru 28-7505261			

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Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Piper continued				
PA-28R-180	28R-30005 thru 28R31279, 28R7130001 thru 7130019	Lyc. IO-360-B	AA3215CC	215CC-OH SERIES
	28R-75350001 and up			
PA-28-181	28-7690001 and up, 28-90206 and up	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
PA-28R-200	28R-30482, 28R-35001 thru 28R-35830	Lyc. IO-360-C	AA3215CC	215CC-OH SERIES
	28R-7135001 thru 28R-7475331			
	28R-7535001 and up			
PA-28-201T	28-7921001 thru 28-7921091	Cont. TSIO-360-F	AA3215CC	215CC-OH SERIES
PA-28R-201	28R-7737002 thru 28R-7837317	Cont. TSIO-360-F	AA3215CC	215CC-OH SERIES
	28R-7837318 and up, 2837001 and up			
PA-28R-201T	28R-7703001 thru 28R-7803374 and up	Cont. TSIO-360-F	AA3215CC	215CC-OH SERIES
	2803001 and up Aux. Pump			
PA-28RT-201	28RT-7918001 thru 28R-8218026	Lyc. IO-360-C	AA3215CC	215CC-OH SERIES
	28RT-8218027 thru 28R-8218039			
	28R-7931001 and up	Cont. TSIO-360-F		
PA-28-235	28-10003 thru 28-11039	Lyc. O-540-B	AA3215CC	215CC-OH SERIES
PA-28-236	28-7911001 and up	Lyc. O-540-J	AA3215CC	215CC-OH SERIES
PA-28-236 w/Aux. Pump System	28-7911001 and up	Lyc. O-540-J	AA3215CC	215CC-OH SERIES
PA-30	30-2 and up	Lyc. IO-320-B	AA3215CC	215CC-OH SERIES
	C/R Option (LH) Engine	Lyc. LIO-320-B	AA3216CW	216CW-OH SERIES
PA-31 Deice	C/R Option (RH) Engine w Wing Locker 31-7812098 and up	Lyc. LTIO-540-A	AA441CC-7 LH, AA442CW-6 RH	441CC-7OH SERIES 442CW-6OH SERIES
PA-31-300 Non Turbo	Non Deice, Single Instrument	Lyc. IO-540-M	AA3215CC	215CC-OH SERIES
PA-31-300	Non Deice, Dual inst. 31-5 thru 31-7612018	Lyc. IO-540-M	AA441CC-7	441CC-7OH SERIES
PA-31-300	Deice	Lyc. IO-540-M	AA441CC-7	441CC-7OH SERIES
PA-31-325 Non Deice	Single Inst. 31-5 thru 31-7612019 and Up	Lyc. TIO-540-F	AA3215CC (LH)	215CC-OH SERIES
		Lyc. LTIO-540-F	AA3216CW (RH)	216CW-OH SERIES
PA-31-325 Non Deice	Dual Inst. 31-5 thru 31-7612019 and Up	Lyc. TIO-540-F	AA441CC-7 (LH)	441CC-7OH SERIES
		Lyc. LTIO-540-F	AA442CW-6 (RH)	442CW-6OH SERIES
PA-31-325 Deice	31-5 thru 31-7612019 and up	Lyc. TIO-540-F	AA441CC-7 (LH)	441CC-7OH SERIES
		Lyc. LTIO-540-F	AA442CW-6 (RH)	442CW-6OH SERIES
PA-31-350 Non Deice	Single Instruments 31-5001 thru 31-7652124 and up	Lyc. TIO-540-J	AA3215CC (LH)	215CC-OH SERIES
		Lyc. LTIO-540-J	AA3216CW (RH)	216CW-OH SERIES
	Dual Instruments 31-5001 thru 31-7652124 and up	Lyc. TIO-540-J	AA3215CC (LH)	215CC-OH SERIES
		Lyc. LTIO-540-J	AA3216CW (RH)	216CW-OH SERIES
PA-31-350 Deice	31-5001 thru 31-7652123	Lyc. TIO-540-J	AA441CC-7 (LH)	441CC-7OH SERIES
		Lyc. LTIO-540-J	AA442CW-6 (RH)	442CW-6OH SERIES
	31-7652124 thru 31-7952250 w/ Kit 764016 or 764017	Lyc. TIO-540-J	AA441CC-7 (LH)	441CC-7OH SERIES
		Lyc. LTIO-540-J	AA442CW-6 (RH)	442CW-6OH SERIES
	31-8052001 and up	Lyc. TIO-540-J	AA441CC (LH)	441CC-OH SERIES
		Lyc. LTIO-540-J	AA442CW (RH)	442CW-OH SERIES
PA-31P-350 Non Deice	31P-8414001 and up	Lyc. TIO-540-V	AA3215CC (LH)	215CC-OH SERIES
		Lyc. LTIO-540-V	AA3216CW (RH)	216CW-OH SERIES
PA-31P-350 Deice	31P-841400 and up	Lyc. TIO-540-V	AA441CC-7 (LH)	441CC-7OH SERIES
		Lyc. LTIO-540-V	AA442CW-6 (RH)	442CW-6OH SERIES
PA-32-260	32-1 thru 32-7400061, 32-7500001 thru 32-7800008	Lyc. O-540-E	AA3215CC	215CC-OH SERIES
PA-32-300	32-40000 thru 32-744182, 32-7540001 thru 32-7940282	Lyc. IO-540-K	AA3215CC	215CC-OH SERIES
PA-32R-300	32R-7680001 thru 32R-7880088	Lyc. IO-540-K	AA3215CC	215CC-OH SERIES
PA-32RT-300	32R-7885001 thru 32R-7985125	Lyc. IO-540-K	AA3215CC	215CC-OH SERIES
PA-32RT-300T	32R-7887001 thru 32R-7987146	Lyc. TIO-540-S	AA3215CC	215CC-OH SERIES
PA-32-301	32-8006001 and up	Lyc. IO-540-K	AA3215CC	215CC-OH SERIES
PA-32-301T	32-8024001 and up	Lyc. TIO-540-S	AA3215CC	215CC-OH SERIES
PA-32R-301 Non Deice	32R-8013001 and up	Lyc. IO-540-K	AA3215CC	215CC-OH SERIES
PA-32R-301T Non Deice	32R-8129001and up	Lyc. TIO-540-S	AA3215CC	215CC-OH SERIES
PA-32R-301T Deice	32R-8129012 and up	Lyc. TIO-540-S	AA442CW-6	442CW-6OH SERIES
PA-34-200 Non Deice or Deice	34-7250001 thru 34-7450220	Lyc. IO-360-C	AA3215CC, (LH)	215CC-OH SERIES
		Lyc. LIO-360-C	AA3216CW, (RH)	216CW-OH SERIES
PA-34-200T Non Deice	34-7570001 thru 34-7870492	Cont. TSIO-360-E	AA3215CC, (LH)	215CC-OH SERIES
		Cont. LTSIO-360-E	AA3216CW, (RH)	216CW-OH SERIES
	34-7970001 thru 34-8170092	Cont. TSIO-360-E	AA3215CC, (LH)	215CC-OH SERIES
		Cont. LTSIO-360-E	AA3216CW, (RH)	216CW-OH SERIES

Continued on next page

Dry Air Pumps continued from previous page

Aircraft		Engine	Dry Air Pumps	
			New P/N	Overhauled P/N
Piper continued				
PA-34-200T Deice	Single Inst. 34-7570001 thru 34-8170092	Cont. TSIO-360-E	AA441CC-7, (LH)	441CC-7OH SERIES
		Cont. LTSIO-360-E	AA442CW-6, (RH)	442CW-6OH SERIES
	Dual Inst. 34-7570001 thru 34-8170092	Cont. TSIO-360-E	AA441CC-7, (LH)	441CC-7OH SERIES
		Cont. LTSIO-360-E	AA442CW-6, (RH)	442CW-6OH SERIES
PA-34-220T Non Deice	34-8133001 and up	Cont. TSIO-360-K	AA3215CC, (LH)	215CC-OH SERIES
		Cont. LTSIO-360-K	AA3216CW, (RH)	216CW-OH SERIES
PA-34-220T Deice 14 Volt	34-8133001 thru 34-448001	Cont. TSIO-360-K	AA441CC-7, (LH)	441CC-7OH SERIES
		Cont. LTSIO-360-K	AA442CW-6, (RH)	442CW-6OH SERIES
PA-34-220T Deice 28 Volt	34-448002 and up	Cont. TSIO-360-K	AA441CC-7, (LH)	441CC-7OH SERIES
		Cont. LTSIO-360-K	AA442CW-6, (RH)	442CW-6OH SERIES
PA-36-300		Lyc. IO-540-K	AA3215CC	215CC-OH SERIES
PA-38-112		Lyc. O-235-L2C	AA3215CC	215CC-OH SERIES
PA-39	C/R 39-1 thru 39-155	Lyc. IO-320-B	AA3215CC, (LH)	215CC-OH SERIES
		Lyc. LIO-320-B	AA3216CW, (RH)	216CW-OH SERIES
PA-40 Non Deice		Lyc. IO-320-B	AA3215CC, (LH)	215CC-OH SERIES
		Lyc. LIO-320-B	AA3216CW, (RH)	216CW-OH SERIES
PA-44-180 Non Deice	44-7995001 thru 44-8195026, 44-95001 and up	Lyc. O-360-A,-E	AA3215CC, (LH)	215CC-OH SERIES
		Lyc. LO-360-E	AA3216CW, (RH)	216CW-OH SERIES
PA-44-180T Non Deice	44-8107001 thru 44-8207020	Lyc. TO-360-E	AA3215CC, (LH)	215CC-OH SERIES
		Lyc. LTO-360-E	AA3216CW, (RH)	216CW-OH SERIES
PA-44-180T Deice	44-8107033, 44-8207007 and up	Lyc. TO-360-E	AA441CC-7, (LH)	441CC-7OH SERIES
		Lyc. LTO-360-E	AA442CW-6, (RH)	442CW-6OH SERIES
PA-46-310P Non Deice, Single Pump System	46-8408001 thru 46-8608067, 46-08001 thru 46-08140	Cont. TSIO-520-B	AA3216CW	216CW-OH SERIES
PA-46-310P Non Deice or Deice w/ Standby System	46-8408001 thru 46-8608067, 46-08001 thru 46-08140	Cont. TSIO-520-B	AA442CW-6, (LH)	442CW-6OH SERIES
PA-46-350 Non Deice, Single Pump	46-22001 and up	Lyc. TIO-540-AE	AA3216CW	216CW-OH SERIES
PA-46-350P Non-Deice, Dual Pump	46-22001 and up	Lyc. TIO-540-AE	AA441CC-17 Upper	441CC-17OH SERIES
			AA442CW-6 Lower	442CW-6OH SERIES
PA-46-350P Deice	46-22001 and up	Lyc. TIO-540-AE	AA441CC-17 Upper	441CC-17OH SERIES
			AA442CW-6 Lower	442CW-6OH SERIES
Rockwell /Gulfstream / Commander				
100		Lyc. O-320-A	AA3215CC	215CC-OH SERIES
112	1 thru 125	Lyc. O-360-C	AA3215CC	215CC-OH SERIES
112A	126 thru 499	Lyc. IO-360-C	AA3215CC	215CC-OH SERIES
112B	500and up	Lyc. IO-360-C	AA3215CC	215CC-OH SERIES
112TC	13000 thru 13149	Lyc. TO-360-C	AA3215CC	215CC-OH SERIES
112TCA	13150 and up	Lyc. TO-360-C	AA3215CC	215CC-OH SERIES
114, 114A		Lyc. IO-540-T	AA3215CC	215CC-OH SERIES
100-180	5001 and up	Lyc. O-360-A2F	AA3215CC	215CC-OH SERIES
SOCATA / Aerospatiale / EADS / Daher				
MS88B		Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
MS892A-150 & E-15O		Lyc. O-320-E	AA3215CC	215CC-OH SERIES
MS893A, E		Lyc. O-360-A	AA3215CC	215CC-OH SERIES
MS894A, E		Franklin 6A-350-C	AA3216CW	216CW-OH SERIES
100S		Cont. O-200-A	AA3215CC-9	215CC-9OH SERIES
150T, ST		Lyc. O-320-E	AA3215CC	215CC-OH SERIES
235E		Lyc. O-540-B	AA3215CC	215CC-OH SERIES
TB9	001 thru 822, 850 thru 947 except 888	Lyc. O-320-D	AA3215CC	215CC-OH SERIES
TB10	001 thru 822, 850 thru 947 except 888	Lyc. O-360-A	AA3215CC	215CC-OH SERIES
TB20	001 thru 822, 850 thru 947 except 888	Lyc. O-540-C	AA3215CC	215CC-OH SERIES
TB21	948 and up	Lyc. TIO-540-A	AA243CC-13	241CC-13OH SERIES
Siai - Marchetti				
S.205-18/F, /R		Lyc. O-360-A	AA3215CC	215CC-OH SERIES
S.205-20/F, /R		Lyc. O-360-A	AA3215CC	215CC-OH SERIES
S.205-22/R		Franklin 6A-350-C	AA3216CW	216CW-OH SERIES
S.208/-A, F.260/-B/-C		Lyc. O-540-E	AA3215CC	215CC-OH SERIES
S.210		Lyc. TIO-360-A	AA3215CC	215CC-OH SERIES
Vulcanair / Partenavia				
P68, P68B, P68C Deice		Lyc. IO-360-A	AA3215CC	215CC-OH SERIES
P68C-TC Deice		Lyc. IO-360-C	AA3215CC	215CC-OH SERIES

Carburetor Assemblies from Marvel Schebler

New, rebuilt, and overhauled Carburetors!

- Advanced inspections and flow test procedures to ensure high performance
- Innovative, fuel-proof epoxy floats — will not absorb fuel!
- To order rebuilt assemblies, add suffix "-M". For overhauled assemblies, add suffix "-H". New assemblies are the same part number as the Marvel-Schebler part number





Engine Model	Marvel-Schebler P/N	Deluxe Repair Kit	Engine Mfg P/N	Model
Continental (Teledyne) Motors				
	10-4115-1 3		627143	MA-3SPA™
	10-4457-1 3			MA-3SPA™
A-65 or A-75 Series where P/N 627365 is installed	10-4233 1 2 3	286-1632	627365	MA-3PA™
A-65 or A-75 Series where P/N 627366 is installed	10-4240-1 1 2 3	286-2036	627366	MA-3SPA™
C-115 or C-125 Series where P/N 40366 is installed	10-2848 3	286-1629	40366	MA-3SPA™
C-145 or O-300 Series where P/N 633029 is installed	10-4895-1 1 2 3	286-2035	633029	MA-3SPA™
C-90 Series where P/N 627367 is installed	10-4252-2 1 2 3	286-2037	627367	MA-3SPA™
C-90 Series where P/N 629175 is installed	10-4457-1 1 2	286-2038	629175	MA-3SPA™
C-90 Series where P/N 637835 is installed	10-5282 1 2 3	286-1638	637835	MA-3SPA™
O-200 Series where 633028 is installed	10-4894-1 1 2 3	286-2025	633028	MA-3SPA™
O-470 Series where 538872 is installed	10-3859-1 1 2 3	286-1654	538872	MA-4-5™
O-470 Series where 64113 is installed	10-4893-1 1 2 3	286-1669	641139	MA-4-5™
O-470 Series where P/N 646232 is installed	10-5284 1 2 3	286-1790	646232	MA-4-5™
O-470 Series where P/N 10-6050 is installed with STC 1153AT	10-6050 1 2 3			MA-4-5™
O-470J	10-3965-12 3		538872	MA-4-5™
GO-300 Series where 626789 is installed	10-4171 2 3	286-1660	626789	MA-4-5™
Experimental				
	5-3678-32 1 3			
	5-3878 1			
	5-4164-1 1			
	5-5217 1	286-2013		
	5-6200 1 3			
Franklin				
6A-350 Series	10-4865 3	286-1664	20671	MA-5™
6V-350 Series	10-4809 3		20555	MA-5™
Textron Lycoming Engines				
	10-5189	286-1718	LW-13757	HA-6™
O-235-C1, C1B, C2A, C2B, C2C, H2C, L2C	10-3103-1 3	286-1650	61547	MA-3A™
O-235-C1C, M1, M2C, P2A, N2A, L2A	10-5220 1 2 3	286-1771	LW-16073	MA-3PA™
O-235-E2A, C1, H2C, C2A, C2C	10-5050 1 2 3	286-1640	LW-10619	MA-3PA™
O-235-F1B, O-235-C2C, O-235-L2C	10-4953 2 3	286-1617	77585	MA-3A™
O-235-F2A, F2B, G1, J2A, G2A	10-5126 1 2 3	286-1672	LW-13133	MA-3PA™
O-235-H2C	10-5257 1 2 3	286-1772	LW-16677	MA-3PA™
O-235-K2A, K2B, L2A, N2A, H2C, L2C	10-5142 1 2 3	286-1696	LW-14016	MA-3PA™
O-235-K2C, L2A	10-5199 1 2 3	286-1740	LW-15496	MA-3A™
O-235-N2C, P1, M1, N2A	10-5267 1 2 3	286-1783	LW-16907	MA-3PA™
O-290-A, AP, C, (O-290-3 type),-CP,-D, (O-290-11 type), D2, D2A, D2B, D2C	10-3346-1 3	286-1628	62289	MA-3SPA™
O-290-A, AP, C, (O-290-3 type),CP, D, (O-290-11 type),D2, D2A, D2B, D2C	10-3565-1 3	286-1630	62830	MA-3SPA™
O-320 Series	10-4910 1 2 3	286-1668	77279	MA-4SPA™
O-320 Series	10-4910-1 1 2 3	286-2012	LW-16559	MA-4SPA™
O-320 Series	10-5224 1 2 3		LW-15958	HA-6™
O-320-A1A, A2A, A2B, A3A, B1A, B2A	10-3678-12 1 2 3	286-1624	69250	MA-4SPA™
O-320-A1B, A2A, A2B, A2C, A2D, A3B, A3C, B1B, B2B, B2C, B3B, B3C, D1A, D1AD, D1C, D2A, D2B, D2C, E1A, E2A, E2B, E2C, E3D	10-3678-32 1	286-1623	72394	MA-4SPA™
O-320-A1B,D1F,D2F,E1C,E1F,E1J,E2D,E2F,E2G,E3H,H1AD,D2C,E1A,E2C,E3D, H2AD,A2B,B2B,E2A	10-5009 1 2 3	286-1622	78728	MA-4SPA™
O-320-A2C,D1A,D1AD,D2G,D2H,D2J,D3G,E1J,E2A,E2D,E2G,E2H,E3D,E3H,H2AD	10-5217 1 2 3		LW-13659	
O-320-D2G,D2H,D2J,E2H,H2AD,A2C,D1AD,E1J,E2D,E2G,E3H,D1A,E3D,E2A,D3G	10-5217 1 2 3		LW-15986	MA-4SPA™
O-320 and O-360 Series	10-5092	286-1613	LW-12097	HA-6™
O-320, O-360 and LO-360 Series	10-5219 1 2 3	286-1760	LW-15957	HA-6™
O-360 and LO-360 Series	10-5230 1 2 3	286-1762	LW-15959	HA-6™
O-360 and LO-360 Series	10-5255 1 2 3	286-1767	LW-16625	HA-6™
O-360 and LO-360 Series	10-5282 2 3	286-2014	LW-18662	HA-6™
O-360 and LO-360 Series	10-5283 1 2 3	286-2015	LW-18663	HA-6™
O-360 and LO-360 Series	10-6019 1 2 3	286-2020	61E21713	HA-6™
O-360 and LO-360 Series	10-6019-1 1 2 3		61E23632	HA-6™

Eligibility continued on next page

Marvel Schebler Carburetors eligibility continued from previous page

Engine Model	Marvel-Schebler P/N	Deluxe Repair Kit	Engine Mfg P/N	Model
Continental (Teledyne) Motors				
O-360 Series	10-5045-1		LW-12175	HA-6™
O-360 Series	10-5253 1 2 3	286-1768	LW-16518	HA-6™
O-360-A1A,A1AD,A1D,A1F,A1F6D,A1LD,A2A,A2D,A2E,A2F,A3A,A3AD,A4A, A4AD, A4M,A5AD,B2A,C1A,C1C,C1G,C2A,C2C,D2A,D2B	10-3878 1 2 3	286-1670	71098	MA-4-5™
O-360-A1A,A1AD,A1C,A1D,A1F,A1F6,A1F6D,A1LD,A1P,A2A,A2D,A2E,A2F,A3A, A3AD,A3D,A4D,A4AD,A4D,A4G,A4M,A4N,A4P,A5AD,B1A,B1B,B2A,B2B,B2C,C1A, C1C,C1E,C1G,C2A,C2B,C2C,C2D,C2E,C4F,C4P,D1A,D2A,D2B	10-6054 1 2 3		61C22551	MA-4-5™
O-360-A1A,A1AD,A1C,A1D,A1F,A1F6,A1F6D,A1LD,A1P,A2A,A2D,A2E,A2F,A3A, A3AD,A3D,A4D,A4AD,A4D,A4G,A4M,A4N,A4P,A5AD,B1A,B1B,B2A,B2B,B2C,C1A, C1C,C1E,C1G,C2A,C2B,C2C,C2D,C2E,C4F,C4P,D1A,D2A,D2B	10-6102 1 2 3		61C23100	MA-4-5™
O-360-A1F6, A1F6D, A4N, A2F	10-5034		LW-10064	MA-4-5™
O-360-A2D, C1E, C2C, C2E, A1A, A1D, A2A, A2D, A2F, A3A, A4A, C1C, C2A	10-4164-1 1 2 3	286-1661	71710	MA-4-5™
O-360-A4M, A1A, A4A	10-5193 1 2 3	286-1719	LW-15380	MA-4-5™
O-360-A4N	10-5288 1 2 3	286-2017	LW-18788	MA-4-5™
O-360-J2A	10-6045 1 2 3	286-2039	61C22198	MA-4-5™
O-360-J2A	10-6110 1 2 3		61B23955	MA-4SPA™
O-540 Series	10-5042 2 3	286-1646	LW-10196	MA-4-5™
O-540 Series	10-5235 1 2 3	286-1763	LW-15960	HA-6™
O-540 Series	10-6001 1 2 3	286-1784	LW-18987	HA-6™
O-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4D5, B1A5, B1B5, B2A5, B2B5, B4B5, E1A5, E4A5, E4B5, E4C5, J1A5D, J1B5D	10-4404 1 2 3	286-1643	72740	MA-4-5™
O-540-B1B3	10-4975		77888	MA-6AA™
O-540-B2C5, B2C5D, G1A5, G1A5D, G2A5, H1B5D, H2A5, H2B5D, A15D, B2B5	10-4044-1 1 2 3		74121	MA-4-5™
O-540-B2B5, B4B5, B4B5D, E4B5D, J2A5D, J3A5D,E4B5, J1A5D, E4B5”	10-5054 1 2 3	286-1647	LW-10540	MA-4-5™
O-540-F1A5, F1B5	10-6035-11 1 2 3	286-2051	61C22451	MA-4-5™
HO-360 Series	10-6030-1 1 2 3	286-2060	61E22534	HA-6™
LO-360-A2D	10-4164-1 1 2 3	286-1661	71710	MA-4-5™
TO-360 Series	10-5200 3		LW-155047	HA-6™
TO-360 Series	10-5211 3	286-1735	LW-15674	HA-6™
TO-360 Series	10-5211-1 3		LW-15985	HA-6™
TO-360 Series	10-5238 2 3	286-1764	LW-15961	HA-6™
TO-360 Series	10-5246 2 3	286-1766	LW-16028	HA-6™
TO-360 Series	10-5280-2 1 2 3		LW-18999	HA-6™
TO-360 and LTO-360 Series	10-5256-1 2 3	286-1779	61E22563	HA-6™
VO-435-A1B, A1C, AID	10-3856-12 1 2 3	286-1662	71685	MA-4-5™
VO-435-A1E, A1F, B1A, A1D, O-540-A1A	10-4025-12 2 3	286-1384	71684	MA-4-5AA™
VO-540-B1A, B1B, B1B3, B1C, B1F, B2A	10-4218-1 2 3	286-1645	72407	MA-6AA™
VO-540-B1D, B2B, C1A, C1B, C1C3, C2A, C2B, C2C	10-4401-1 3	286-1618	72920	MA-6AA™
TVO-435-A1A, -B1A, -B1B, -D1A, -D1B, -F1A, -G1A, -G1B	10-4438-1 2 3	286-1394	73899	MA-6AA™
Miscellaneous				
O-290 Series	10-2065 3			MA-2™
	10-2153 3			MA-3™
	10-2356-1 3			
	10-2539-1 3			
	10-2827 3			MA-4-5™
	10-2971-P 3			MA-3SPA™
	10-3168 2 3			MA-4-5™
	10-3391 3		62830	MA-3SPA™
	10-3634 3			MA-4-5™
	10-3649-1 3			MA-4-5™
	10-4439 3			MA-3SPA™
	10-5009N 3			MA-4SPA™
	10-5067 3			
	10-5221 3			
O-540 Series	10-5243 3	286-1765	LW-15963	HA-6™
Superior Air Parts Engines				
O-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, B1A1, B1A2, B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1, B6A2, C1A1, C1A2,C2A1, C2A2, C2A1, C3A2, D1A1, D1A2, D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1, D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2	10-6104 1 2 3		SV10-6104	MA-4-5™

Notes:

1 New assembly available. Same part number as the original Marvel-Schebler part number.

2 Rebuilt assembly available. Add “-M” suffix for rebuilt.

3 Overhauled assembly available. Add “-H” suffix for overhauled.

Marvel Schebler Miscellaneous Replacement Parts

Figure reference tables on the following pages

Photos are not to scale or relative to each other

1

229-587
Tube Assembly, Idle

2

229-603
Tube Assembly, Idle

3

229-584
Tube Assembly, Idle

4

32-32
Shaft, Float Lever

5

46-A257
Venturi

6

46-F10
Venturi, Combo

7

47-749
Nozzle Assembly

8

47-A109
Nozzle, Secondary

9

194-580
Plunger Assembly

10

194-625
Plunger Assembly

11

194-591
Plunger Assembly, Pump

12

36-540
Valve Assembly

13

36-525
Valve Assembly

14

36-587
Valve Assembly, Pump, Check

15

43-564
Needle, idle

16

43-648
Needle Assembly, Idle Adjustment

17

43-A93
Needle, Idle Adjustment

18

16-B57
Gasket

19

16-B75
Gasket, Throttle Body

20

16-B85
Gasket, Throttle Body

21

16-A31
Gasket

22

666-1002
Float Kit, Large

23

30-862
Float Assembly, Large

24

30-864
Float Assembly, Small

25

30-860
Float Assembly

26

MS80-430
Float Kit, Set of 2 Bing Carburetor/Rotax

27

13-1519
Shaft Assembly, Throttle

28

13-1521
Shaft Assembly, Throttle

29

13-1533
Shaft Assembly, Throttle

30

32-35
Shaft, Float Lever

31

32-88
Shaft, Float Lever

Description	Fig	Part Number
Baffle, Fuel Bowl	N/A	178-34
Ball	N/A	206-21
	N/A	206-22
Ball, Lead	N/A	37-7
Bellows Assembly	N/A	293-539
	N/A	293-542
	N/A	293-549
	N/A	293-551
	N/A	293-556
Bolt, Eye	N/A	104-28
Bracket	N/A	136-58
Bracket, Float	N/A	136-62
Bracket, Pump	N/A	136-493
Bushing	N/A	60-A127
Bushing, Cutoff Valve	N/A	60-A163
Bushing, Throttle Shaft	N/A	60-260
	N/A	60-A160
Bushing, Vertical Well Vent	N/A	60-A137
Button	N/A	M-123A
Cam Assembly	N/A	155-657
Clip, Float Valve	N/A	29-182
	N/A	29-184
	N/A	29-193
Collar, Idle Tube	N/A	124-52
Cotter Pin	N/A	82-9
Cover Assembly, Bowl	N/A	56-597
	N/A	56-598
Drill Plug	N/A	15-223
Fitting	N/A	68-93
Fitting, Inlet	N/A	68-101
	N/A	68-245
Flange Retainer	N/A	110-173
Float Assembly	25	30-860

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Description	Fig	Part Number
Float Assembly, Large MA	23	30-862
Float Assembly, Small MA	24	30-864
Float Assembly, Needle and Seat	N/A	233-615
	N/A	233-699
	N/A	233-700
Float Kit, Bing Carburetor/ Rotax	26	MS80-430
Float Kit, HA-6	N/A	666-1001
Float Kit, Large	22	666-1002
Float Kit, Small	N/A	666-1000
Gage, Float Setting	N/A	M-509
Gage, Pin Depth	N/A	M-141
Gasket	N/A	16-A16
	21	16-A31
	N/A	16-B45
	N/A	16-B57
Gasket, Air Metering	N/A	16-A56
Gasket, Bowl Cover	N/A	16-B330
Gasket, Bowl Vent Strainer	N/A	16-A16
Gasket, Drain Plug	N/A	16-B322
Gasket, Fiber	N/A	16-B287
Gasket, Float Valve Seat	N/A	16-223
	N/A	16-224
	N/A	16-A32
Gasket, Fuel Cut Off Valve	N/A	16-B302
	N/A	16-B303
Gasket, Idle Needle	N/A	16-A120
Gasket, Main Nozzle	N/A	16-B58
Gasket, Idle Adjustment Needle	N/A	16-A39
Gasket, Nozzle	N/A	16-222

Continued on next column

Continued from previous column

Description	Fig	Part Number
Gasket, Nozzle	N/A	16-A30
	N/A	16-B59
Gasket, Plate Lock	N/A	16-B288
Gasket, Power Jet	N/A	16-367
	N/A	16-A107
	N/A	16-A42
Gasket, Pump Idler Screw	N/A	16-B44
Gasket, Special Lock	N/A	16-B172
Gasket, Throttle	N/A	16-B12
Gasket, Throttle Body	19	16-B75
	20	16-B85
Gasket, Throttle Body to Bowl	N/A	16-221
Guide, Pump	N/A	88-92
Housing, Pump Inlet	N/A	221-76A
Jet, Air Metering Pin	N/A	49-199
	N/A	49-267
	N/A	49-A79
Jet, Economizer	N/A	49-180
	N/A	49-207
	N/A	49-218
	N/A	49-258
Jet, Power	N/A	49-A73
	N/A	49-A102
	N/A	49-A134
	N/A	49-A140
	N/A	49-A147
	N/A	49-A252
	N/A	49-A257
	N/A	49-A260
	N/A	49-A262
	N/A	49-A267

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Marvel Schebler Miscellaneous Replacement Parts continued from previous page

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Description	Fig	Part Number
Jet, Power	N/A	49-A281
	N/A	49-A282
	N/A	49-A400
	N/A	49-B352
Lever, Control	N/A	12-B375
Lever, Mixture Control	N/A	155-307
	N/A	155-357
	N/A	155-367
	N/A	155-387
	N/A	155-409
	N/A	155-A4
Lever Assembly, Mixture Control	N/A	155-580
	N/A	155-597
	N/A	155-627
	N/A	155-629
Lever, Pump	N/A	155-226
	N/A	155-A74
Lever Assembly, Pump	N/A	155-560
	N/A	155-650
Lever Assembly, Pump, Idler	N/A	155-568
Lever, Throttle	N/A	12-A216
	N/A	12-B56
	N/A	12-B57
	N/A	12-B58
	N/A	12-B59
	N/A	12-B72
	N/A	12-B112
	N/A	12-B296
	N/A	12-B371
Lever Assembly, Throttle	N/A	12-1033
	N/A	12-1096
	N/A	12-929
	N/A	12-982
Link, Pump	N/A	168-366
Lockwire	N/A	66-18
Needle, Idle	15	43-564
Needle, Idle Adjustment	N/A	43-362
	N/A	43-A90
	17	43-A93
Needle Assembly, Idle Adjustment	N/A	43-648
	N/A	43-649
Nozzle	N/A	47-858
Nozzle, Main	N/A	47-A128
Nozzle, Secondary	N/A	47-A109
	N/A	47-A163
Nozzle Assembly	N/A	47-466
	N/A	47-652
	N/A	47-684
	N/A	47-702
	N/A	47-719
	N/A	47-728
	N/A	47-734
	N/A	47-735
	N/A	47-739
	N/A	47-741
	7	47-749
	N/A	47-750
	N/A	47-751
	N/A	47-755

Continued on next column

Continued from previous column

Description	Fig	Part Number
Nozzle Assembly	N/A	47-757
	N/A	47-770
	N/A	47-773
	N/A	47-775
	N/A	47-779
	N/A	47-781
	N/A	47-803
	N/A	47-805
	N/A	47-806
	N/A	47-813
	N/A	47-817
	N/A	47-818
	N/A	47-819
	N/A	47-821
	N/A	47-822
	N/A	47-828
	N/A	47-830
	N/A	47-831
	N/A	47-833
	N/A	47-845
	N/A	47-846
	N/A	47-847
	N/A	47-850
	N/A	47-851
	N/A	47-852
	N/A	47-853
	N/A	47-857
	N/A	47-826-1
Nut, Castle	N/A	81-311
Nut, Lock	N/A	81-244
Nut, Pump Linkage	N/A	81-298
O-Ring	N/A	44-220
	N/A	44-221
	N/A	44-222
	N/A	44-223
	N/A	44-224
Packing, Pump Stem	N/A	44-49
Packing, Vacuum Pump Block Rod	N/A	44-286
Pin	N/A	62-436
	N/A	62-A19
	N/A	62-A31
	N/A	62-A34
	N/A	71-37
Pin, Air Metering	N/A	173-133
	N/A	173-144
	N/A	173-146
	N/A	173-154
	N/A	173-159
	N/A	173-160
Pin, Economizer Stop	N/A	62-F1
Plate	N/A	198-379
Plate, ID, Red, MA-3	N/A	63-B456
Plate, ID, Red, MA4-5	N/A	63-B452
Plate, ID, Red, MA-5	N/A	63-B453
Plate, Pump Linkage	N/A	198-223
Plug	N/A	99-34
	N/A	99-45
Plug, 0.125-18 NPTF	N/A	99-35
Plug, 0.4375-20 UN-3A	N/A	99-37

Continued on next column

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Description	Fig	Part Number
Plug, Air Metering	N/A	80-151
	N/A	80-364
Plug, Drain	N/A	99-101
Plug, Expansion	N/A	179-45
Plug, Pipe	N/A	99-44
Plug, Pipe	N/A	99-8
Plunger Assembly	9	194-580
	N/A	194-593
	N/A	194-605
	10	194-625
	N/A	194-800
Plunger Assembly, Pump	11	194-591
	N/A	194-749
Ratchet Assembly	N/A	261-501
Retainer	N/A	55-255
	N/A	55-270
	N/A	55-A139
	N/A	55-A191
	N/A	55-A246
Retainer Assembly	N/A	55-524
Retainer, Bellows	N/A	55-449
Retainer, Mixture Valve	N/A	55-A239
Retainer, O-Ring	N/A	55-A233
Ring, Retaining	N/A	78-A123
	N/A	78-A124
	N/A	78-A125
	N/A	78-A127
Rod	N/A	119-126
	N/A	17-383
Rod, Actuating, Air Metering	N/A	119-113
	N/A	119-125
Rod, Actuating Pump Plunger	N/A	119-112
	N/A	119-124
Rod, Pump Connecting	N/A	17-372
Screen Assembly	N/A	95-506
	N/A	95-509
	N/A	95-529
	N/A	95-530
Screen, Bowl Vent	N/A	95-63
Screen, Nozzle	N/A	95-75
Screen, Pump Inlet	N/A	95-54
Screw	N/A	15-58
	N/A	15-A1
	N/A	15-A14
	N/A	15-A21
	N/A	15-A408
	N/A	15-A84
	N/A	15-B105
	N/A	15-B109
	N/A	15-B110
	N/A	15-B135
Screw and Washer	N/A	15-483
Screw, 5-40x1/8 UNC-2A HEX	N/A	15-A260
Screw, Bowl Cover	N/A	15-B126
Screw, Drive	N/A	15-367
	N/A	15-A204
Screw, Fill Head	N/A	15-A151
	N/A	15-A407
Screw, Hex Headless Set	N/A	15-B496

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Marvel Schebler Miscellaneous Replacement Parts continued from previous page

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Description	**Fig**	**Part Number**
Screw, Idle	N/A	15-126
	N/A	15-42
Screw, Machine	N/A	15-B108
Screw, Machine Slotted	N/A	15-C1
Screw, Plug	N/A	15-A22
Screw, Pump Lever	N/A	15-A15
Screw, Retainer	N/A	15-B395
Screw, Throttle Adjusting	N/A	15-85
	N/A	15-A354
Screw, Throttle Body	N/A	15-B98
Screw, Throttle Lever	N/A	15-493
Screw, Throttle Valve	N/A	15-A23
Seal, Lead	N/A	298-1
Shaft Assembly, Throttle	N/A	13-1435
	27	13-1519
	N/A	13-1520
	28	13-1521
	N/A	13-1522
	N/A	13-1523
	N/A	13-1524
	29	13-1526
	N/A	13-1531
	29	13-1533
	N/A	13-1928
	N/A	13-811
	N/A	13-853
Shaft, Float Lever	4	32-32
	30	32-35
	31	32-88
Spring, Air Motor Pin	N/A	24-A30
Spring, Compression	N/A	24-B247
Spring, Idle Adjustment	N/A	24-A1
	N/A	24-A56
Spring, Idle Cutoff	N/A	24-A126
Spring, Idle Needle	N/A	24-340
Spring, Mixture Control	N/A	24-480
Spring, Pump Discharge	N/A	24-A115
Spring, Pump Inlet	N/A	24-A47
Spring, Throttle	N/A	24-487
	N/A	24-A10
	N/A	24-A33
	N/A	24-A39
	N/A	24-A443
	N/A	24-A469
	N/A	24-B38
	N/A	24-B72
Spring, Throttle Lever	N/A	24-262
Stud, Bellows Spring	N/A	83-479
Tool	N/A	M-134
Tool, Arbor Assembly	N/A	M-83
Tool, Assembly	N/A	M-519
Tool, Bushing Assembly	N/A	M-516
Tool, Clinching	N/A	M-109
Tool, Counterbore And Pilot Assembly	N/A	M-542
Tool, Float Setting	N/A	M-510
Tool, Float Valve Seat	N/A	M-103
Tool, Float Valve Seat	N/A	M-104
Tool, Gage Assembly	N/A	M-94
Tool, Peen Throttle Fly Screw	N/A	M-100

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Continued from previous column		
Description	**Fig**	**Part Number**
Tool, Punch	N/A	M-107
Tool, Punch	N/A	M-123
Tool, Seal Prot	N/A	M-522
Tool, Service	N/A	M-520
Tool, Socket	N/A	M-133
Tool, Staking, Expansion Plug	N/A	M-36902
Tool, Throttle Bush Reamer	N/A	M-108
Tool, Throttle Shaft Bushing Insert	N/A	M-86
Tool, Throttle Shaft Bushing Reamer	N/A	M-95
Tool, Throttle Shaft Packaging	N/A	M-105A
Tool, Throttle Shaft, Bushing	N/A	M-122
Tool, Throttle Shaft, Packing	N/A	M-105
Tool, Venturi Large	N/A	M-512
Tool, Venturi Rmv	N/A	M-120
Tube Assembly, Idle	N/A	229-541
	N/A	229-566
	N/A	229-567
	N/A	229-569
	N/A	229-572
	3	229-584
	N/A	229-585
	1	229-587
	N/A	229-588
	N/A	229-589
	N/A	229-592
	N/A	229-594
	N/A	229-596
	N/A	229-598
	N/A	229-599
	2	229-603
	N/A	229-608
	N/A	229-609
	N/A	229-650
	N/A	229-651
Tube, Pitot	N/A	154-100
	N/A	154-131
	N/A	154-131-1
Tube, Pump Discharge	N/A	229-164
Valve And Spring Assembly	N/A	34-516
Valve Assembly	N/A	242-542
	13	36-525
	12	36-540
	N/A	36-596
Valve Assembly, Mixture Control	N/A	242-508
	N/A	242-514
Valve Assembly, Mixture Meter	N/A	242-525
	N/A	242-528
Valve Assembly, Fuel, Cutoff	N/A	242-533
	N/A	242-537
	N/A	242-541
Valve Assembly, Pump, Check	14	36-587
Valve Assembly, Pump, Discharge	N/A	36-625
Valve, Throttle	N/A	14-172
	N/A	14-187
	N/A	14-189

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Continued from previous column		
Description	**Fig**	**Part Number**
Valve, Throttle	N/A	14-190
	N/A	14-277
	N/A	14-348
Valve, Idle, Cutoff	N/A	34-93
Valve, Pump, Discharge	N/A	34-72
	N/A	34-91
Venturi	N/A	46-A225
	N/A	46-A226
	N/A	46-A227
	N/A	46-A228
	N/A	46-A255
	5	46-A257
Venturi, Combo	6	46-F10
	N/A	46-F11
	N/A	46-F12
	N/A	46-F7
	N/A	46-F8
	N/A	46-F9
Washer	N/A	78-297
	N/A	78-A110
	N/A	78-A159
	N/A	78-A161
	N/A	78-A160
	N/A	78-A169
Washer	N/A	78-A305
	N/A	78-A40
Washer, Bowl Cover Screw	N/A	78-A122
Washer, Flat	N/A	78-1
	N/A	78-184
	N/A	78-A292
	N/A	78-A293
	N/A	78-A294
Washer, Horse Shoe	N/A	78-356
Washer, Lock Tab	N/A	78-A97
Washer, Mixture Control Lever	N/A	78-A109
Washer, Pump Stem Package	N/A	78-388
Washer, Pump Strainer	N/A	78-121
Washer, Ring Set	N/A	78-A295
Washer, Special Lock	N/A	78-357
	N/A	78-A111
Washer, Spring	N/A	78-430
Washer, Throttle Lever Spacer	N/A	78-420
Washer, Wave	N/A	78-A299

Carburetor to Engine Gaskets

FAA-PMA Approved Continental and Lycoming Engine Gaskets

In stock, ready to ship!



P/N 652105
P/N 652137



P/N SL60592
P/N SL66224

Manufactured by Superior Air Parts, Inc.

Engine Models	P/N	Location
Continental Series		
E-165,185,225	652137	Carburetor to Engine
O-470		
IO-470		
TSIO-360		
LTSIO-360		
A65, A75	652105	Carburetor to Engine
C125-2, C145-2,2H, C75, C85, C90		
O-200-A,B		
O-300-A,B,C,D		
Lycoming Series		
O-320, IO-320, AEIO-320, AIO-320, LIO-320,O-320-H	SL66224	Carburetor or Fuel Injector to Engine
O-340		
O-360, HO-360, IO-360, HIO-360, AIO-360, TIO-360, VO-360, IVO-360, LO-360 E1A6D, TO-360, LTO-360		
VO-435, TVO-435		
GO-480		
O-540, IO-540, TIO-540, VO-540, TIVO-540		
O-235-C1,B,C, C2A,C, F2A,B, H2C, J2A, K2A,B,C, L2A,C, M1, N2A,C, P2A	SL60592	Carburetor to Engine
O-290-D,D2,D2B,D2C		

Exhaust to Engine Cylinder Gaskets

FAA-PMA approved Continental and Lycoming Gaskets

- Blow-proof gaskets
- Save money now, and down the road!



P/N SL77611



P/N RA970



P/N RA628260

Manufactured by Superior RAPCO, Inc.

Continental Engine Model	Description	Part Number
A-65, A-75	Gasket, Engine Exhaust, Solid Gasket, Engine Exhaust, Spiral Wound	RA632837 RA627429
C85-12F		
C90-8F,12F,14F,16F		
E-165, E-185, E-225		
O-200-A,B		
O-300-A,C,D		
O-470-A,E,J		
TSIO-520-A,B,C,D,E,G,H,J,K,L,M,N,P,R,T,U	Gasket, Turbocharger Wastegate	RA636465
TSIO-520-AE,AF,BB,BE,CE,DB,EB,JB,KB,LB,NB,UB,VB,WB		
LTSIO-520-AE		
IO-360-A	Gasket, Engine Exhaust, Spiral Wound	RA628260
O-470-B,G,K,L,M,P,R,S,U,IO-470-D,U,V, TSIO-470-B		
GTSIO-520-C, TSIO-520-B,C,D		
IO-360-A,C,D	Gasket, Engine Exhaust, Spiral Wound	RA970
TSIO-360-A,B		
Lycoming Engine Model	**Description**	**Part Number**
O-340	Gasket, Engine Exhaust, Spiral Wound	SL77611
O-360, HO360-B, IO-360-A,B,C, HIO-360-A,B,C		
O-540-A,B,E,G,J,K, IGO-540-A, IGSO-540-A		
IO-320		
IO-720-A		
GO-480, GSO-480		
VO-435, TVO-435		
ISGO-430		
E1A4, E1B4, E1C4, TIO-541, TIO-541-A1A	Gasket, Engine Exhaust, Spiral Wound	RALW15486
	Gasket, Engine Exhaust, Solid	RALW15619

Airbox to Carburetor Gaskets

FAA-PMA approved!

- We have them in stock, ready for you!
- Eligible for Cessna and Piper Aircraft
- Drastic savings!
- MIL-SPEC Fuel Proof



P/N MC73451-07



P/N MC649974



P/N MC63684-04



P/N MC0750142-1



P/N MC2050005-1

Aircraft Models	Part Number
Cessna	
172I,K,L,172M[1],N,P, F172L,F172M[1]	MC649974
172Q	MC0750142-1
172R,S	MC2050005-1
175, 175A,B,C	MC0750142-1
180[2], 180A,B,C,D,E,F,G,H,180J[2],K	
182, 182A,B,C,D	
188, 188A,B	
Piper	
PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161 [3]	MC73451-07
PA-28-180, PA-28R-180, PA-28-181[4]	MC63684-04
PA-28R-200, PA-28R-201[5], PA28RT-201	
PA-28-235	
PA-28-236[6]	

Notes:

[1] 172M S/N 17260759 thru 17267584; F172M S/N F17200905 thru F17201234
[2] 180 S/N 32151 thru 32661; 180J s/n 18052285 thru 18052770
[3] PA-28-161 S/N 28-7716001 thru 28-8616057; 2816001 thru 2816119; 2841001 thru 2841365 2842001 thru 2842999
[4] PA-28-181 S/N 28-7690001 thru 28-8690062, 2890001 thru 2890231, 2843001 thru 2843999
[5] PA-28R-201 S/N 28R-7737002 thru 28R-7837317, 2837001 thru 2837061, 2844001 thru 2844999
[6] PA-28-236 S/N 28-7911001 thru 28-8611008, 2811001 thru 2811050

Avglas™ STC Repair Kit for Continental Steel Carburetor Heat Boxes

New hardened stainless steel bearing for vibration resistance and longer life!

FAA-PMA, STC Kits include:

- Replacement shaft, arm, and detent spring assembly
- Bearings
- Bearing housing
- Locknut and washer
- Complete instructions



P/N FG-105

Installation:
The butterfly (not included in kit) must be brazed or tack welded to the shaft during installation. The bearing housings must be brazed, tack welded, or flush riveted to the carburetor heat box. Avoid applying excessive heat during brazing or tack welding, or the heat-treated stainless steel bearing may be damaged.



P/N FG-SK-1

Engine Model	Continental Airbox P/N	Avglas P/N
C-75	50256	FG-100
C-85	50256	FG-100
C-90	50256	FG-100
O-200	628122, 653675, 641534	FG-100
O-300	530852, 531143	FG-105
Avglas repair kits only applicable to aircraft.		

Spring Service Kit P/N FG-SK-1
Eligible for installation on P/N FG-100 and FG-105.
Service kit contains (1) FG102S Spring and (2) MS20613-3-P3 Rivets

Control Arms, Shafts, and Bearing Housings for Cessna Air Boxes

Unique elastomer bearing replaces needle bearing

Our elastomer bearing is assembled with tension between the mating surfaces, which prevents micro-movement and related metal erosion. Our bearing contact area that transfers vibration motion from the heat box to the butterfly shaft is 100x greater than the original needle bearing. The large surface effectively prevents localized metal erosion.

- Absorbs shaft and butterfly vibration
- Eliminates needle bearing failures
- Increases service life of ***all*** components
- Direct replacement for original parts



Needle bearings don't work!



Costs less $$$ and never wears out!



Proven Design

- Tested over 700,000 cycles while exposed to avgas, heat, and vibration without performance change
- Extremely rugged and wear resistant in high temperature and fuel environments

Convenient

- Discontinued part numbers through the factory are now manufactured by McFarlane
- Also available in kits containing the shaft, arm, bearing housings, monel rivets, and roll pin

Model	Serial Number	Shaft P/N	Arm P/N	Roll Pin P/N [3]	Rivet P/N	Bearing Housing P/N	Kit P/N
152	All	MC0450068-2	MCS2280-8-00	MS16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
A152	All	MC0450068-2	MCS2280-8-00	MS16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
F152	All	MC0450068-2	MCS2280-8-00	MS16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
FA152	All	MC0450068-2	MCS2280-8-00	MS16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
172B,C	All	MC0550180-16	[2]	[2]	MS20615-4M9	MC0750113-1	CCH-KT-2
172D,E,F,G	All	MC0550180-28	[2]	[2]	MS20615-4M9	MC0750113-1	CCH-KT-3
F172D,E,F,G	All	MC0550180-28	[2]	[2]	MS20615-4M9	MC0750113-1	CCH-KT-3
172H,I,K,L,M,N,P	All	MC0550180-16	[2]	[2]	MS20615-4M9	MC0750113-1	CCH-KT-2
F172H,K,L,M,N,P	All	MC0550180-16	[2]	[2]	MS20615-4M9	MC0750113-1	CCH-KT-2
172Q	All	MC0509068-6	MC0750111-19	MS16562-17	MS20615-4M9	MC0750113-3	CCH-KT-4
P172	All	Not Available	Not Available	Not Available	MS20615-4M9	MC0750113-1	N/A
175, 175A	All	MC0750133-8	MC0750111-19	MS16562-17	MS20615-4M9	MC0750113-3	CCH-KT-5
175B,C	All	Not Available	Not Available	Not Available	MS20615-4M9	MC0750113-1	N/A
177	All	Not Available	Not Available	Not Available	MS20615-4M9	MC0750113-3	N/A
177A,B	All	MC1752078-4	MC0750111-19	MS16562-16	MS20615-4M9	MC955	CCH-KT-17
180 [1]	30000 thru 32150	MC0750112	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-7
180 [1], 180A,B	32151 thru 50661	MC0750126-19	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-3	CCH-KT-8
180C,D,E,F,G,H,J,K	All	MC0750133-8	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
182, 182A,B,C,D,E,F,G,H	All	MC0750133-8	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
182J,K,L,M,N,P,Q,R	All	MC0750133-8	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
F182P,Q	All	MC0750133-8	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
R182	All	Not Available	MCS2280-3-157	MS16562-205	MS20615-4M9	MC0750113-1	N/A
FR182	All	Not Available	MCS2280-3-157	MS16562-205	MS20615-4M9	MC0750113-1	N/A
185, 185A,B,C,D,E A185E [1]	185-0001 thru 185-1300	MC0750173-3	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-10
A185E [1]	185-1301 thru 18501832	MC0750173-4	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-11
188	188-0001 thru 18802348	MC0750133-8	MC0750111-19	MS16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
210-5 (205), 210-5A (205A)	All	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC0850500-37	N/A	N/A	MS20470AD4-7	MC0850500-31 [4]	CCH-KT-13
		MC1250311-1	MC0850500-30	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-14
		MC0850500-37	MC0850500-30	MS16562-27	MS20470AD4-7	MC0850500-31 [4]	CCH-KT-15
206, U206, U206A,B, P206, P206A,B	All	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC0850500-37	N/A	N/A	MS20470AD4-7	MC0850500-31 [4]	CCH-KT-13
		MC1250311-1	MC0850500-30	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-14
		MC0850500-37	MC0850500-30	MS16562-27	MS20470AD4-7	MC0850500-31 [4]	CCH-KT-15
U206C,D,E,F,G, P206C,D,E	All	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC1250311-1	MC0850500-30	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-14
207, 207A	All	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC1250311-1	MC0850500-30	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-14
210, 210A,B,C	All	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC0850500-37	N/A	N/A	MS20470AD4-7	MC0850500-31 [4]	CCH-KT-13
		MC1250311-1	MC0850500-30	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-14
		MC0850500-37	MC0850500-30	MS16562-27	MS20470AD4-7	MC0850500-31 [4]	CCH-KT-15
210D,E,F,G	All	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC1250311-1	MC1250718-1	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-16
210H,H,K,L,M,N [1]	21058937 thru 21064535	MC1250311-1	N/A	N/A	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-12
		MC1250311-1	MC0850500-30	MS16562-27	MS20470AD4-7	MC1250309-1 [4]	CCH-KT-14
310, 310B		N/A	MC0850500-30	N/A	N/A	N/A	N/A

[1] Partial model eligibility

[2] The control arm is integral with the shaft.

[3] Attach shaft to arm with the specified roll pin

[4] P/N MC0850500-31 and MC1250309-1 are not for sale individually unless the customer previously purchased the eligible corresponding shaft P/N MC0850500-37 or MC1250311-1.

Cessna Carburetor Heat Air Box Assembly

Remove that tired, old air box — Install NEW, not rebuilt!

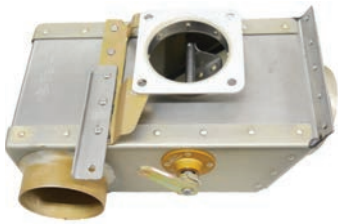
Finally a cost effective, improved air/heat system!

- New with improved components
- Direct replacement of original assembly
- Quality built with McFarlane bearing housings
- Transport Canada Part Design Approval — ships with Transport Canada Form One

Don't waste any more time or money with that old air box. Damaged components, misrepair, and inferior seals can cause dangerous conditions and the inability to clear away ice. McFarlane vibration absorbing bearings stop flapper (butterfly) vibration — no more needle bearing failures! New construction eliminates metal fatigue and cracks.

Replacement components are available separately.

Cessna 182 Air Boxes now available!



P/N 0552164-4AWL

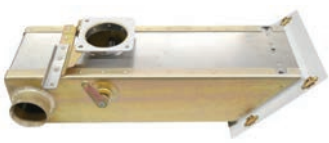
Save $$$

180/182/188 Air Box Collar/Flange
P/N 0750288-1AWL
Machined from solid material, rather than formed and heat-treated. This part comes un-drilled to better match your existing air box. It's intended to be riveted and installed with wet adhesive.

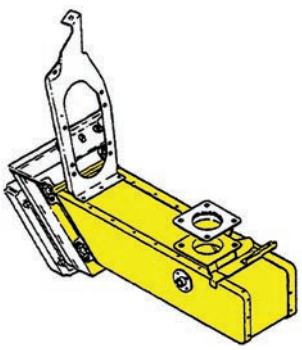
182 Top Skin
P/N 0750133-20AWL
Manufactured from stainless steel with a pulled-through stainless lip to attach to the top attach flange. We strongly suggest replacing with a new air box assembly if the air box has multiple cracks in multiple panels.

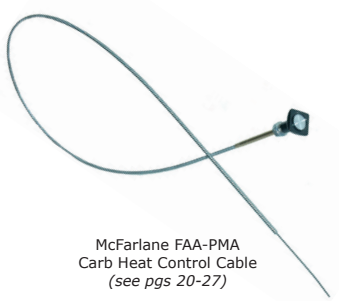
Air Box Flapper-Shaft Standoff
P/N 0750133-9AWL
This stainless steel flapper standoff should be replaced in sets of 2. Should be installed outside of the air box to ensure proper bucking of the rivets.

Manufactured by Acorn Welding



P/N 0552113-11AWL





McFarlane FAA-PMA
Carb Heat Control Cable
(see pgs 20-27)



P/N 0552169-6AWL

Aircraft Model	Part Number	Description
152, A152, F152, FA152	0550180-13AWL	Carb Attach Flange
172B,C,D,E,F,G,H	0750133-9AWL 0550180-10AWL 0550180-13AWL	Flapper Standoff Flapper Assembly Carb Attach Flange
172I,K	0550180-10AWL 0550180-13AWL 0552113-11AWL 1 0750133-9AWL	Flapper Assembly Carb Attach Flange Carb Air Box Flapper Standoff
172L,M	0550180-10AWL 0550180-13AWL 0552113-10AWL 0552113-13AWL 1 0750133-9AWL	Flapper Assembly Carb Attach Flange Air Box Center Panel Carb Air Box Flapper Standoff
172N,P	0552164-4AWL 0552169-6AWL 0550180-13AWL	Carb Air Box Flapper Assembly Carb Attach Flange
172RG	0550180-13AWL	Carb Attach Flange
F172D,E,F,G,H,K	0550180-10AWL 0550180-13AWL 0750133-9AWL	Flapper Assembly Carb Attach Flange Flapper Standoff
F172L,M	0550180-10AWL 0550180-13AWL 0552113-13AWL 1 0750133-9AWL	Flapper Assembly Carb Attach Flange Carb Air Box Flapper Standoff
F172N,P	0550180-13AWL 0552164-4AWL 0552169-6AWL	Carb Attach Flange Carb Air Box Flapper Assembly
P172D, 175, 175A,B,C, 177A,B	0750288-1AWL	Carb Attach Flange
180A,B	0750288-1AWL 0750126-21AWL 0750126-3AWL	Carb Attach Flange Air Box Air Box, Top Skin
180C,D,E,F,G,H,J,K	0750133-9AWL 0750288-1AWL 0750144-33AWL	Flapper Standoff Carb Attach Flange Air Box Assy
182,182A ***New!***	0750133-9AWL 0750288-1AWL 0750144-33AWL 0750133-1AWL 2 0750133-18AWL 3	Flapper Standoff Carb Attach Flange Airbox Assy Air Box Air Box
182B,C ***New!***	0750133-9AWL 0750288-1AWL 0750144-33AWL	Flapper Standoff Carb Attach Flange Air Box Assy
182D,E,F,G,H,J,K,L,M,N,P,Q,R F182Q ***New!***	0750133-9AWL 0750288-1AWL 0750144-33AWL 0750144-28AWL	Flapper Standoff Carb Attach Flange Air Box Assy Top Skin
188, 188A,B, A188, A188A	0750133-9AWL 0750288-1AWL 0750144-33AWL	Flapper Standoff Carb Attach Flange Air Box Assy

1 P/N 0552113-11AWL and 0552113-13AWL is offered with Dynamic Propeller STC/PMA seal P/N DP0552130-11 as a special order item
2 S/N 33000 thru 34440
3 S/N 34441 thru 51556

Maintenance Tip:

When there is excessive "slack" or lack of "sufficient friction" on the carb heat control cable the flapper (butterfly) will vibrate, wearing the airbox.

McFarlane's carb heat cables have a friction/tension system built in for reduced vibration wear, longer life, and smooth, consistent control; it has a special processed and heavier wire for more fatigue strength and reliability!

Replace your old, worn, carb heat cable with a new McFarlane FAA-PMA approved cable (see pages 23-30).

Carb Heat Box

Longer Life
P/N AD15005-00
PA-18 Series aircraft



- Self lubricating bearing for longer service life
- 304 stainless steel to prevent corrosion and rust
- FAA-PMA

Manufactured by F Atlee Dodge

Air Filter Dome for PA18-150

Reinforced to go the distance
P/N 3281



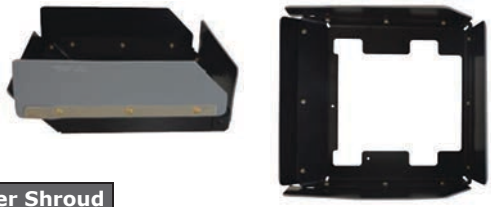
- Reinforced with a doubler around the attach hole
- Powder coated white
- FAA-PMA approved

Manufactured by F Atlee Dodge

Air Filter Shroud Assembly

New! FAA-PMA approved for Cessna aircraft
Our Air Filter Shroud Assembly body is built to last!

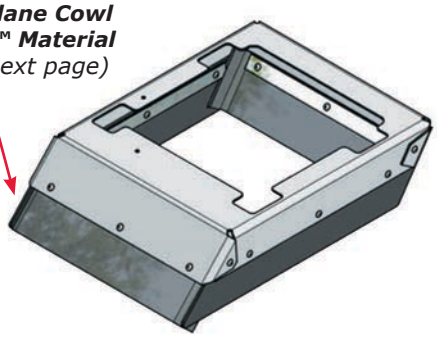
- Durable aluminum – costs less than OEM's plastic
- Low friction **Cowl Saver™** seals prevent cowl damage
- Helps cool the engine
- They're pretty too!



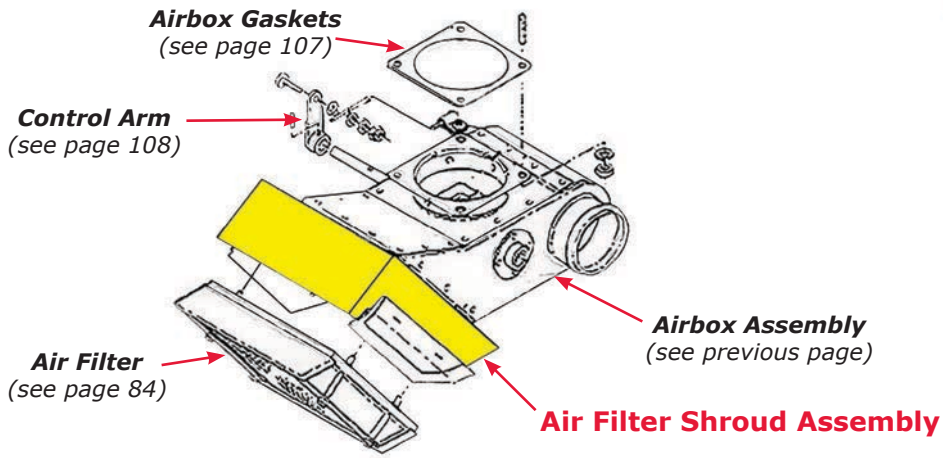
Aircraft	Air Filter Shroud Assembly P/N	Air Filter Shroud Seal Kit P/N
150L,M, A150L,M, F150L,M, FA150L,M	MC0452017-15	ABS-KT-03 [1]
152, A152, F152, FA152	MC0450066-5	ABS-KT-02 [1]
172L,M, F172L,M	MC0552130-11	ABS-KT-01 [1]

Notes:
[1] McFarlane Air Filter Shroud Seal Kits (ABS-KT-xx) are only eligible with McFarlane Air Filter Shroud Assemblies. Kits include necessary parts to replace worn seals: Rivets, Retaining Strips, and Seals.

McFarlane Cowl Saver™ Material
(see next page)



P/N MC0552130-11



Strong aluminum, not plastic!

Air Filter (Airbox) Shroud Assembly

By Dave McFarlane

What does the Air Filter (Airbox) Shroud do?

A lot of Cessna airplanes are flying with a broken or missing air filter shroud assembly. For many people, they seem to be unimportant because airplanes can fly without them. So, what does the shroud actually do?

Cessna engineers had a reason for putting a sealing shroud around the air cleaner. The shroud provides a seal between the air filter and the cowling, which prevents RAM air (from the propeller and forward motion of the aircraft) from entering the lower cowl. But why is that important?

The engine cooling system depends on RAM air to enter the cowl opening on top of the engine. The air circulates around the engine and then draws into the lower cowl area. The opening of the aft lower cowl creates low pressure, which helps draw the turbulent air out into the slip stream. The air filter shroud prevents the high-pressure RAM air from diluting the low pressure created in the lower cowl. In essence, the shroud helps cool the engine by improving air flow through the cowl. The shroud is particularly important during climbs, ground operations, and hot weather flying.

Why does the Cessna Shroud Fail So Often?

The engine is constantly in motion, as a reaction to the firing of each cylinder. The cowl is fixed to the airframe with little flexibility. Since the airbox is a long way from the center of engine motion, it moves a lot in relation to the cowling. The seal friction restricts the airbox motion, which transfers a lot of energy into the plastic shroud. The plastic also ages with oil, solvents, and radiant heat. This plastic degradation combined with the constant energy from motion quickly fails the plastic shrouds. It is very important that you ensure that the shroud seals are in proper position after the lower cowl is installed.



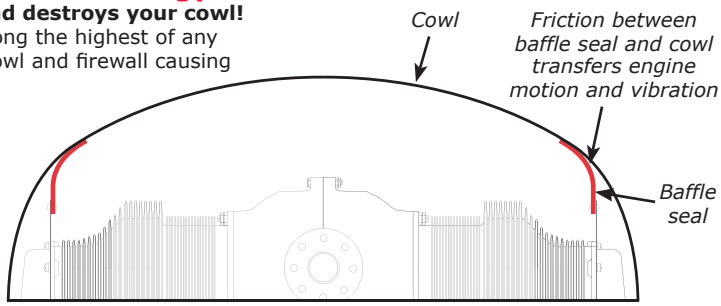
Cowl Saver™ Baffle Seal Material

Reduce airframe vibration, cowl chaffing, and erosion

***Bi-Flex™** Technology: custom flexibility, maximum cooling, and minimum friction*

Cowl Saver™ Baffle Seal Material with Bi-Flex™ Technology

Prevent baffle seal friction that causes airframe vibration and destroys your cowl!
Typical silicone rubber baffle seals have a coefficient of friction among the highest of any known material. This friction transfers engine vibration into your cowl and firewall causing fastener fretting, fatigue, cracking, chaffing and airframe vibration.



US Patent No. 8,070,099

Cowl Saver™ Baffle Seal Material has 30x less friction!

- Half of the engine vibration you feel in the cockpit is from baffle seal transfer
- Dramatically reduces friction between the cowl and baffle seals
- One side is silicone and the other is a low friction Teflon coated rubber, unique to our patented **Cowl Saver™**!

Low friction saves you $$$

- Reduces vibration transfer to the engine cowl and airframe
- Less fatigue and cracking in baffles, cowl skins, and firewall
- Eliminates cowl erosion
- Extends baffle seal life
- Reduces expensive cowl and cowl fastener repairs
- The cowling even goes on easier!

Unbeatable performance

- Ideal balance of flexibility and stiffness
- Fiberglass reinforced
- Meets industry standard AMS3320G
- McFarlane quality you can count on!

*Read about **Bi-Flex™ Technology** on the following page!*

You will feel the difference!
*Satisfaction **GUARANTEED**!*



36-month
Money-back Guarantee!

Cowl Saver™ Baffle Seal Material

Part Number	Thickness	Size
CS085X3X36GBF	0.085 in	3 in wide, sold in 3 ft MOQ with **Bi-Flex™**
CS085X18X36G	0.085 in	18 in X 36 in (3 ft)
CS085X36X36G	0.085 in	36 in X 36 in (3 ft)
CS085X3X108GBF	0.085 in	3 in X 108 in (9 ft) with **Bi-Flex™**
CS085X3X156GBF	0.085 in	3 in X 156 in (13 ft) with **Bi-Flex™**
Color: Black/Gray		

Convenient Baffle Seal Repair Kits

Kit Components P/N BAFFLE-KIT-1BF with Bi-Flex™

Qty	Part Number	Description
1	CS085X3X108GBF	3 in X 108 in (9ft) **Cowl Saver™** with **Bi-Flex™**
1	RIVET-KIT-2	Baffle Seal Rivet Kit
10	6036-012	Baffle Seal Retainer Strips

Note: Best for small aircraft with straight baffle seals

Kit Components P/N BAFFLE-KIT-2

Qty	Part Number	Description
1	CS085X18X36G	18 in X 36 in (3ft) **Cowl Saver™**
2	RIVET-KIT-2	Baffle Seal Rivet Kit
20	6036-012	Baffle Seal Retainer Strips

Note: Recommended for most aircraft. Allows fabrication of straight, curved, or irregular shaped baffle seals.

Kit Components P/N BAFFLE-KIT-3BF with Bi-Flex™

Qty	Part Number	Description
1	CS085X3X156GBF	3 in X 156 in (13ft) **Cowl Saver™** with **Bi-Flex™**
1	RIVET-KIT-2	Baffle Seal Rivet Kit
14	6036-012	Baffle Seal Retainer Strips

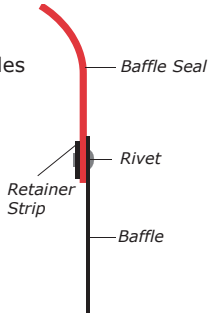
Best for aircraft with straight baffle seals

Baffle Seal Retainer Strip

P/N 6036-012

Use as a retainer for riveting baffle seals to baffles

- 0.050 inch thick 6061-T6 aluminum
- Corrosion resistant
- Economical
- 7/16" X 12" strips (cut to length during installation)
- Clamps better than washers or light gauge sheet metal



Baffle Seal Rivet Kit

P/N RIVET-KIT-2

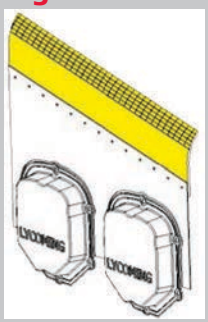
- Soft rivets that won't deform baffles
- Several sizes for various baffle thicknesses and hole sizes

RIVET-KIT-2	
Qty	**Rivet P/N**
100	MS20470A3-5
100	MS20470A4-5
100	MS20470A4-6
Rivets included are approx.	



Custom Flexibility for Optimal Cooling

Flexibility to only the areas of the baffle seal that you choose



Cowl Saver™ baffle seal material can be extremely flexible for the perfect cowl seal *and* rigid elsewhere to prevent the seal from blowing past the cowl contact line. With other baffle seal materials, you compromise by choosing either rigid enough material to not blow past the cowl contact line, or material that is flexible enough to blend to the contours of the engine cowl to ensure a good seal. Either choice results in less than optimal engine cooling. With Cowl Saver™, you no longer have to compromise.

Cowl Saver™ material has a layer of black Teflon (clear for older material) bonded to a flexible reinforced silicone rubber base. In addition to low friction, the Teflon also gives the laminate the solid stiffness needed near the engine baffle to prevent the seal from blowing past the cowl contact line. This extra stiffness, however, is not always desirable in the area that the material seals against the contours of the cowl.

Where extra flexibility is needed to make a good air seal, the black Teflon layer can simply be scored in a cross hatch, diagonal or parallel line pattern.

With care, a normal razor blade may be used, or McFarlane **P/N TOOL120** has more efficiency and greater control of cutting depth. Alternatively, for straighter sections, 3-inch wide rolls of Cowl Saver™ material with **Bi-Flex™** technology may be used.

The extreme bond of the Teflon layer is not affected by the scoring. The score line spacing and the extent of the score pattern control the amount of flexibility. The score line orientation and the type of pattern control the direction(s) of flexibility. Score patterns as small as 1/8 inch form little islands of friction free Teflon that has shown good durability while providing the extreme flexibility of soft silicone rubber.

For Bi-Flex™ material with precision laser engraved flex pattern, see pg 111



3-inch roll with Bi-Flex™
P/N CS085X3X108GBF

This customization can be performed when doing a new baffle seal installation or to perfect the fit and seal of an existing installation. As long as care is taken to just score the Teflon layer and as little of the silicone as possible (do not cut the fiberglass reinforcing layer), the material will still meet the original AMS3306 specification to which it was certified.

Cowl Saver™ Scoring Tool

P/N TOOL120



Only for use on the Teflon side of Cowl Saver™ baffle seal material

Customize Cowl Saver™ baffle seal material to be extremely flexible for the perfect seal.

This unique tool has 3 circular razor blades, spaced 0.16" apart, making it fast and easy to score the stiff outer layer of the Cowl Saver™ material where more flexibility is required. The spacers precisely control the depth of the cuts to prevent material damage.

- You control the amount of flexibility
- Use on a new baffle seal installation or perfect the fit and seal of an existing installation
- Material still meets the original AMS3306 specification to which it was certified as long as the fiberglass reinforcing layer has not been cut
- Replacement blade kit also available (P/N TOOL120-BKT)



Cowl Saver™ Baffle Seal Kits for Cessna Aircraft

Reduce airframe vibration, cowl cracks, and firewall cracks with our complete Cowl Saver™ kits!

U.S. Patent No. 8,070,099

- Unbeatable performance – ideal balance of flexibility and stiffness
- 30x less friction – eliminating cowl erosion
- Reduce fatigue and expensive baffle, cowl and firewall repairs
- Eliminate guess work! Kits include all required baffle seals, soft rivets, and McFarlane P/N 6036-012 retainer strips
- Cut to fit, saving you time and money
- Individual baffles available for sale

Now with Bi-Flex™ Technology!

Precision laser engraved flex pattern ensures optimum flexibility/stiffness combination for maximum cooling and minimum friction.



Cowl Saver™ Baffle Seal Kits with Bi-Flex™ Technology

Reduce airframe vibration, stop cowl and firewall cracks

Scan the QR Code to see the difference in vibration of our Cowl Saver™ compared to the standard competitive silicone!

COMING SOON!

Cowl Saver™ will be available on Airforms Engine Baffle Kits

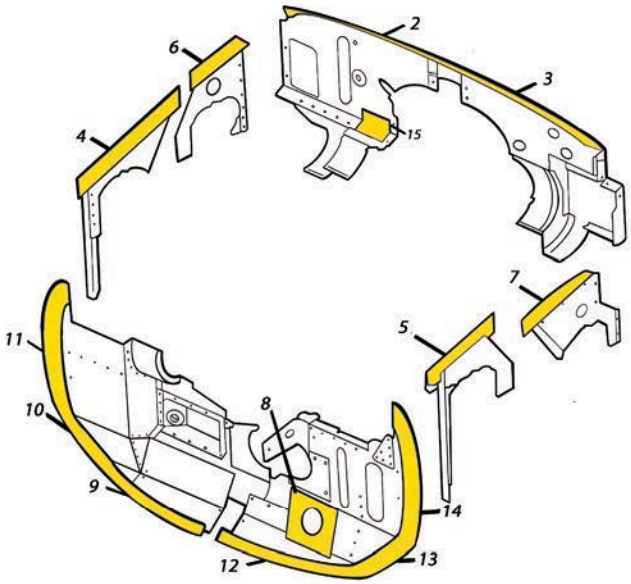
Contact our team for available options: 800-544-8594

Model	Serial Number	Kit P/N
150, A,B,C	All	BSC-KT-2
150D,E,F,J,K A150K F150F,G,H,J,K FA150K FA150L,M [1]	All	BSC-KT-3
150L,M A150L,M F150L,M	All	BSC-KT-4
152	152079406 thru 152083591	BSC-KT-5
	152083592 thru 152085066	BSC-KT-6
	152085067 thru 152086033	BSC-KT-7
A152	A1520735 thru A1520878	BSC-KT-5
	A1520879 thru A1520974	BSC-KT-6
	A1520975 thru A1521049	BSC-KT-7
F152	F15201429 thru F15201673	BSC-KT-5
	F15201674 thru F15201928	BSC-KT-6
	F15201929 thru F15201980	BSC-KT-7
FA152	FA1520337 thru FA1520357	BSC-KT-5
	FA1520358 thru FA1520382	BSC-KT-6
	FA1520383 thru FA1520425	BSC-KT-7
172R	17280001 and on	BSC-KT-1
172S	172S80001 and on	

[1] When equipped w/FKA150-2311 and FKA150-2316

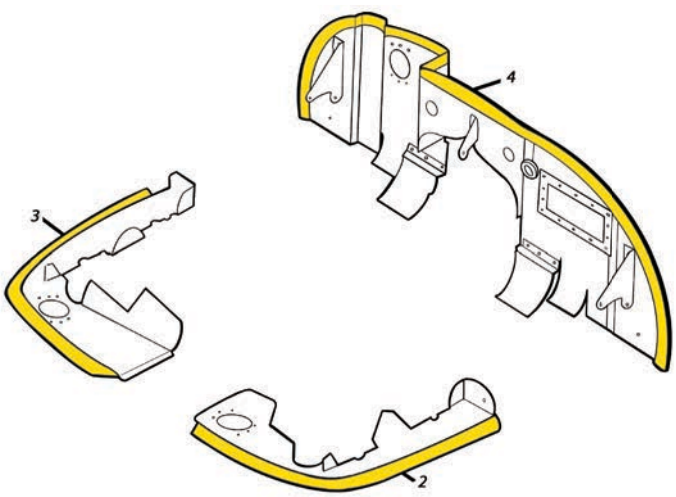
Kit components continue on the following pages

BSC-KT-1



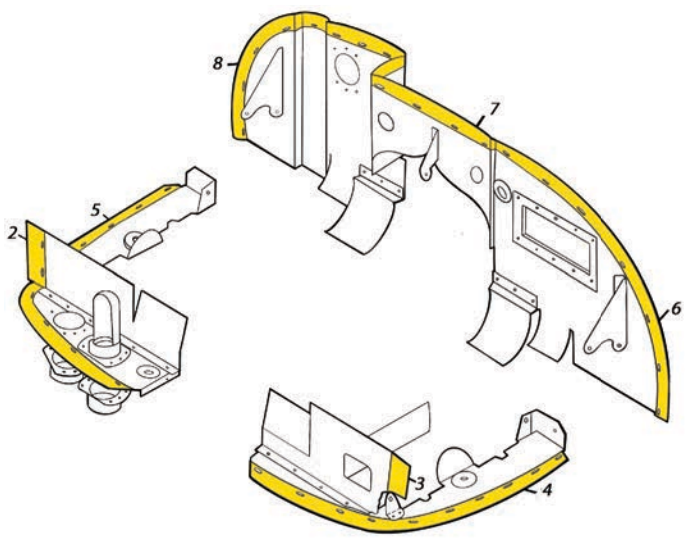
P/N BSC-KT-1 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0509069-4	2	Right Aft	1
MC0509070-4	3	Left Aft	1
MC0509071-2	4	Cylinder 1 Right Forward	1
MC0509072-4	5	Cylinder 2 Left Forward	1
MC0509073-6	6	Cylinder 3 Right Aft	1
MC0509074-2	7	Cylinder 4 Left Aft	1
MC0509079-2	8	Air Intake for Heat Muffler	1
MC0555250-17	9	Forward Right Lower	1
MC0555250-18	10	Forward Right Middle	1
MC0555250-19	11	Forward Right Upper	1
MC0555259-25	12	Forward Left Lower	1
MC0555259-26	13	Forward Left Middle	1
MC0555259-27	14	Forward Left Upper	1
MC2455076-1	15	Right Aft Sub Panel	1
6036-012	N/A	Retainer Strip	14
MS20470A4-5	N/A	Soft Rivet	100

BSC-KT-2



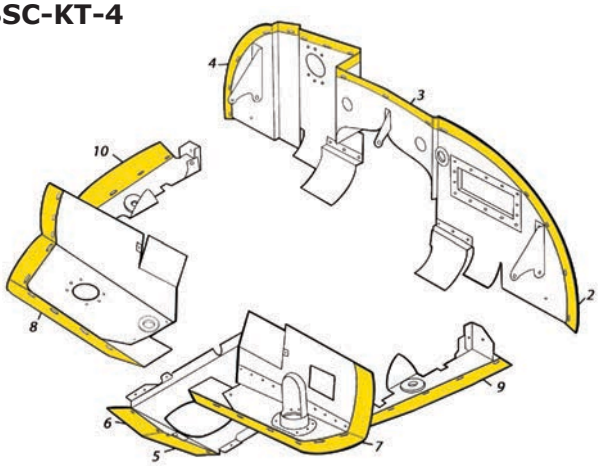
P/N BSC-KT-2 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0450502-12	2	Seal, Baffle, Left Cylinder	1
MC0450502-13	3	Seal, Baffle, Right Cylinder	1
MC0450502-6	4	Seal, Baffle, Rear Assembly	1
6036-012	N/A	Retainer Strip	6
MS20470A4-5	N/A	Soft Rivet	100

BSC-KT-3



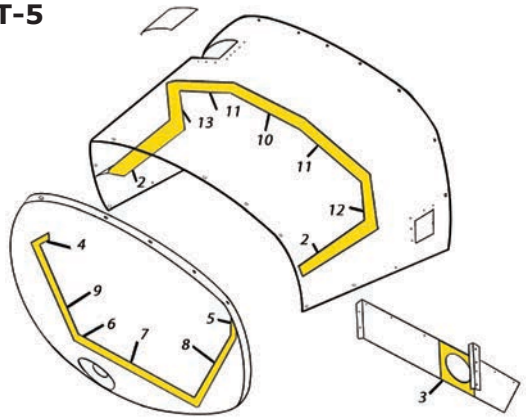
P/N BSC-KT-3 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0450302-4	2	Seal, Baffle, Left Cylinder	1
MC0450303-3	3	Seal, Baffle, Right Cylinder	1
MC0450502-12	4	Seal, Baffle, Left Cylinder	1
MC0450502-13	5	Seal, Baffle, Right Cylinder	1
MC0450502-28	6	Seal, Baffle, Rear Left	1
MC0450502-29	7	Seal, Baffle, Rear Center Assy	1
MC0450502-30	8	Seal, Baffle, Rear Right	1
6036-012	N/A	Retainer Strip	7
MS20470A4-5	N/A	Soft Rivet	100

BSC-KT-4



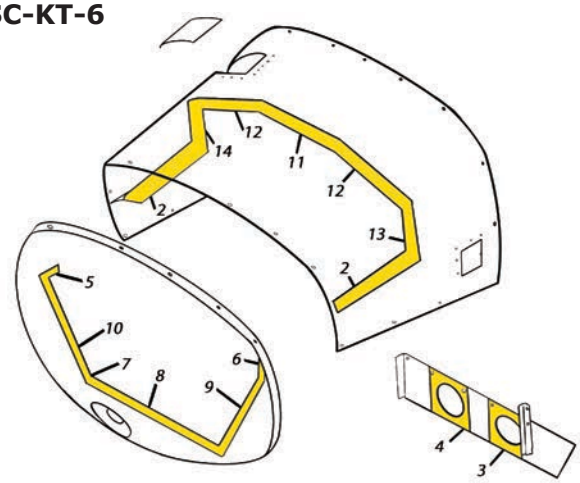
P/N BSC-KT-4 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0450502-28	2	Seal, Baffle, Rear Left	1
MC0450502-29	3	Seal, Baffle, Rear Center Assy	1
MC0450502-30	4	Seal, Baffle, Rear Right	1
MC0455000-13	5	Seal, Baffle, Lower Left	1
MC0455000-6	6	Seal, Baffle, Lower Right	1
MC0455000-7	7	Seal, Baffle, Front Left	1
MC0455001-10	8	Seal, Baffle, Front Right	1
MC0455001-7	9	Seal, Baffle, Left Cylinder	1
MC0455001-8	10	Seal, Baffle, Right Cylinder	1
6036-012	N/A	Retainer Strip	14
MS20470A4-5	N/A	Soft Rivet	100

BSC-KT-5



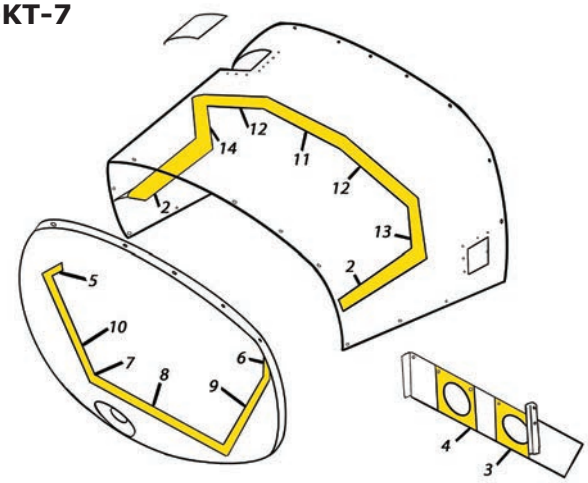
P/N BSC-KT-5 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0452220-5	2	Seal, Baffle, Lower Cowl	2
MC0455018-20	3	Seal, Baffle, Heat Muffler	1
MC0455024-11	4	Seal, Baffle, Upper Right	1
MC0455024-14	5	Seal, Baffle, Upper Left	1
MC0455024-18	6	Seal, Baffle, Lower Right	1
MC0455024-5	7	Seal, Baffle, Forward Center	1
MC0455024-6	8	Seal, Baffle, Forward Left	1
MC0455024-8	9	Seal, Baffle, Forward Right	1
MC0455026-3	10	Seal, Baffle, Middle Cowl	1
MC0455026-4	11	Seal Baffle, Inner Cowl	2
MC0455026-5L	12	Seal, Baffle, Vertical Cowl, Left	1
MC0455026-5R	13	Seal, Baffle, Vertical Cowl, Right	1
6036-012	N/A	Retainer Strip	14
MS20470A4-5	N/A	Soft Rivet	100

BSC-KT-6



P/N BSC-KT-6 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0452220-5	2	Seal, Baffle, Lower Cowl	2
MC0455018-20	3	Seal, Baffle, Heat Muffler	1
MC0455018-28	4	Seal, Baffle, Heat Muffler	1
MC0455024-11	5	Seal, Baffle, Upper Right	1
MC0455024-14	6	Seal, Baffle, Upper Left	1
MC0455024-18	7	Seal, Baffle, Lower Right	1
MC0455024-5	8	Seal, Baffle, Forward Center	1
MC0455024-6	9	Seal, Baffle, Forward Left	1
MC0455024-8	10	Seal, Baffle, Forward Right	1
MC0455026-3	11	Seal Baffle, Middle Cowl	1
MC0455026-4	12	Seal, Baffle, Inner Cowl	2
MC0455026-5L	13	Seal, Baffle, Vertical Cowl, Left	1
MC0455026-5R	14	Seal, Baffle, Vertical Cowl, Right	1
6036-012	N/A	Retainer Strip	19
MS20470A4-5	N/A	Soft Rivet	100

BSC-KT-7



P/N BSC-KT-7 Kit Components			
Part Number	**Index**	**Description**	**Quantity**
MC0452220-5	2	Seal, Baffle, Lower Cowl	2
MC0455018-20	3	Seal, Baffle, Heat Muffler	1
MC0455018-28	4	Seal, Baffle, Heat Muffler	1
MC0455024-11	5	Seal, Baffle, Upper Right	1
MC0455024-14	6	Seal, Baffle, Upper Left	1
MC0455024-18	7	Seal, Baffle, Lower Right	1
MC0455024-25	8	Seal, Baffle, Forward Center	1
MC0455024-6	9	Seal, Baffle, Forward Left	1
MC0455024-8	10	Seal, Baffle, Forward Right	1
MC0455026-3	11	Seal Baffle, Middle Cowl	1
MC0455026-4	12	Seal, Baffle, Inner Cowl	2
MC0455026-5L	13	Seal, Baffle, Vertical Cowl, Left	1
MC0455026-5R	14	Seal, Baffle, Vertical Cowl, Right	1
6036-012	N/A	Retainer Strip	19
MS20470A4-5	N/A	Soft Rivet	100

Engine Baffling for Cessna, Piper, Grumman, Mooney, and more

Offering FAA-PMA complete kits for hundreds of aircraft in bare aluminum and powder coated options

AIRFORMS

Alaska Bush Tough!

Airforms is located in the heart of the Alaskan aviation scene. Their products are developed from real world needs of experienced Alaskan bush pilots and operators. All Airforms parts are manufactured using state-of-the-art CAD/CAM technology and CNC equipment combined with exemplary craftsmanship to provide the highest quality product.





COMING SOON!

Cowl Saver™ will be available on Airforms Engine Baffle Kits

Contact our team for available options: 800-544-8594



Complete Engine Baffle Kits

Keep your engine cool with new baffle kits!

- 6061-T6 aluminum with black high temperature fiberglass reinforced silicone seals pre-installed (orange or blue seals available)
- Coming soon! ***Cowl Saver™*** Baffle Seal Material will be available on Airforms Engine Baffle Kits
- Bare aluminum or gray powder coat finish
- Individually interchangeable with factory baffles

Many Improvements

- Stainless steel brackets where needed
- Hard rivet construction
- 1/2” back plates to secure seals
- Improved fit

Notes

- If aftermarket components (starter, alternator, exhaust, engine mod, etc.) are installed, it is the installer’s responsibility to adjust baffles to fit.
- Mounting hardware is not included (nuts, bolts, screws, Tinnerman clips, etc)



Eligibility tables contain black seals.
For **blue or orange** seals use suffix:

- BRBL (Bare Aluminum Blue Seals)
- BROR (Bare Aluminum Orange Seals)
- PCBL (Powder Coat Blue Seals)
- PCOR (Powder Coat Orange Seals)

Cowl Saver coming soon!

Aircraft Model	Serial Number	Bare Aluminum P/N	Powder Coat P/N	Figure
Beechcraft				
95-B55	TC-1386 thru TC-2002	B9555-BRBK	B9555-PCBK	19
Cessna				
120/140	All	C120140-BRBK	C120140-PCBK	43
150D,E,F,G,H,J,K	All	C150-6470BRBK	C150-6470PCBK	20
150L,M, A150L,M, FA150L	All	C150-7177BRBK	C150-7177PCBK	3
152	15279406 thru 15283591	C152-7879BRBK	C152-7879PCBK	4
	15283592 thru 15285594	C152-8082BRBK	C152-8082PCBK	4
	152-85595 and on	C152-8386BRBK ***New!***	C152-8386PCBK ***New!***	49
A152	A1520735 thru A1520878	C152-7879BRBK	C152-7879PCBK	4
	A1520879 thru A1521014	C152-8082BRBK	C152-8082PCBK	4
	A152-01015 and on	C152-8386BRBK ***New!***	C152-8386PCBK ***New!***	49
F152	F15201429 thru F15201673	C152-7879BRBK	C152-7879PCBK	4
	F15201674 thru F15201928	C152-8082BRBK	C152-8082PCBK	4
	F152-01929 and on	C152-8386BRBK ***New!***	C152-8386PCBK ***New!***	49

Notes: Black, blue, or orange seals are available. P/Ns listed contain black seals. To purchase with blue or orange seals use suffix: BRBL (Bare Aluminum Blue Seals), BROR (Bare Aluminum Orange Seals), PCBL (Powder Coat Blue Seals), PCOR (Powder Coat Orange Seals).

1 Partial model eligibility.

2 To determine the part number required see oil cooler configuration with applicable figure.

3 Baffle kits and components have received Alternative Method Of Compliance (AMOC) from the FAA for AD 93-23-13. Mandatory 50 hour inspection is no longer required.

4 P/N AF0550165-2 and AF0550165-6 are available in black only.

5 There is some overlap with the baffle design in these serial number ranges. See figures 9 and 10 to determine required part number.

6 Baffle seals are available in black only.

Continued on next page

Complete Engine Baffle Kits continued from previous page

Product images on the following pages

Aircraft Model	Serial Number	Bare Aluminum P/N	Powder Coat P/N	Figure
Cessna continued from previous page				
FA152	FA1520337 thru FA1520357	C152-7879BRCS	C152-7879PCCS	4
	FA1520358 thru FA1520382	C152-8082BRCS	C152-8082PCCS	4
	FA152-0383 and on	C152-8386BRCS ***New!***	C152-8386PCCS ***New!***	49
170A,B [1] [6]	18730 thru 25372	C170A-4952BRPS	C170A-4952PCPS	5
170B [1]	25373 and on	C170B172-BRCS	C170B172-PCCS	6
172 [1] [4]	28000-36965			
172B,C	17247747 thru 17249544	C172BC-BRCS ***New!***	C172BC-PCCS ***New!***	52
172D,E,F F172D,E,F	17249545 thru 17253392, F172-0001 thru F172-0179	C172DEF-BRCS ***New!***	C172DEF-PCCS ***New!***	51
172I,K,L,M [1]	17256513 thru 17261898	C172IKL68-M73-BRCS	C172IKL68-M73-PCCS	7
F172L,M [1]	F17200805 thru F17201034			
172M [1]	17261899 thru 17267584	C172M-7476BRCS	C172M-7476PCCS	8
F172M [1]	F17201035 thru F17201514			
172N [1]	17267585 thru 17271953	C172N-77795BRCS [5] [7]	C172N-77795PCCS [7]	9
F172N [1]	F17201515 thru F17201909			
172R	17280001 thru 17280697	N/A	C172R-9798PCCS	12
	17280698 thru 17281233		C172R-9904PCCS	13
172N [1]	17271954 thru 17274009	C172N-79580BRCS [5] [8]	C172N-79580PCCS [8]	10
F172N [1]	F17201910 thru F17202039			
172P, F172P	All	C172P-BRCS	C172P-PCCS	11
172S	172S8001 thru 172S9770	N/A	C172S-98045PCCS	14
172RG	172RG0001 thru 172RG0817, 172RG0891 thru 172RG1191	C172RG-BRCS	C172RG-PCCS	15
177	All	C177-68BRCS	C177-68PCCS	16
177B	17701774 thru 17702123	C177-7374BRCS	C177-7374PCCS	17
177RG	177RG0593 thru 177RG1366	C177RG-7578BRCS	C177RG-7578PCCS	18
180, 180A,B,C,D,E,F,G,H,J,K 182A,B,C,D,E,F,G,H,J,K,L,M,N,P [1]	32151 and on 34755 thru 18262465	C180182-PKGA-BRCS [2]	C180182-PKGA-PCCS [2]	1
		C180182-PKGB-BRCS [2]	C180182-PKGB-PCCS [2]	
		C180182-PKGD-BRCS [2]	C180182-PKGD-PCCS [2]	
182P [1] F182P	18262466 thru 18265175 F18200001 thru F18200025	C182-7476-PKGG-BRCS [2]	C182-7476-PKGG-PCCS [2]	2
		C182-7476-PKGH-BRCS [2]	C182-7476-PKGH-PCCS [2]	
182Q,R F182Q	18265176 thru 18268615 F18200026 thru F18200169	C182-7786-PKGG-BRCS [2]	C182-7786-PKGG-PCCS [2]	21
		C182-7786-PKGH-BRCS [2]	C182-7786-PKGH-PCCS [2]	
182T, T182T	182-81318 and on	C182T-BRCS ***New!***	C182T-PCCS ***New!***	48
R182RG [1] FR182 [1]	R182-00001 thru 01313 FR182-00001 thru 00045	CR182RGII-7879-BRCS ***New***	CR182RGII-7879-PCCS ***New***	
R182RG [1]	R182-01789 thru 02041	CR182RGII-81586-BRCS ***New***	CR182RGII-81586-PCCS ***New***	
TR182RG FR182 [1]	R182-01314 thru 01628 FR182-00046 thru 00070	CTR182RGII-80-BRCS ***New!***	CTR182RGII-80-PCCS ***New!***	
185, 185A,B,C,D,E A185E,F	All	C185-PKGJ-BRCS [2]	C185-PKGJ-PCCS [2]	22
		C185-PKGK-BRCS [2]	C185-PKGK-PCCS [2]	
206, U206A,B,C,D,E [1]	206-0001 thru U20601604	C206-64715-PKGE-BRCS [2]	C206-64715-PKGE-PCCS [2]	23
		C206-64715-PKGF-BRCS [2]	C206-64715-PKGF-PCCS [2]	
		C206-64715-PKGI-BRCS [2]	C206-64715-PKGI-PCCS [2]	
U206F [1],G	U20602200 thru U20607020	C206-7486BRCS	C206-7486PCCS	24
P206, P206A,B,C,D,E	All	CP206-BRCS [2]	CP206-PCCS [2]	23
207	20700001 thru 20700268	C207-6975-PKGE-BRCS [2]	C207-6975-PKGE-PCCS [2]	23
		C207-6975-PKGF-BRCS [2]	C207-6975-PKGF-PCCS [2]	
		C207-6975-PKGI-BRCS [2]	C207-6975-PKGI-PCCS [2]	
210K,L [1]	21059200 thru 21060089	C210-7073BRCS	C210-7073PCCS	25
210L [1],M,N	21061040 thru 21064897	C210-7680BRCS	C210-7680PCCS	24
401, 401A,B, 402, 402A,B,C, 414, 414A	All	C402414-BRCS	C402414-PCCS	26
Grumman				
AA-5A	All	AA5A-BRCS	AA5A-PCCS	27
AA-5B	All	AA5B-BRCS	AA5B-PCCS	28

Notes: Premium Cowl Saver™, standard black, blue, or orange seals are available. P/Ns listed contain premium Cowl Saver™ seals. To purchase with blue or orange seals use special suffixes listed in the description on the previous page.

[2] To determine the part number required see oil cooler configuration with applicable figure.

[3] Baffle kits and components have received Alternative Method Of Compliance (AMOC) from the FAA for AD 93-23-13. Mandatory 50 hour inspection is no longer required.

[4] P/N AF0550165-2 and AF0550165-6 are available in black only

[5] There is some overlap with the baffle design in these serial number ranges. See figures 9 and 10 to determine required part number.

[6] Baffle seals are available in black only.

[7] Firewall mounted Oil Cooler.

[8] Baffle mounted Oil Cooler.

Continued on next page

Complete Engine Baffle Kits continued from previous page

Product images continue on the following pages

Aircraft Model	Serial Number	Bare Aluminum P/N	Powder Coat P/N	Figure
Mooney				
M20J	24-0001 thru 24-1623 and 24-1632 thru 24-3431	M20J-BRCS	M20J-PCCS	29
Piper				
PA-18 "150"	1809001 thru 1809079, 18-3781 thru 18-8309025	PA18150-BRCS	PA18150-PCCS	30
PA-22-150	22-2425 thru 22-7630	PA22150-BRCS	PA22150-PCCS	31
PA-28-140	28-20002 thru 28-7125471	PA28140-64715BRCS	PA28140-64715PCCS	32
	28-7125472 thru 28-7725291	PA28140-71577BRCS ***New!***	PA28140-71577PCCS ***New!***	50
PA-28-161	All	PA28161-BRCS	PA28161-PCCS	33
PA-28-180	28-1761 thru 28-7205091	PA28180-65725BRCS	PA28180-65725PCCS	34
	28-7205092 thru 28-7505259	PA28180-72.575BRCS	PA28180-72.575PCCS	35
PA-28-181	28-8090001 thru 28-8690056	PA28181-2BRCS	PA28181-2PCCS	36
	28-8690061 and 28-8690062			
	2843001 thru 2843999	PA28181-3BRCS	PA28181-3PCCS	
PA-28-235	28-10003 thru 28-7210033	PA28235-BRCS	PA28235-PCCS	37
PA-28-236	All	PA28236-BRCS	PA28236-PCCS	38
PA-28R-200	28R-35001 thru 28R-7635545	PA28R200-BRCS	PA28R200-PCCS	39
PA-28R-201	All	PA28R201-BRCS	PA28R201-PCCS	40
PA-30 [1]	30-542 thru 30-1744, excluding 30-1717	PA30-BRCS	PA30-PCCS	41
PA-30 [1]	30-1745 thru 2000	PA30-69-BRCS ***New!***	PA30-69-PCCS ***New!***	
PA-31 (PA-31-310) [3]	31-2 thru 31-822031	PA31310-BRCS	PA31310-PCCS	45
PA-31-325 [3] PA-31-350, PA-31-350 (T1020) [3]	31-7512001 thru 31-8312019 31-7305001 thru 31-8553002	PA31325350-BRCS	PA31325350-PCCS	46
PA-32-260	32-1 thru 32-1033	PA32260-6568.5BRCS	PA32260-6568.5PCCS	44
	32-1034 thru 32-7800008	PA32260-68.578BRCS	PA32260-68.578PCCS	
PA-32-300	32-7640072 thru 32-7940290	PA32300-BRCS	PA32300-PCCS	47
PA-39	39-1 thru 155	PA30-69-BRCS ***New!***	PA30-69-PCCS ***New!***	
PA-44-180	All	PA44180-BRCS	PA44180-PCCS	42

Notes: Premium Cowl Saver™, standard black, blue, or orange seals are available. P/Ns listed contain premium Cowl Saver™ seals. To purchase with blue or orange seals use special suffixes listed in the description on the previous pages.

[1] Partial model eligibility.

[2] To determine the part number required see oil cooler configuration with applicable figure.

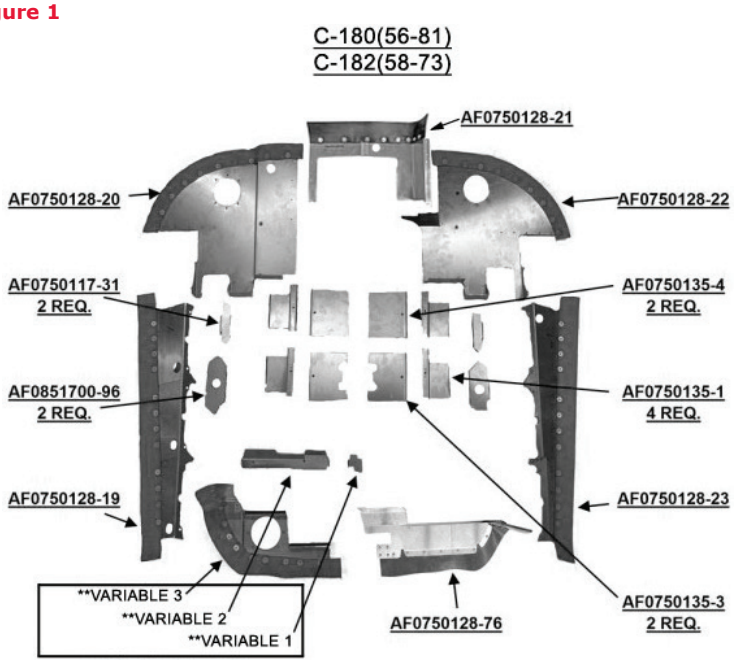
[3] Baffle kits and components have received Alternative Method Of Compliance (AMOC) from the FAA for AD 93-23-13. Mandatory 50 hour inspection is no longer required.

[4] P/N AF0550165-2 and AF0550165-6 are available in black only.

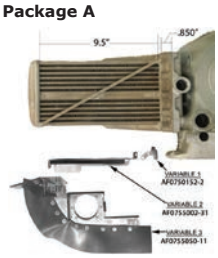
[5] There is some overlap with the baffle design in these serial number ranges. See figures 9 and 10 to determine required part number.

[6] Baffle seals are available in black only.

Figure 1



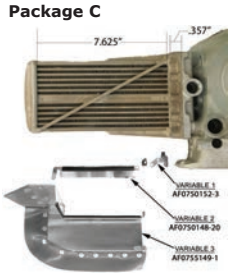
Package A



Package B



Package C



Package D

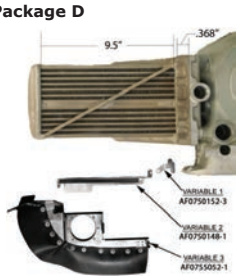
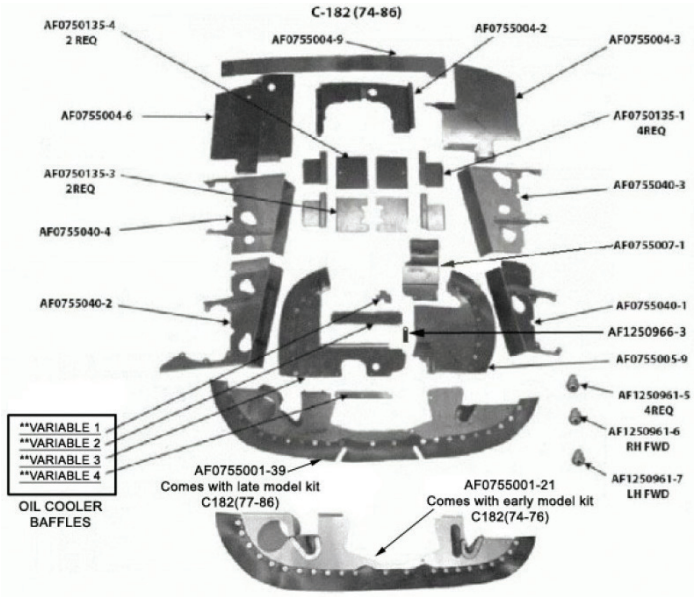
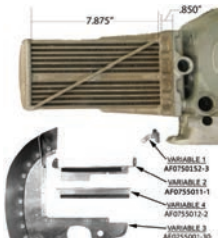


Figure 2



Package G



Package H

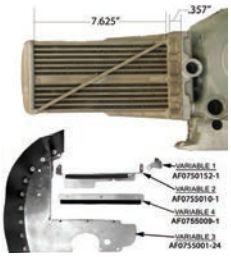


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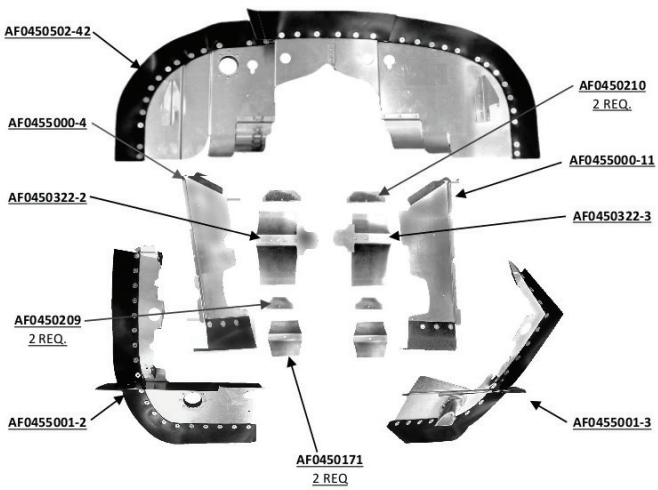


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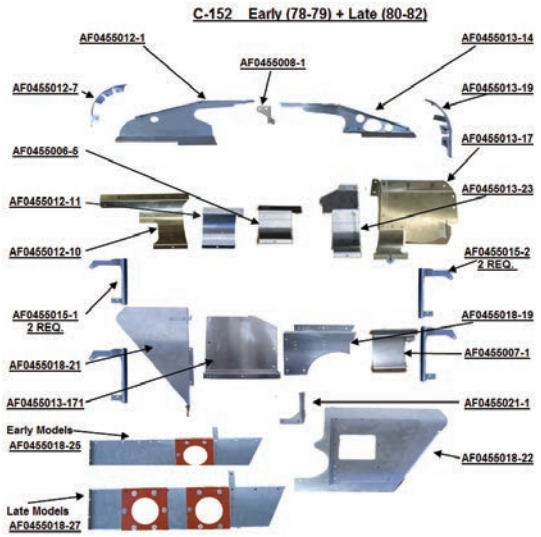


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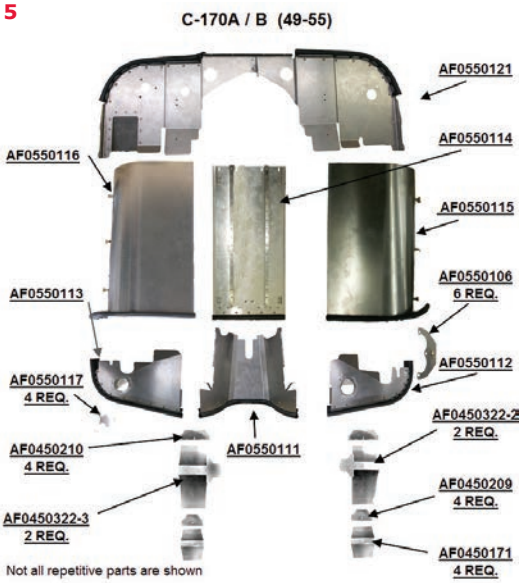


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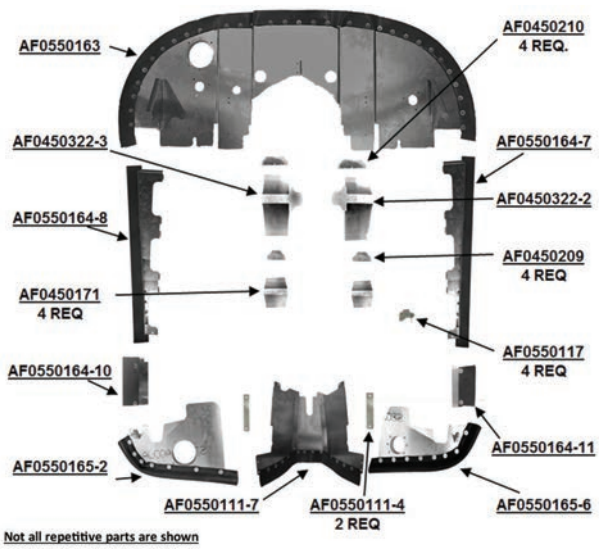


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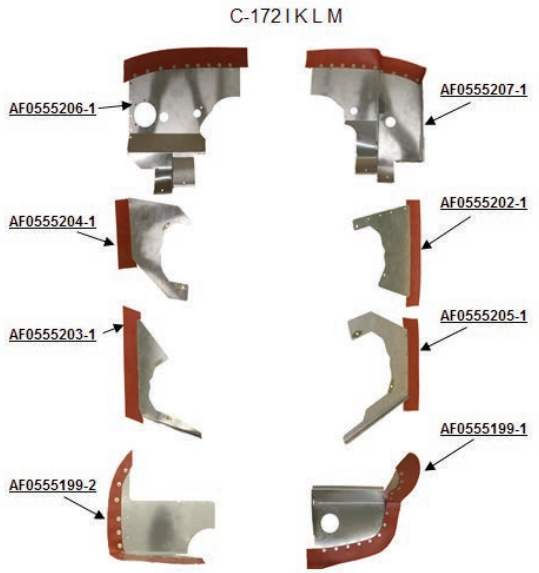


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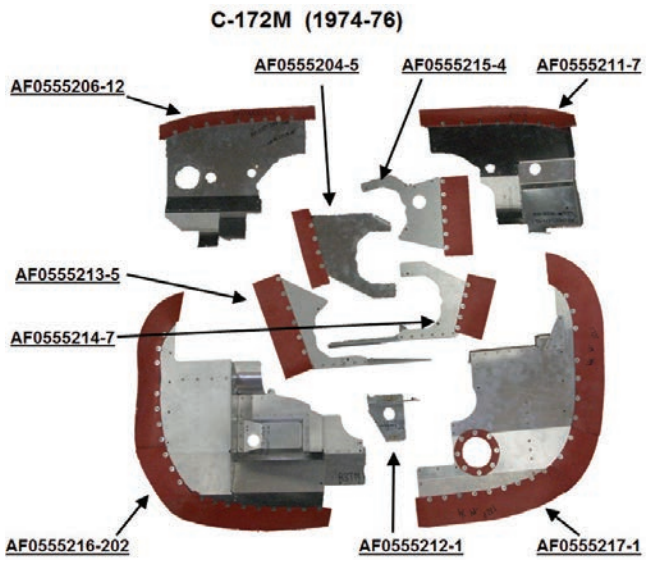


Figure 9

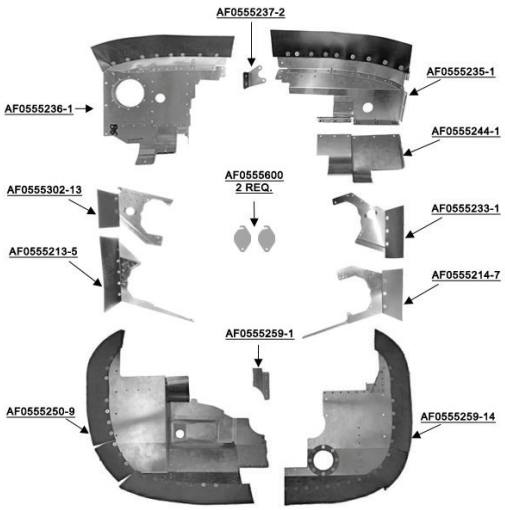


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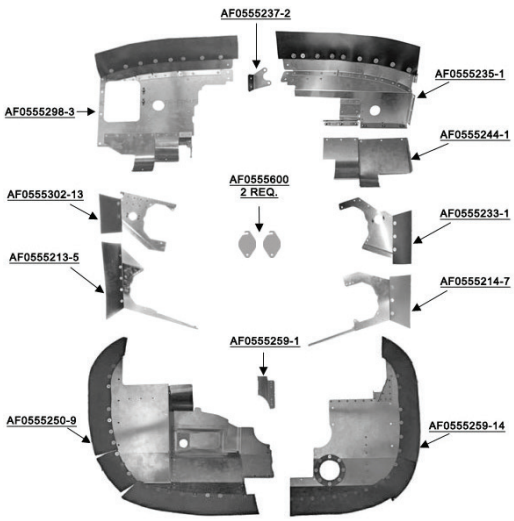


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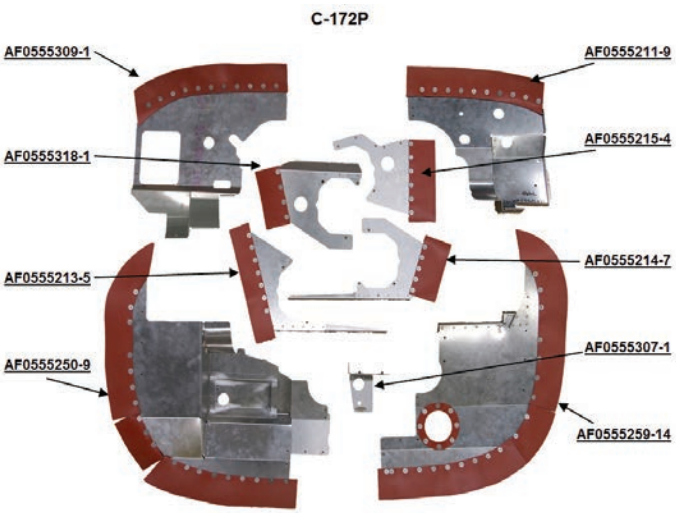


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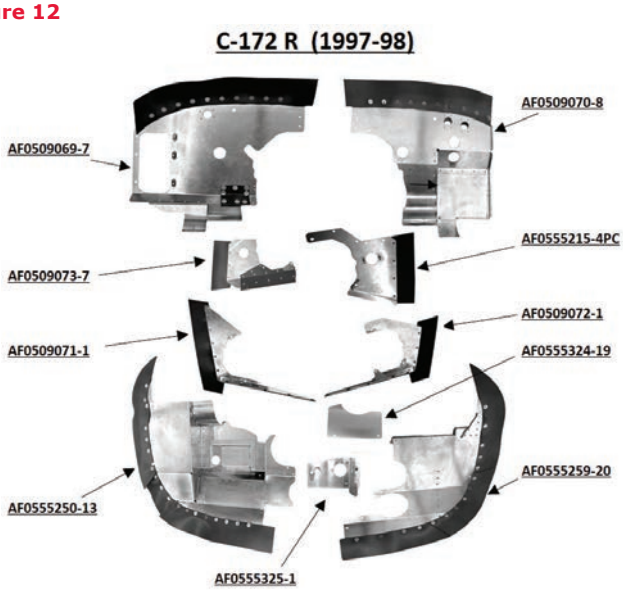


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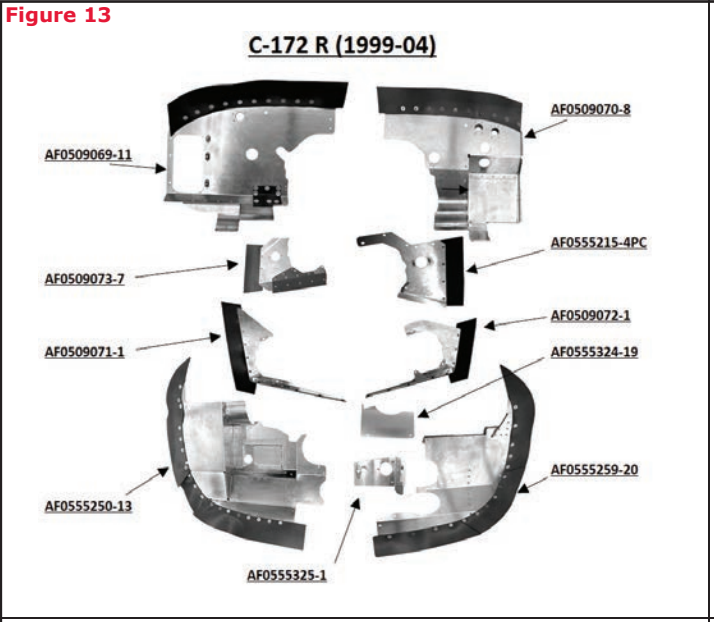


Figure 14

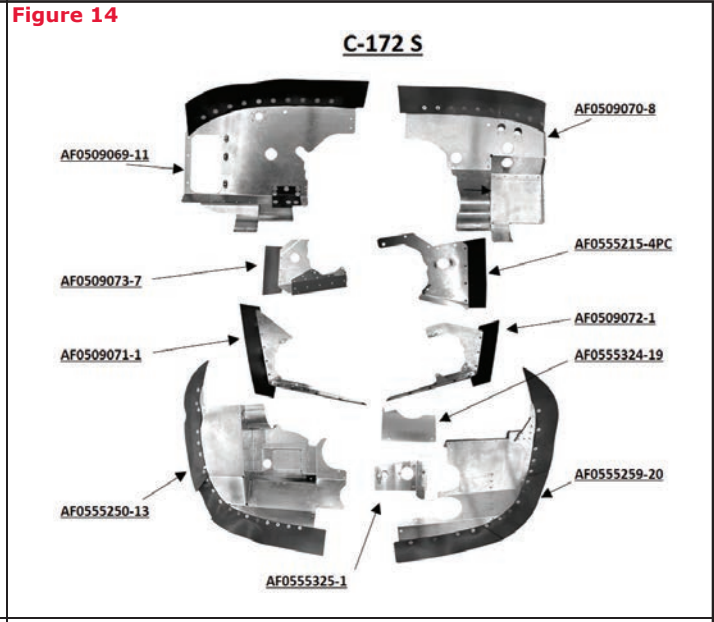


Figure 15

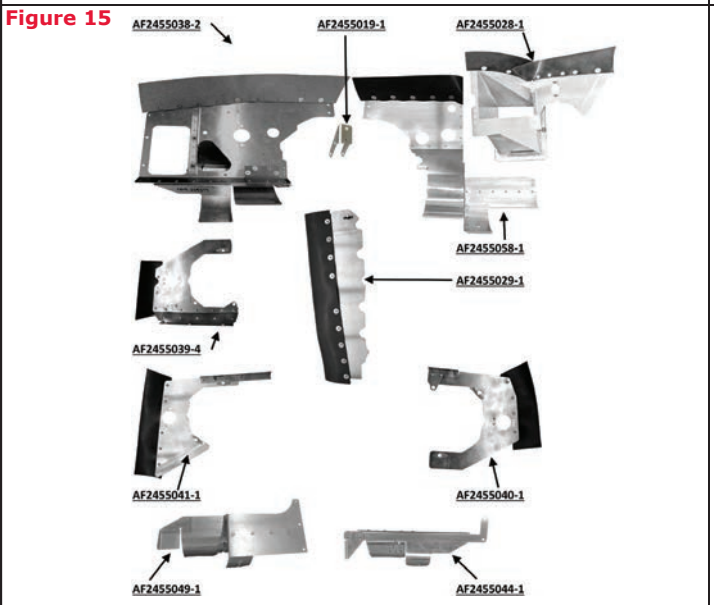


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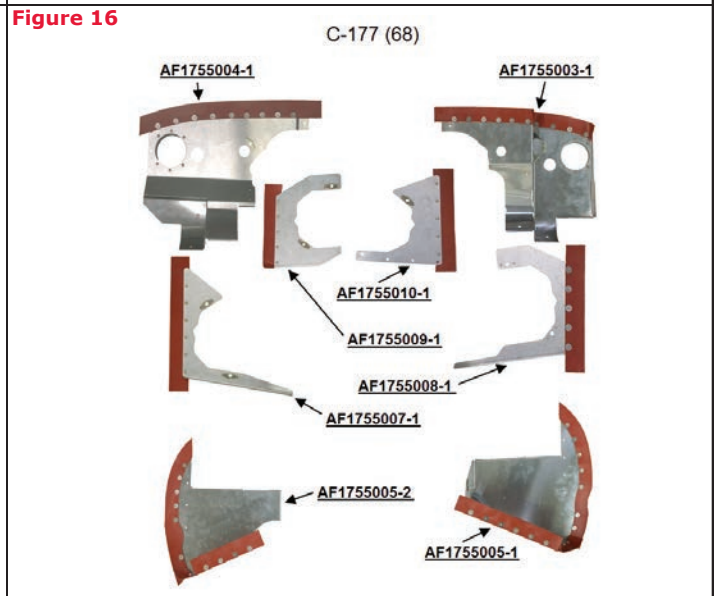


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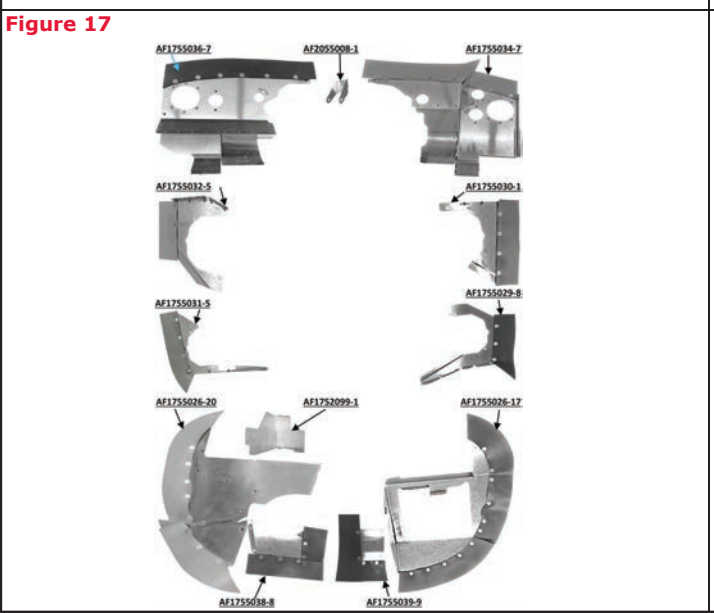


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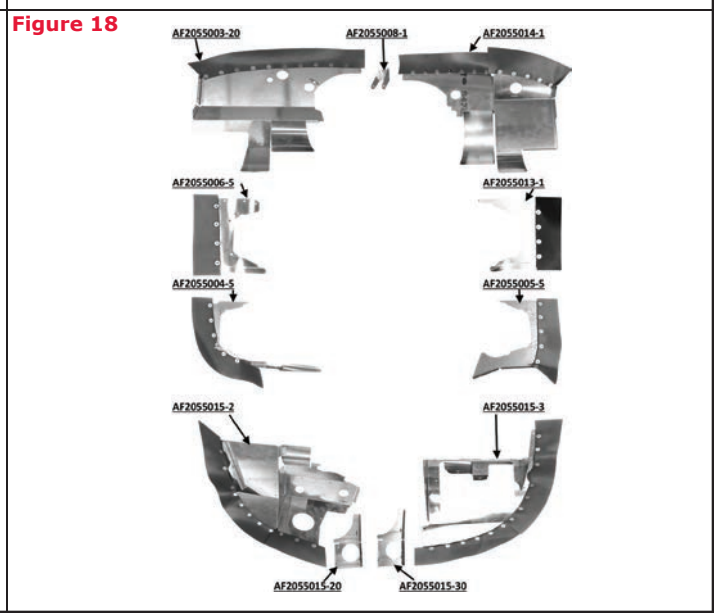


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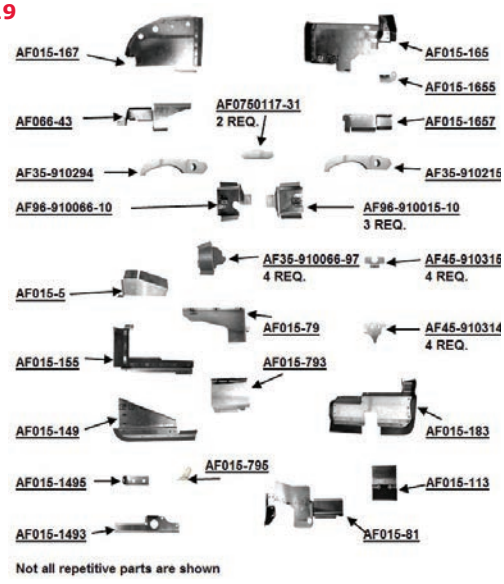


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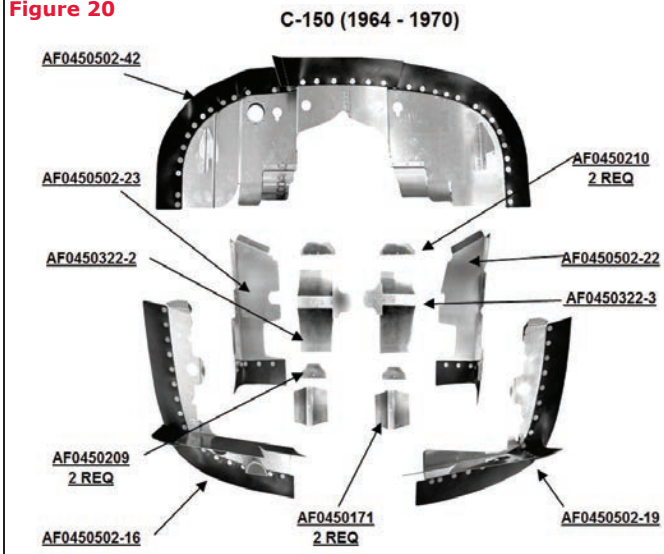
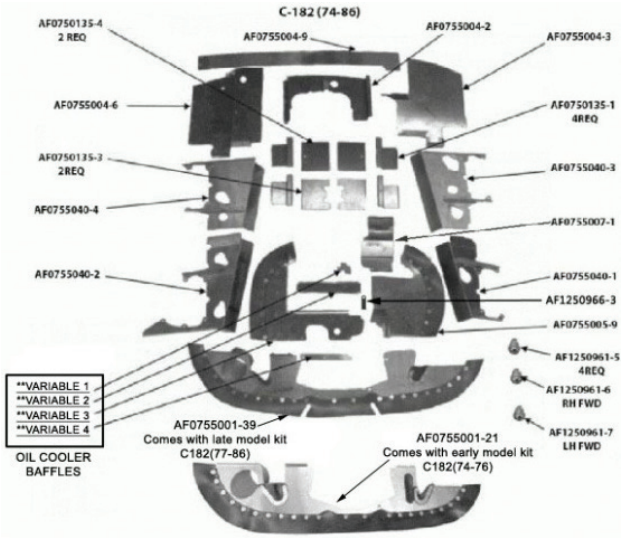
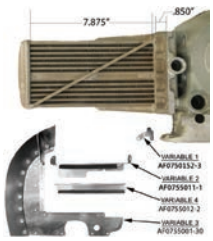


Figure 21



Package G



Package H

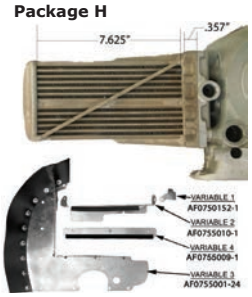
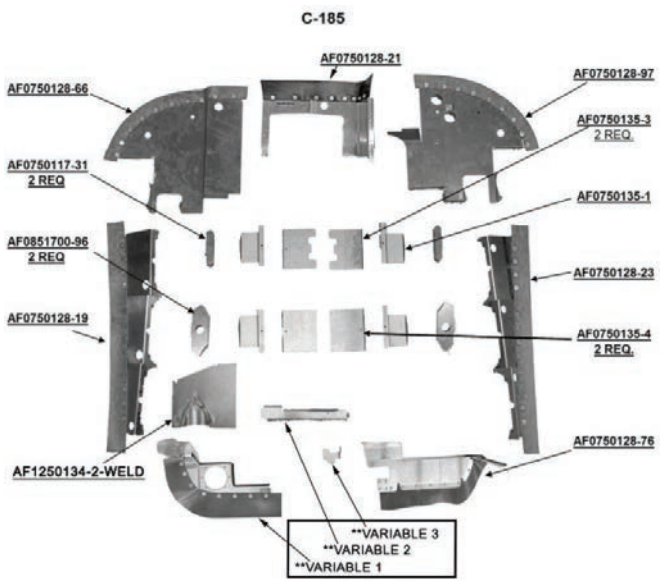
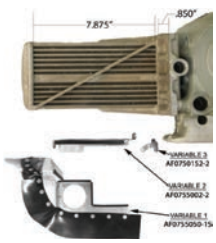


Figure 22



Package J



Package K

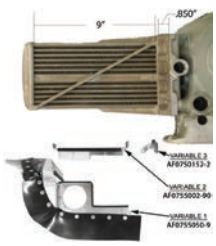


Figure 23

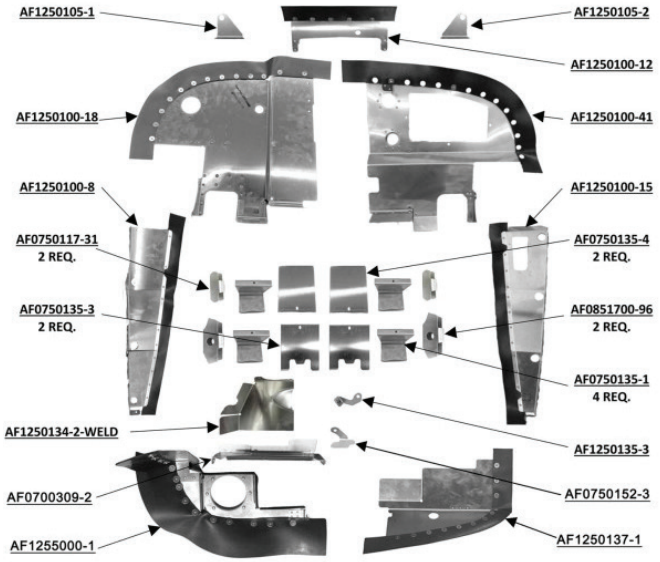


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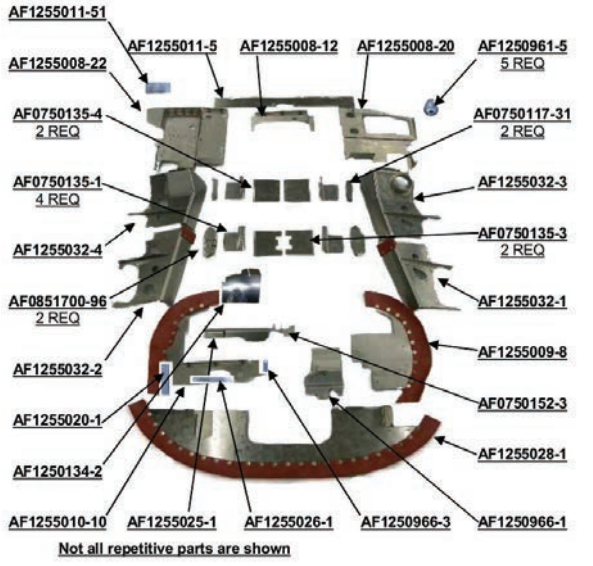


Figure 25

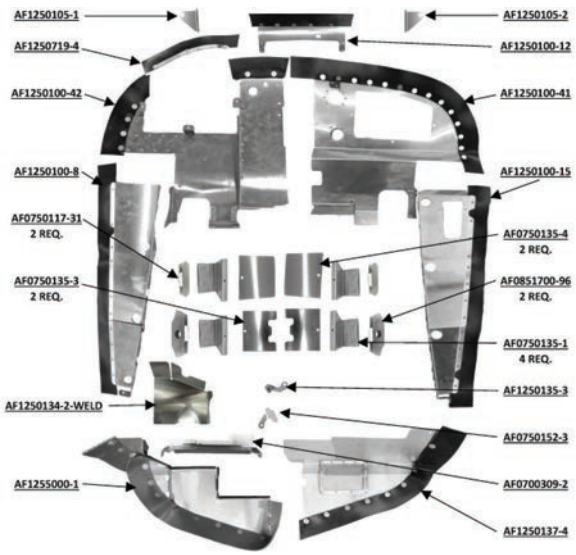


Figure 26

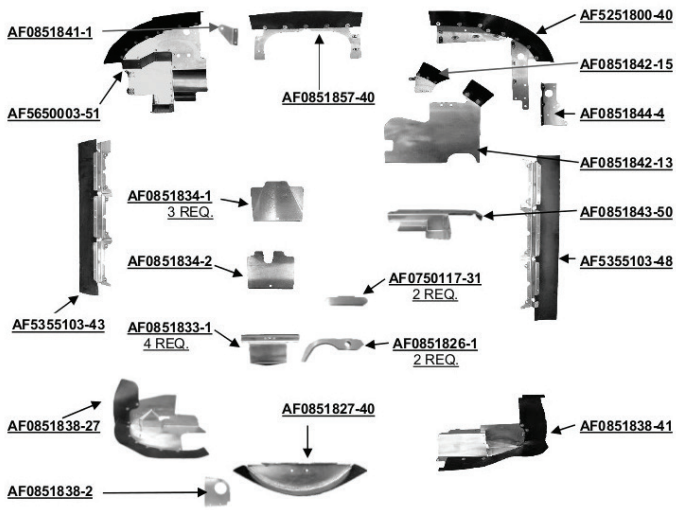


Figure 27

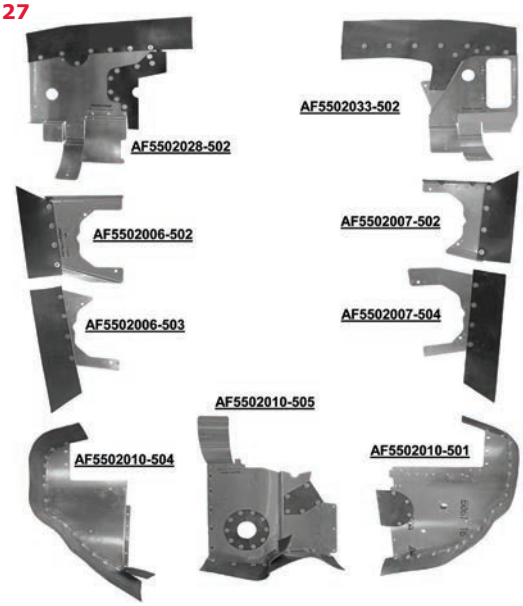


Figure 28

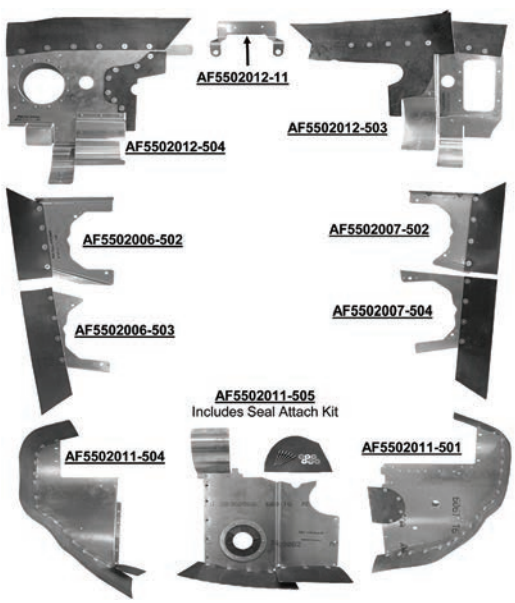


Figure 29

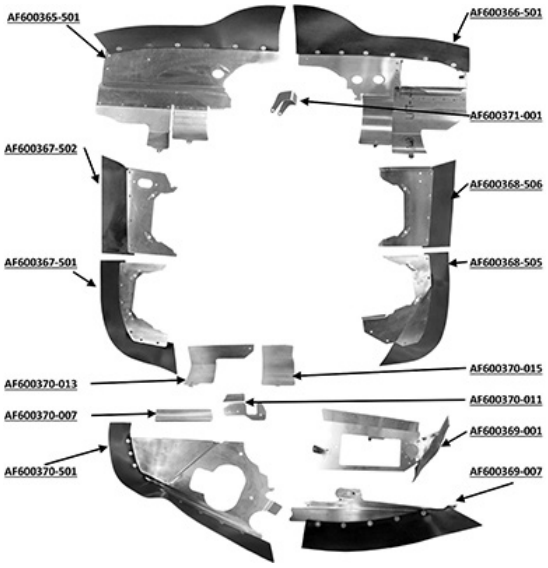


Figure 30

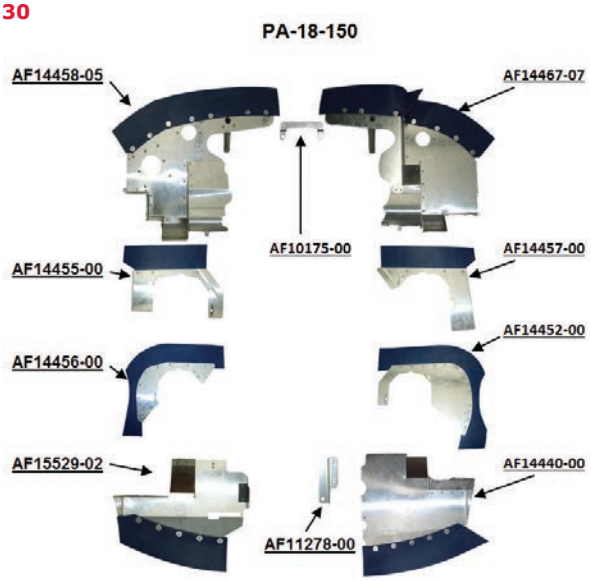


Figure 31

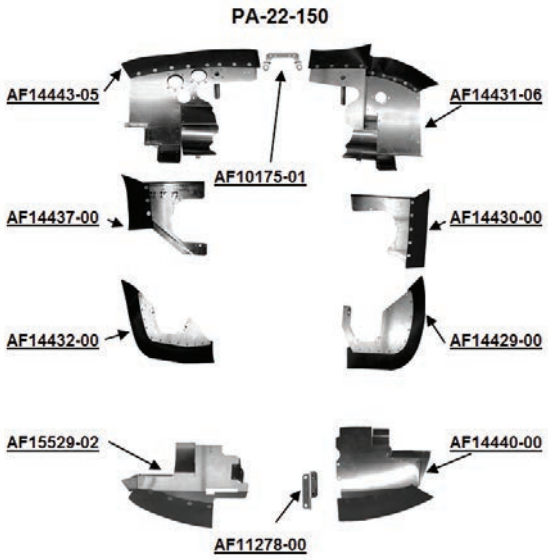


Figure 32

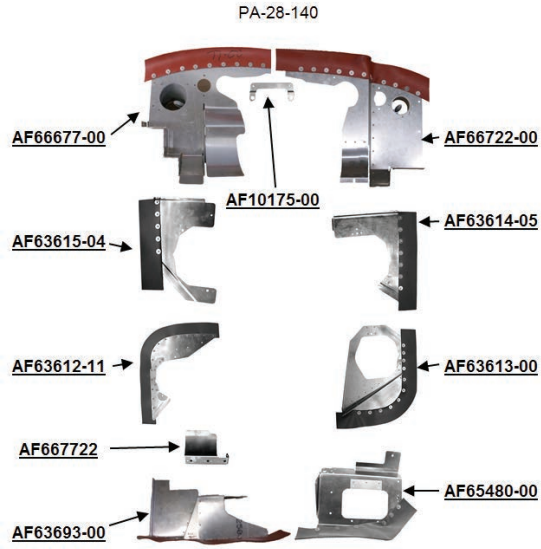


Figure 33

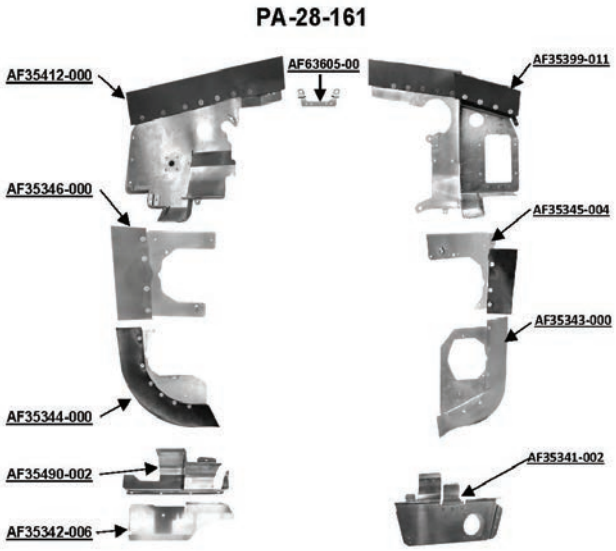


Figure 34

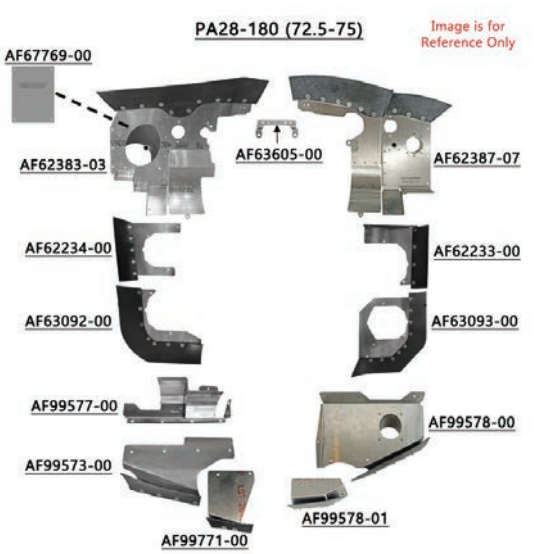


Figure 35

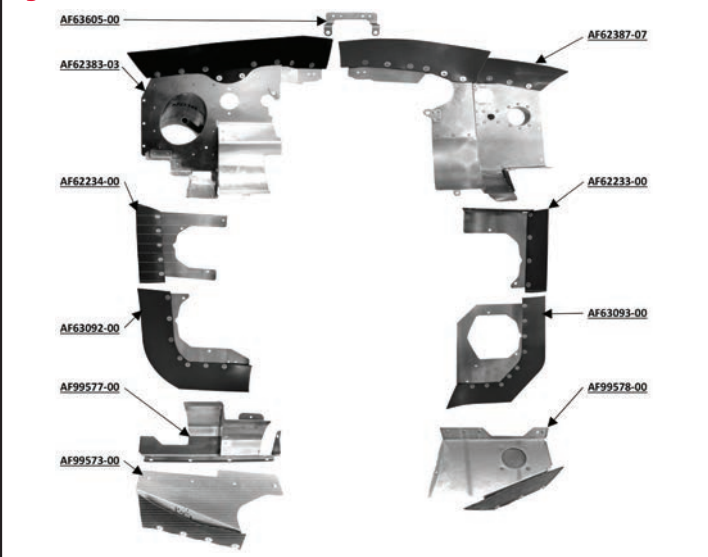


Figure 36

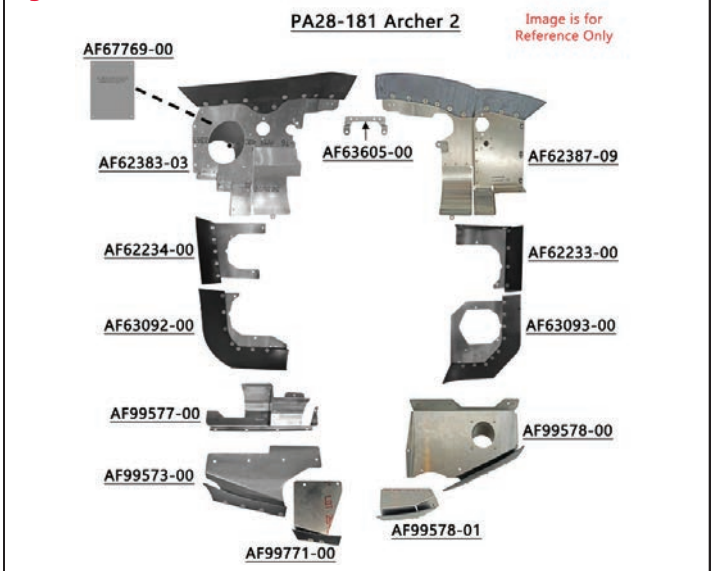


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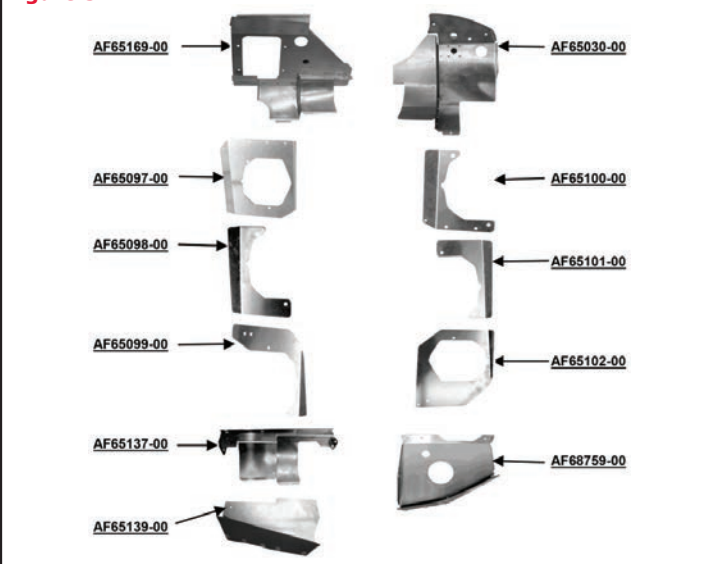


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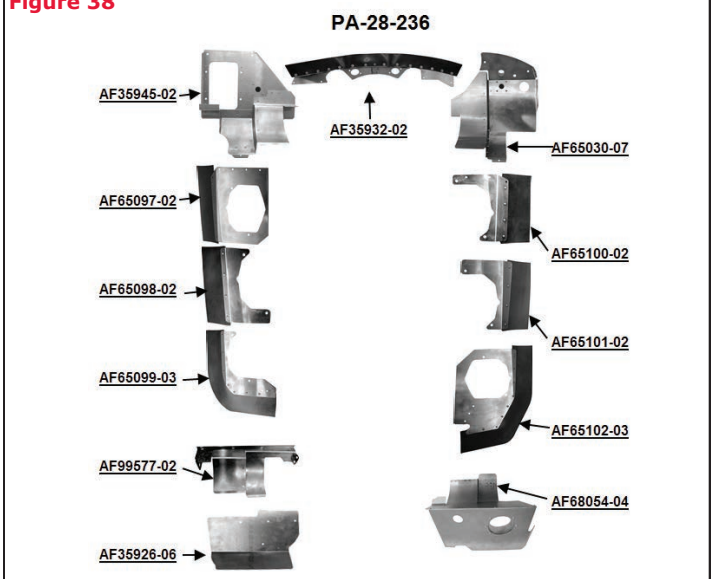


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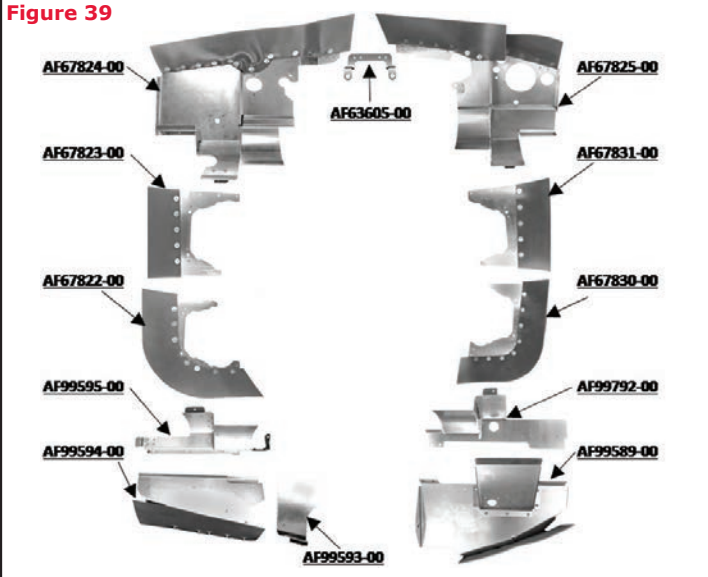


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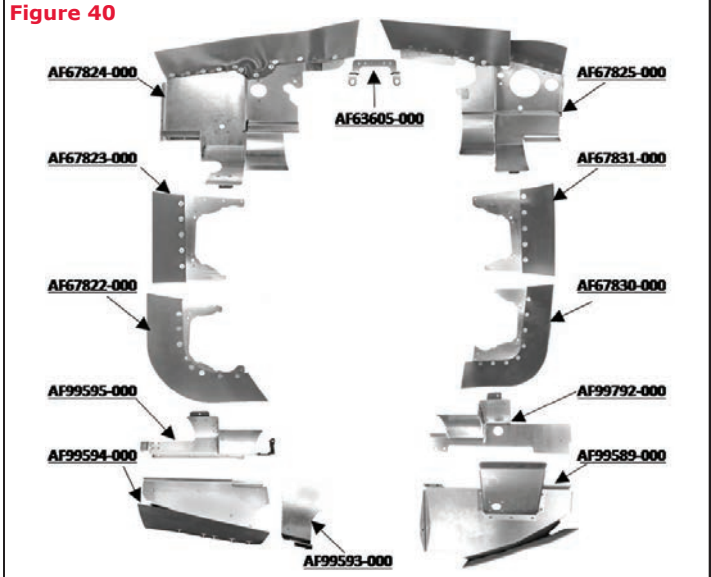


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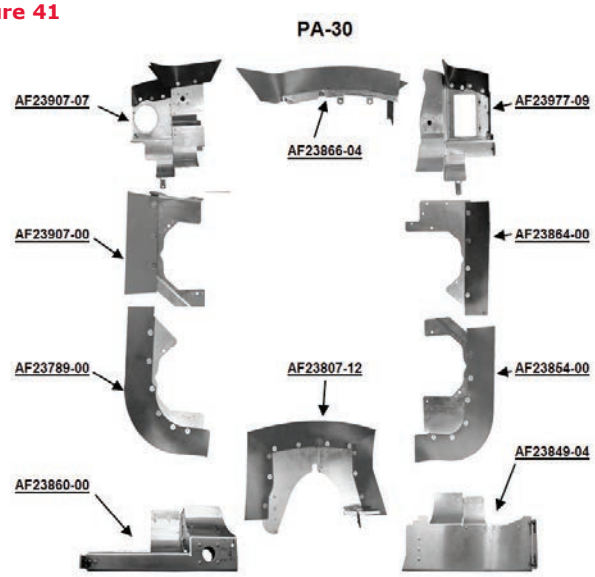


Figure 42

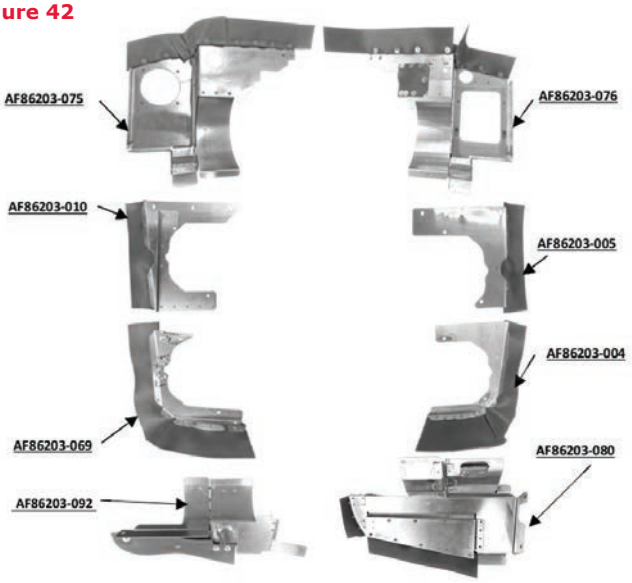


Figure 43

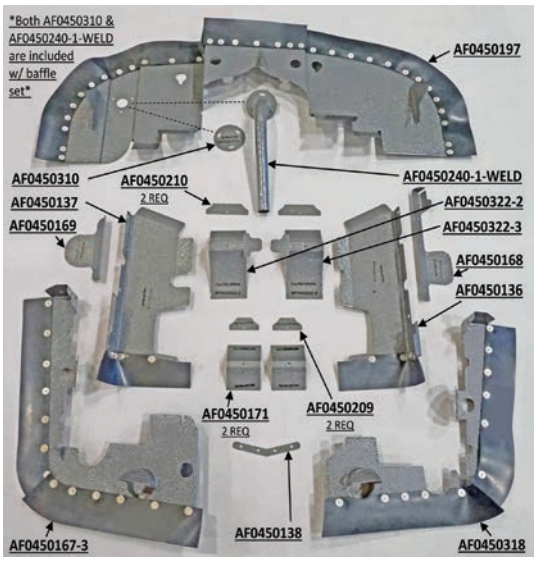


Figure 44

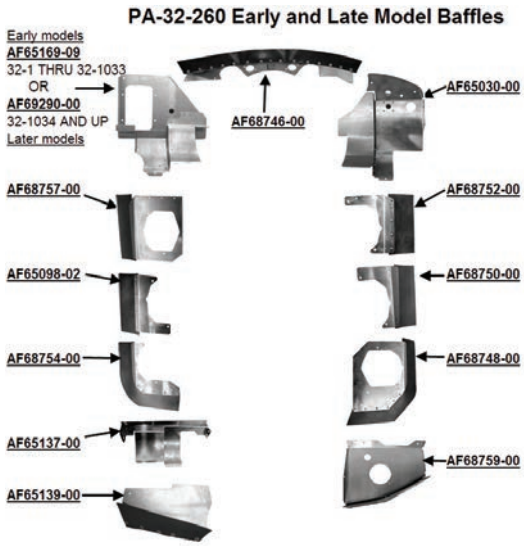
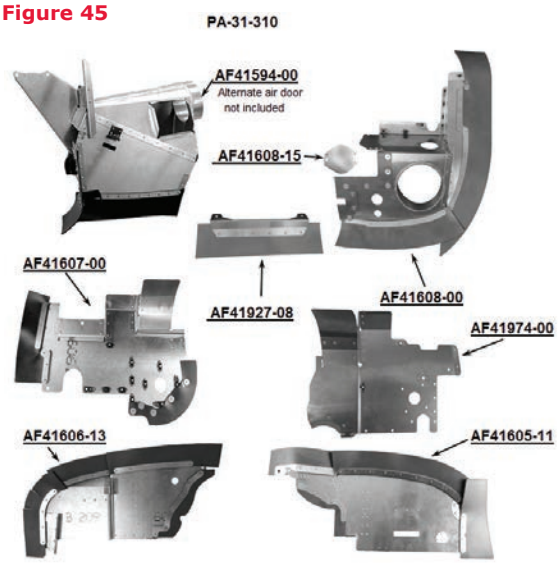


Figure 45



Baffle kits and components for models PA-31 (PA-31-310), PA-31-325 and PA-31-350 have received Alternative Method Of Compliance (AMOC) from the FAA for AD 93-23-13. Mandatory 50 hour inspection is no longer required.

Figure 46

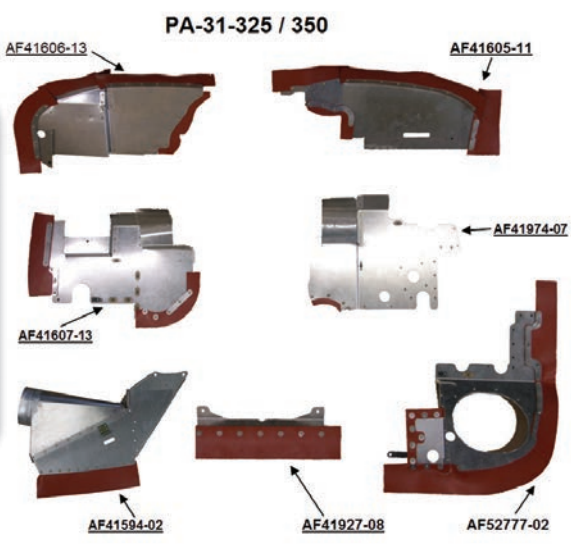


Figure 47

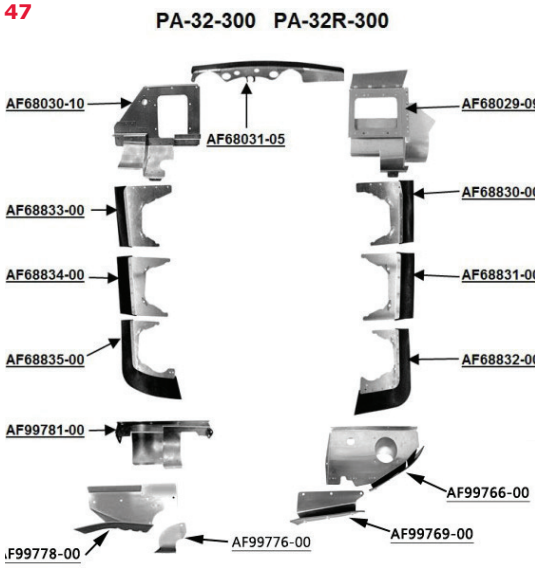


Figure 48

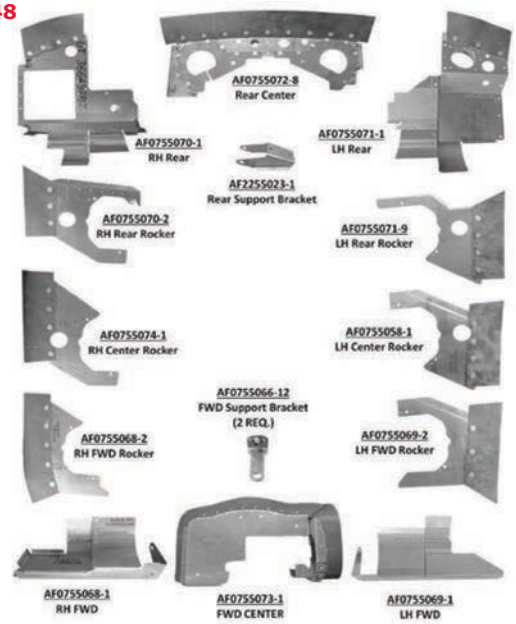


Figure 49

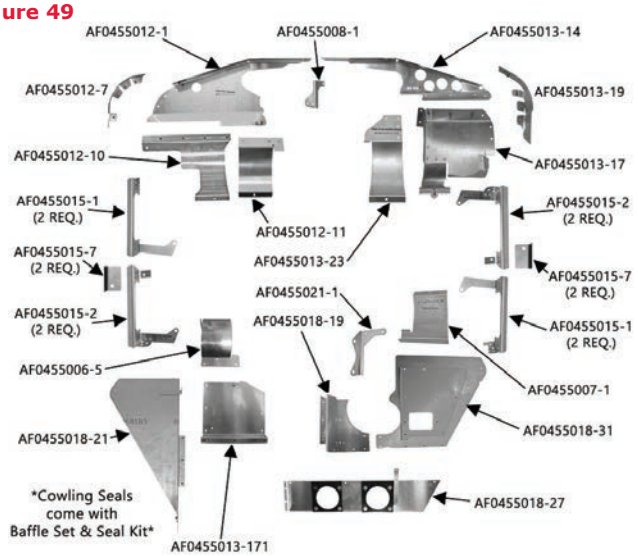


Figure 50

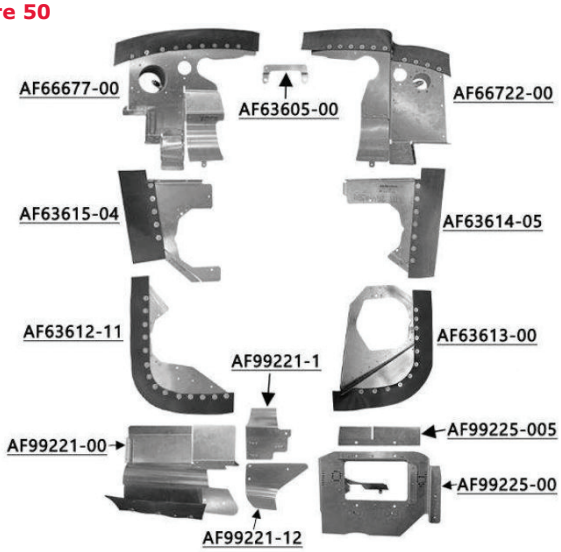


Figure 51

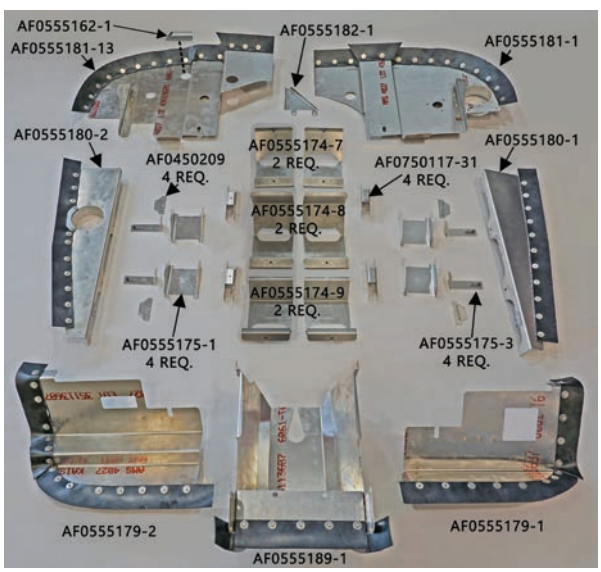
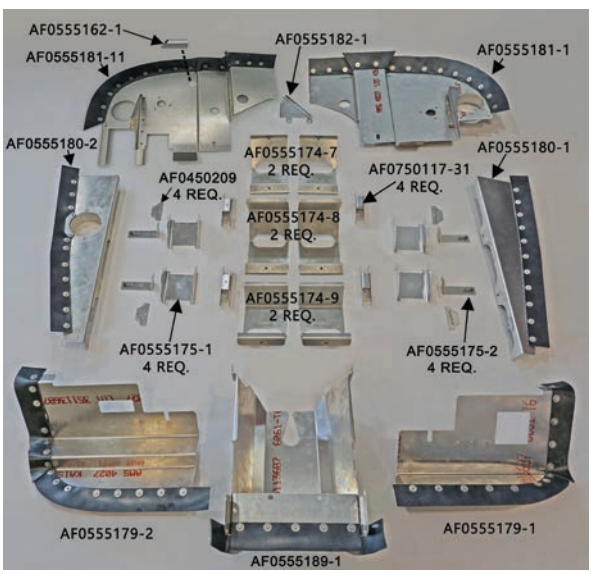


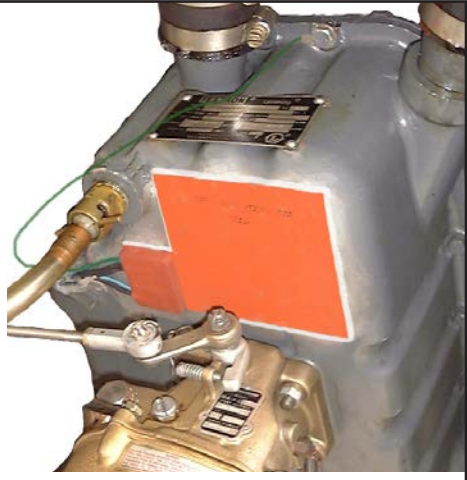
Figure 52



SAFE-HEET™ Silicone Pad Aircraft Engine Heaters

Easy to use!
Preheat in cold weather for longer engine life

- Permanent installation — thin flexible pad bonds to engine oil sump
- FAA-PMA for Continental, Lycoming and Franklin engines
- No STC or 337 form required (log book entry only)
- No engine or airframe modifications required
- Kit contains instructions and all necessary materials
- Uses standard 110V AC
- Can also be used with a timer or temperature controller



Now with surge protection!

Economical and Efficient

- Heats the air inside the engine
- Uses about 300 Watts
- Warms the engine oil from subzero to safe starting temperature in **less than 1 hour**
- Thermally conductive adhesive for efficient heat transfer and lower surface temperatures
- Bonded heatsink distributes heat evenly
- Reduces costly starter and engine abuse during cold weather starts

Safe

- UL recognized components. 100% thermal fused element
- External ground wire grounds the engine and airframe to the electrical outlet, reducing the risk of electrical shock in damp outdoor locations
- Thermostatically controlled to maintain oil sump temperature less than 160° F
- No flame or hot air to burn cowling or plastic parts
- Reduces the risk of fires associated with cold starts
- Ground Fault Circuit Interrupter (GFCI) included to reduce the risk of electrical shock and power surge damage

Installation Tip:
SAFE-HEET engine heaters are installed with a two-part adhesive. The engine heater can be installed quickly and easily by using the 707 temperature controller at half power. At temperatures below 70°F the temperature controller must be used to ensure proper adhesive cure. Proper adhesive cure is essential to full service life of the heater.

Convenient Kits Include Variable Temperature Controller
(also available separately, see next page)

Industry-leading
48-month Warranty!



SAFE-HEET P/N 700
200 Watts
4" X 4"



SAFE-HEET P/N 705
150 Watts
3.5" X 7.3"



SAFE-HEET P/N 720
300 Watts
4" X 7"

FAA-PMA Model Series	P/N	Kit P/N
Teledyne Continental Engines		
A65, A75, C-75, C-85, C-90, O200	705	705KT
C-125, C-145, O-300, GO-300, E165, E185, E225, IO-360, TIO-360, LTSIO-360	700	700KT
O-470, IO-470, LIO-470, FSO-470, TSIO-470, GIO-470, IO-520, GTSIO-520, LTSIO-520, IO-550	720 [3]	720KT
Textron Lycoming Engines		
O-235, O-290, O-320 (EXCEPT O-320-H), IO-320, AIO-320, LIO-320, AEIO-320, O-360, HO-360, LO-360, IO-360, HIO-360, AIO-360, LIO-360, LHIO-360, AEIO-360, VO-360, IVO-360, TIO-360, TO-360, TIO-360, LTO-360, O-435, GO-435, VO-435, GO-480, GSO-480, IGSO-480	700	700KT
O-540, VO-540, TVO-540, IO-540, HIO-540, AEIO-540, IGO-540,IGSO-540,IVO-540,TIO-540,LTIO-540,TIVO-540,IO-720	720 [3]	720KT
Franklin Engines		
6A4-150, 6A4-165	700 or 720	700KT or 720KT

Notes:
[1] Engine oil sump configurations may vary for specific engine models. There is insufficient oil sump or oil tank area and clearances as specified in the SAFE-HEET Installation Instructions for use of the SAFE-HEET engine heaters on some engine-airframe installations.
[2] For dry sump engines, use SAFE-HEET pads on the oil tank. The installer must evaluate as per the SAFE-HEET Installation Instructions the available oil sump or oil tank area below the oil level for use of SAFE-HEET pads on all engine models.
[3] Where the oil sump area is limited, Model 700 may be used. Specifically; 182RG Aircraft are equipped with an O-540 engine. Eligibility shows to use model 720 SAFE-HEET. We have found that there is a limited area to install the 720 model, and customers with a 182RG should use model 700 SAFE-HEET.

Variable Temperature Controller

Makes installation fast and easy!
P/N 707



Our variable temperature controller can be used for continuous engine heating. Lower temperature settings help prevent internal engine corrosion normally associated with leaving engine heaters on at full power.

Our SAFE-HEET engine heater can be plugged into the controller to improve installation. The controller allows the pad to cure its special thermo conductive adhesive by using its own heat energy at a reduced rate.

May be used with other brand engine heaters.

Ground Fault Circuit Interrupter (GFCI)

P/N 709SK



Included with our SAFE-HEET is a Ground Fault Circuit Interrupter. 709SK is used to protect your engine and SAFE-HEET from ground fault situations (insulation failure). The 600W GFCI will open the circuit if more than 5 mA is detected not returning through the GFCI.

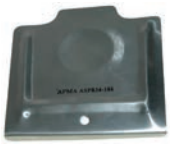
This prevents lethal electrical shocks to the operator or electrical arcing between the engine and heat pad. Insulation failure could be caused by lightning, electrical surge or mechanical damage. In some situations, arcing between the heat pad and the engine pan could cause oil leakage and subsequent engine failure. Each GFCI is individually tested.

May be used with other brand engine heaters.

Intercylinder Baffles with Teledyne Continental Six Cylinder Engines

CASA-PMA approved for Cessna aircraft

- Replace worn baffles to maintain optimum engine cooling
- Maximum engine life
- Australian PMA approved



P/N ASP834-101



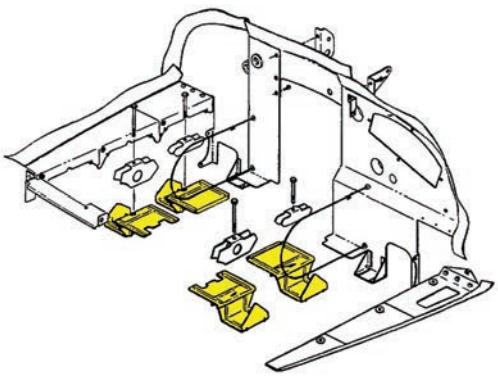
P/N ASP834-102



P/N ASP135-103



P/N ASP135-104



Manufactured by Aircraft Engineering & Maintenance Services

Model	Serial Number	ASP135-103	ASP135-104	ASP833-105	ASP834-101	ASP834-102
180	32151 thru 32661	2	2	4		
180A,B,C,D,E	32662 thru 18051183	2	1	4		
180F,G,H,J,K	18051184 thru 18018053203	3	2	4		
182	33000 thru 33482	2	2	4		
182A,B,C,D,E	33483 thru 18254423	2	1	4		
182F,G,H,J,K,L,M,N,P[1]	18254424 thru 18262465	1	1	4		
182P[1],Q,R	18262466 thru 18268615	2	2	4		
A185F	All			4		
188,188A,B, A188, A188A,B, T188C	188-0001 thru T18803968T	2	2	4		
210-5 (205), 210-5A (205A)	205-0001 thru 205-0577	1	2	4		
206,U206,U206A,B,C,D,E,F,G	206-0001 thru U20607020	2	2	4		
P206,P206A,B,C,D,E	P206-0001 thru P20600647	2	2	4		
207,207A	20700001 thru 20700788	2	2	4		
210,210A,B,C,D,E,F,G,H,J,K,L,M,N,R	57001 thru 21065009	2	2	4		
310,310A,B,C,D,E,F,G,H,I,J,K,L,N	35000 thru 310N0198	2	2	4		
T310R	All			4		
320,320A,B,C	320-0001 thru 320C0073	2		4		
320D,E,F	320D0001 thru 320F0045			4	6	2
335	335-0001 thru 335-0065			4	6	2
340,340A	340-0001 thru 340A1817			4	6	2
401,401A,B	401-0001 thru 401B0300			4	6	2
402,402A,B,C	402-0001 and On			4	6	2
414,414A	414-0001 and On			4	6	2

[1] Partial model eligibility

P/N ASP135-103 replaces Cessna P/N 0750135-3
P/N ASP135-104 replaces Cessna P/Ns 0750135-4 and 0750135-8
P/N ASP833-105 replaces Cessna P/Ns 0750135-1 and 0851833-1
P/N ASP834-101 replaces Cessna P/N 0851834-1
P/N ASP834-102 replaces Cessna P/N 0851834-2

Intake Hose Heat Deflector Shields with Teledyne Continental Six Cylinder Engines

FAA-PMA approved for Cessna aircraft
P/N MC0750143-1

- Vibration dampened to prevent cracking
- Polished stainless steel for better heat control
- Much better and 1/4 the price!





P/N MC0750143-1 replaces Cessna P/N 0750121, 0750121-1, 0750121-2, 0750143-2 and 0750143-3

Aircraft Model	Serial Number
175[1],A,B,C	56083 thru 17557119
P172	P17257120 thru P17257188
180,A,B,C,D,E,F,G,H,J,K	30000 thru 18053203
182,A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R	33000 thru 18268615
F182P,Q	F18200001 thru F18200169
A182J,K,L,M,N	A182-0001 thru A182-0148
T182	18267716 thru 18268615
185,A,B,C,D,E/A185E,F	185-0001 thru 18504448
188,A,B/A188,A,B	188-0001 thru 18803968T
T188C	T18803297T thru T18803968T
210-5 (205), 210-5A (205A)	205-0001 thru 205-0577
206	206-0001 thru 206-0275
U206,A,B,C,D,E,F,G	U206-0276 thru U20607020
P206,A,B,C,D,E/TP206A,B,C,D,E	P206-0001 thru P20600647
TU206A,B,C,D,E,F,G	U206-0438 thru U20607020
207,A/T207,A	20700001 thru 20700788
210,A,B,C,D,E,F,G,H,J,K,L,M,N,R, T210K,L,M,N,R	57001 thru 21065009
P210N,R	P21000001 thru P21000874
T210G,H,J	T210-0198 thru T210-0454

[1] Partial model eligibility

AERO-Classics Oil Coolers

FAA-PMA Approved

- Direct replacements for most oil coolers
- Ideal for many certified and experimental aircraft
- FAA 8130-3 tags included with each oil cooler

Outstanding Performance

During comparative performance tests, AERO-Classics 7 and 9 plate oil coolers outclassed competitive models, offering better overall cooling and lower weight.

Direct Replacements for Stewart Warner Oil Coolers

- HE Series High Efficiency Coolers
- FAA-PMA direct replacement for Stewart Warner (Meggitt) oil coolers
- Match or outperform the original
- Save $$$

Don't be fooled by Stewart Warner oil coolers from many aviation suppliers. If it didn't come directly from the aircraft manufacturer or if they don't say "FAA-PMA", then it is not FAA approved (even though they may have the same part number and manufacturer).

Highest Quality, Best Value

- Corrosion Protection per MIL-C-5541, Class 1A
- Optimized internal oil flow design
- Low cost
- In-stock for fast delivery
- Pressure tested to 400 psig
- Light-weight
- Two year warranty



P/N 654117



P/N 652079



P/N 649964

Manufacturer Installation Tips:

Mounting Flanges

Be sure to mount the cooler using all four mounting flanges. This will evenly distribute stress that can cause cracking.

Threads and Hoses

- On pipe (tapered) threads, Anti-seize lubricant should always be used to prevent thread galling. Steel fittings are an additional added measure that can prevent thread galling.
- Avoid damage to the oil cooler during operation. Hoses connecting to the oil cooler should be installed, supported, and tied down to avoid vibration and pulling stresses onto the oil cooler. Hoses must be fastened to the same structure as the cooler. If the cooler is mounted to the airframe structure, the hoses must be supported by the airframe structure. If the cooler is attached to the engine structure, the hoses must be supported by the engine structure. Do not allow engine movement stresses into the cooler through the hoses.
- A back-up wrench should always be used when installing fittings into any oil cooler to prevent damage to the oil cooler.
- Please note (if applicable) the threads on this part have been inspected by the manufacturer before shipment and found to be in conformity. Galling of threads is not considered a warrantable claim.



Front Mount,12 Bolt Non Congealing Oil Cooler
P/N 8000319



Rear Mount Oil Cooler
P/N 8000464



Front Mount, 8 Bolt Oil Cooler
P/N 8000934

P/N	Description	FAA Approved Replacement	Eligible Continental Engine Models	Gaskets (not included with oil cooler)
Front-Mount, 8 Bolt Oil Coolers				
8000925		Continental 627392, Niagara 20585A	O-470-A,B,E,G,J,K,L,M,P,R,S,U IO-470- C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V	654117 649964 (plate)
8000934		Continental 646880, Niagara 20591A	IO-360-A,AB,C,CB,D,DB,G,GB,H,HB,HB9,J,JB,K,KB,ES TSIO-360-A,AB,B,C,CB,D,DB,E,F,GB,H,JB,KB,LB,MB L/TSIO-360-E,EB,F,FB,GB,H,HB,JB,KB,LB,MB,RB	654117, 649964 (plate)
Front-Mount, 12 Bolt Congealing Oil Coolers				
8000683	Non-7th Stud	Continental 626189, Niagara 20573A	O-470-B,J,K,L,M,R,IO-470-D,F,L,M,S IO-520-A,D,E,F,J,K,L, L/TSIO-520-AE, O-550-D	654553 649964 (plate)
8000687	7th Stud	Continental 652671, Niagara 20440A	IO-520-A,D,E,F,J,K,L, L/TSIO-520-AE, IO-550-D	654555, 649964 (plate)
Front-Mount, 12 Bolt Non Congealing Oil Coolers				
8000545	10" Universal 7th Stud	Continental 639171, Niagara 20795A Continental 654595, Niagara 20617A	O-470-R,S,U, IO-520-A,D,E,F,J,K,L TSIO-520-C,G,H,M,P,R,T,AF,CE, IO550-D,E,F,L	654554 652079 (plate)
8000319	11" Universal 7th Stud	Continental 639151, Niagara 20446A	O-470-F,K,L,R, IO-470-L, IO-520-A,D,E,F,J,K,L	654560, 652079 (plate)
8000319	11 7th Stud	Continental 654593, Niagara 20618A	IO-470-L, IO-520-A,D,E,F,J,K,L	654554, 652079 (plate)
8000531	11.5" Universal 7th Stud	Continental 639152, Niagara 20623A	O-470-M, IO-470-D,U,V, IO-520-A,D,E,F,J,K,L	654560, 652079 (plate)
8000531	11.5" 7th Stud	Continental 652759, Niagara 20448A	IO-520-A,D,E,F,J,K,L	654554, 652079 (plate)
Rear-Mount Oil Coolers				
8000440	Valve P/N 639305 small	Continental 654580, Niagara 10279A	TSIO-520-BE,E,J,L,N,VB,WB,EB,JB,LB,NB, 550-E, IO-550-B,C,G	G-KT-1
8000464	Valve P/N 639305 small	Continental 646685, Niagara 10196A	GTSIO-520-C,D,F,H,K,L,M,N	G-KT-2
8000953	Valve P/N 649369 large	Continental 654585, Niagara 10281A	IO-550-G,N,P,R, IO-F550-G,N,P,R, TSIO-550-G	G-KT-3
8000960	Valve P/N 639305 small	Continental 654572, Niagara 10278A	IO-520-B,BA,BB,C,CB,M,MB, TSIO-520-B,D,K,UB, IO-550-A,B,C	G-KT-1
8001213	Valve P/N 649369 large	Continental 655090, Niagara 10280A	IO-550-B,C, IOF-550-B,C, TSIO-520-B	G-KT-5

Continued on next page

AERO-Classics Oil Coolers continued from previous page

Remote Mount Oil Coolers (typically used with Lycoming engines)



Bar and Plate
P/N 8000356



7 row drawn cup
P/N 8000075



HE Series
P/N 8001646



HE Series
P/N 8001599

Important: To confirm FAA approved eligibility, verify that your current (or originally) installed oil cooler P/N is listed in the "FAA Approved Replacement for" column for your aircraft model.

Aircraft Model	FAA Approved Replacement for P/N	Description	P/N
AEROSTAR			
601, 601P, 602P, 700P	Niagara 20015A, 20044A, Harrison 8541336	bar and plate	8000357
American Champion Aircraft Corp.			
7ECA, 7GCAA, 7GCBC	American Champion Aircraft 8526250	7 row drawn cup	8000075
Beechcraft			
19, C23, A24R, C24R	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
19A, B19, A23, A23A, A24, A24R, B23, C23	Beech 169-910002-23, 169-380001-1, Stewart Warner 8406R	HE Series	8001602
A23-24	Beech 169-910002-23, 169-380001-1, Stewart Warner 8406R	HE Series	8001602
	Beech 169-380033, Stewart Warner 8432S		8001694
Britten-Norman (Pilatus)			
BN-2	BN 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2A	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
	BN 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27	BN 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2B	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN-2T-4R	BN 354501026, Stewart Warner 8406R	HE Series	8001602
Cessna			
150, 152, A152	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
162	Cessna and Stewart Warner 10578R	HE Series	8001535
170	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
172	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
	Cessna and Stewart Warner 8406R	HE Series	8001733
175, 177	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
177RG	Cessna and Stewart Warner 8406R	HE Series	8001733
172N	Cessna and Stewart Warner 10599R	HE Series	8001599
172R,S	Cessna and Stewart Warner 10877R	HE Series	8001588
182	Cessna and Stewart Warner 10610R	HE Series	8001646
R182, TR182	Cessna and Stewart Warner 10614R	HE Series	8001643
	Cessna and Stewart Warner 10610R		8001646
T182, TR182, T182T	Cessna and Stewart Warner 10891A	HE Series	8001718
210-5 (205), 210-5A (205A)	Cessna and Stewart Warner 10634R	HE Series	8001652
206, 206H, P206, P206A,B,C,D,E, U206, U206A,B,C,D,E,F,G	Cessna and Stewart Warner 10880A	HE Series	8001713
T206H, TP206A,B,C,D,E, TU206A,B,C,D,E,F,G	Cessna and Stewart Warner 10865B	HE Series	8001701
210, 210A thru 210R, P210N,R, T210F thru T210R	Cessna and Stewart Warner 10634R	HE Series	8001652
Commander, Twin Commander Aircraft LLC			
114, 114A, 500S	Commander 630146-509, Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353
Cub Crafters Inc.			
CC18-180, CC18-180A	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
Grumman			
AA-5 (Tiger)	5505002-2, Stewart Warner 10568R	HE Series	8001640
AA-5A Series (Cheetah)	5505002-1, Stewart Warner 10578R	HE Series	8001535
GippsAero (Mahindra)			
GA8-TC320	GA8 Airvan (Pty) Ltd. 20006A, 472G00001	13 row drawn cup	8000215
Maule			
M-5-180, M-5-180C, M-5-235C, M-6-180, M8-235, MX7-160, MX7-160C, MX7-180, MX7-180A, MX7-180AC, MX7-180B, MX7-180C, MXT7-160, MXT7-180, MXT7-180A,	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074

Continued on next page

AERO-Classics Oil Coolers continued from previous page

Remote Mount Oil Coolers (typically used with Lycoming engines)

Aircraft Model	FAA Approved Replacement for P/N	Description	P/N
Maule continued			
M5-235, M6-235, M7-235A, M8-235, MX7-235, MT7-235, M7-235B, M7-235C, MT7-260, M7-260, M7-260C	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
	Niagara 20006A, Harrison 8534108 and AP13AU06-01	13 row drawn cup	8000215 1
Mooney			
MC20A, MC20B	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
M20C, M20D	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
M20E, M20F	Mooney 620016, 620052, Stewart Warner 8432R	HE Series	8001689
	Mooney 6200160501, Stewart Warner 8432S		8001694
M20G	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
M20J	Mooney 620016, 620052, Stewart Warner 8432R	HE Series	8001689
Piper			
PA-18,18A	Harrison 8521940	bar and plate	8000328
2 PA-18, -18A, -18S, -18 "105" Special, -18 "125"(Army L-21A), -18S "125", -18AS "125", -18 "135" (Army L-21B),-18A "135", -18S "135", -18AS "135", -18 "150", -18A "150", -18S "150P", -18AS "150", -19 (Army L-18C), -19S	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
PA22-135,150,160	Harrison 8521940	bar and plate	8000328
PA-23, S/N 23-163 and up	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-23	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-23-160	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA23-235,250	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-23-250	Piper 32330-07, S/W Meggit 10631S	HE Series	8001956
PA-24	18622-00, Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
PA-24-260 S/N 24-4783, 24-4804 and up	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-25	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
PA-25-235	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-28-140,150,151,160,161,180,181	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215 1
PA-28R-200,201,201T	Piper 67848-00, Niagara 20017A, Harrison 8537820	13 row, drawn cup with cutout	8000661
PA-28-235	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215 1
PA-28-236	Niagara 20003A, Harrison 8529245 and P09AU06-01	9 row drawn cup	8000074
PA-30	18622-00, Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215 1
PA-31	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-31-310,325,350	Niagara 20010A, Harrison 8535311	bar and plate	8000356
PA-32-260	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-32-300	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074
PA-32R-300	Piper 556-391, Harrison 8543897	bar and plate	8001201
PA-32RT-300,300T, PA-32R-301,301T	Niagara 20010A, Harrison 8535311	bar and plate	8000356
PA-34-200	Piper 67848-00, Niagara 20017A, Harrison 8537820	13 row, drawn cup with cutout	8000661
PA-39	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
Robinson Helicopter			
R22	Niagara 20008A	17 row drawn cup	8000216
R44, R44II	Robinson and Stewart Warner 10886A	HE Series	8001723
Sikorsky Aircraft			
269C	Meggitt and Stewart Warner 10655A		8002517
Sky International (PITTS)			
S-2B	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
	Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353
Socata			
TB9, TB10	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
TB20, TB200	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
	Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353

Continued on next page

AERO-Classics Oil Coolers continued from previous page

Remote Mount Oil Coolers (typically used with Lycoming engines)

Aircraft Model continued	FAA Approved Replacement for P/N	Description	P/N
Taylorcraft 2000, LLC			
F22B, F22C, F22R	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
Univair (Stinson)			
108, 108-1, 108-2, 108-3	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
Vulcan Air S.p.a.			
P.68C	Vulcan S.p.a. NOR.373-1	13 row drawn cup	8000215

Notes

1 McFarlane engineering is unable to confirm this eligibility entry. P/N 8000215 is for larger (300HP+) engines.

2 When modified with IAW Cub Crafters Inc. STC # SA00718SE or SA92NW.

Cross Reference	
Beechcraft P/N	**AERO-Classics P/N**
169-380001-1	8001602
169-380033	8001694
169-910002-23	8001602
Britten-Norman (Pilatus) P/N	**AERO-Classics P/N**
354501026	8001602
Continental P/N	**AERO-Classics P/N**
626189	8000683
627392	8000925
639151	8000319
639171	8000545
646685	8000464
646880	8000934
652671	8000687
652759	8000531
654572	8000960
654580	8000440
654585	8000953
654593	8000307
654595	8000545
655090	8001213
693152	8000531
Harrison P/N	**AERO-Classics P/N**
8521940	8000328
8526250	8000075
8529245	8000074
8530016	8000343
8533718	8000353
8534108	8000215
8535311	8000356
8537798	8000343
8537820	8000661
8541336	8000357
8543897	8001201
Mooney P/N	**AERO-Classics P/N**
620016	8001689
620036	8001602
620052	8001689
6200160501	8001694
Niagra P/N	**AERO-Classics P/N**
10196A	8000464
10278A	8000960
10279A	8000440
10280A	8001213
10281A	8000953
20002A	8000075
20003A	8000074
20006A	8000215
20008A	8000216

Continued in next column

Cross Reference	
Continued from previous column	
Niagra P/N	**AERO-Classics P/N**
20009A	8000353
20010A	8000356
20015A	8000357
20017A	8000661
20044A	8000357
20104A	8000343
20440A	8000687
20446A	8000319
20448A	8000531
20573A	8000683
20585A	8000925
20591A	8000934
20617A	8000545
20618A	8000307
20623A	8000531
20710A	8001080
20795A	8000545
Piper P/N	**AERO-Classics P/N**
18622-00	8000075
556-391	8001201
67848-00	8000661
85472-012	8001080
Stewart Warner	**AERO-Classics P/N**
8406R	8001733
8406R	8001602
8432R	8001689
8432S	8001694
10568R	8001640
10578R	8001535
10599R	8001599
10610R	8001646
10614R	8001643
10634R	8001652
10865B	8001701
10877A	8001588
10880A	8001713
10886A	8001723
10891A	8001718
Twin Commander P/N	**AERO-Classics P/N**
630146-509	8000353
True Flight Holding LLC P/N	
5505002-1	8001535
5505002-2	8001640
Verify aircraft make and model to ensure direct replacement eligibility. An IPC will confirm the part number that came equipped with the aircraft.	

Save 3.7 lbs with the aluminum Oil Coolers for PA18 and PA22 Series!

Stewart Warner Oil Coolers

Factory new oil coolers manufactured by Stewart Warner are ideal for many experimental applications. They are identical to Stewart Warner oil coolers used on many certified aircraft but are not FAA-PMA approved. Form 337 field approvals are required for installation on certified aircraft.

Available part numbers: 10611R, 10611S, 8001602, 8001733 and 8446S.



Rocker Cover Gaskets

Reusable, silicone!

- FAA-PMA direct replacement for Continental and Lycoming Engines
- For use in certified and experimental aircraft

Intake Manifold Tubes

550 Crossflow Style

- FAA-PMA direct replacement for Continental Engines

Oil Drain-Back Tubes

Save up to 50%

- FAA-PMA direct replacement for Lycoming tubes
- For use in certified and experimental aircraft

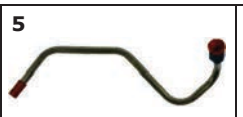
Figure numbers referenced in eligibility table below


1
P/N APS-11935


2
P/N APS-68759


3
P/N APS-68760


4
P/N APS-68761


5
P/N APS-71737


6
P/N APS-72702


7
P/N APS-72703

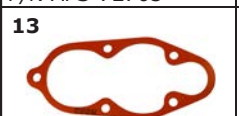

8
P/N APS-73027

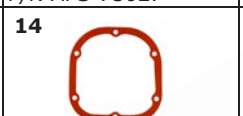

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P/N APS-74808

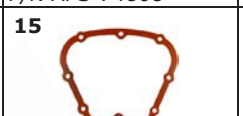

10
P/N APS-653193-S


11
P/N APS-655528-S

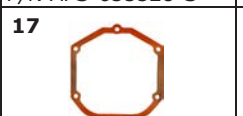

12
P/N APS-655704-S


13
P/N APS-655705-S

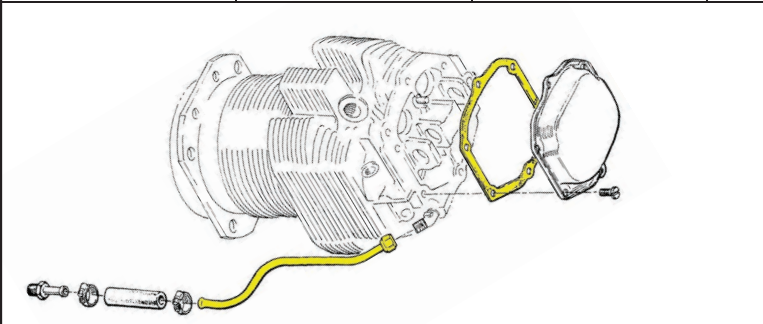

14
P/N APS-655706-S


15
P/N APS-67193-S


16
P/N APS-71450-S


17
P/N APS-75906-S


18
P/N APS-76036-S



Engine Model		Intake Manifold Tubes	Oil Drain-Back Tubes									Rocker Cover Gaskets								
		APS-633730 (Flange)	APS-11935 Fig. 1	APS-68759 Fig. 2	APS-68760 Fig. 3	APS-68761 Fig. 4	APS-71737 Fig. 5	APS-72702 Fig. 6	APS-72703 Fig. 7	APS-73027 Fig. 8	APS-74808 Fig. 9	APS-653193-S Fig. 10	APS-655528-S Fig. 11	APS-655704-S Fig. 12	APS-655705-S Fig. 13	APS-655706-S Fig. 14	APS-67193-S Fig. 15	APS-71450-S Fig. 16	APS-75906-S Fig. 17	APS-76036-S Fig. 18
Continental Engines																				
A-75, A-85, C90, C125, C145 Series																•				
E165, E185, E225 Series												•								
GO-300	A,B,C,D,E,F															•				
GTSIO-520	C,D,F,H,K,L,M,N (C and F only applicable to APS-655705-S)	•													•					
IO-240, IO-360 Series														•						
IO-470	J,K											•								
	D,E,F,H,L,M,N,S,U,V												•							
IO-520 Series													•							
IO-550	A,B,C,D,E,F,L												•							
	G,N,P,R	•													•					
IO-550F	N,P,R	•																		
LTSIO-520	A,E											•								
O-200, O-300 Series																•				
O-470	A,E,J											•								
	G,K,L,R,S,U												•							
TSIO-360 Series														•						
TSIO-470	B,C												•							
TSIO-520	AF,CE,UB,B,BB,C,D,DB,E,EB,G,H,J,JB,K,KB,L, LB,M,N,NB,P,R,T,VB,WB												•							
	BE	•													•					
TSIO-550	A,B,C,E,G,K	•													•					
TSIOF-550	D,J,K	•																		
A-40, A-50, A-65, A-70 Series																•				
AEIO-320	D1B,D2B,E1A,E1B,E2A,E2B			•	•	•														
AEIO-360	A1A,A1B,A1B6							•	•	•							•			
	A1C							•	•	•										
	A1D,A1E,A1E6,A2B							•	•	•	•						•			
	A2A								•	•	•									

Eligibility continued on next page

Gaskets, Intake Manifold Tubes, and Oil Drain-Back Tubes continued from previous page

Eligibility continued from previous page





Engine Model		Oil Drain-Back Tubes									Rocker Cover Gaskets								
		APS-11935 Fig. 1	APS-68759 Fig. 2	APS-68760 Fig. 3	APS-68761 Fig. 4	APS-71737 Fig. 5	APS-72702 Fig. 6	APS-72703 Fig. 7	APS-73027 Fig. 8	APS-74808 Fig. 9	APS-653193-S Fig. 10	APS-655528-S Fig. 11	APS-655704-S Fig. 12	APS-655705-S Fig. 13	APS-655706-S Fig. 14	APS-67193-S Fig. 15	APS-71450-S Fig. 16	APS-75906-S Fig. 17	APS-76036-S Fig. 18
Lycoming Engines																			
AEIO-360 (cont.)	A2C						•	•	•	•									
	A1D6,A2E,A3B6D									•									
	B1B,B1F,B1H,B1G6,B2F,B4A,H1A,H1B		•	•	•													•	
	B1D,B1F6, B2F6		•	•	•														
AEIO-540	D4A5,D4B5,D4D5		•		•	•												•	
	D4C5		•		•	•													
	L1B5,L1B5D,L1D5						•	•	•							•			
AEIO-580	B1A						•	•	•										
AIO-320	A1A,A1B,A2A,A2B,B1B,C1B		•	•	•														
AIO-360	A1A,A1B,B1B						•	•	•	•						•			
	A2A,A2B						•	•	•	•									
C75, C85 Series															•				
GO-435	C2															•			
HIO-360	A1A,C1A				•			•	•										
	A1B,C1B,D1A,E1AD,E1BD,F1AD							•	•										
	B1A		•	•	•														
	B1B				•														
HIO-540	A1A						•	•	•							•			
HO-360	C1A																	•	
	A1A,B1A		•	•															
IGO-540	B1A,B1C																•		
IGSO-540	A1A,A1C,A1D,A1E,A1H															•			
	B1A,B1C																•		
IHO-360	B1A, G1A																•		
IO-320	A1AA,2AB1A		•																
	A1AA2,AB1A			•	•														
	B1B,B1C,B1D,B1E,B2A,C1A,C1B,D1A,D1B,D1C,E1A,E1B,E2A,E2B,F1A		•	•	•														
IO-360	A1A,A1B,A1B6,A1B6D,A1C,A1D,A1D6,A2A,A2B,A2C,A3B6,A3B6D,A3D6D, C1B,C1C,C1C6,C1D6,C1E6, C1E6D,C1G6,D1A,J1A6D,K2A						•	•	•	•						•			
	A1C6							•		•									
	A1D6D,C1F						•	•	•	•									
	B1B,B1BD,B1D,B1E,B1F,B1G6,B2E,B2F,B2F6,B4A,L2A,M1B,MIA		•	•	•													•	
	B1A,B1C,B1F6,E1A		•	•	•														
	C1A							•	•	•						•			
	F1A		•	•	•											•			•
	J1AD							•	•	•									
IO-390	A1A6,A3A6,A1B6,A3B6									•									
IO-540	A1A5,B1B5,G1B5,G1C5,G1D5,G1E5,G1F5,K1C5,L1B5D,P1A5						•	•	•										
	AA1A5,AA1B5,AE1A5,K1A5,K1A5D,K1B5,K1D5,K1E5,K1F5,K1F5D,K1G5, K1G5D,K1J5,K1J5D,K1K5						•	•	•							•			
	AB1A5,C4B5,C4B5D,C4D5D,D4A5,N1A5,T4B5D,V4A5D,W1A5D		•		•	•												•	
	B1A5,B1C5,EIA5,E1B5						•	•	•								•		
	C1B5,C4C5,C4D5,R1A5,S1A5,T4A5D,T4B5,T4C5D		•		•	•													
	D4B5,D4C5,E4C5D,N1A5D,V4A5,W1A5,W1A5D,W3A5D																	•	
	G1A5		•		•	•	•	•	•										
	J4A5		•		•	•										•			•
IO-540	K1H5															•			
	K2A5,M1A5							•	•										
	L1A5D						•									•			
	L1C5		•		•	•										•			
	M1A5D						•										•		
	M1B5D		•		•	•											•		
	UIA5D,U1B5D																•		

Eligibility continued on next page

Gaskets, Intake Manifold Tubes, and Oil Drain-Back Tubes continued from previous page

Eligibility continued from previous page





Engine Model		Oil Drain-Back Tubes									Rocker Cover Gaskets								
		APS-11935 Fig. 1	APS-68759 Fig. 2	APS-68760 Fig. 3	APS-68761 Fig. 4	APS-71737 Fig. 5	APS-72702 Fig. 6	APS-72703 Fig. 7	APS-73027 Fig. 8	APS-74808 Fig. 9	APS-653193-S Fig. 10	APS-655528-S Fig. 11	APS-655704-S Fig. 12	APS-655705-S Fig. 13	APS-655706-S Fig. 14	APS-67193-S Fig. 15	APS-71450-S Fig. 16	APS-75906-S Fig. 17	APS-76036-S Fig. 18
Lycoming Engines continued from previous page																			
IO-580	A1A,B1A						●	●	●										
IO-720	A1A,A1B,D1B,D1C,D1CD															●			
	B1B,B1BD,C1B																●		
IVO-540	A1A															●			
LIHO-360	C1A,C1B,F1AD							●	●										
LIO-320	B1A,C1A		●	●	●														
LIO-360	C1E									●									
	C1E6						●	●	●	●						●			
	C1E6D									●						●			
	M1A		●	●	●														
LO-360	A1G6D A1H6		●	●	●													●	
	E1AD,E1BD		●	●	●														
LTIO-540	F2BD,J2B,J2BD	●	●		●	●											●		
	K1AD	●	●		●	●													
	N2BD,R2AD	●					●	●	●								●		
	U2A	●					●	●	●							●			
	V2AD	●														●			●
	W2A	●																	
O-235, O-290 Series																		●	
O-320	A1A,A1B,A2A,A2B,A2C,A2D,A3A,A3B,A3C,B1A,B1B,B2A,B2B,B2C, B2D,B2E,B3A,B3B,B3C,C1A,C1B,C2A,C2B, C2C,C3A,C3B,C3C,D1A,D1B, D1C,D1D,D1F,D2A,D2B,D2C,D2F,D2G,D2H,D2J,D3G,E1A,E1B,E1C,E1F, E1J,E2A, E2B,E2C,E2D,E2F,E2G,E2H,E3D,E3H,H1AD,H1BD,H2BD,H3AD,H3BD		●	●	●														
O-320 Series																		●	
O-340	A1A,A2A,B1A		●	●	●														
O-340 Series																		●	
O-360	A1A,A1AD,A1C,A1D,A1F6,A1F6D,A1G,A1G6,A1G6D,A1H,A1H6,A1J,A1LD, A1P,A2A,A2D,A2E,A2F,A2G,A3A,A3AD, A4A,A4AD,A4D,A4G,A4J, A4JD,A4K,A4M,A4N,A4P,A5AD,B2A,C1A,C1C,C1E,C1F,C1G,C2A,C2C, C2D,C2E,C4F,C4P, D2A, D2B, F1A6,G1A6		●	●	●													●	
	A2H,A3D,B1A,B1B,B2B,B2C,E1AD,E1BD,E2AD,E2BD,J2A		●	●	●														
O-540	A1A,A1A5,A1B5,A1C5,A1D,A1D5,A2B,A3D5,B4B5,W1A5,W1A5D,W3A5D		●		●	●													
	A4D5,E4B5D,G1A5D,J1C5D,J2A,J2A5D																	●	
	B1A5,B1B5,B2B5,B2C5,E4A5,E4B5,E4C5,F1B5,G1A5,G2A5,H1B5D,H2B5D, J1A5D,J3A5,J3A5D,J3C5D,L3C5D		●		●	●												●	
	B2A5		●															●	
TIGO-541	E1A															●			
TIO-360	A1A,A1B,A3B6						●	●	●	●									
TIO-540	A1A,A1B,A2A,A2B	●			●		●		●								●		
	A1C,A2A	●			●		●		●										
	A2C	●					●	●	●								●		
	AE2A	●					●	●	●							●			
	AH1A	●	●		●											●			
	C1A,E1A,H1A	●	●		●													●	
	AJ1A,AK1A,G1A,T2AD,W2A	●	●		●														
	AA1AD,AB1AD,AF1A,AG1A,K1AD	●	●		●													●	
	AB1BD,AF1B	●																●	
TIO-540	F2BD,J2B,J2BD,N2BD,R2AD,S1AD	●	●		●												●		
	U2A	●					●	●	●										
	V2AD	●														●			●
TIO-541	E1A4,E1B4,E1C4,EAD4															●			●
TIVO-540	A2A															●			
TO-360	C1A6D															●			●
TVO-435	A1A,B1A,B1B,D1A,D1B,F1A,G1A,G1B															●			
TVO-540	A1A															●			
VO-435	A1A,A1C,A1D,A1E,A1F,B1A															●			
VO-540	A1A,B1A,B1B,B1B3,B1C,B1D,B1F,B2D,C1A,C1B,C1C3,C2A,C2C															●			

Oil Access Door for Cessna Aircraft

FAA-PMA approved P/N WAC752000

- Improved to better match the contour of the cowl
- More affordable than other replacement doors
- Replaces Cessna P/N 0752000-56

Now manufactured by McFarlane!



Model	Serial Number
180-180G	30000 thru 18051445
182-182G	33000 thru 18255844
185-185C	185-0001 thru 185-0776
210-210E	57001 thru 21058715

Small Radius 1/8" Tube Bender

Ideal for fuel injection, primer, oil pressure, and oxygen lines!
Tube Bender P/N 364-FH-02

- Easily fabricate 3/8" radius bends up to 180°
- Calibrated to show angle of bend
- For bending 1/8" OD soft copper, aluminum, brass, steel, stainless steel, and other tubing



Primer Line

New! FAA-PMA approved for various Lycoming engines
Prevent vibration cracking and fuel leakage on the engine!

NEW





Use our 1/8" Tube Bending Tool to form to your engine!

Lycoming Engine Model		Part Number																					
		APS12098-090	APS12098-100	APS12098-120	APS12098-130	APS12098-140	APS12098-150	APS12098-160	APS12098-170	APS12098-180	APS12098-190	APS12098-210	APS12098-220	APS12098-240	APS12098-260	APS12098-270	APS12098-280	APS12098-290	APS12098-300	APS12098-310	APS12098-320	APS12098-340	APS12098-350	APS12098-390	APS12098-412
O-290	D			•																					
	D2, D2B, D2C		•	•																					
O-320	A2B, A3B		•		•				•																
IO-320	B1A					•			•	•		•													
	B1C, C1A, D1A, D1B, E1A, E1B, E2A, E2B					•						•													
AIO-320	AIO-320-A1B, AIO-320-B1B, AIO-320-C1B											•													
LIO-320	B1A, C1A					•						•													
AEIO-320	D1B, D2B, E1B, E2B					•						•													
O-360	A4M		•		•				•	•								•							
IO-360	A1A					•						•													
	A1B					•																			
	A1B6, A1B6D, A1C, A1D, A1D6, A2A, A2B, A3B6, A3B6D					•						•													
	B1B								•	•															
	B1D, B1DE, B1G6					•						•													
	B1F, B2F					•			•	•		•													
	B2F6, B4A								•	•															
	C1A, C1B, C1C, C1C6, C1D6, C1E6, C1F, C1G6					•						•													
	F1A, L2A								•	•															
	J1A6D, M1B					•						•													
AIO-360	A1A, A1B, B1B					•						•													
HIO-360	A1A														•						•	•		•	
	A1B, C1A, C1B					•						•													
	B1A													•			•		•	•		•	•		
	D1A																		•				•	•	•
	E1AD, E1BD, F1AD					•						•													
	G1A																		•				•	•	•
HO-360	B1A																					•			
IVO-360	A1A									•			•		•				•						
LIO-360	C1E6					•						•													
TIO-360	A1B					•						•													
	C1A6D						•		•	•		•		•	•										

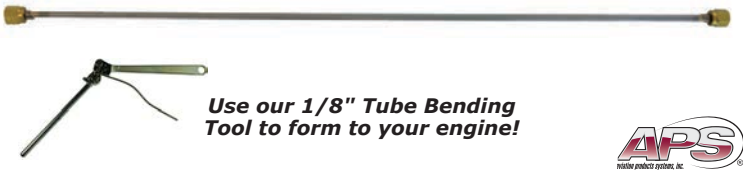
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Primer Line continued from previous page

New! FAA-PMA approved for various Lycoming engines

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Lycoming Engine Model continued		Part Number																					
		APS12098-090	APS12098-100	APS12098-120	APS12098-130	APS12098-140	APS12098-150	APS12098-160	APS12098-170	APS12098-180	APS12098-190	APS12098-210	APS12098-220	APS12098-240	APS12098-260	APS12098-270	APS12098-280	APS12098-290	APS12098-300	APS12098-310	APS12098-320	APS12098-340	APS12098-350	APS12098-390	APS12098-412
AEIO-360	A1A, A1B, A1B6, A1D, A1E, A1E6					•						•													
	B1B					•																			
	B1F, B2F					•						•													
	B1G6, B1H, B4A, H1A, H1B								•	•															
IGO-480	A1B6									•		•		•											
O-540	B1A5		•	•																					
	B1B5, B1D5, B2A5		•																						
	B2B5, B2C5		•	•																					
	B4A5, B4B5		•																						
	E4A5		•	•																					
	E4B5, E4B5D		•																						
	E4C5, G1A5		•	•																					
	G1A5D, G2A5		•																						
IO-540	A1A5, AA1A5								•			•													
	AA1B5					•						•					•								
	AB1A5								•			•													
	AC1A5					•			•			•					•					•			•
	AE1A5								•	•				•											
	C1B5, C1C5, C4B5								•			•													
	C4D5D					•			•			•					•								
	D4A5, D4B5, G1A5, G1B5								•			•													
	G1C5					•						•					•								
	G1D5, G1E5, G1F5, J4A5								•			•													
	K1A5					•			•			•					•								
	K1A5D					•						•					•								
	K1B5					•			•			•													
	K1C5, K1D5, K1E5, K1E5D								•			•													
	K1F5					•			•			•													
	K1F5D					•						•													
	K1G5, K1G5D					•						•					•								
	K1H5, K1J5					•			•			•					•								
	K1J5D, K1K5					•						•					•								
	L1C5								•			•													
	M1A5, M1B5D, M1C5		•						•																
	N1A5, P1A5, R1A5, S1A5, T4A5D, T4B5, T4B5D, T4C5D, V4A5D, W1A5, W1A5D, W3A5D								•			•													
	V4A5								•																
IGO-540	B1A							•	•			•									•				
	B1C							•		•		•													
IVO-540	A1A		•							•					•								•		•
TIO-540	A1A, A1B, A2A, A2B, A2C		•																						
	AB1AD											•													
	AA1AD, AB1BD, AE2A, AF1A, AF1B, AG1A, AH1A								•			•													
	AJ1A					•			•			•					•					•			•
	AK1A								•			•													
	C1A, E1A, G1A											•													
	F2BD, J2B, J2BD, N2BD, R2AD		•																						
	S1AD								•																
	U2A								•			•													
	V2AD, W2A										•	•		•	•				•			•			
AEIO-540	D4A5								•																
	D4B5, D4D5, L1B5, L1B5D, L1D5								•			•													
LTIO-540	F2BD, J2B, J2BD, N2BD, R2AD		•																						
	U2A								•			•													
	V2AD, W2A										•	•		•	•				•			•			
	V2AD	•																							

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Primer Line continued from previous page

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Lycoming Engine Model continued		Part Number																						
		APS12098-090	APS12098-100	APS12098-120	APS12098-130	APS12098-140	APS12098-150	APS12098-160	APS12098-170	APS12098-180	APS12098-190	APS12098-210	APS12098-220	APS12098-240	APS12098-260	APS12098-270	APS12098-280	APS12098-290	APS12098-300	APS12098-310	APS12098-320	APS12098-340	APS12098-350	APS12098-390	APS12098-412
TIVO-540	A2A								•	•				•										
IO-720	A1A					•			•	•	•	•		•	•										
	A1B							•	•																
	B1B, B1BD					•		•		•		•	•	•			•		•	•		•			
	C1B											•	•	•		•	•			•		•			
	D1B							•	•																
	D1BD								•																
	D1C, D1CD							•	•					•											

Adel Clamps (MS21919 W Series)

Loop type, cushioned support clamps, commonly referred to as "Adel Clamps" feature a wedge that is bonded to the cushion to prevent the escape of small wires when used for general purpose wire bundle clamping. Meets the requirements of Mil Spec MS21919.

Standard MS21919WDGXX Clamps

- Aluminum band with a chlorophrene cushion (black with blue stripe)
- For use in areas contaminated with petroleum based hydraulic fluids and occasional fuel splash
- Ozone resistant
- Rated to 212° F
- Not resistant to phosphate ester based fluids
- Supersedes MS21919-DG series without the wedge

High Temperature MS21919WCJXX Clamps

Won't get hard and brittle with engine temperatures!

- Corrosion resistant steel band with a blue fluorosilicone cushion
- Perfect for use in engine or other areas with elevated temperature and/or where petroleum based fluid contamination is present
- Ozone resistant
- Rated to 450° F
- Not resistant to phosphate ester based fluids

Tube/ Bundle O.D. (in)	Aluminum Band Chlorophrene Cushion: MS21919WDG Series	Corrosion Resistant Steel Band, Fluorosilicone Cushion: MS21919WCJ Series
1/8	MS21919WDG2	MS21919WCJ2
3/16	MS21919WDG3	MS21919WCJ3
1/4	MS21919WDG4	MS21919WCJ4
5/16	MS21919WDG5	MS21919WCJ5
3/8	MS21919WDG6	MS21919WCJ6
7/16	MS21919WDG7	MS21919WCJ7
1/2	MS21919WDG8	MS21919WCJ8
9/16	MS21919WDG9	MS21919WCJ9
5/8	MS21919WDG10	MS21919WCJ10
11/16	MS21919WDG11	MS21919WCJ11
3/4	MS21919WDG12	MS21919WCJ12
13/16	MS21919WDG13	MS21919WCJ13
7/8	MS21919WDG14	MS21919WCJ14
15/16	MS21919WDG15	MS21919WCJ15
1	MS21919WDG16	MS21919WCJ16



P/N MS21919WCJ2



P/N MS21919WCJ3



P/N MS21919WCJ4



P/N MS21919WCJ5



P/N MS21919WCJ7



P/N MS21919WCJ15

A little more expensive but will last a long time in firewall forward applications!



P/N MS21919WDG9



P/N MS21919WDG13



P/N MS21919WDG3



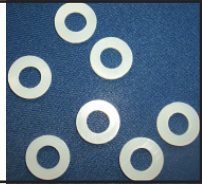
P/N MS21919WDG4

Nylon Washers

Industry standard washers

- Protects the aluminum surfaces under cowl, spinners and fairing screws!
- These will not deform like soft washers

Sold in convenient 100 packs!



P/Ns:
NAS1515H04L, NAS1515H06L, NAS1515H08L, NAS1515H3, NAS1515H4

Cowl Attach Plates and Bushings for Piper Aircraft

Bushing P/N MC69790-00 with Retaining Ring P/N MC484-840
Plate P/N MC69791-000 (Includes Bushing and Retaining Ring)
New bushing material. Stronger and more tough!

- High temperature stainless steel plates and retaining ring
- Bushing is made from high temperature/high strength thermoplastic that lasts longer than original Nylon and Teflon bushing materials!
- Each component sold separately



Plate with Bushing and Retaining Ring


Retaining Ring


Bushing



Save up to 50%

Model Series	Serial Numbers
PA-28-150	28-1761 and on
PA-28-160	28-1761 and on
PA-28-180	28-1761 and on
PA-28-181	28-7690001 and on
PA-28-235	28-10003 and on
PA-28R-180	28-30005 and on
PA-28R-200	28-35001 and on
PA-28R-201	All
PA-28RT-201	All
PA-32-260	All
PA-32-300	All
PA-32R-300	All
PA-32RT-300	All

Cowl Flap Hinges for Cessna Aircraft

Replace worn-out cowl flap hinges at half the cost!
FAA-PMA direct replacement
Quantity of (2) required per aircraft

- Assembly includes hinge and hinge pin
- No looseness in the hinge to start vibration wear
- Selective fit pins

Save $$$ up to 50%



McFarlane Assembly P/N	Replaces Cessna Part Number		
	Assembly	Hinge Halves	Hinge Pin
MC0552144-14	0552144-14	0552144-15, 0552144-16	0552144-17
MC0752014-15	0752014-15	0752014-15	0752609-27
MC0752000-116	0752000-116	0752000-114	0752000-158
MC0752625-200	0752625-200	0752625-200	0752609-27
MC1213261-200	1213261-200	1213506-5, 1213506-6	1213472-1
MC1213469-205	1213469-205	1213506-3, 1213506-4	1213472-1
MC1752091-13	1752091-13	1752091-14, 1752091-15	1213472-3

Aircraft	Part Number
FR172J,K [1] [2]	MC0552144-14
R172K	MC0552144-14
177B	MC1752091-13
180, 180A,B	MC0752000-116
180C,D,E,F,G,H,J,K	MC0752014-15
182B,C,D	MC0752014-15
182E,F,G,H,J,K,L,M,N,P [1] [3]	MC0752625-200
182P [1],Q,R [1] [4]	MC0752625-200
T182 [1] [5]	MC0752625-200
185, 185A,B,C,D,E, A185E,F	MC0752014-15
210-5 (205), 210-5A (205A)	MC1213469-205
206, U206, U206A,B,C,D	MC1213469-205
U206E,F,G	MC1213261-200
P206, P206A,B,C,D	MC1213469-205
P206E	MC1213261-200
TP206A,B,C,D, TU206A,B,C,D	MC1213469-205
TU206E,F,G	MC1213261-200
210B,C,D,E,F,G,H	MC1213469-205
210J,K,L,M,N,R, P210R	MC1213261-200
T210F,G,H	MC1213469-205
T210J,K,L,M,N	MC1213261-200

Quantity of (2) required per aircraft
[1] Partial model eligibility
[2] S/N FR17200441 thru FR17200675
[3] S/N 18253599 thru 18261425
[4] S/N 18262466 thru 18268160
[5] S/N 18267716 thru 18268160

Motor Mount Bolt Lock Washer for Cessna Aircraft

P/N MC0851559-1

- Up to 4x the locking power!
- Stronger material allows FAA approval to eliminate the standard washer!
- Only the McFarlane washer is embossed for improved locking and no-slip during installation.
- Designed with six tabs instead of two giving extra locking power
- Easier to use
- Four lock washers required per engine.



Model	Serial Number
180F,G,H,J,K	18051184 thru 18053203
182E,F,G,H,J,K,L,M,N,P,Q,R	18253599 thru 18268615
A182J,K,L,M,N/F182P,Q	All
185, 185A,B,C,D,E/A185E,F	All
188, 188A,B/A188/A188A,B/T188C	All
210-5 (205), 210-5A (205A)	All
P206, P206A,B,C,D,E, TP206A,B,C,D,E	All
206, U206, U206A,B,C,D,E,F,G	All
TU206A,B,C,D,E,F,G	All
207, 207A, T207, T207A	All
210,210A,B,C,D,E,F,G,H,J,K,L,M,N,R	All
P210N,R, T210F,G,H,J,K,L,M,N,R	All
310, 310B,C,D,F,G,H,I,J,K,L,N,P,Q,R	All
T310P,Q,R,	All
320D,E,F	All
411, 411A, 414	All
414A	414A0001 thru 414A0680

Exhaust Valve Guide Cleaning Reamers for Continental and Lycoming Engines

Why McFarlane Special Reamers?

We now offer special valve guide reamers sized specifically for cleaning Continental and Lycoming exhaust valve guides. Standard valve guide reamers are designed to perfect the guide hole size when reaming new guides. The standard reamer pilot is sized to fit the small bore of a new unfinished guide to ensure a straight finished bore with stability. When this same type of reamer is used to clean the valve guides, the pilot is smaller than the finished hole. This causes the reamer to wander and misalign in the guide hole.

The McFarlane cleaning reamers have a pilot the same size as the valve stem. This properly sized pilot forces the reamer cutter to start straight and follow the correct valve stem path through the guide hole.

While using standard reamers to clean valve guides, you have probably noticed some valve guide metal in the reamer flutes afterwards. This metal is cut from the sides of the guide when hard carbon deposits displace the unguided reamer from the original guide hole, or the reamer was not started in alignment with the guide hole. Wavy or gouged guide holes cause premature carbon buildup, poor heat transfer, and early guide hole wear. Prevent damage to your valve guides by using McFarlane Cleaning Reamers!



Features and Benefits

- Discounted pricing for complete set
- Spiral flutes for a better guide finish
- Pilot sized specifically for cleaning
- Cutting pilot cleans guides without notching guide surfaces
- Constructed of precision ground, high speed tool steel
- See page 542 for additional product information



U.S. Patent No. 9,878,354

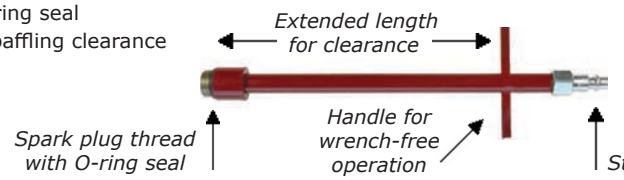
Compression Tester Extension

EXTENSION CT1 (18mm thread)
EXTENSION CT12 (12mm thread)
EXTENSION CT14 (14mm thread)

Save time and money!

- Wrench-free compression testing
- Quality welded construction, O-ring seal
- Allows for exhaust system and baffling clearance
- Makes compression testing easy





Manufactured by Baines Specialties, LLC.

Engine Mount Bonding Strap

P/N AD0750137

- 4 per aircraft
- FAA-PMA

Save $$$



Manufactured by F Atlee Dodge

Aircraft Model
180, 180A,B,C,D,E,F,G,H,J,K
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N,P, 182Q,R, T182
185, 185A,B,C,D,E, A185E,F
188, 188A,B, A188, A188A
210-5 (205), 210-5A (205A)
210, 210A,B,C,D,E,F,G,H,J,K,L,M,N,R
P210N,R, T210F,G,H,J,K,L,M,N,R

Engine Mount Heat Shield

Stainless steel for longer service life
P/N AD1250918-2

- 4 per aircraft
- FAA-PMA

Save $$$



Manufactured by F Atlee Dodge

Aircraft Model
U206A,B,C,E,D,E,F,G, P206A,B,C,D,E
TU206A,B,C,D,E,F, TP206A,B,C,D,E
207,207A, T207, T207A
210K,L,M,N,R, P210N, T210G,H,J,K,L,M,N,R

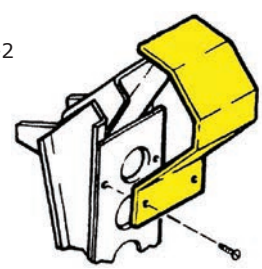
Engine Mount Heat Shield

Better heat protection!
(Qty 1) P/N AF1250918-2
(Qty 4) P/N KIT AF1250918-2

Cerakote polymer-ceramic side coating inhibits heat transfer to the flexible isolators

- Extends engine mount life
- Direct replacement for Cessna P/N 1250918-2





FAA-PMA Approved Cessna Models
U206A,B,C,D,E,F, P206A,B,C,D,E, TU206A,B,C,D,E,F, TP206A,B,C,D,E
207, 207A, T207, T207A
210G,H,K,L,M,N,R,T210G,H, J,K,L,M,N,R, P210N

Breather Tube

Manufactured by F Atlee Dodge

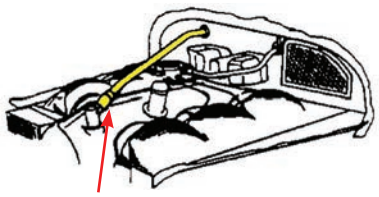
Replace worn breather tubes with cost effective replacements!
P/Ns AD1200106-108 (Fwd)
AD1200106-166 (Aft), AD0700147-9 (Aft)

- Direct replacement at less than half the cost
- FAA-PMA

Maintenance Tip:
Support breather tubes directly to the engine, not the cowl or airframe, to prolong breather tube life.



(Fwd)
P/N AD1200106-108





(Aft)
P/N AD1200106-166

Model	P/N
180F,G,H,J,K	AD1200106-108 (Fwd)
182D,E	AD1200106-108 (Fwd) AD0700147-9 (Aft)
182H,J,K,L,M,N,P,Q,R	AD1200106-108 (Fwd)
185, 185A,B,C	AD1200106-108 (Fwd)
A185E,F	AD1200106-108 (Fwd) AD0700147-9 (Aft)
188, 188A,B, A188, A188A,B	AD1200106-108 (Fwd)
U206, U206A,B,C,D,E,F,G	AD1200106-108 (Fwd)
TU206A,B,C,D,E,F,G	AD1200106-108 (Fwd)
P206, P206A,B,C,D,E	AD1200106-108 (Fwd)
TP206A,B,C,D,E	AD1200106-108 (Fwd)
207, 207A, T207, T207A	AD1200106-108 (Fwd) AD1200106-166 (Aft)
210D,E,F,G,H,J,K,L,M,N,R	AD1200106-108 (Fwd)
T210F,G,H,J,N	AD1200106-108 (Fwd)

PT6 Oil and Oil Filter Analysis Test Kit

Contains everything needed for a laboratory analysis on metals in PT6 engine Oil and Oil Filters
Analysis kits also available for piston and turbine engines, see **Tools and Maintenance** section for more details
P/N GA-001-OF-PT6

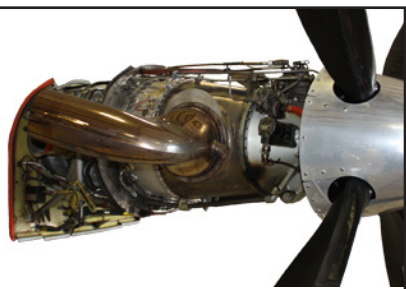


Easy to use!

- Quick turnaround — 24- to 48-hours! Abnormal results are communicated immediately
- Diagnose abnormal wear
- Decrease repair costs!
- Excellent for pre-purchase inspection
- Contains Purolator's 1000 hour PMA replacement lube element 1761865
- Full reports are available online. Any problematic debris from Oil Filter analysis records amount, type, form, and condition of particles.

Parts for the Legendary Pratt & Whitney PT6 Engines

- In stock, no long lead times!
- Save $$$ on commonly replaced parts



P/N	Description	Eligibility
CA3011155	Fuel Transfer Tube	PT6A-10, 11, 11AG, 15AG, 21, 25, 25A, 25C, 27, 28, 34, 34AG, 34B, 36, 38, 41, 41AG, 42, 45A, 45B, 45R, 50, 60A, 61, 64, 65B, 65R, 65AG, 65AR, 67, 67A, 67B, 67D, 67R, 67AF, 67AG, 110, 112, 114, 114A, 116, 135, 135A, PT6B-36, 36A, 36B, PT6T-3, 3B, 3BE, 6, 6B, ST6T-75
CA3020030	Fuel Transfer Tube	PT6T-3, 3B, 6, ST6T-75, 76
CA3029566	Fuel Nozzle Gasket	PT6A-11, 11AG, 15AG, 110, 112, 114, 114A, 116, 21, 27, 28, 34, 34AG, 34B, 36, 135, 135A, 25, 25A, 25C, PT6T-3, 3B, BE, 6, 6B, PT6B-36, 36A, 36B
CA3029678	Fuel Nozzle Gasket	PT6A-6, 6A, 6B, 20, 20A, 20B
CA3101469-01	Fuel Manifold Gasket	PW118, 118A, 118B, 120A, 121, 123, 123AF, 123B, 123C, 123D, 123E, 125B, 126, 126A, 127B, 127D
CA3103345-01	Retainer Plate	PT6A-10, 11, 11AG, 15AG, 21, 25, 25A, 25C, 27, 28, 34, 34AG, 34B, 36, 38, 41, 41AG, 42, 45A, 45B,45R, 45AG, 50, 60A, 60AG, 61, 65B, 65R, 110, 112, 114, 116, 135, 135A, PT6B-36, 36A, 36B, PT6T-3, 3B, 3BE, 6, 6B, ST6T-75
CA3103346-01	Diaphragm	PT6-A38, 41, 41AG, 42, 45A, 45B, 45R, 45AG, 50, 65B, 65R
CA3103347-01	Diaphragm	PT6A-10, 11, 11AG, 15AG, 21, 25, 25A, 25C, 27, 28, 34, 34AG, 34B, 36, 110, 112, 114, 114A, 116, 135, 135A, PT6B-36, 36A, 36B, PT6T-3, 3B, 3BE, 6, 6B, ST6T-75
CA3110998-01	Prop Shaft Shim	PT6A, 60A, 65B, 65R, 65AR, 65AG
CA3118962-01	Gasket	PT6A-6, 6A,6B, 20A, 20B, 21, 25, 25A, 25C ,27
CG3011587	Rod End Bearing	PT6A-15AG, 27, 28, 34, 34AG, 34B, 36, 45R, 60A, 61, 135
MS9371-16	Gasket	PT6



P/N CA3103347-01



PN CG3011587



P/N CA3020030



P/N CA3103345-01



P/N CA3110998-01



P/N CA3101469-01



P/N CA3118962-01



P/N CA3029566

Manufactured by PMA Products, Inc.

NEW! Engine Isolators from Hutchinson Aerospace (Barry Mounts)



Barry Engine Mounts is a leading supplier of aircraft engine mounts, vibration isolators, and cabin noise reduction systems. Barry Engine Mounts can be applied to Beechcraft, Cessna, Piper, Cirrus, Mooney, Gulfstream, Viking, DeHavilland, Pratt & Whitney, and more.

- PMA Approved
- Outstanding quality and value
- Warranted for 500 hours or 12 months

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Zaermacchi					
AL 60-C5		1	IO-720-A1A	4	94011-04
AL 60-F5		1	IO-720-A1A	4	94011-04
F.260		1	O-540-E4A5	4	94110-01
S.208		1	O-540-E4A5	4	94110-01
SF.260TP[1]		1	250-B17D	3	95518-02
Aero Vodochody					
Ae 270		1	PT6A-66A	4	5906-2SA5
AeroServis					
L-410[1]	Let L-410 Conversion	2	PT6A-42	4	5906-2SA5
Aerostar Aircraft					
PA-60-600	Aerostar 600 (Piper)	2	IO-540-G1B5,-K1F5,-K1J5	4	94011-01
PA-60-601	Aerostar 601 (Piper)	2	IO-540-P1A5,-S1A5,-G1B5	4	94011-01
PA-60-601P	Aerostar 601P	2	IO-540-P1A5,-S1A5	4	94011-01
PA-60-602P	Aerostar 602P	2	IO-540-AA1A5	4	94011-01
PA-60-700P	Aerostar 700P	2	LTIO-540-U2A, TIO-5400-U2P	4	94011-40
Agri-Jet Power, Inc.					
G-164[1]	Allied AgCat G-164 TPE331 Conversion	1	TPE331-1-101Z,-151A,-151B, -151G,-151K	2+1+1	92882-01 + 92882-02 + 92882-13
Ahrens					
AR-404[1]		4	250-B17B	3	93110-01
Air Plains					
172B-P	172B-9 180 Cessna HP Conversion	1	O-360-A4M	4	94011-20
180	Cessna 180 300 HP Conversion	1	IO-520-D, IO550-D	4	94110-40
182H-R	Cessna 182H-R 300 HP Conversion	1	IO-520-D, IO550-D	4	94110-40
TR182, R182	Cessna TR182, R182 Conversion	1	IO-540-K1A5	4	94011-02
Air Tractor					
AT-302		1	LTP-101-600A-1A	4	5906-13SA2
AT-400		1	PT6A-15AG, -34,-34AG, -27	3	5906-2SA1 or 5906-2SA5
AT-400A		1	PT6A-20,-20A,-20B, -34,-34AG	3	5906-2SA1 or 5906-2SA5
AT-402		1	PT6A-15AG, -34,-34AG, -27	3	5906-2SA1 or 5906-2SA5
AT-402A		1	PT6A-11,-11AG, -20,-20A, -20B, -21, PT6A-11AG BS 943	3	5906-2SA1 or 5906-2SA5
AT-402B		1	PT6A-15AG, -27, -34,-34AG	3	5906-2SA1 or 5906-2SA5
AT-502		1	PT6A-15AG, -27, -34,-34AG, -34B, -36	4	5906-2SA1 or 5906-2SA5
AT-502A		1	PT6A-45R,-45A,-45B	4	93880-13 or 96078-01
AT-502B		1	PT6A-15AG, -27, -34,-34AG, -34B, -36	4	5906-2SA1 or 5906-2SA5
AT-503		1	PT6A-45R	4	93880-13 or 96078-01
AT-503A		1	PT6A-34,-34AG	4	5906-2SA1 or 5906-2SA5
AT-504		1	PT6A34AG	4	5906-2SA1 or 5906-2SA5
AT-602		1	PT6A34AG	4	93880-13 or 96078-01
AT-802		1	PT6A-45R, -65AG,-65AR, -65B,-65R, -67AG,-67AF,-67R	4	93880-13 or 96078-01
AT-802A		1	PT6A-45R, -65AG,-65AR, -65B,-65R, -67AG,-67R	4	93880-13 or 96078-01
Alliance					
H-250	Courier	1	O-540-A1A5	4	94011-02
H-295 (U10D)	Courier	1	GO-480-G1D6,-G1A6	4	94110-40
H-395 (L28A or U-10B)	Courier	1	GO-480-G1D6	4	94110-40
Allied Ag-Cat					
G-164A		1	R-985-AN-1,-3,-14B,-25,-27, -39,-39A, Wasp Jr. T1B2,T1B3	6+3	MB100875 + MB100877
G-164A		1	R-1340-AN1,-S1H1,-S3H1	6+3	MB100875 + MB100877
G-164B		1	R-985-AN-1,-3,-14B,-25,-27, -39,-39A, Wasp Jr. T1B2,T1B3	6+3	MB100875 + MB100877

[1] NO FAA/PMA - Obtain part from TC/STC holder

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Allied Ag-Cat continued					
G-164B		1	R-975-46/2	4	MB4462
G-164B-15T		1	PT6A-15AG	3	5906-2SA1
G-164B-34T		1	PT6A-34AG	3	5906-2SA1
Aviat					
A-1A[1]	Husky	1	O-360-A1P	4	94150-02
A-1B[1]	Husky	1	O-360-A1P, O-320D2A	4	94150-02
A-1C-180	Husky	1	O-360-A1P	8	00-11980-10
A-1C-200	Husky	1	O-360-A1D6	8	00-11980-10
S-2B		1	AEIO-540-D4A5	8	00-11980-10
S-2C[1], S-2S[1]		1	AEIO-540-D4A5	8	96005-1
Aviation Products Systems Inc.					
PA-18-150[1]	Tiger Cub Conversion	1	O-360-A4P,-A4M,-A4A	2+2	94011-02 + 94011-20
Basler					
Turbo DC-3	DC-3 Turbo Conversion	2	PT6A-67R	4	93880-27
Beechcraft					
19A		1	O-320-E2C,-E3D	4	94150-01
24		1	IO-360-A1B,-A1D, -A2B, -A20	2	96068-01 [2]
35-C33A	Debonair	1	IO-520-B,-BA	4	7351231-3
36	Bonanza	1	IO-520-B,-BA, IO-550-B	4	7351231-3
56TC	Turbo Baron	2	TIO-541-E1B4	4	94011-04
58	Baron	2	IO-520-C,-CB	4	96068-01
58P	Pressurized Baron	2	TSIO-520-L,-LB,-WB	4	94031-03
58TC	Turbocharged Baron	2	TSIO-520-L,-LB,-WB	4	94031-03
60	Duke	2	TIO-541-E1A4,-E1C4	4	94011-04
65	Queen Air	2	IGSO-480-A1A6,-A1B6,-A1E6	4	94110-40
65-80	Queen Air	2	IGSO-540-A1A	4	94110-40
65-88	Queen Air	2	IGSO-540-A1D	4	94110-40
65-90	King Air	2	PT6A-6,-20	3	5906-2SA5, 5906-2SA4, 5906-2SA1, or 5906-1SA1
65-A80	Queen Air	2	IGSO-540-A1A,-A1D	4	94110-40
65-A90	King Air	2	PT6A-20	3	5906-2SA5, 5906-2SA4, 5906-2SA1, or 5906-1SA1
65-B80	Queen Air	2	IGSO-540-A1A,-A1D	4	94110-40
70	Queen Air	2	IGSO-480-A1E6	4	94110-40
76	Duchess	2	O-360-A1G6D, LO-360-A1G6D	2+2	94011-02 + 94011-20
77	Skipper	1	O-235-L2C	4	94150-40
95	Travel Air	2	O-360-A1A,-B1A	4	94150-40
95-55,-A55,-B55,-B55A	Baron	2	IO-470-L	4	96071-01
95-C55	Baron	2	IO-520-C,-CB	4	96068-01
95-C55A	Baron	2	IO-520-C,-CB	4	96068-01
99,99A	Airliner	2	PT6A-20,-27,-28	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
100	King Air	2	PT6A-28	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
200,200C,200CT,200T	Super King Air	2	PT6A-41,-42	4	5906-2SA5, 5906-2SA1, or 5906-1SA1
300,300C	Super King Air	2	PT6A-60A	4	93880-19
350	Super King Air	2	PT6A-60A	4	93880-19
390	Premier 1	2	FJ44-2	2+1+4	96045-09 + 96045-08 + 96045-07
400A, 400T (T-1A)	Beechjet	2	JT15D-5	2+1	93582-02 + 93582-09
1900,1900C	Airliner	2	PT6A-65B	4	93880-9 or 95596-1
1900D	Airliner	2	PT6A-67D	4	95596-1
2000	Starship 1	2	PT6A-67A	5	94641-1
2000	Starship 1 (Panel Mount)	2	PT6A-67A		93880-19
4000	Hawker 4000	2	PW308A	1+1+1+2	96053-03 + 96053-04 + 96053-05 + 96053-06
A100 (U-21F)	King Air (Military)	2	PT6A-28,-34	3	5906-2SA5
A100-1 (U-21J)	Super King Air	2	PT6A-41	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
A100A	King Air	2	PT6A-28A	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
A200 (C-12A,C)	Super King Air	2	PT6A-38,-41	4	5906-2SA5
A200C (UC-12B)	Super King Air	2	PT6A-41,-42	4	5906-2SA5, 5906-2SA1, or 5906-1SA1

[1] NO FAA/PMA - Obtain part from TC/STC holder
[2] Two additional isolators required, part numbers not currently available.

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Beechcraft continued					
A200CT (C-12D, FWC-12D, RC12D, C-12F, RC-12G, RC12H)	Super King Air	2	PT6A-41,-42	4	5906-2SA5, 5906-2SA1, or 5906-1SA1
A200CT (RC-12K,P,Q)	Super King Air	2	PT6A-67	4	93880-18
A24		1	IO-360-A2B,-A2D,-A1B,-A1D	4	96068-01 2
A24R	Sierra 200	1	IO-360-A1B,-A1D	1	96068-01 2
A36	Bonanza	1	IO-520-B,-BA,-BB, IO-550-B	4	7351231-3
A56TC	Turbo Baron	2	TIO-541-E1B4	4	94011-04
A60	Duke	2	TIO-541-E1A4,-E1C4	4	94011-04
A65	Queen Air	2	IGSO-480-A1B6,-A1E6	4	94110-40
A99A	Airliner	2	PT6A-27,-28	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
AT6B 1	Wolverine	1	PT8-68D	4	95596-15, 95596-16, or 95596-17
B100	King Air	2	TPE-331-6-252B	2+1+1	92882-01 + 92882-02 + 92882-03
B19		1	O-320-E2C,-E3D	4	94150-01
B200, B200CT, B200T	Super King Air	2	PT6A-41,-42	4	5906-2SA5, 5906-2SA1, or 5906-1SA1
B24R		1	IO-360-A1B6	4	96068-01 2
B300,B300C	Super King Air	2	PT6A-60A	4	93880-19
B60	Duke	2	TIO-541-E1A4,-E1C4	4	94011-04
B90	King Air	2	PT6A-20	3	5906-2SA5, 5906-2SA4, 5906-2SA1, or 5906-1SA1
B95	Travel Air	2	O-360-A1A,-B1A,-B1B	4	94150-40
B95A	Travel Air	2	O-360-B1A	4	94150-40
B99	Airliner	2	PT6A-27,-28	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
C23	Sundowner	1	O-360-A4G,-A2G,-A4J,-A4K	4	94150-01
C24R	Sierra 200	1	IO-360-A1B6	4	96068-01 2
C35	Bonanza	1	E-185-11	4	96115-01
C55	Baron	2	IO-520-C,-CB	4	96068-01
C90	King Air	2	PT6A-20,-20A,-21	3	5906-2SA5, 5906-2SA4, 5906-2SA1, or 5906-1SA1
C90A	King Air	2	PT6A-21	3	5906-2SA5
C99	Airliner	2	PT6A-36	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
D35	Bonanza	1	E-185-11	4	96115-01
D55,D55A	Baron	2	IO-520-C,-CB	4	96068-01
D95A	Travel Air	2	O-360-B1B	4	94150-40
E33A,E33C	Bonanza	1	IO-520-B,-BA	4	7351231-3
E35	Bonanza	1	E185-11, E-225-8	4	96115-01
E50	Twin Bonanza	2	GSO-480-A1A6,-B1B6	4	94110-40
E55,E55A	Baron	2	IO-520-C,-CB	4	96068-01
E90	King Air	2	PT6A-28	3	5906-2SA5, 5906-2SA4, 5906-2SA1, or 5906-1SA1
F33A	Bonanza	1	IO-520-B,-BA	4	7351231-3
F33C	Bonanza	1	IO-520-B,-BA,-BB	4	7351231-3
F35	Bonanza	1	E185-11, E-225-8	4	96115-01
F50	Twin Bonanza	2	GSO-480-B1B6	4	94110-40
F90	King Air	2	PT6A-135,-135A	3	5906-2SA5
G35	Bonanza	1	E-225-8	4	96115-01
G50,H50	Twin Bonanza	2	IGSO-480-A1A6	4	94110-40
H90	King Air	2	PT6A-34B	3	5906-2SA5, 5906-2SA4, 5906-2SA1, or 5906-1SA1
J50	Twin Bonanza	2	IGSO-480-A1B6	4	94110-40
M19A		1	O-320-E2C,-E3D	4	94150-01
S35	Bonanza	1	IO-520-B,-BA	4	7351231-3
T-34C	Mentor	1	PT6A-25,-25A	3	5906-2SA5, or 5906-2SA1, or 5906-1SA1
T6A 1	JPATS (Military) (Texan II)	1	PT6A-68	4	95596-5 or 95596-6
V35,V35A	Bonanza	1	IO-520-B,-BA	4	7351231-3
V35B	Bonanza	1	IO-520-B,-BA,-BB,-N	4	7351231-3

1 NO FAA/PMA - Obtain part from TC/STC holder
2 Two additional isolators required, part numbers not currently available.

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Bellanca					
17-30A (S/N 30487 & on)		1	IO-520-K	2+2	94030-01 + 94031-01
Blackhawk Modifications					
208	Cessna Caravan XP42A Conversion	1	PT6A-42	3	5906-2SA13
British Aerospace					
Jetstream 3101	Jetstream 3101	2	XIVC, XIVC1, XVIF1	2+1+1	93438-05+ 93438-06+ 93438-07
Jetstream 3201	Jetstream 3201	2	TPE 331-12 Series	2+1+1	93438-05+ 93438-06+ 93438-07
C.A.S.A.					
C-212-CB	Aviocar (212-100)	2	TPE 331-5 Series	2+1+1	93266-01 + 93266-02 + 93266-03
C-212-CC,-CD,-CE,-CF	Aviocar (212-200)	2	TPE 331-10 Series	2+1+1	93266-01 + 93266-02 + 93266-03
C-212-DF	Aviocar (212-200)	2	TPE 331-10 Series	2+1+1	93266-01 + 93266-02 + 93266-03
C-295[1]		2	PW127G	1+1+1+1 or 1+1 or 1+1+2	96049-01 + 96049-02 + 96049-03 + 96049-04 or 96049-08 + 96049-05 or 96049-01 + 96049-09 + 96049-07 + 96049-06
Cessna					
152,A152	Aerobat	1	O-235-L2C	4	94150-40
172I,K,L,M		1	O-320-E2D	4	94011-20
172N	Skyhawk	1	O-320-H2AD	4	94011-20
172P	Skyhawk	1	O-320-D2J	4	94011-20
172Q	Cutlass	1	O-360-A4N	2+2	94011-20 + J-9613-72HA
172R	Skyhawk	1	IO-360-L2A	2+2	94011-20 + J-9613-72HA
172RG	Skyhawk RG	1	O-360-F1A6	2+2	94011-20 + J-9613-72HA
172S	Skyhawk SP	1	IO-360-L2A	2+2	94011-20 + J-9613-72HA
P172D	Skyhawk Powermatic	1	GO-300-E	4	94110-40
R172E (USA F T-41B,C,D)		1	IO-360-D,-DB	4	94017-01
175	Skylark	1	GO-300-A,-C	4	94110-40
175A,B	Skylark	1	GO-300-C,-D	4	94110-40
175C	Skylark	1	GO-300-E	4	94110-40
177	Cardinal	1	O-320-E2D	4	94011-20
177A	Cardinal	1	O-360-A2F	4	94011-20
177B	Cardinal Classic	1	O-360-A1F6,-A1F6D	4	94011-20
177RG, F177RG	Cardinal	1	IO-360-A1B6,-A1B6D	4	J-9613-59HA
180	Skywagon	1	O-470-A,-J,-K	4	94110-40
180A,B	Skywagon	1	O-470-K	4	94110-40
180D,E,F,G,H		1	O-470-L,-R	4	94110-40
182,A,B,C,D	Skylane	1	O-470-L	4	94110-40
182E,F,G	Skylane	1	O-470-L,-R	4	94110-40
182H,J,K,L,M	Skylane	1	O-470-R	4	94110-40
182N,P	Skylane	1	O-470-R,-S	4	94110-40
182Q,R	Skylane	1	O-470-U	4	94110-40
182S,T	Skylane	1	IO-540-AB1A5	4	J-9613-82HA
R182	Skylane RG	1	O-540-J3C5D	1	94011-02
T182		1	O-540-L3C5D	4	94011-02
TR182	Turbo Skylane RG	1	O-540-J-3C5D	4	94011-02
185,A,B,C,D,E	Skywagon	1	IO-470-F	4	94110-40
A185F	Skywagon, AG Carryall	1	IO-520-D	4	94110-40
188	Ag Wagon 230	1	O-470-R	4	94110-40
A188,A188A	Ag Wagon 300,A,B	1	IO-520-D	4	94110-40
206	Super Skywagon	1	IO-520-A	2+2	94030-01 + 94031-01
206H		1	IO-540-AC1A	4	J-15195-4HA
P206,A,B,C,D,E		1	IO-520-A	2+2	94030-01 + 94031-01
T206H		1	TSIO-540-AJ1A	4	J-15195-4HA
TP206A,B,C,D,E		1	TSIO-520-C	2+2	94030-01 + 94031-01
TU206A,B,C,D,E,F		1	TSIO-520-C	2+2	94030-01 + 94031-01
TU206G		1	TSIO-520-M	2+2	94030-01 + 94031-01

[1] NO FAA/PMA - Obtain part from TC/STC holder

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Cessna continued					
U206,A	Super Skywagon	1	IO-520-A	2+2	94030-01 + 94031-01
U206B,C,D,E,F,G		1	IO-520-F	2+2	94030-01 + 94031-01
207	Skywagon	1	IO-520-F	2+2	94030-01 + 94031-01
207A	Skywagon/Stationair	1	IO-520-F	2+2	94030-01 + 94031-01
T207	Turbo Skywagon	1	TSIO-520-G	2+2	94030-01 + 94031-01
T207A	Skywagon/Stationair	1	TSIO-520-M	2+2	94030-01 + 94031-01
208	Caravan I	1	PT6-114, 114A	6+3	96034-1 System
208A	Caravan I	1	PT6A-114,114A	6+3	96034-1 System
208B	Caravan I	1	PT6-114, 114A	6+3	96034-1 System
210		1	IO-470-E	4	94110-40
210-5 (205)		1	IO-470-S	4	94110-40
210-5A (205A)		1	IO-470-S	4	94110-40
210A		1	IO-470-E	4	94110-40
210B,C	Centurion	1	IO-470-S	4	94110-40
210D,E,F,G,H		1	IO-520-A	2+2	94030-01 + 94031-01
210J,K,L,M		1	IO-520-J,-L	2+2	94030-01 + 94031-01
P210N	Pressurized Centurion	1	TSIO-520-P,-AF	2+1+1	94030-01 + 94021-01 + 94021-02
P210R	Pressurized Centurion	1	TSIO-520-CE	2+1+1	94030-01 + 94021-01 + 94021-02
T210F,G,H		1	TSIO-520-C	2+1+1	94030-01 + 94031-01 + 94031-02
T210J,K,L		1	TSIO-520-H	2+1+1	94030-01 + 94031-01 + 94031-02
T210N,M		1	TSIO-520-R	2+1+1	94030-01 + 94031-01 + 94031-02
T303	Crusader	1 & 1	TSIO-520-AE, LTSIO-520-AE	4	94011-02
310B	S/Ns 35547, 35548, 35549, 35551-355771	2	O-470-M	4	94110-40
310C	S/Ns 35550, 35772-35999, 39001-39031	2	IO-470-D	4	94110-40
310D	S/Ns 39032-39299	2	IO-470-D	4	94110-40
310J		2	O-470-U	4	96069-01
310K,L,N		2	IO-470-V,-VO	4	96069-01
310P,Q		2	IO-470-VO	4	96069-01
310R		2	IO-520-M,-MB	4	94006-01
T310P,Q,R		2	TSIO-520-B,BB	4	94006-01
320,320-1,A	Skyknight	1	TSIO-470-B	4	94016-03
320B	Skyknight	2	TSIO-470-C	4	94016-03
320C	Skyknight	2	TSIO-470-D	4	94016-03
320D	Skyknight	2	TSIO-520-B,-BB	4	94006-01 or 94017-01
320E,F	Executive Skyknight	2	TSIO-520-B,-BB	4	94006-01 or 94017-01
335		2	TSIO-520-EB	4	94006-01
336	Skymaster	2	IO-360-A	4	94016-01
337,A,B (USAF02B)	Super Skymaster	2	IO-360-C,-D,-G,-CB,-DB,-GB	4	94017-01
337C,D,E	Super Skymaster	2	IO-360-C,-G,-CB,-GB	4	94017-01
337F	Super Skymaster	2	TSIO-360-C,-G,-CB,-GB	4	94017-01
337G,H		2	IO-360-G,-GB	4	94017-01
P337H	Pressurized Skymaster	1	TSIO-360-C,-CB	4	94017-01
T337B	Turbo Skymaster	2	TSIO-360-A,-B,-AB,-BB	4	94017-01
T337C,D	Turbo Skymaster	2	TSIO-360-A,-AB	4	94017-01
T337E,F	Turbo Skymaster	2	TSIO-360-A,-B,-AB,-BB	4	94017-01
T337H		2	TSIO-360-H,-HB	4	94017-01
340		2	TSIO-520-K,-KB	4	94006-01
340A		2	TSIO-520-N,-NB	4	94006-01
401,A,B		2	TSIO-520-E,-EB	4	94006-01
402,A,B		2	TSIO-520-E,-EB	4	94006-01
402C	Business Liner, Utililiner	2	TSIO-520-VB	4	94006-01
404	Titan	2	GTSIO-520-M	4	94001-01
411,A		2	GTSIO-520-C	4	94001-01
414		2	TSIO-520-J,-JB,-N,-NB	4	94006-01
414A	Chancellor	2	TSIO-520-N,-NB	4	94006-01
421,A		2	GTSIO-520-D	4	94001-01
421B	Golden Eagle	2	GTSIO-520-H	4	94001-01

1 NO FAA/PMA - Obtain part from TC/STC holder

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Cessna continued					
421C	Golden Eagle	2	GTSIO-520-L,-N	4	94001-01
425	Corsair or Conquest I	2	PT6A-112	6+3	96033-01 System
441	Conquest	2	TPE-331-8-401S,-402S, -403S,-404S,-406S	6+3+1+1	96032-1 System
500	Citation & Citation I	2	JT-15D-1,-1A,-1B	2+1	96026-01 + 96026-02
501	Citation & Citation I	2	JT-15D-1A,-1B	2+1	96026-01 + 96026-02
550	Citation II	2	JT-15D-4,4B	2+2+1	96026-03 + 96026-04 + 96026-05
S550	Citation S/II	1	JT-15D-4,4B	4	96026-3 System
551	Citation II	2	JT-15D-4	2+2+1	96026-03 + 96026-04 + 96026-05
650[1]	Citation III,VI	2	TFE-731-3B-100S, -3C-100S	1+1+1+1	93326-09 + 93326-10 + 93326-11 + 93326-12
650[1]	Citation VII (S/N 650-7001 thru -7067)	2	TFE731-4R-2S	1+1+1+1	93326-09 + 93326-10 + 93326-11 + 93326-12
LC-40-550FG	300 (Formerly Columbia 300)	1	IO-550-N	4	94001-01
LC-41-550FG	Corvalis TT	1	IO-550-C	4	94001-01
LC-42-550FG	Corvalis	1	IO-550-N	4	94001-01
Cirrus Design					
SR20		1	IO-360-ES	4	96355-01
SR22, 6 Mount Only		1	IO-550-N	6	96301-01
SR22T, 6 Mount Only		1	IO-550-N	6	96301-01
Commander					
111		1	O-360-A4G,-A1G6	4	94011-02
112		1	IO-360-C1D6	2+2	94011-02 + 94011-20
Conair					
S-2[1]	Turbo Firecat Conversion	2	PT6A-67F	4	93880-22
Dyn' Aviation					
DR2[1]		1		4	94150-01
Eclipse Aviation					
500	Eclipse 500	2	PW610F	2+4+4+2	96133-02 + 96133-05 + 96133-06 + 96133-07
550	Eclipse 550	2	PW610F	2+4+4+2	96133-02 + 96133-05 + 96133-06 + 96133-07
Embraer					
EMB-110P1	Bandeirante	2	PT6A-34	3	5906-2SA5
EMB-110P2	Bandeirante	2	PT6A-34	3	5906-2SA5
EMB-810	Seneca II	2	TSIO-360-E,EB, LTSIO-E,EB	4	94006-01
EMB-820	Chieftain	2	TIO-540-J2BD,-J2B, LT LIO-540-J2BD,-J2B	4	94011-02
Enstrom Helicopter					
F-28A, 280, F-28C		1	HIO-360-C1A,-C1B	4	96394-01
F-28C		1	HIO-360-E1AD,E1BD	4	96394-01
F-28F, 280F, 280FX		1	HIO-360-F1AD	4	96394-01
Epic					
LT[1]	Dynasty LT	1	PT6A-67A	5	93880-19
Evektor					
VUT-100-120i[1]	Cobra	1	IO-360-A1B6	4	94011-20
VUT-100-131i[1]	Super Cobra	1	IO-580-B1A	4	94110-01
Extra Flugzeugbau GmbH					
EA-300	Extra 300	1	AEIO-540-L1B5,-L1B5D	4	94016-02
EA-300/200	Extra 200	1	AEIO-360-A1E	4	94150-02
EA-300L	Extra 300L	1	AEIO-540-L1B5,-L1B5D	4	94016-02
EA-300LC	Extra 330XL	1	AEIO-580-B1A	4	94016-02
EA-300S	Extra 300S	1	AEIO-540-L1B5,-L1B5D	4	94016-02
EA-400[1]	Extra 400	1	TSIOL-550-C	4	94001-01
EA-500[1]	Extra 500	1	250-B17F/2	3	96152-01
Fairchild/Dornier					
228-100,101,200,201, 202,212	Skyservant	2	TPE 331-5-252D	2+1+1	93469-11 + 93469-12 + 93469-14
328-100	Dornier 328	2	PW119B,C	1+1+1+ 1+1+1	95218-07 + 95218-12 + 95218-14 + 95218-15 + 95218-22 + 95218-23
328-300	328JET	2	PW 306B	2+1	96052-01 + 96052-04
CD-2[1]	Seastar	2	PT6A-135A	3	95007-15

[1]NO FAA/PMA - Obtain part from TC/STC holder

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Fairchild/Dornier continued					
DO72[1]		3	PT6A-45A,-45B,-45R	4	93880-4
FFT GMBH					
SC01 B-160	Gyroflug Speed Canard	1	O-320-D1A	4	94150-01
Found Aircraft					
FBA-2C		1	O-540-A1C5	4	94110-02
FBA-2C1	Bush Hawk	1	IO-540-D4A5,-L1C5	4	94110-02
FBA-2C2	Bush Hawk XP	1	IO-540-L1C5	4	94110-02
Frakes Aviation					
G-164A	Turbo Cat Conversion	1	PT6A-34,-34AG	3	5906-2SA1
G-73	Turbo Mallard Conversion	2	PT6A-27,-34	3	5906-2SA5, 5906-2SA1, or 5906-1SA1
Giles					
G-200[1], G-202[1]		1	AEIO-360	4	94016-44
Grob Aircraft					
G120TP[1]		1	250-B17F	3	95518-02
Burkhart Grob					
G520[1]	Egrett	1	TPE 331-14F-801L	4+1	95074-01 + 95074-02 or 94923-31
Grumman					
S2T[1]	Turbo Tracker	2	TPE-331-15AN	4+1	95029-01 + 95029-03
Gulfstream Aerospace					
G-1159	Gulfsteam II	2	Spey RB (163) 511-8	8+8	3573-005 + 3573-006
G-1159A	Gulfstream III	2	Spey RB (163-25) 511-8	8+8	3573-005 + 3573-006
G-1159B	G-IIB	2	Spey RB (163-25) 511-8	8+8	3573-005 + 3573-006
G-IV (G350)	Gulfstream G350	2	Tay Mark 611-8C	1+2+1+ 1+1+2	94756-01 + 94756-04 + 94756-08 + 94756-06 + 94756-07 + 94756-13
G-IV (G450)	Gulfstream G450	2	Tay Mark 611-8C	1+2+1+ 1+1+2	94756-01 + 94756-04 + 94756-08 + 94756-06 + 94756-07 + 94756-13
GA-7	Cougar	2	O-320-D1D	4	94011-20
Harbin Aircraft (AVIC)					
Y-12(IV)		2	PT6A-27	3	5906-2SA5
Y-12F[1]		2	PT6A-65B	4	93880-34
Interstate					
S-1B2[1]		1	O-320-A2B,-B2B	4	94150-01
Israel Aircraft Industries					
101,B	Arava	2	PT6A-27,-36		2351-004-1
1121,A,B	Westwind	2	CJ610-1,-5		K740-4SA1 + K740-8SA2
1123	Westwind	2	CJ610-9		K740-4SA1 + K740-8SA2
Jetprop, LLC.					
DLX[1]	JetProp DLX (Piper Malibu/Mirage Conversions)	1	PT6A-35	4	96119-01
Korea Aerospace Industries					
KT-1[1]		1	PT6A-62	4	93880-26
Lake Aircraft (Revo)					
C-2	Skimmer IV	1	O-360-A1A	4	94150-40
LA-4-200		1	IO-360-A1B,-A1B6	4	94150-01
LA-4P		1	O-360-A1A,-A1D	4	94150-01
Lancair					
235[1]		1	O-235	4	94150-41
320[1]		1	O-320	4	94150-41
ES[1]		1	IO-360-ES	4	94011-20
IV[1]		1	TSIO-550-E	2+2	94011-20 + 94001-01
Lavia S.A.					
PA-25-235		1	O-540-B2B5,-B2C5	4	94110-01
PA-25-260		1	O-540-G1A5,-G2B5	4	94110-01
Learjet					
31,31A		2	TFE-731-2-3B	1+2	96012-01 (Fwd Iso. Only)
35,35A		2	TFE 731-2-2B	1+2	96012-01 (Fwd Iso. Only)
36		2	TFE-731-2-2B	1+2	96012-01 (Fwd Iso. Only)
36A		2	TFE 731-2-2B	1+2	96012-01 (Fwd Iso. Only)
55,55B,55C		2	TFE 731-3A-2B1,-2B, -3AR-2B1,-2B	1+2	96012-01 (Fwd Iso. Only)

[1]NO FAA/PMA - Obtain part from TC/STC holder

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Lockheed					
1329-23A,D	Jetstar	4	JT12A-6,-6A	1+1+1	XK1846-4SA3 + XK1846-4SA4 + K1846-4SA5
1329-23E	Jetstar	4	JT12A-8	1+1+1	XK1846-4SA3 + XK1846-4SA4 + K1846-4SA5
M7 Aerospace					
SA227-AC (C-26A)	Metro III	2	TPE-331-11U-601G,-611G, -602G,-612G	2+1+2	93800-01 + 93800-02, 00-11980-50
SA227-CC	Metro	2	TPE331-11U-612G	1+1+1	93800-07 + 93800-08 + 00-11980-50
SA227-DC (C-26B)	Metro	2	TPE-331-12UA-701G, -12UAR-701G, -12UHR-701G	1+1+1	93800-07 + 93800-08 + 00-11980-50
Marganski & Myslowski					
EM-11[1]	Orka	2	IO-320-B1A, LIO-320-B1A	4 & 4	94011-20
Marsh Aviation					
S-2T[1]		2	TPE-331-14,-15	4+1	95029-01 + 95029-03
Maule					
M-4-210	Rocket	1	IO-360-A	4	94016-01
M-4-210C,S,T	Rocket	1	IO-360-A,-D	4	94016-01
M-5-210C		1	IO-360-D	4	94016-01
M-5-235C		1	O-540-J1A5D,-J3A5,-B4B5, IO-540-W1A5D,-W1A5	4	94016-02
M-6-235		1	O-540-J1A5D,-J3A5,-B4B5, IO-540-W1A5D,-W1A5	4	94016-02
MT-7-235	Super Rocket	1	IO-540-W1A5,-W1A5D	4	94016-02
M-7-235,A,B,C		1	O-540-J1A5D,-J3A5,-B4B5, IO-540-W1A5D,-W1A5	4	94016-02
MX-7-235		1	O-540-J1A5D,-J3A5,-B4B5, IO-540-W1A5D,-W1A5	4	94016-02
M-7-260,C		1	IO-540-V4A5	4	94016-02
M-7-420A,AC		1	250-B17C	3	93110-08
M-8-235		1	O-540-J1A5D,-J3A5,-B4B5, IO-540-W1A5D,-W1A5	4	94016-02
M-9-230		1	SR-305	4	96150-01
MT-7-420		1	250-B17C	3	93110-08
MX-7-420		1	250-B17C	3	93110-08
MD Helicopters, Inc.					
MD900	Explorer			8	95621-07 Isolator, segmented transmission
MD900 S/N 000013 and on	Explorer			8	95624-10 Isolator, Bolt
Mitsubishi					
MU-2B[1]		2	TPE331-25A,-25AA,-25AB	2+1+1	5004-2SA1 + 5004-2SA2 + 5004-2SA3
MU-2B-10[1]	MU-2D	2	TPE331-25A,-25AA,-25AB	2+1+1	5004-2SA1 + 5004-2SA2 + 5004-2SA3
MU-2B-15[1]	MU-2F	2	TPE331-1-151A	2+1+1	5004-2SA1 + 5004-2SA2 + 5004-2SA3
MU-2B-30[1]		2	TPE331-1-151A	2+1+1	5004-2SA1 + 5004-2SA2 + 5004-2SA3
Mooney					
M20A	Mark 20A	1	O-360-A1A,-AID	4	94150-01
M20A	Ranger	1	O-360-AID	4	94150-40
M20B,C	Ranger	1	O-360-A1A,-A1D	4	94150-40
M20D	Master	1	O-360-A1D,-A2D	4	94150-40
M20E[3]	Chaparral, 1964 only	1	O-360-A1A	4	94150-01
M20E[3]	Chaparral, 1965 and up	1	O-360-A1A	4	94011-02
M20F	Executive Skyknight	1	IO-360-A1A	4	94011-02
M20G	Statesman	1	O-360-A1D	4	94150-40
M20J	Mark 201	1	IO-360-A1B6D,-A3B6D,-A3B6	4	94011-20
M20K	Mark 231	1	TSIO-360-GB1,-GB3,-GB4	4	94006-01
M20L	PFM	1	PFM-3200-NO3	1+2	95167-01 + 95167-02
Mudry					
CAP-231[1]		1	IO-540	4	94016-44

[1] NO FAA/PMA - Obtain part from TC/STC holder
[3] Partial model eligibility

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Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Nextant Aerospace					
400A	400NXT (Beechjet 400A Conversion)	2	FJ44-3AP	4+4	96276-01 + 96276-02
O&N Aircraft Mods					
P210N	Silver Eagle (Cessna 210 Conversion)	1	250-B17F/2	3	95518-02
Pacific Aerospace					
750XL		1	PT6A-34	3	5906-2SA5
FU24-954		1	IO-720-A1A,-A1B	4	94011-04
FU24A-954		1	IO-720-A1A,-A1B	4	94011-04
Partenavia					
P 68	Victor	2	IO-360-A1B,-A1B6	4	94011-20
P68TC Observer		2	TIO-360-C1A6D	4	94011-20
Pen Turbo Aviation					
DHC-4A	Caribou Turbo Conversion	2	PT6A-67T	4	93880-24
Piaggio Aero Industries					
P166 DL-3[1], DP1[1]		2	PT6A-121	4	5906-14SA2
P-180	Avanti	2	PT6A-66	4+4	95007-17 + 95007-18
Pilatus					
PC-6/B1-H2[1]		1	PT6A-20	3	5906-2SA1, 5906-1SA1, or 5906-2SA10
PC-6/B2-H2,H4		1	PT6A-27	3	5906-2SA1 or 5906-2SA10
PC-6/B-H2[1]		1	PT6A-6A	3	5906-2SA1, 5906-1SA1, or 5906-2SA10
PC-7		1	PT6A-25,-25A	4	5906-1SA1
PC-7 Mk II[1]		1	PT6A-25C	4	93880-28
PC-9[1]		1	PT6A-62	4	93880-28
PC-12		1	PT6A-67B	5	93880-23
PC-12/45		1	PT6A-67B	5	93880-23
PC-12/47		1	PT6A-67B	5	93880-23
PC-12/47E		1	PT6A-67P	5	93880-23
PC-24	PPU Isolators	2	FJ44-4A		96336-2
Piper					
PA-23-235		2	O-540-B1A5	4	94110-01
PA-23-250	Aztec	2	IO-540-C4B5,-C1B5, TIO-540-C1A	4	94011-02
PA-23-250 (Navy U0-1)	Aztec	2	O-540-A1B5, A1D5, A3D5, IO-540-C1B5,-C4B5, TIO-540-C1A	4	94110-01
PA-24-250	Comanche 250	1	O-540-A1A,-A1A5,-A1B5, -A1C5,-A1D5, IO-540-C1B5	4	94110-01
PA-24-260	Comanche 260	1	IO-540-D4A5, O-540-E4A5	4	94110-01
PA-24-400	Comanche 400	1	IO-720-A1A,-A1B	4	94011-04
PA-25-235	Pawnee 235	1	O-540-B2B5,-B2C5	4	94110-01
PA-25-260	Pawnee 260	1	O-540-G1A5,-G2B5	4	94110-01
PA-28-140[3]	Cherokee Cruiser (S/N 28-20001 thru 28-24999)	1	O-320-E2A,-E3D	4	94150-01
PA-28-140[3]	Cherokee Cruiser (S/N 2-25000 thru 28-7125641)	1	O-320-E2A,-E3D	2+2	94011-02 + 94011-20
PA-28-150	Cherokee (S/N 28-03, 28-1 thru 28-4377, 28-1760A)	1	O-320-A2B,-E2A	4	94150-01
PA-28-151	Cherokee Warrior (S/N 28-7415001 thru 28-7715314)	1	O-320-E3D	2+2	94011-02 + 94011-20
PA-28-160	Cherokee (S/N 28-03, 28-1 thru 28-4377, 28-1760A)	1	O-320-B2B,-D2A	4	94150-01
PA-28-161[3]	Warrior II (S/N 28-7716001 thru 28-8216300 and 2841001 thru 2841365)	1	O-320-D3G,-D2A	2+2	94011-02 + 94011-20
PA-28-161[3]	Warrior II (S/N 28-8316001 thru 28-8616057, and 2816001 thru 286109)	1	O-320-D3G,-D2A	2+2	94011-02 + 94011-20
PA-28-161[3]	Warrior II (S/N 2816110 thru 2816119, and 2842001 and on)	1	O-320-D3G	2+2	94011-02 + 94011-20
PA-28-180[3]	Archer (S/N 28-E13, 28-7305001 thru 28-7505260)	1	O-360-A3A,-A4M	4	94011-20

[1] NO FAA/PMA - Obtain part from TC/STC holder
[3] Partial model eligibility

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Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Piper continued					
PA-28-180 3	Cherokee (S/N 28-03, 28-671 thru 28-5859, 28-7105001 thru 28-7205318)	1	O-360-A3A,-A4A	4	94150-01
PA-28-181 3	Archer II	1	O-360-A4M,-A4A	4	94011-20
PA-28-181 3	Archer II, III, TX	1	O-360-A4M,-A4A	4	94011-20
PA-28-236	Dakota (S/N 28-7911001 thru 28-861008, 2811001 thru 2811010, and 2845001 and on)	1	O-540-J3A5D	4	94011-02
PA-28R-180	Arrow (S/N 28R-30002 thru 28R-31270, 8R-713001 thru 28R-7130013)	1	IO-360-B1E	4	94011-20
PA-28R-200 3	Arrow (S/N 28R-35001 thru 28R-35820, 28R7135001 thru 28R-7135229)	1	IO-360-C1C	4	94011-20
PA-28R-200 3	Arrow II (S/N 28R-7235001 thru 28R-763545)	1	IO-360-C1C,-C1C6	4	94011-20
PA-28R-201	Arrow III (S/N 28R7737002 thru 28R7837317, 2837001 thru 2837061, and 2844001 and on)	1	IO-360-C1C6	4	94011-20
PA-28S-160	Cherokee (S/N 28-03, 28-1 thru 28-1760, 28-1760A)	1	O-320-D2A	4	94150-01
PA-28R-201T 3	Turbo Arrow III (S/N 28R-7703001-201T thru 28R7803374 and 2803001 thru 2803012)	1	TSIO-360-F,FB	4	94006-01
PA-28R-201T 3	Turbo Dakota (S/N 28-7921001 thru 201T 28-7821095)	1	TSIO-360-F,FB	4	94006-01
PA-30	Twin Commanche	2	IO-320-B1A, LIO-320-B1A	4	94011-03
PA-31	Navajo	2	TIO-540-A1A,A1B,A2B,A2C	4	94011-02
PA-31-325	Navajo C/R	2	TIO-540-F2BD, LTIO-540-F2BD	4	94011-02
PA-31-350	Chieftain	2	TIO-540-J2BD,-J2B, LT LIO-540-J2BD,-J2B	4	94011-02
PA-31-350 (T-1020)	Chieftain	2	TIO-540-J2BD,-J2B, LT LIO-540-J2BD,-J2B	4	94011-02
PA-31T	Cheyenne, Cheyenne II	2	PT6A-28	3	96006-01
PA-31T1	Cheyenne I, IA	2	PT6A-11	3	96006-01
PA-31T2	Cheyenne IIXL	2	PT6A-135	3	96006-01
PA-31T-500	Cheyenne I, IA	2	PT6A-11	3	96006-01
PA-32-300	Cherokee Six 300	1	IO-540-K1G5,-K1A5	4	94110-02
PA-32-301	Saratoga	1	IO-540-K1G5	2+2	94011-02 + 94011-03
PA-32R-300	Lance (S/N 32R-7680141 thru 32R-7880068)	1	IO-540-K1G5D	4	94110-02
PA-32R-301	Saratoga S.P.	1	IO-540-K1G5D	4	94011-02 + 94011-03
PA-32RT-300	Lance II	1	IO-540-K1G5D	4	94110-02
PA-32S-300	Cherokee Six Seaplane	1	IO-540-K1A5	4	94110-02
PA-34-200	Seneca II	2	IO-360-C1E6, LIO-360-C1E6	4	94011-20
PA-34-200T	Seneca II	2	TSIO-360-E,EB, LTSIO-E,EB	4	94006-01
PA-34-220T	Seneca III	2	TSIO-360-KB, LTSIO-360-KB	4	94006-01
PA-34-220T	Seneca IV	2	TSIO-360-KB, LTSIO-360-KB	4	94006-01
PA-36-300	Brave 300	1	IO-540-K1G5	4	94110-02
PA-38-112	Tomahawk	1	O-235-L2A,L2C	4	94150-01
PA-39	Twin Comanche	2	IO-320-B1A, LIO-320-B1A	4	94011-03
PA-44-180	Seminole	2	O-360-E1A6D, LO-360-E1A6D, O-360-A1H6, LO-360-A1H6	4	94011-20
PA-44-180T	Turbo Seminole	2	TO-360-E1A6D, LTO-360-E1A6D	4	94011-20
PA-E23-250		2	O-540-A1B5,-A1D5, IO-540-C1B5,-C4B5, TIO-540-C1A	4	94011-02
Quest Aircraft					
Kodiak 100	Kodiak 100	1	PT6A-34	3	5906-2SA14 or 5906-2SA5
Rans					
S-4	Coyote	1	447	4	22011-15
S-6	Coyote II	1	532	4	22011-15
S-7	Courier	1	532	4	22011-15
S-9	Chaos	1	503	4	22011-15

1 NO FAA/PMA - Obtain part from TC/STC holder
3 Partial model eligibility

Continued on next page

Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Rans continued					
S-10	Sakota	1	532	4	22011-15
Riley Aeronautics Corp.					
421[1]	Cessna 421 Turbine Conversion	2	LTP-101	4	5906-14SA2
Rocket Engineering					
305[1]	305 Rocket (Mooney M20K Conversion)	1	TSIO-520-NB	4	94030-04
B36TC[1]	TurbinAir (Beech B36TC Conversion)	1	PT6A-21	3	96119-01
Sabreliner					
NA-265[1]	Sabreliner	2	JT12A-6A	2+1	K740-4SA1 + K740-7SA2
NA-265-20[1]	Sabreliner	2	JT12A-6A	2+1	K740-4SA1 + K740-7SA2
NA-265-30[1]	Sabreliner	2	JT12A-6A	2+1	K740-4SA1 + K740-7SA2
NA-265-40[1]	Sabreliner	2	JT12A-6A,-8	2+1	K740-4SA1 + K740-7SA2
NA-265-60[1]	Sabreliner	2	JT12A-8	2+1	K740-4SA1 + K740-7SA2
NA-265-65[1]	Sabreliner Series 65A	2	TFE731-3R-1D	2+1+1	93459-01 + 93459-02 + 93459-03
NA-265-70[1]	Sabreliner	2	JT12A-8	2+1	K740-4SA1 + K740-7SA2
Seawind/SNA					
300C	Seawind	1	OI-540	4	96165-01
Shafer Aircraft					
DC-3[1]	DC-3 Turbo Conversion	2	PT6A-65A,-65R	4	93880-29
Short Bros. LTD.					
SD-3-60 Variant 200[1]	Shorts 360	2	PT6A-65R,AR,-67R	4	93880-15
Sierra Industries					
550[1]	Sierra Super II (Cessna 550 Conversion)	2	FJ44-3A	2+1	96094-01 + 96094-02
500[1]/550[1]	FJ44 Eagle II (Cessna Citation 500 Conversion)	2	FJ44-2A	2+1	96094-01 + 96094-02
501SP[1]	Stallion (Cessna Citation 501SP Conversion)	2	FJ44-2A	2+1	96094-01 + 96094-02
S550[1]	Super S/II (Cessna 550 Conversion)	2	FJ44-3A	2+1	96094-01 + 96094-02
SOCATA S.A.					
235C	Rallye 235C	1	O-540-B4B5	4	94011-20
235E	Rallye 235E	1	O-540-B4B5	4	94011-20
TB 21[1]	Trinidad	1	TIO-540-AB1AD	4	96129-01
TB 30[1]	Epsilon	1	AEIO-540-L1B5D	4	94016-40
TBM 700		1	PT6A-64	4	95007-16
Soloy					
206[1]/207[1]	Cessna 206/207 Turbo Conversion	1	250-B17	6	93985-02
182Q[1],R[1]	Soloy/SMA Engine Conversion	1	SR-305	4	96150-01
Mark I1[1]	Cessna 206 Mark II Conversion	1	250		93985-02
Mark II[1]	Cessna 206 Mark II Conversion	1	250		95518-05
Sportplane LLC.					
Model I	Kitfox	1	532	4	22011-13
Model II	Kitfox	1	582	4	22011-13
Summit Aviation, Inc. (Formerly Atlantic Aero)					
206, 207, 210	Smooth Ride System (Cessna 206, 207, 210)	1		4+2	94030-01 + 94030-03
The Flight Doctor					
AT802[1]	Air Tractor AT802 TPA-331 Conversion	1	TPE331-14	4+1	95029-01 + 95029-03
Thrush Aircraft					
S2R-G10		1	TPE331-10	3+1	93438-06 + 93395-06
S2R-G5		1	TPE331-5	3+1	93438-06 + 93395-06
S2R-G6		1	TPE331-6	3+1	93438-10 + 93395-06
S2RHG-T65		1	PT6A-65AG	4	93880-8
S2R-T11		1	PT6A-11AG	3	5906-1SA1
S2R-T15		1	PT6A-15AG,-27AG	3	5906-1SA1
S2R-T34		1	PT6A-34AG	3	5906-1SA1
S2R-T45		1	PT6A-45,-45A,-45B,-45R	4	93880-8
S2R-T65		1	PT6A-65AG	4	93880-8
Tiger Aircraft					
AA-5B	Tiger (S/N 0001-0399)	1	O-360-A4K	4	94011-20

[1] NO FAA/PMA - Obtain part from TC/STC holder

Continued on next page

Engine Isolators eligibility continued from previous page

Aircraft	Popular Name	# of Engs	Engine Model	Isolators per Engine	Barry Mount P/N
Twin Commander					
500		2	O-540-A2B	4	94110-01
500A		2	IO-470-M	4	94110-40
560A		2	GO-480-D1A,-C1B6,-G1B6	4	94110-40
560E		2	GO-480-C1B6,-G1B6	4	94110-40
560F		2	IGO-540-B1A,-B1C	4	94110-40
680		2	GSO-480-A1A6,-B1A6	4	94110-40
680E		2	GSO-480-B1A6	4	94110-40
680F,FL		2	IGSO-540-B1A,-B1C	4	94110-40
680FL/P		2	IGSO-540-B1A,-B1C	4	94110-40
685		2	GTSIO-520-F,-K	4	94001-01
690,A		2	TPE-331-5-251K	2+1+1+1+1	92670-21 + 92670-23 92670-02 + 92670-03 + 92670-08
690B		2	TPE-331-5-251K,-252K	2+1+1+1+1	92670-21 + 92670-23 + 92670-02 + 92670-03 + 92670-08
690C		2	TPE-331-5-254K	2+1+1+1+1	93395-27 + 93395-29 + 93395-06 + 93395-02 + 93395-25
690D		2	TPE-331-5-254K	2+1+1+1+1	93395-27 + 93395-29 + 93395-06 + 93395-02 + 93395-25
695,A		2	TPE-331-10-501K,-511K	2+1+1+1+1	93395-27 + 93395-29 + 93395-06 + 93395-02 + 93395-25
695B		2	TPE-331-10-511K	2+1+1+1+1	93395-27 + 93395-29 + 93395-06 + 93395-02 + 93395-25
720		2	GSO-480-B1A6	4	94110-40
Vans Aircraft					
RV-3,RV-3A,RV-3B Standard[1]		1	O-290, O-320	4	94011-20
RV-3,RV-3A,RV-3B Aerobatic[1]		1	O-290, O-320	4	94016-03
RV-4,RV-4A Standard[1]		1	O-320, O-360	4	94011-20
RV-4,RV-4A Aerobatic[1]		1	O-320, O-360	4	94016-08
RV-6 Standard[1]		1	O-320, O-360	4	94011-20
RV-6 Aerobatic[1]		1	O-320, O-360	4	94016-03
RV-7,RV-7A Standard[1]		1	150-200 HP LYC	4	94011-20
RV-8,RV-8A Standard[1]		1	IO-360, O-504	4	94011-20
RV-8,RV-8A Aerobatic[1]		1	IO-360, O-504	4	94016-08
RV-9,RV-9A Standard[1]		1	O-360	4	94011-20
RV-10 Standard[1]		1	IO-540	4	94110-01
RV-12iS[1]		1	912iS, 912ULS	4	22002-15
RV-14,RV-14A Standard[1]			IO-390	4	94011-20
Vazar Aerospace					
DHC-3	Otter Turbine Conversion	1	PT6A-34,-34AG,-135,-135A	3	5906-2SA5
Viking Air					
DHC-2	Mark III	2	PT6-20	3	7351257-7
DHC-2 Mk I	Beaver	1	R-985-SB3	6+3	MB100875, MB100877
DHC-2 Mk III	Turbo-Beaver	1	PT6A-6A,-20	3	7350721-7
DHC-3	Otter Turbine Conversion	1	S3H1-G, S1H1-G, R-3140-59,-61	3	MB4040
DHC-6-100,200 Series	Twin Otter	2	PT6A-20	3	7350721-7 or 7350721-8
DHC-6-200 Series	Twin Otter	2	PT6A-20	3	7350721-7 or 7350721-8
DHC-6-300 Series	Twin Otter	2	PT6A-27	3	7350721-7 or 7350721-8
DHC-6-400	Twin Otter	2	PT6A-34	3	7350721-7
Yates Aircraft					
A188A[1]	Cessna A188A Conversion	1	IO-540-K1A,-K1B,-K1G,-S1A5	4	94110-02
A188B[1][3]	Cessna A188AB Conversion	1	IO-720-A1B	4	94007-01
A188B[1][3]	Cessna A188B Conversion	1	IO-540-K1A,-K1B,-K1G,-S1A5	4	94110-02
T188C[1][3]	Cessna T188C Conversion	1	IO-720-A1B	4	94007-01
T188C[1][3]	Cessna T188C Conversion	1	IO-540-K1A,-K1B,-K1G,-S1A5	4	94110-02

[1] NO FAA/PMA - Obtain part from TC/STC holder
[3] Partial model eligibility

Continued on next page

Exhaust System

Mufflers, tailpipes, shrouds, risers, clamps, and more!



*Offering the **LARGEST** stock in the industry!*

D A M™ Exhaust Lube

Aircraft Exhaust Anti-seize/Lubricant — The only anti-seize that works!
P/N DAM20-4.0

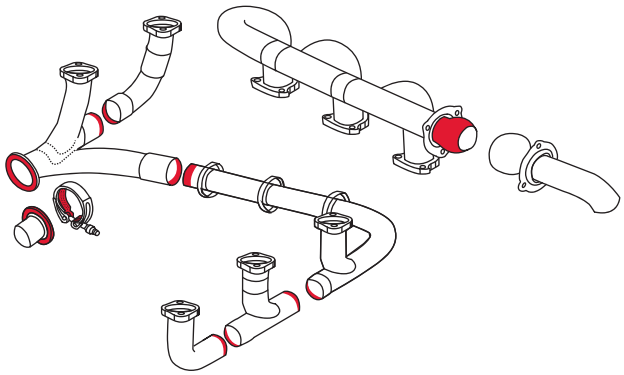
D A M™ Exhaust Lube is designed specifically for aircraft exhaust ball joints, clamps, slip joints, and hardware. A low viscosity liquid is blended with molybdenum-disulfide and other special micro-lubricants to produce a protective dry lubricant film. This film imbeds into the stainless steel and keeps your joints lubricated for years!

- Protects up to 2400° F
- **No** stainless corroding **graphite**
- Prevents heat corrosion and joint lockup
- Joints stay free to move with thermal expansion
- No greasy powdered metal paste that locks up
- Low viscosity — a little goes a long way
- Loosens assembled joints

Do not use an anti-seize that contains graphite on your exhaust systems. Graphite corrodes and destroys the grain structure of stainless steel.



4 oz. can



FOR BEST RESULTS, APPLY BEFORE ASSEMBLY
(Can also be applied to joint edges on older assemblies)

Shake well.

Pre-assembly: Clean joint and apply a wet coat to both surfaces to be joined. The joint can be assembled wet or dry.

Assembled joints: Apply several times to joint edge. Allow time for capillary action to penetrate the joint. For better penetration of locked up joints, mix 50/50 with acetone, MEK, toluene, or similar solvents.





CASA 212 Exhaust Deflector

P/N AT-CASA-EXDF-1001

Keeps exhaust from impinging on the wing trailing edge and flaps

- Decreases the amount of corrosion in the flap
- Extends the life span of the flap
- Save $$$ on repairing corroded or damaged areas

Easier to keep the aircraft clean!

Manufactured by Aero Twin, Inc.



Caravan Exhaust Deflector

P/N ED8-100
P/N ED8-100-3 (with Camera Ops)

Keeps exhaust from impinging on the cargo pod. For aircraft with infrared cameras installed, P/N ED8-100-3 extends the deflector to avoid the camera view.

- Greatly reduces temperatures on the forward pod
- Save $$$ on repairing heat-induced pod delamination

Eliminates exhaust stains



P/N ED8-100-3



P/N ED8-100

Manufactured by Aero Twin, Inc.

NEW! Stainless Steel Exhaust Nuts and Studs

FAA-PMA approved for Continental and Lycoming engines

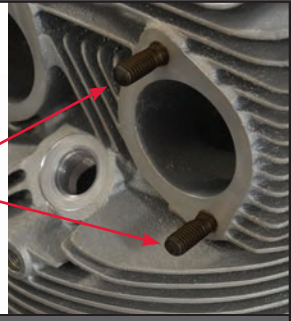
Save $$$

No more rust!

- Heat-treated, high-strength stainless alloy
- Less stress on the exhaust flanges and gaskets as the engine heats up and cools down
- Studs are nitrocarburized ***Black Max***™ coating to resist galling and corrosion
- ***Black Max***™ prevents galvanic corrosion between stainless and aluminum cylinder
- Stainless steel nuts are CAD plated — better on galvanized and stainless studs
- Saves labor and cost by lasting longer!

*These are the **good** ones!*





Nitrocarburized Black Max Exhaust Studs

Engine	Nominal P/N *Sold in 4 PK*	Oversized P/N [1] [2] *Sold in 2 PK*	L (In)	A Min (In)	Designation A	B Min (In)	Designation B
Continental	MC401885	MC401885P003 MC401885P007 MC401885P012	1.313	0.542	5/16-24 UNRF	0.663	5/16-18 UNR
Continental	MC401804	MC401804P003 MC401804P007 MC401804P012	1.059	0.530	1/4-28 UNRF	0.515	1/4-20 UNR
Continental	MC402044	MC402044P003 MC402044P007 MC402044P012	1.38	0.718	5/16-24 UNRF	0.582	5/16-18 UNR
Continental	MC401893	MC401893P003 MC401893P007 MC401893P012	1.246	0.667	1/4-28 UNRF	0.565	1/4-20 UNR
Continental	MC402151	MC402151P003 MC402151P007 MC402151P012	1.25	0.554	5/16-24 UNRF	0.524	5/16-18 UNR
Continental	MC657986-1.38	MC657986-1.38P003 MC657986-1.38P007 MC657986-1.38P012	1.383	0.713	5/16-24 UNRF	0.579	5/16-18 UNR
Continental	MC657985-1.38	MC657985-1.38P003 MC657985-1.38P007 MC657985-1.38P012	1.384	0.722	1/4-28 UNRF	0.531	1/4-20 UNR
Lycoming	MC25C-10	MC25C-10P03 MC25C-10P07 MC25C-10P12	1.249	0.479	1/4-20 UNRC	0.639	1/4-20 UNR
Lycoming	MC25C-11	MC25C-11P03 MC25C-11P07 MC25C-11P12	1.382	0.710	1/4-20 UNRC	0.598	1/4-20 UNR
Lycoming	MC25C-8	MC25C-8P03 MC25C-8P07 MC25C-8P12	1.000	0.331	1/4-20 UNRC	0.568	1/4-20 UNR
Lycoming	MC31-10	MC31-10P03 MC31-10P07 MC31-10P12	1.253	0.540	5/16-24 UNRF	0.654	5/16-18 UNR
Lycoming	MC31-12	MC31-12P03 MC31-12P07 MC31-12P12	1.498	0.567	5/16-24 UNRF	0.758	5/16-18 UNR
Lycoming	MC31C-10	MC31C-10P03 MC31C-10P07 MC31C-10P12	1.253	0.461	5/16-18 UNRC	0.629	5/16-18 UNR
Lycoming	MC31C-12	MC31C-12P03 MC31C-12P07 MC31C-12P12	1.497	0.514	5/16-18 UNRC	0.731	5/16-18 UNR
Lycoming	MC31C-13	MC31C-13P03 MC31C-13P07 MC31C-13P12	1.633	0.677	5/16-18 UNRC	0.765	5/16-18 UNR

Notes:

[1] Nominal studs with oversized offerings P03, P07, P12 denote the additional oversize in 0.01 inches.

[2] Nominal studs with oversized offerings P003, P007, P012 denote the additional oversize in 0.001 inches.

Engine eligibility on next page

Stainless Steel Exhaust Nuts

Engine	P/N Sold as Each	Type	Overall Height (H)	Flat to Flat (W)	Designation
Continental	MC22022	Standard	0.445 - 0.461	0.489 - 0.500	5/16-24 UNF
Continental	MS20500-428	Standard	0.320 - 0.328	0.430 - 0.439	1/4-28
Lycoming	MCSTD-37	Standard	0.258 - 0.273	0.489 - 0.500	5/16-24 UNF
Lycoming	MCSTD-1410	Standard	0.258 - 0.273	0.489 - 0.500	5/16-18 UNC
Lycoming	MCSTD-1411	Standard	0.212 - 0.226	0.488 - 0.505	1/4-20 UNJC

NEW! Stainless Steel Exhaust Nuts and Studs Engine Eligibility

FAA-PMA approved for Continental engines

See previous page for dimensions

See next page for Lycoming engine eligibility

- Heat-treated, high-strength stainless alloy
- Less stress on the exhaust flanges and gaskets
- Studs are nitrocarburized with ***Black Max***™ coating
- Stainless steel nuts are CAD plated
- Saves labor and cost by lasting longer!

No more rust!



*These are the **good** ones!*

Continental Engine Model Eligibility		Part Number: Nut: MS20500-428[1]	Nut: MC22022	Stud: MC401804	Stud: MC401885	Stud: MC401893	Stud: MC402044	Stud: MC402151	Stud: MC657985-1.38	Stud: MC657986-1.38
A-50-1,2,3,4,4J,5,5J,6,6J,7,7J,8,8J,9,9J A-65, A-65-1,3,6,6J,7,8,8F,8FJ,8J,9,9F,9FJ,9J,12,12F,12FJ,12J,14,14F,14FJ,14J A-75, A-75-3,6,6J,8,8F,8FJ,8J,9,9J A-80-5J,8,8J,9,9J			•							
C-75, C75-2,8,8F,8FH,8FHJ,8FJ,8J,12,12B,12BF,12BFH,12F,12FH,12FHJ,12FJ,12J,15,15F C-85, C85-8,8F,8FHJ,8FJ,8J,12,12F,12FH,12FHJ,12FJ,12J,14F,15,15F C-90-12F,14F, 8F			•					•		
C-115-1,2			•							
C-125-1,2 C145-2,2H,2H,2HP			•					•		
E165-2,3,4 E-185, E-185-1,2,3,5,8,9,10,11 E-225, E225-2,4,8,9			•		•					
O-200	O-200-A,B,		•					•		
IO-240	IO-240-A,B		•							
IOF-240	IOF-240-B		•							•
O-300	O-300-A,B,C,D,E		•					•		
GO-300	GO-300-A,C,D,E		•					•		
IO-360	IO-360-A,C,D,G,H,J,K		•				•			
	IO-360-AB,CB,DB,ES,GB,HB,JB,KB		•							•
TSIO-360	TSIO-360-A,B,C,D,E,F		•				•			
	TSIO-360-AB,CB,DB,EB,FB,GB,H,HB,JB,KB,LB,MB,RB,SB		•							•
LTSIO-360	LTSIO-360-E		•				•			
	LTSIO-360-EB,KB,RB		•							•
O-470	O-470-A,E,J		•		•					
	O-470-B	•		•						
	O-470-G,K,L,M,P,R,S	•				•				
	O-470-G-CI,U	•							•	
IO-470	IO-470-C,D,E,F,G,H	•				•				
	IO-470-J,K,VO	•							•	
	IO-470-L,M,N,P,R,S,U,V	•				•				
IO-520	IO-520-A,B,BA,BB,C,CB,D,E,F,J,K,L,M,MB								•	
TSIO-520	TSIO-520-B,C,D,E,G,H,P,R	•				•				
	TSIO-520-AE,J,K		•							
	TSIO-520-AF,BE,CE,DB,EB,JB,KB,L,LB,M,N	•							•	
	TSIO-520-NB,T,UB,VB,WB	•							•	
LTSIO-520	LTSIO-520-AE	•							•	
GTSIO-520	GTSIO-520-C,D,H,L,M,N	•							•	
IO-550	IO-550-A,B,C,D,E,F,G,L,N,P,R	•							•	
IOF-550	IOF-550-N,P,R	•							•	
TSIO-550	TSIO-550-A,B,C,E,G,J,K,N	•							•	
TSIOF-550	TSIOF-550-D,J,K,P	•							•	
TSIOL-550	TSIOL-550-A,C	•							•	

[1] P/N MS20500-428 is considered standard hardware and does not have FAA-PMA approval.

Lycoming eligibility on next page.



NEW! Stainless Steel Exhaust Nuts and Studs Engine Eligibility

FAA-PMA approved for Lycoming and Continental engines

See previous pages for additional eligibility and dimensions

- Heat-treated, high-strength stainless alloy
- Less stress on the exhaust flanges and gaskets
- Studs are nitrocarburized with ***Black Max***™ coating
- Stainless steel nuts are CAD plated
- Saves labor and cost by lasting longer!

No more rust!



Lycoming Engine Model Eligibility		Part Number										
		Nut			Stud							
		MCSTD-1410	MCSTD-1411	MCSTD-37	MC25C-10	MC25C-11	MC25C-8	MC31-10	MC31-12	MC31C-10	MC31C-12	MC31C-13
O-235 O-290	O-235-C1,C1B,C1C,C2A,C2C,F2A,F2B,H2C,J2A,K2A,K2B,K2C, L2A,L2C,M1,N2A,N2C,P2A, O-290-D,D2,D2B,D2C	•									•	
O-320	O-320-A2A,A2B,A2C,A2D,A3A,A3B,A3C,B1A,B2A,B2B,B2C, B3A,B3B, B3C,C1A,D1A,D1D,D1F,D2A,D2B,D2C,D2G,D2J,D3G, E1A,E1C,E1F,E2A,E2B,E2C,E2D,E2F,E2G,E2H,E3D,E3H, H1AD	•									•	
	O-320-H2AD										•	
	O-320-H2BD,H3AD,H3BD	•									•	
IO-320	IO-320-B1A, B1C, C1A, D1A	•									•	
	IO-320-D1B, E1A										•	
	IO-320-E2A	•									•	
	IO-320-E2B										•	
AIO-320	AIO-320-B1B, C1B										•	
LIO-320	LIO-320-B1A,C1A	•									•	
O-340	O-340-A1A,A2A, B1A	•									•	
O-360	O-360-A1A,A1C,A1D,A1F6	•									•	
	O-360-A1AD,A1F6D	•										
	O-360-A1G										•	
	O-360-A1G6,A1G6D	•										
	O-360-A1H,A1H6										•	
	O-360-A1LD	•										
	O-360-A1P										•	
	O-360-A2A,A2D,A2E,A2F,A2G,A3A	•									•	
	O-360-A3AD	•										
	O-360-A4A	•									•	
	O-360-A4G,A4K,A4M	•										
	O-360-4N,A4P	•									•	
	O-360-A5AD	•										
	O-360-B2A,B2C,C1A,C1C,C1E,C1F,C1G,C2A	•									•	
	O-360-C2B	•										
	O-360-C2C,C2D,C2E,C4F,C4P,D2A,D2B,E1A6D	•									•	
	O-360-F1A6										•	
	O-360-J2A	•									•	
HO-360	HO-360-B1A,B1B,C1A	•									•	
IO-360	IO-360-A1A,A1B,A1B6,A1B6D,A1C,A1D,A1D6,A2A,A2B, A3B6D, B1A,B1B,B1D,B1E,B1F,B2F,B2F6,B4A	•									•	
	IO-360-A1B6,A3B6D			•				•				
	IO-360-C1A,C1B,C1C,C1C6,C1D6,C1E6,C1F										•	
	IO-360-C1F							•				
	IO-360-C1G6	•									•	
	IO-360-E1A,J1A6D										•	
	IO-360-L2A,M1A,M1B	•									•	
LO-360	LO-360-A1H6										•	
	LO-360-E1A6D	•									•	
	LO-360-A1G6D	•									•	
TO-360	TO-360-C1A6D											
	TO-360-E1A6D				•							
VO-360	VO-360-A1A,A1B,B1A				•							
AIO-360	AIO-360-A1A,A1B,B1B	•									•	
HIO-360	HIO-360-A1A	•									•	
	HIO-360-A1B	•										
	HIO-360-B1A	•									•	
	HIO-360-B1B	•										
	HIO-360-C1A,C1B,D1A	•									•	
	HIO-360-E1AD,E1BD,F1AD	•									•	•
	HIO-360-G1A	•										•

Eligibility continues on the next page

NEW! Stainless Steel Exhaust Nuts and Studs Engine Eligibility Continued

FAA-PMA approved for Lycoming and Continental engines

See previous pages for additional eligibility and dimensions

- Heat-treated, high-strength stainless alloy
- Less stress on the exhaust flanges and gaskets
- Studs are nitrocarburized with ***Black Max***™ coating
- Stainless steel nuts are CAD plated
- Saves labor and cost by lasting longer!

*These are the **good** ones!*

No more rust!



Lycoming Engine Model Eligibility Continued		Part Number										
		Nut			Stud							
		MCSTD-1410	MCSTD-1411	MCSTD-37	MC25C-10	MC25C-11	MC25C-8	MC31-10	MC31-12	MC31C-10	MC31C-12	MC31C-13
IVO-360	IVO-360-A1A										•	
LIO-360	LIO-360-C1E6										•	
	LIO-360-B1G6											
	LIO-360-M1A	•									•	
LTO-360	LTO-360-E1A6D										•	
TIO-360	TIO-360-A1B										•	
	TIO-360-C1A6D		•		•							
AEIO-360	AEIO-360-A1E,B1B,B1F,B1G6,B1H,H1A,H1B	•									•	
	AEIO-360-A1E6	•										
IO-390	IO-390-A1A6,A1B6,A3A6				•		•					
	IO-390-A3B6,B1A6,B1B6,C1A6,C1B6,C3A6,C3B6,D1A6, D1B6,D3A6,D3A6,D3B6											•
HIO-390	HIO-390-A1A					•	•					
VO-435 TVO-435	VO-435-A1B,A1C,A1D,A1E,A1F,A2A,B1A,B1B3,B1C,B1D,B2A, B2C,B2D,C1A,C1B,C2A TVO-435-A1A,B1A											•
GO-480	GO-480											•
	GO-480-B,B1A6,B1B,B1C,B1D,D1A,F1A6,F2A6,F4A6											•
	GO-480-F6											
GSO-480	GSO-480-A1A6,A2A6,B1A6,B1B6,B1C6,B1E6,B1J6,B2D6											•
IGSO-480	IGSO-480-A1A6,A1B6,A1C6,A1E6,A1F6											•
	IGSO-480-A1D6											•
O-540	O-540-A1A,A1A5,A1B5,A1C5,A1D,A1D5,A2B,A3D5,A4B5, A4D5,A4E5,B1A5,B1B5,B2B5,B2C5,B4B5,E4A5,E4B5,E4C5, F1B5,G1A5,G2A5,H1B5D,H2A5,H2B5D,J1A5D,J3A5,J3A5D, J3C5D				•		•					
	O-540-L3C5D				•		•		•			
IO-540	IO-540-A1A5,AB1A5				•		•					
	IO-540-AC1A5		•							•		
	IO-540-AE1A5,AF1A5				•		•					
	IO-540-AG1A5,B1A5,B1C5			•			•					
	IO-540-C1B5				•		•					
	IO-540-C4B5				•		•		•			
	IO-540-C4C5				•		•					
	IO-540-C4D5D				•							
	IO-540-D4A5,D4B5				•		•		•			
	IO-540-E1A5			•			•					
	IO-540-E1B5			•								
	IO-540-G1A5,G1B5,G1C5				•		•					
	IO-540-G1D5				•		•		•			
	IO-540-G1E5,G1F5,J4A5				•		•					
	IO-540-K1A5,K1A5D,K1B5				•		•		•			
	IO-540- K1C5				•		•					
	IO-540-K1D5,K1E5,K1F5,K1F5D,K1G5,K1G5D,K1J5,K1J5D				•		•		•			
	IO-540-K1K5				•			•				
	IO-540-L1C5				•		•					
	IO-540-M1A5			•			•					
	IO-540-N1A5,P1A5,R1A5,T4B5				•		•					
	IO-540-S1A5						•		•			
	IO-540-T4A5D,T4B5D				•		•		•			
	IO-540-T4C5D,V4A5,V4A5D,W1A5,W1A5D,W3A5D				•		•					
VO-540	VO-540-A1A											•
	VO-540-C2B											•
IGO-540	IGO-540-A1A,A1C											•
	IGO-540-B1A,B1C											•

Eligibility continues on the next page

NEW! Stainless Steel Exhaust Nuts and Studs Engine Eligibility Continued

FAA-PMA approved for Lycoming and Continental engines

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- Heat-treated, high-strength stainless alloy
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- Stainless steel nuts are CAD plated
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No more rust!



Lycoming Engine Model Eligibility Continued		Part Number: Nut: MCSTD-1410	Nut: MCSTD-1411	Nut: MCSTD-37	Stud: MC25C-10	Stud: MC25C-11	Stud: MC25C-8	Stud: MC31-10	Stud: MC31-12	Stud: MC31C-10	Stud: MC31C-12	Stud: MC31C-13
TIO-540	TIO-540-A1A,A1B,A2A,A2B,A2C,F2BD,J2B,J2BD,N2BD,R2AD			•								
	TIO-540-AA1AD,AB1AD,AF1A,AF1B,AG1A,AK1A				•							
	TIO-540-AE2A,AH1A,U2A							•				
	TIO-540-C1A,E1A,G1A,H1A				•		•					
	TIO-540-AJ1A,W2A		•					•				
	TIO-540-V2AD	•						•				
AEIO-540	AEIO-540-D4A5,D4B5,L1B5,L1B5D				•		•					
IGSO-540	IGSO-540-A1A,A1C,A1D,A1E,A1H											•
	IGSO-540-B1A,B1C											•
LTIO-540	LTIO-540-F2BD,J2B,J2BD,N2BD,R2AD			•								
	LTIO-540-U2A							•				
	LTIO-540-V2AD			•								
TIO-541	TIO-541-A1A			•								
	TIO-541-E1A4,E1B4,E1C4	•						•				
TIGO-541	TIGO-541-E1A	•					•					
IO-580 AEIO-580	IO-580-B1A AEIO-580-B1A										•	
IO-720	IO-720-A1A,A1B				•		•					
IO-720	IO-720-B1B,B1BD,C1B			•			•					
IO-720	IO-720-D1B				•		•					
IO-720	IO-720-D1C						•					

Exhaust Mufflers, Tailpipes, Shrouds, Risers, Clamps, and More

Now offering the largest inventory of exhaust parts

We have a full product line of exhaust system components, including AWI, Acorn Welding, and F Atlee Dodge. These leading exhaust manufacturers offer high-quality components for many major aircraft models including Aero Commander, American Champion, Beechcraft, Cessna, Cirrus, Grumman, Mooney, Piper, and Rockwell. Systems and parts for both Continental and Lycoming engines are available.

- FAA-PMA or Transport Canada Part Design Approval
- Largest inventory in the industry!
- One-stop shop for all your needs
- Save $$$ with complete system kits
- Upgrade with performance kits



AWI

Specializes in top quality exhaust systems, engine mounts, carb heat boxes, and more. Their replacement parts are made from stainless steel, aluminum, Inconel, titanium, and magnesium. Advanced aero-technology and precision machining ensure the perfect fit for your aircraft.

Acorn Welding

They design and manufacture turbine engine exhaust, piston aircraft exhaust systems, engine mounts, and support trusses. Other products include assemblies such as induction boxes, seat frame elements, and engine and flight control linkages. Their exhaust products are made from stainless steel or Inconel with design improvements that reduce thermal fatigue and provide longer life.

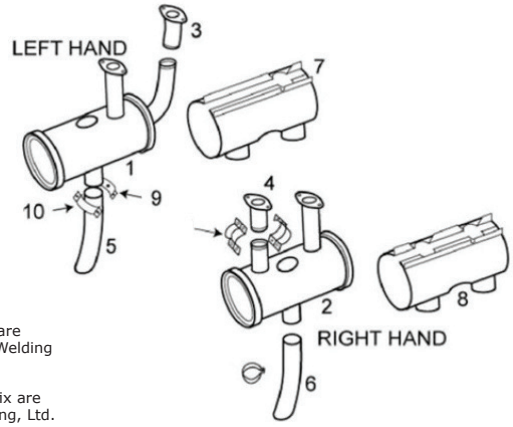
F Atlee Dodge

Well-known for high quality STC modifications and FAA-PMA products for Piper Super Cubs and Cessna aircraft. Their products are heavy duty and high quality for rugged backcountry flying. They have several exhaust system parts, including mufflers, shrouds, tailpipes, and more. They specialize in durable parts for bush airplanes.

150,150A,B,C,D,E,F,G,H,J,K,L,M, A150K,L,M
F150F,G,H,J,K,L,M,FA150K,L
S/N 17001 thru 15079405
A1500001 thru A1500734
F150-0001 thru F15001428
FA1500001 thru FA1500120

Description	Idx	Part Number
Clamp Half, w/Pin	9	A0450338-9 [10]
Clamp Half, w/o Pin	10	A0450338-10 [9]
Clamp Assembly, Riser	N/A	568-06 [16]
Muffler, LH	1	0450400-3AWL [11]
		A0450400-3 [3]
Muffler, RH	2	0450400-26AWL [11]
		A0450400-26 [6] [12]
Riser, Curved, LH	3	0450338-76AWL [11]
		A0450338-69 [3] [9] [13]
Riser, Straight, RH	4	0450338-74AWL [11]
		A0450338-70 [6] [9]
		A0450338-14 [2]
Shroud, LH	7	0450400-200AWL [11]
		0450400-201AWL [7]
		A0450400-200 [5] [14]
		A0450400-201 [8] [15]
Shroud, RH	8	0450400-6AWL [11]
		A0450400-6 [4] [9]
Tailpipe, LH	5	0450338-67AWL
		A0450338-67 [1]
Tailpipe, RH	6	0450338-66AWL
		A0450338-66 [1]

Notes:
[1] Models 150,150A,B,C,D,E,F,G,H,J,K,L,M only
[2] Models 150 S/N 17001 thru 17999,
59001 and on, 150A,B,C,D,E,F,G
[3] Models 150E S/N 15061329 and on, 150F,G,H,J,K,L,M
[4] Models 150E S/N 15061329 and on, 150F,G,H,J,K,L,M,
A150K,L,M, F150F,G,H,J,K,L,M,FA150K,L
[5] Models 150E S/N 15061329 and on, 150F,F150F,
F150G S/N F150-0068 thru F150-0087 only
Continued on next column



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

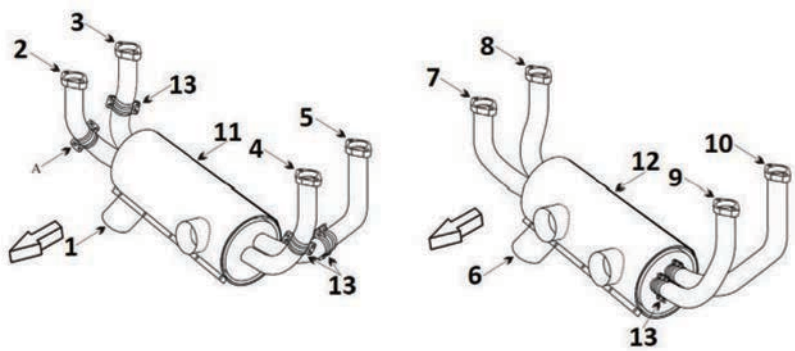
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Notes continued:
[6] Models 150H,J,K,L,M,A150K,L,M only
[7] Models 150H,J,K,L,M,A150K,L,M,F150H,J,K,L,FA150K,L
[8] Models 150H,J,K,L,M,A150K,L,M,F150K,L,M,FA150K,L
[9] May be purchased as part of the Cessna 150 Conversion Kit, which includes 2 mufflers, 2 risers, 2 tailpipes, 2 shrouds, gaskets, riser clamps, tailpipe clamps, and attaching hardware
[10] (1) Required for each tailpipe, (2 per system)
[11] At initial replacement order muffler, riser, and shroud for S/N 17001 thru 15061328, and F150-0001 thru F150-0087
[12] Uses 2.5" Riser P/N A0450400-26 and A0450338-70
[13] 2 Bolt Flange
[14] (2) 2" Ports
[15] (1) 2" Port, (1) 3" Port
[16] Models 150H,J,K,L,M only

152, A152, F152, FA152
S/N 15279406 thru 15286033
A1520735 thru A1521049
F15201429 thru 15201980
FA1520337 thru FA1520425

Description	Idx	Part Number
Clamp	13	A0750161-25 [1] [8]
Muffler Assembly	1	A0454009-5 [3]
		0454009-5AWL
Muffler Assembly, w/Stubs	6	A0454009-6 [2]
Riser Assembly, LH Aft	5	A0454002-10 [3] [6]
		0454002-10AWL
	10	A0454023-1 [2] [7]
Riser Assembly, RH Aft	3	A0454002-2 [3] [6]
		0454002-2AWL
	8	A0454023-3 [2] [7]
Riser Assembly, LH Fwd	4	A0454002-11 [3] [6]
		0454002-11AWL
	9	A0454023-2 [2] [7]
Riser Assembly, RH Fwd	2	A0454002-4 [3] [6]
	2	0454002-4AWL
	7	A0454023-4 [2] [7]
Shroud Assembly	12	0454010-9AWL [5]
	11	0454010-1AWL [4]

Notes:
[1] Model 152 only
[2] Models 152 S/N 15285092 and on,
152A S/N A1520976 and on
[3] Models 152 S/N 15279406 thru 15285091,
A152 S/N A1520735 thru A1520975, F152 S/N
F15201429 thru F15201893,
FA152 S/N FA1520337 thru FA1520377
[4] Models 152 S/N 15279406 thru 15283591, A152
S/N A1520735 thru A1520878,
F152 S/N F15201429 thru F15201673,
FA152 S/N FA1520337 thru FA1520357
Continued on next column



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

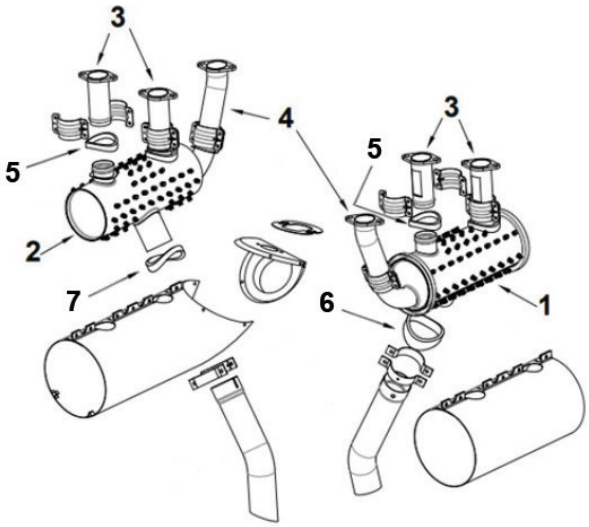
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Notes continued:
[5] Models 152 S/N 15283592 and on, A152 S/N 1520879 and on, F152 S/N 15201674 and on, FA152 S/N 1520378 and on
[6] Use with A0454009-5 Muffler
[7] Use with A0454009-6 Muffler
[8] Must be a stock aircraft. No engine modifications or supplemental type certificates.

170,170A,B
S/N 18000 thru 27169

Description	Idx	Part Number
Muffler, Avcon	N/A	15006AWL 3
Muffler, LH	1	A0550157-9 1
Muffler, RH	2	A0550157-32 1
Riser, Curved	4	A0550157-8 2
Riser, Straight	3	A0450338-14
Seal, Shroud Upper	5	A0550157-29 4
Seal, Shroud Lower RH	6	A0550157-30 4
Seal, Shroud Lower LH	7	A0550157-31 4

Notes:
1 Models 170,170A with Hanlon-Wilson exhaust manifolds installed. 170B S/N 25373 thru 20999 and 25000 thru 27169
2 Model 170B only
3 Applies to STC Avcon Industries Muffler
4 Model 170B S/N 20267 thru 27169 only

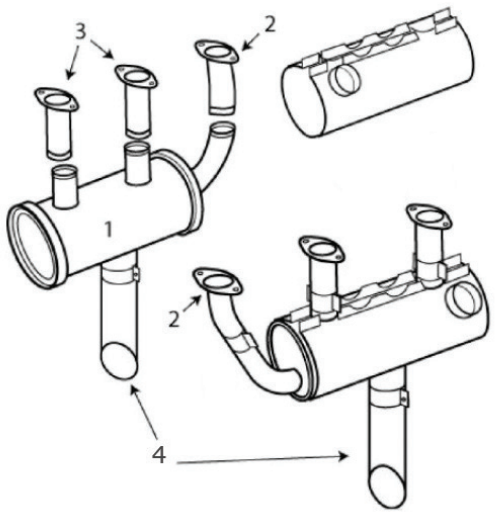


Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



172,172A,B,C,D,E,F,G,H
S/N 28000 thru 47746
17247747 thru 17256512

Description	Idx	Part Number
Muffler Assembly, with O-300	1	A0550176-59 2
Muffler Assembly, Avcon	N/A	15006AWL 3
Riser, Curved	2	A0550176-57 2
Riser, Straight	3	A0450338-14
Tailpipe, 7.5"	4	A0550176-54 1
Tailpipe, Extended	4	A10172-013-2 1
Clamp Assembly, Riser	N/A	568-06 4
Seal, Shroud Upper	N/A	A0550157-29 5
Seal, Shroud Lower RH	N/A	A0550157-30 5
Seal, Shroud Lower LH	N/A	A0550157-31 5

Notes:
1 172B,C,D,E,F,G,H
2 172B S/N 17248732 to 17248734,172C,D,E,F,G,H
3 Applies to STC Avcon Industries muffler
4 All 172B,C,D,E,F,G,H serial numbers, except 172H S/N 17256493
5 172 S/N 28000 thru 46754, and 172A 46755 thru 47746 only

Exhaust Valve Guide Cleaning Reamers

Easily clean your Continental or Lycoming exhaust valves

Larger pilot matches the diameter of the valve stem! No more wobble



172I,K,L,M,N,P,Q,R,RG,S
S/N 17256513 thru 17276654
17280001 thru 17299999
172RG0001 thru 172RG1191
172S8001 thru 172S99999

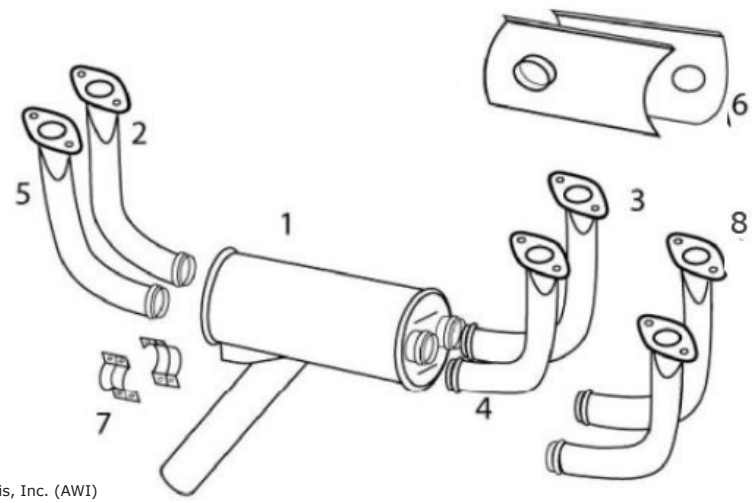
Description	Idx	Part Number
Clamp Kit	7	A0750161-24 7 11 12 13
Muffler Assembly	1	A9954100-9 6 8
		9954100-9AWL 6
		A1754001-23 4
		A1754001-9 1
Muffler Assembly, Avcon		15006AWL 3 9
Riser, LH Aft	3	1754008-1AWL 2
	8	A9954100-5 5 10
		9954100-5AWL 6
Riser, RH Aft	2	9954100-4AWL 6
Riser, LH Fwd	4	1754009-1AWL 2
	5	A9954100-6 5
		9954100-6AWL 6
Riser, RH Fwd	5	9954100-7AWL 6
Tailpipe	N/A	A2454000-15 7 11 12

Notes:
1 Models 172I,K only
2 Models 172I,K,L,M,N,P,Q only
3 Models 172I,K,L,M,N,P only
4 Models 172L,R,S only
5 Models 172Q S/N 17275869 through 17276054, 17276101 through 17276211,172R,S only
6 Models 172R,S only
7 Model 172RG only
8 Inconel Material
9 Applies to STC Avcon Industries muffler
10 Must be a stock aircraft. No engine modifications or engine Supplemental Type Certificates.
11 AD 83-14-04 requires modification of shroud & inspection of muffler and shroud rings
12 AD 85-20-01 one time compliance to inspect for holes to be drilled into muffler core
13 Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware

Lycoming Engine
172I,K,L,M,N,P,Q,R,RG,S
S/N 17256513 thru 17276654
17280001 thru 17299999
172RG0001 thru 172RG1191
172S8001 thru 172S99999

Description	Idx	Part Number
Clamp Set, Riser	7	A0750161-25 7
Muffler, w/Baffles	1	A1754001-9 1
Muffler, w/o Baffles	1	A1754001-25 5 7
		1754001-25AWL 3
Riser, LH Aft	3	A1754008-1 2
		1754008-1AWL 2
Riser, RH Aft	2	A1754007-1 4 7
		9954100-4AWL 4
Riser, LH Fwd	4	A1754009-1 2
		1754009-1AWL 2
Riser, RH Fwd	5	A1754010-1 4 7
		9954100-7AWL 4
Shroud, Muffler	6	A9954100-3 6 7

Notes:
1 172I,K
2 172I,K,L,M,N,P
3 172I,K,L,M,N,P,Q
4 172I,K,L,M,N,P,R,S
5 172I,R,S
6 172M S/N 17261899 and on, 172R S/N 17280001 and on, 172S S/N 172S8001 and on
7 Must be installed on a stock aircraft. No engine modifications or supplemental type certificates.



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

D A M™ Exhaust Lubricant

Prevents joint lockup and heat corrosion

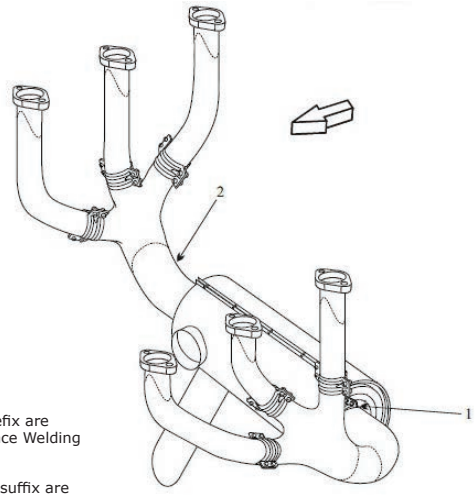
Protects exhaust ball joints, slip joints, clamps, and hardware up to 2400° F



P172D,R172E,F,G,H,J,K,R172K
S/N P17257120 thru P17257189
R1720001 thru R1720620
R1722000 thru R1723454

Description	Idx	Part Number
Clamp Kit	1	A0750161-KIT 2 6 7
Clamp Set, 2 Halves	N/A	A1250860-29 3
Muffler Assembly	2	A1455009-3 3
		1455009-3AWL 3
Muffler Assembly, Float Plane	2	A1455009-3FP 3
Muffler Assembly, Avcon	N/A	15006AWL 1 5

Notes:
1 Models 172I,K,L,M,N,P,Q only
2 Models 172I,K,L,M,N,P only
3 Models 172L,R,S only
4 Models 172Q S/N 17275869 through 17276054, 17276101 through 17276211,172R,S only
5 Models 172R,S only
6 Model 172RG only
7 Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

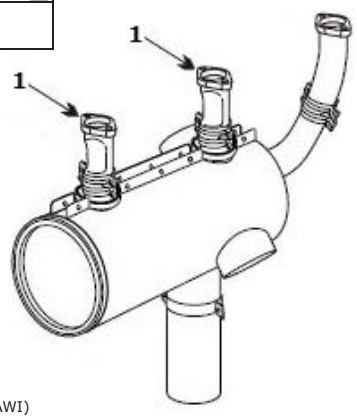
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175,175A,B,C
S/N 55001 thru 56777
17556778 thru 17557119

Description	Idx	Part Number
Riser, Straight	1	A0450338-14
Clamp Assembly, Riser	N/A	568-06 1

Notes:
1 Models 175B,C only

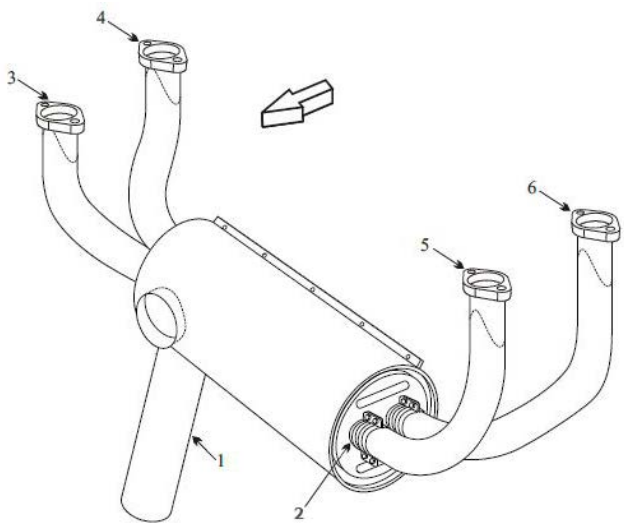


Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

177,177A,B
S/N 17700001 thru 17702752

Description	Idx	Part Number
Muffler	1	A1754001-25 1 3
		1754001-25AWL
Riser, Clamp Set	2	A0750161-25 1
Riser, LH Aft	6	A1754008-1 1
		1754008-1AWL 1
		A9954100-5 2 3
		9954100-5AWL 2
Riser, RH Aft	4	A1754007-1 3
		9954100-4AWL
Riser, LH Fwd	5	A1754009-1 1
		1754009-1AWL 1
		A9954100-6 2 3
		9954100-6AWL 2 3
Riser, RH Fwd	3	A1754010-1 3
		9954100-7AWL

Notes:
1 Models 172I,K,L,M,N,P,Q only
2 Models 172I,K,L,M,N,P only
3 Models 172L,R,S only
4 Models 172Q S/N 17275869 through 17276054, 17276101 through 17276211, 172R,S



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

180
S/N 3000 thru 32150

Description	Idx	Part Number	
Collector Assembly	5	0750238-20AWL	3
	N/A	0750130-48AWL	2
Muffler	2	A0750290-3	1
	1	0750290-3AWL	1
	2	C-1851D-1	5
		C-1851D-3	6
Stack Assembly		A0750130-6	1
Riser, Center	6	0750238-5AWL	4
Shroud, Muffler	3	4236	
Tailpipe, LH		0750290-25AWL	1
Tailpipe, RH		0750290-26AWL	1

Notes:
1 Model 180 only
2 Models 180,180A,B,C,D,E,F,G,H,J only
3 This stack is 15" tall and has a center slip riser 0750238-5AWL. Where the exhaust is installed VIA SA00780NY upgrade STC the entire kit must be initially replaced. On aircraft S/N 18256685 thru 18257608 both exhaust stacks must be changed at initial replacement as there is a change to increase the distance between the muffler shroud and the intake duct (see Cessna SL67-37). This stack is designed for use on the O-470 engines only.
4 This exhaust stack center slip riser is designed to fit the exhaust stacks:
0750238-20AWL / -210AWL/ -47AWL.
It will also work with other Cessna 0750238-XX series exhaust stacks.
5 Muffler w/Cones
6 Muffler w/o Cones

180,180A,B,C,D,E,F, 182,182A,B,C,D
S/N 32151 thru 18051312
33000 thru 18253598

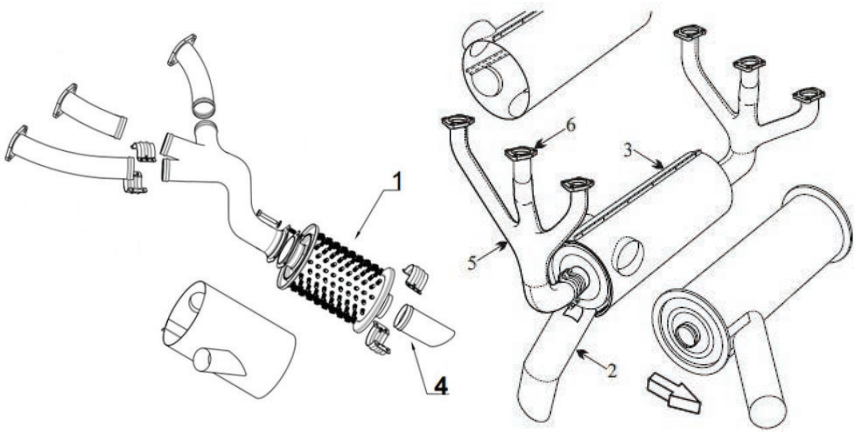
Description	Idx	Part Number	
Collector Assembly	N/A	0750130-48AWL	
	N/A	A0750130-6	
Muffler	N/A	A0750130-12	3 6
	N/A	0750130-12AWL	3
	N/A	A0750130-44	4 7
	N/A	0750130-44AWL	4 7
	2	C-1851D-1	9
	2	C-1851D-3	10
Stack Assembly		A0750130-6	11
Shroud, Muffler		4236	
Muffler, 7.5" Tailpipe	N/A	A0750130-9	1 5
	N/A	0750130-9AWL	1 5
Riser, LH Aft/RH Fwd	N/A	0750130-5AWL	2
Riser, RH Aft/LH Fwd	N/A	0750130-3AWL	2
Riser, Center	3	0750238-5AWL	8
	N/A	0750130-4AWL	2

Notes:
1 Models 180 S/N 32151 and on,
180A S/N 32662 thru 50105,182,
182A S/N 33843 thru 34753
2 Models 180 S/N 32151 and on,180A S/N 32662 thru 32999, 50001 and on,
180B,C,D,E,F,182,182A S/N 33843 thru 34999, 51001 and on, 182B,C,D
3 Models 180A S/N 50106 and on,
182A S/N 51557 and on
4 Models 180B S/N 50356 and on, 180C,D,E,F,182, 182A,B,C,D
5 Shroud ring close to the tailpipe
6 Shroud ring opposite side away from tailpipe
7 4 fins and center ring
8 Fits the 0750238-20AWL/-210AWL/-47AWL exhaust stacks. Also works with other Cessna 0750238 series exhaust stacks.
9 Muffler w/Cones
10 Muffler w/o Cones
11 Model 180 S/N 32151 and on
12 Model 182 S/N 33000 thru 33842 only

180G,H,J,K, 182E,F,G,H,J,K,L,M,N,P,Q,R
S/N 18051313 thru 18053203
18253599 thru 18268586

Description	Idx	Part Number	
Collector Assembly	5	0750238-20AWL	9
	5	0750238-210AWL	3 11
	N/A	0750130-48AWL	1
	N/A	A0750130-6	4
Muffler	N/A	0750130-54AWL	5
	N/A	A0750130-60	6
	N/A	0750130-60AWL	6
	2	C-1851D-1	13
	2	C-1851D-3	14
Muffler Assembly		A0750130-60	8
Shroud, Muffler		4236	
Muffler, Float Plane	1	A0750161-89FP	2
Riser, Center	3	0750238-5AWL	12
Shroud	6	A0750161-87	2
	6	0750161-87AWL	2 15
	6	0750161-40AWL	7 10

Notes:
1 Models 180G,H,J,182E,F
2 Models 180G,H,J,K,182N S/N 18260446 and on, 182P,Q,R only
3 Models 180G,H,182G,H,J, 182G,H,J,K,L,M,N,P,Q,R
4 Models 182E,F only
5 Model 182E only
6 Model 182F only
7 Models 182G,H,182J,K,L,M,N S/N 18260056 thru 18260445.182J S/N 18255685 thru 18257608 also eligible if equipped with exhaust stack 0750238-20AWL
8 Model 182F S/N 18254424 thru 18255058 only
9 This exhaust stack is 15" Tall and has a center slip riser PN 0750238-5AWL. Where the exhaust is installed via SA00780NY upgrade STC the entire kit must be initially replaced. On aircraft SN 18256685 thru 18257608 both exhaust stacks must be changed at initial replacement as there is a change to increase the distance between the muffler shroud and the intake duct (see Cessna SL67-37). Also, this exhaust stack is designed for use on the O-470 Series engines only.
10 Acceptable to mirror exhaust exit hole on DWG 005-260 on aircraft modified for skydive operations requiring reversed exhaust
11 This stack is 15.5" tall with a center slip riser P/N 0750238-5AWL. On aircraft S/N 18256685 thru 18257608, both exhaust stacks must be changed to 0750238-20AWL or 10182-049-1 shroud must be used or there will be contact between the muffler shroud and the intake duct (Refer to Cessna SL67-37). On aircraft 18051313-18051551 and 18255059-18256329 you will either need to procure 0750225-1/-2 clamps to mount 0750607-4/-5 carb heat shrouds or install SK182-78. This exhaust stack is designed for use on the O-470 series engines only.
12 Designed to fit the 0750238-20AWL/-210AWL/-47AWL exhaust stacks. It will also work with other Cessna 0750238 series exhaust stacks.
13 Muffler w/Cones
14 Muffler w/o Cones
15 Acceptable to mirror exhaust exit hole on DWG 005-259 on aircraft modified for skydive operations requiring reversed exhaust



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P/Ns with "AWL" suffix are manufactured by Acorn Welding
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Tools

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*See **Tools and Maintenance** section of the catalog*

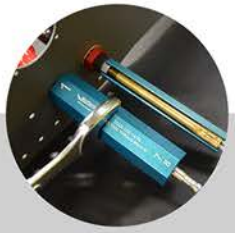
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Vacuum Pump Wrench



P/N TOOL133
Shorten installation time and ensure the surrounding nuts are properly tightened to prevent any oil from damaging your pump. Attach the tool to your ratchet or torque wrench with a 1/4-inch drive.

Push-Pull Control Wrenches



P/N TOOL132
These tools provide a larger area for your wrench to loosen or tighten nuts behind the panel, without interfering with the surrounding cables. Our full tool set fits six different nut sizes.

Adjustable Elevator Neutral Rigging Tool



P/N TOOL126
This **one** tool can replace 17 different sized rigging tools required to cover Cessnas. Our universal tool is adjustable from 0.4" to 2.5" with six different pin sizes to fit your needs. This tool can be used for other aircraft.

Valve Guide Cleaning Reamers



P/N VGR-CN-KT
P/N VGR-LN-KT
Our reamers can be used on Continental and Lycoming engines. They have a larger pilot to match the diameter of the valve stem, so you won't have wobble like standard reamers.

Tire Balancer (Propeller Balancer)



P/N TOOL129
Precisely determine where to install weights while bearings and seals are still installed. This tool is more accurate than axle style balancers, and costs less! It can also be used for propeller balancing with our extended tool options.

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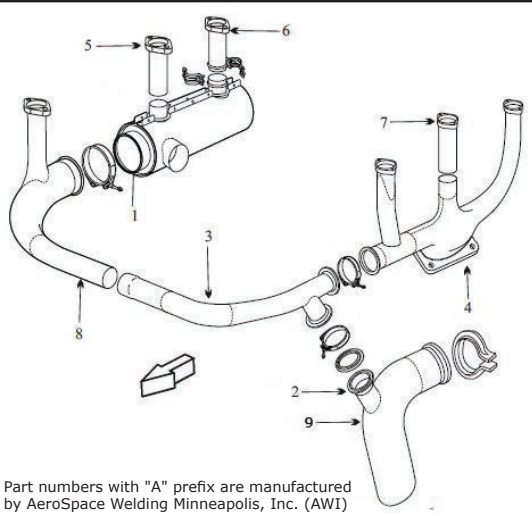
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*See **Custom Products and Services** section of the catalog*

T182,TR182
S/N 18267716 thru 18268541
R18200001 thru R1820241

Description	Idx	Part Number
Crossover Assembly, LH	3	2254008-4AWL [1]
Crossover Assembly, RH	8	2254013-1AWL
Heat Exchange	4	2254012-2AWL [1] [2]
Riser	2	2254015-1AWL
Riser Assembly	2	2254009-1AWL
Riser, LH Center	7	2254005-1AWL
Riser, RH Center	5	2254005-3AWL
Riser, RH Aft	6	2254005-5AWL
Tailpipe	9	2254010-1AWL
Tailpipe, Adapter	1	2254009-1AWL

Notes:
[1] Model TR182 only
[2] Service Letter SE80-9 Must be complied with or exhaust stack may fail. (Installation of SK182-62A)



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

FR182,R182
S/N FR18200001 thru FR18200070

Description	Idx	Part Number
Muffler	N/A	A1250250-5 [3]
	N/A	1250250-5AWL [1]
	N/A	A1250251-13 [3]
Riser, Center	N/A	2254000-1AWL [4]
Stack, LH	N/A	2254003-3AWL [4]
Stack, RH	N/A	2254003-4AWL [4]
Tailpipe, LH	N/A	A2254003-17 [2]
Tailpipe, RH	N/A	A2254003-18 [2]

Notes:
[1] Model FR182 only
[2] Models FR182,R182 only
[3] Model R182 S/N R18200001 thru R18201798
[4] Model R182 S/N R18200002 thru R18202041

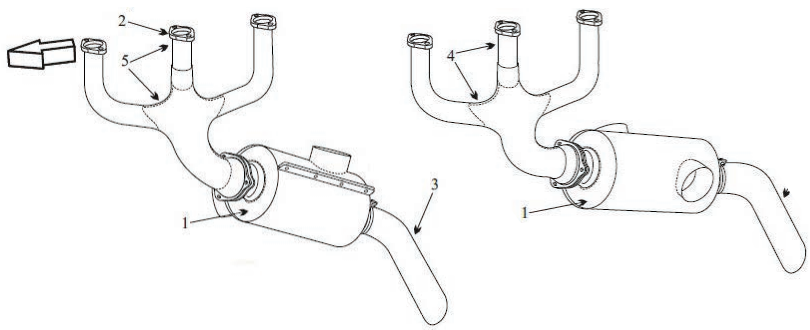
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Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

182S,T
S/N 18280001 thru 182999999

Description	Idx	Part Number
Muffler	1	A1254017-19 [1]
Riser, Center	2	0750238-5AWL [1] [3]
Stack, LH	5	9954200-5AWL [1]
Stack, RH	4	9954200-6AWL [1]
Tailpipe, LH	3	A9954200-11 [2]
		9954200-11AWL [2]
Tailpipe, RH	6	A9954200-12 [2]

Notes:
[1] 182S,T only
[2] 182S S/N 18280287 thru 1828094, 182T
[3] Designed to fit the exhaust stacks: 0750238-20AWL/-210AWL/-47AWL. It will also work with other Cessna 0750238 series exhaust stacks.



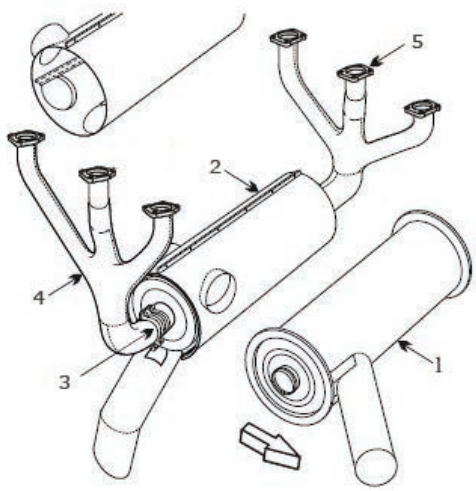
Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

185,185A,B,C,D,E,A185E,F
S/N 185-0001 thru 185-1599
18501600 thru 18504448

Description	Idx	Part Number
Clamp Kit	3	A0750161-KIT [2] [9] [10] [7]
Clamp, Riser	N/A	A0750161-25 [2] [11]
Collector Assembly	4	0750238-210AWL [3] [12]
Muffler	N/A	A0750161-28 [1]
Muffler, Float Plane	1	A0750161-89FP [5]
Riser Assembly	5	0750238-5AWL [1] [17]
Shroud, Muffler		4236
Shroud, Muffler	2	A0750161-87 [6] [13]
		0750161-87AWL [6] [13]
Collector, Slip Center, 15"	4	A0750238-20 [4] [12]
Collector, Slip Center, 15.5", Float Plane	4	A0750238-47 [8]

Notes:
[1] Models 185,185A,B,C,D,E, A185E,F only
[2] Models 185,185A,B,C,D,E only
[3] Models 185,185A,B,C,D,E, A185E only
[4] Models A185F S/N 18502311 thru 18504394 only
[5] Models A185E,F only
[6] Model A185F S/N 1854418 and on only
[7] Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware
[8] AD 85-20-01 one-time compliance to inspect for holes to drill into muffler core
[9] Must be a stock aircraft. No engine modifications or STCs.
[10] New Stack does not have center riser clamps
[11] Shroud ports are approximately 180° from each other
[12] Designed for use on the O-470 Series engines only
[13] Designed to fit the exhaust stacks: 0750238-20AWL/-210AWL/-47AWL. It will also work with other Cessna 0750238-XX series exhaust stacks



P/Ns with "A" prefix are manufactured by AeroSpace Welding (AWI)
P/Ns with "AWL" suffix are manufactured by Acorn Welding
P/Ns with "AD" prefix or (4) digits are manufactured by F Atlee Dodge

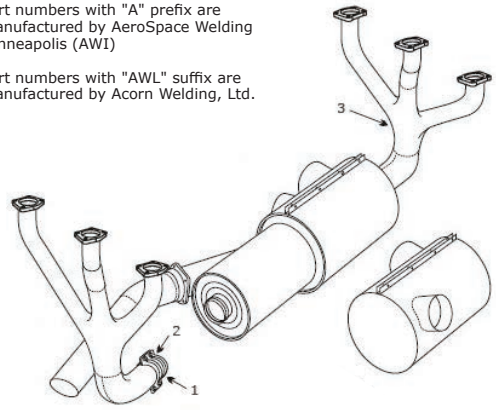
188,188A,B
S/N 188-0001 thru 18802348

Description	Idx	Part Number
Clamp Kit	1	A0750161-KIT 2 3 6
Collector Assembly	3	0750238-210AWL 1 4 5

Notes:
1 Models 188,188A,188B S/N 18800833 thru 1880145 only
2 AD 83-14-04 requires shroud modification, & muffler & shroud rings inspection
3 AD 85-20-01 one-time compliance inspects for holes to drill into muffler core
4 Must be a stock aircraft. No engine modifications or STCs
5 On aircraft S/N 18256685 thru 18257608 both exhaust stacks must change to 0750238-20AWL or 10182-049-1 shroud must be used, or there will be contact between the muffler shroud and intake duct (see Cessna SL67-37). On aircraft S/N 18051313 thru 18051551 and 18255059 thru 18256329 you will need to procure 0750225-1/-2 clamps to mount 0750607-4/-5 carb heat shrouds or install SK182-78. This stack is designed for use on the O-470 series engines only.
6 Includes (1) A0750161-22 clamp w/o pin, (1) A0750161-24 clamp w/ pin, and assorted hardware

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis (AWI)

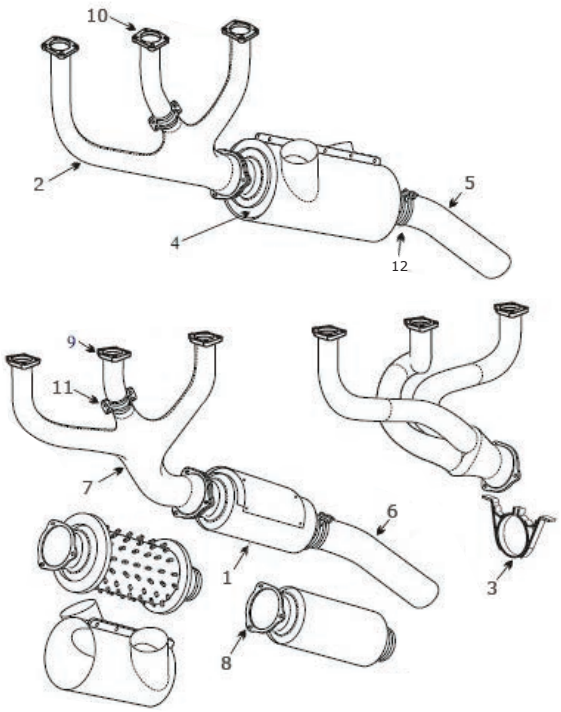
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



210-5 (205), 210-5A (205A)
S/N 205-001 thru 205-0577

Description	Idx	Part Number
Clamp, Tailpipe	12	1250259-1AWL
Collector Assembly, LH, High Performance	2	A1250263-2HP 2
Collector Assembly, RH, High Performance	7	A1250264-2HP 2
Muffler, LH	4	A1250250-5 1
Muffler, RH	1	1250251-13AWL
		A1250251-13 1
Muffler Shroud, LH		AD1250250-6
Shroud		AD1250251-17
Tailpipe Support Assy		AD1250258-1
Tailpipe, LH	5	1250256-7AWL
		AD1250256-7
Tailpipe, RH	6	1250257-7AWL
		AD1250264-6

Notes:
1 Model 210-5 (205) only
2 This is a modification part (STC SA02809CH)



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding

Part numbers with "AD" prefix are manufactured by F Atlee Dodge

206,P206,P206A,B,C,D,E, U206, U206A,B,C,D,E,F,G
S/N 206-0001 thru 206-0275, P206-0002 thru P20600647, T20608001 thru T206999999, U206-0276 thru U20607020

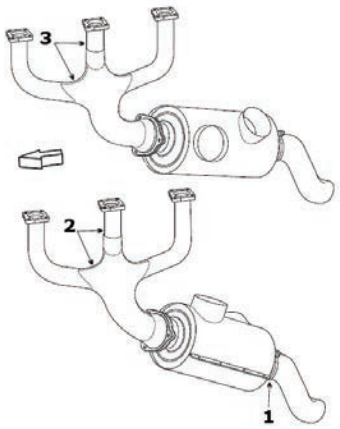
Description	Idx	Part Number
Clamp Kit	11	A0750161-KIT 4 11 12 16
Clamp, Riser	11	A0750161-25 1 14
Clamp, Tailpipe	3	1250259-1AWL 5
Collector Assy, LH	2	A1250263-2M 9 13
		1250263-2AWL 2
Collector Assy, RH	7	A1250264-2M 9 13
		1250264-2AWL 2 15
Collector Assy, LH, High Performance	2	A1250263-2HP 2 13
Collector Assy, RH, High Performance	7	A1250264-2HP 2 13
Muffler, LH	4	A1250250-5 1
		1250250-5AWL 2
Muffler, RH	1	1250251-13AWL 6
		A1250251-13 8
Muffler, 650-92 Alternative	8	A1250251-16 10
		1250251-16AWL 7
Muffler Shroud, LH		AD1250250-6
Shroud		AD1250251-17 17
Riser Assembly, LH	10	1254011-1AWL 2
Riser Assembly, RH	9	1250251-9AWL 2
Tailpipe, LH	5	A1250256-7 3
		1250256-7AWL 3
		AD1250256-7
		AD1242013-1 (sea)
Tailpipe, RH	6	AD1242013-2 (sea)
		AD1250264-6
		A1250264-6 3
		1250257-7AWL 3
Tailpipe Hanger Assembly		AD1250255-7 19
Tailpipe Support Assembly		AD1250258-1 20
Exhaust Deflector Assembly		3238 18

Notes:
1 206, U206,U206A,B,C,D,E,F,G only
2 206, P206,P206A,B,C,D,E, U206,U206A,B,C,D,E,F,G only
3 206,P206,U206 only
4 206,U206F,G only
5 206,U206,U206A,B,C,D,E S/N U206-1445 thru U206-1669, P206,P206A,B,C,D,E
6 206,U206F,G only
7 U206 only
8 U206F S/N U20602200 thru U20603020
9 U206F,G only
10 U206F S/N U20603021 thru U20603521, U206G S/N U20603522 thru U20605919
11 AD 83-14-04 requires shroud modification and muffler and shroud ring inspection
12 AD 85-20-01 one-time compliance inspects for holes to be drilled into muffler core
13 This part is modified (STC SA02809CH)
14 Must be stock aircraft. No engine mods or STCs
15 Always buy with Riser 1250251-9AWL
16 Includes (1) A0750161-22 clamp w/o pin, (1) A0750161-24 clamp w/ pin, and assorted hardware
17 Models U206, U206A,B,C,D,E,F only
18 Models 206, U206, P206, P206B-E, U206A-G only
19 Models U206E,F, only (2 per aircraft)
20 Models 206, U206A,B,C,D,E, P206A,B,C,D,E only (4 per aircraft)

206H
S/N 20608001 thru 206999999

Description	Idx	Part Number
Clamp, Riser	N/A	A0750161-25 [1]
Collector Assembly, LH	2	9954300-5AWL
Collector Assembly, RH	3	9954300-6AWL
Muffler	1	9954300-9AWL

Notes:
[1] Must be a stock aircraft. No engine mods or STCs



Part numbers with "A" prefix are manufactured by AWI
Part numbers with "AWL" suffix are manufactured by Acorn Welding

T206H
S/N T20608001 thru T206999999

Description	Idx	Part Number
Clamp Kit	N/A	A0750161-KIT [1]
Elbow, Cylinder #1	N/A	40B22190AWL
	N/A	40B23387AWL [2]
Stack, Cylinder#2	N/A	40B22318AWL
	N/A	40B23386AWL [4]
Stack, Cylinder#3	N/A	40B22621AWL
	N/A	40B23388AWL [7]
Stack, Cylinder#4	N/A	40B22379AWL
	N/A	40B23385AWL [5]
Stack, Cylinder #5	N/A	40B22267AWL
Stack, Cylinder#6	N/A	40B22380AWL
	N/A	40B23384AWL [6]
Stub, Cylinder#4	N/A	40G22384AWL
Stub, Cylinder#5	N/A	40B22193AWL
	N/A	40B23389AWL [3]

Notes:
[1] AD 83-14-04 requires modification of shroud and inspection of muffler and shroud rings. AD 85-20-01 one time compliance to inspect for holes to be drilled into muffler core. Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware
[2] Identical to 40B22190AWL except for addition of welded threaded Probe Bung for threaded type EGT system required on install of certain types of Avionics
[3] Identical to 40B22193AWL except for addition of welded threaded Probe Bung for threaded type EGT system required on install of certain types of Avionics
[4] Identical to 40B22318AWL except for addition of welded threaded Probe Bung for threaded type EGT system required on install of certain types of Avionics
[5] Identical to 40B22379AWL except for addition of welded threaded Probe Bung for threaded type EGT system required on install of certain types of Avionics
[6] Identical to 40B22380AWL except for addition of welded threaded Probe Bung for threaded type EGT system required on install of certain types of Avionics
[7] Identical to 40B22621AWL except for addition of welded threaded Probe Bung for threaded type EGT system required on install of certain types of Avionics

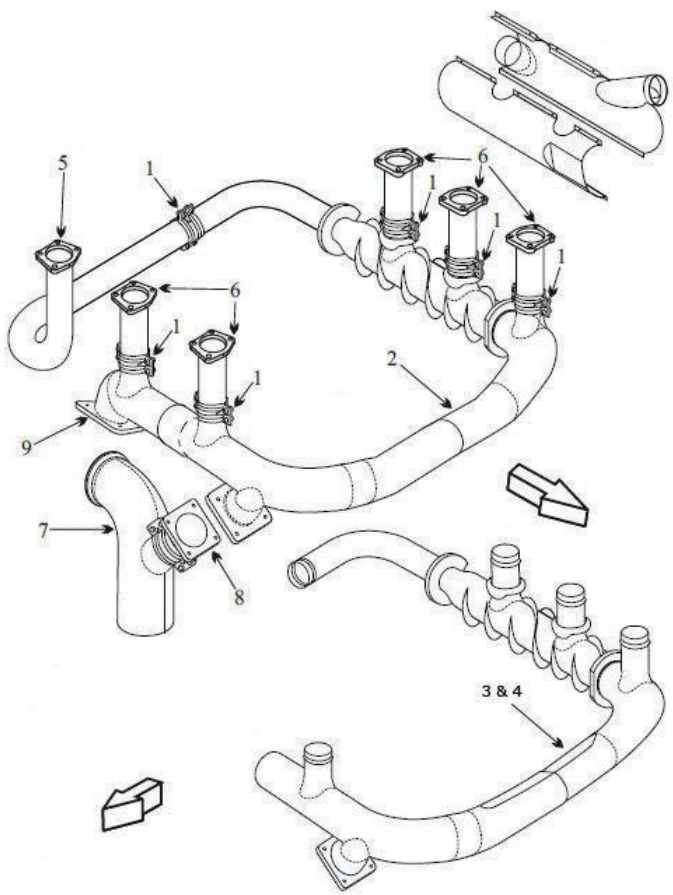
Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

TP206A,B,C,D,E,TU206A,B,C,D,E,F,G
S/N P2060191 thru P20600647
U2060487 thru U20607020
20700001 thru 20700788
T2100001 thru T2100454
21059200 thru 21065009

Description	Idx	Part Number
Clamp	1	A1250860-29 [1]
Crossover	5	A1250860-121
Exhaust, Left Front	2	A1250860-157 [6]
		A1250860-157M [5] [6]
Exhaust, Right Front	N/A	A1250860-120
Riser	6	A1250860-100 [3]
Shroud, Inboard	N/A	A1250860-64
Shroud, Outboard	N/A	A1250860-65
Tailpipe	7	A1250860-164 [4]
Tailpipe, Adapter	8	A1250860-168
Turbo Bracket, Front Lower	4	A1250818-201
Turbo Bracket, Rear Lower	3	A1250818-200 [2]
Turbo Inlet	9	A1250860-122
		A1250860-122M
Turbo Inlet, Elbow	N/A	A1250860-122-1M

Notes:
[1] TU206A,B,C,D,E,F only
[2] TP206A,B,C,D,E,TU206A,B,C,D,E,F,TU206F S/N U2060220 and on, TU206G only
[3] TP206A,B,C,D,E, TU206F,G only
[4] TP206D S/N P206-0575 thru P206-0603, TP206E, TU206D S/N U206-1323 and on, TU206E,F
[5] With STC SA5010NM installed only
[6] When installed, this P/N relieves the owner/operator of AD71-09-07 R1, paragraph (a) repetitive 50 hours inspect and pressure test heat exchanger

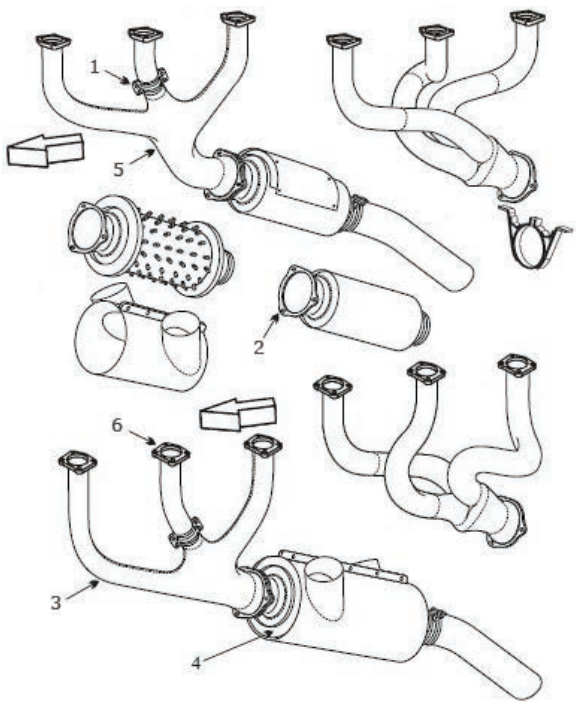


Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

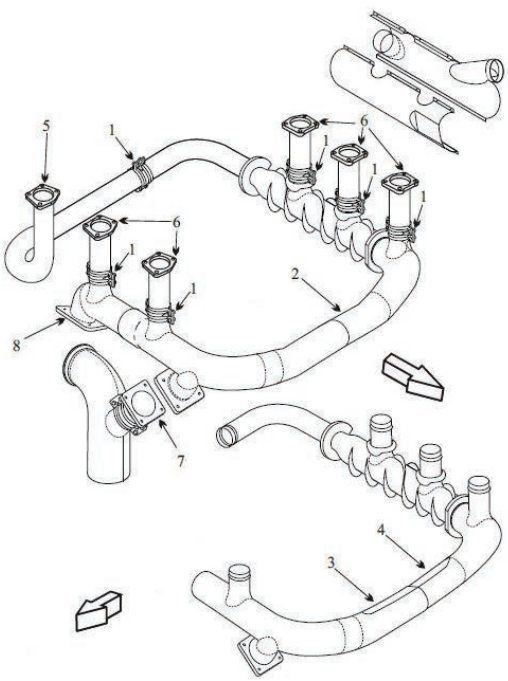
207,207A
S/N 20700001 thru 20700788

Description	Idx	Part Number
Clamp Kit	1	A0750161-KIT 1 2 6
Clamp, Riser	1	A0750161-25 4
Clamp, Tailpipe		AD1250259-1
Collector Assembly, LH with Center Riser		A1250263-2M 7
Collector Assembly, LH	3	1250263-2AWL
Collector Assembly, RH	5	1250264-2AWL 5
Collector Assy, LH, High Performance	3	A1250263-2HP 3
Collector Assy, RH, High Performance	5	A1250264-2HP 3
Muffler	4	A1250250-5
		1250250-5AWL
Muffler, 650-92 Alternative	2	A1250251-16
		1250251-16AWL
Muffler Shroud, LH		AD1250250-6
Tailpipe, LH		AD1254004-3
Tailpipe, RH		AD1254004-4
Tailpipe Support Assy (2 per aircraft)		AD1254003-1 (LH)
Tailpipe Support Assy (2 per aircraft)		AD1254003-2 (RH)
Riser Assembly, LH	6	1254011-1AWL
Riser Assembly, RH	N/A	1250251-9AWL

1 AD 83-14-04 requires shroud modification and inspection of muffler and shroud rings
2 AD 85-20-01 one-time compliance inspects for holes to be drilled into muffler core
3 This is a modification part (STC SA02809CH)
4 Must be a stock aircraft. No engine mods or STCs.
5 Always buy with riser 1250251-9AWL
6 Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware
7 Model 207 S/N 20700001 thru 20700362



Part numbers with "A" prefix are manufactured by AeroSpace Welding (AWI)
Part numbers with "AWL" suffix are manufactured by Acorn Welding
Part numbers with "AD" prefix are manufactured by F Atlee Dodge



T207,T207A
S/N 20700001 thru 20700788

Description	Idx	Part Number
Clamp	1	A1250860-29
Clamp, Tailpipe		AD1250259-1
Crossover	5	A1250860-121
Heat Exchanger	N/A	A1250250-5 1
Exhaust, Left Front	2	A1250860-157 3
		A1250860-157M 2 3
Muffler, 650-92 Alternative	N/A	A1250251-16 1
Riser	6	A1250860-100
Shroud, Inboard	N/A	A1250860-64
Shroud, Outboard	N/A	A1250860-65
Tailpipe, LH		AD1254004-3
Tailpipe, RH		AD1254004-4
Tailpipe, Adapter	7	A1250860-168
Tailpipe Support Assy (2 per aircraft)		AD1254003-1 (LH)
Tailpipe Support Assy (2 per aircraft)		AD1254003-2 (RH)
Turbo Bracket, Front Lower	4	A1250818-201
Turbo Bracket, Rear Lower	3	A1250818-200
Turbo Inlet	8	A1250860-122
		A1250860-122M
Turbo Inlet, Elbow	N/A	A1250860-122-1M

1 Models T207,T207A S/N 20700363 thru 20700654
2 With STC SA5012 installed
3 When installed, this P/N relieves the owner/operator of AD71-09-07 R1, Paragraph (a) repetitive 50 hours inspect and pressure test heat exchanger

Part numbers with "A" prefix are manufactured by AeroSpace Welding (AWI)
Part numbers with "AWL" suffix are manufactured by Acorn Welding
Part numbers with "AD" prefix are manufactured by F Atlee Dodge

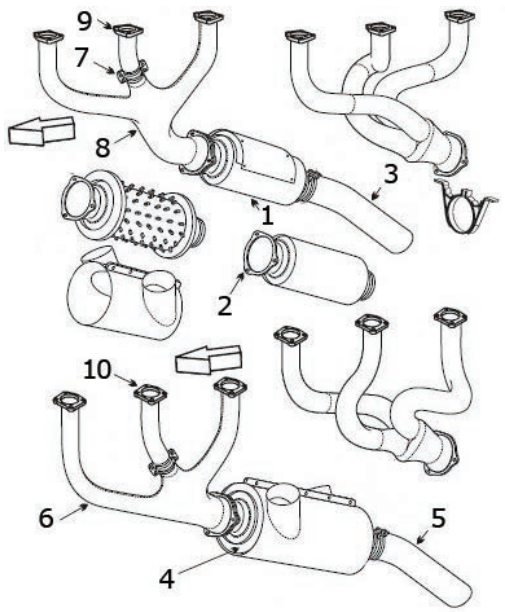
210,210A,B,C,D,E,F,G,H,J,K,L,M,N,R S/N 57001 thru 57575, 21057576 thru 21065009		
Description	**Idx**	**Part Number**
Clamp Kit	7	A0750161-KIT 9 10 11 15
Clamp, Riser	7	A0750161-25 13
Clamp, Tailpipe	N/A	1250259-1AWL 7
Collector Assembly, LH w/ Center Riser	6	A1250263-2M 19
Collector Assembly, LH	6	A1250263-2M 9 12
		1250263-2AWL 4
Collector Assembly, RH	8	A1250264-2M 9 12
		1250264-2AWL 4 14
Collector Assy, LH, High Perf.	6	A1250263-2HP 6 12
Collector Assy, RH, High Perf.	8	A1250264-2HP 6 12
Muffler, LH	4	A1250250-5 6
		1250250-5AWL 3
		1250200-3AWL 1
Muffler, RH	1	A1250251-13 5
		1250201-17AWL 1
Muffler, 650-92 Alternative	2	A1250251-16 2
		1250251-16AWL 3
Muffler Shroud, LH		AD1250250-6 17
Riser Assembly,LH	10	1254011-1AWL 4
Riser Assembly, RH	9	1250251-9AWL 4
Tailpipe Hanger Assembly		AD1250255-7 18
Tailpipe Support Assembly		AD1250258-1
Tailpipe, LH	5	A1250256-7 8
		1250256-7AWL 8
		AD1250256-7 16
Tailpipe, RH	3	AD1250264-6 16
		A1250264-6 8
		1250257-7AWL 8

Notes:

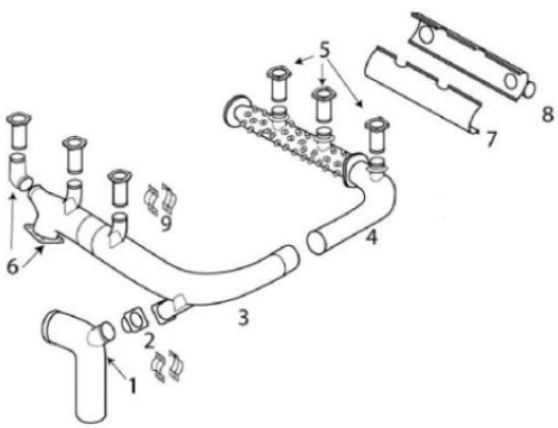
1 210, 210A only
2 210,210A,C,D,E,F,G,H,J,K,L,M,N,R only
3 210A,B,C,D,E,F,G,H,J,K,L,M,N only
4 210A,B,C,D,E,F,G,H,J,K,L,M,N,R only
5 210B only
6 210B,C,D,E,F,G,H,J,K,L,M,N,R only
7 210B S/N 21058000 and on, 210C,D,E,F,G,H,J,K S/N 21059200 thru 21059351
8 210B S/N 21058000 and on, 210C,D,E,F,G,H,J,K,L,M,N,R
9 Models 210K,L,M,N,R only
10 AD 83-14-04 requires shroud modification and inspection of muffler and shroud rings

Continued on next column

11 AD 85-20-01 one time compliance to inspect for holes to be drilled into muffler core
12 This is a modification part (STC SA02809CH)
13 Must be a stock aircraft. No engine mods or STCs.
14 Always buy with riser 1250251-9AWL
15 Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware
16 Models 210C,D,E,F,G,H,J,K,L,M,N,R only
17 Models 210K,L,M,N only
18 Models 210K,L,M,N,R only (2 per aircraft)
19 Models 210K,L,M,N,R only



Part numbers with "A" prefix are manufactured by AeroSpace Welding (AWI)
Part numbers with "AWL" suffix are manufactured by Acorn Welding
Part numbers with "AD" prefix are manufactured by F Atlee Dodge



Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AD" prefix are manufactured by F Atlee Dodge

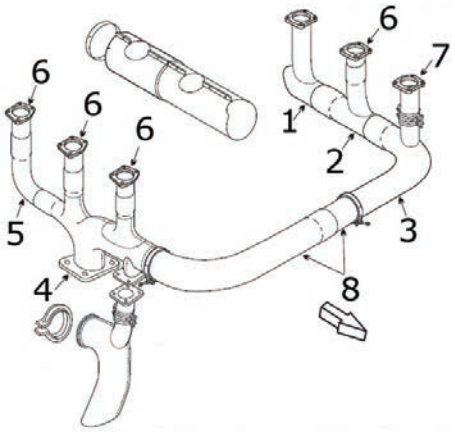
T210F,G,H,J,K,L,M,N,R S/N T2100001 thru T2100454 21059200 thru 21065009		
Description	**Idx**	**Part Number**
Clamp	9	A1250860-29 1
Clamp, Tailpipe		AD1250259-1
Crossover	N/A	A1250860-121
Exhaust, Left Front	4	A1250860-157 5
		A1250860-157M 4 5
Exhaust, Right Front	3	A1250860-120
Muffler, 650-92 Alternative	N/A	A1250251-16 2
Riser	5	A1250860-100 3
Shroud, Inboard	7	A1250860-64
Shroud, Outboard	8	A1250860-65
Tailpipe	1	A1250860-164
Tailpipe, Adapter	2	A1250860-168 1
Turbo Bracket, Front Lower	N/A	A1250818-201 1
Turbo Bracket, Rear Lower	N/A	A1250818-200 1
Turbo Inlet	6	A1250860-122
		A1250860-122M
Turbo Inlet, Elbow	6	A1250860-122-1M

Notes:

1 Models T210G,H,J,K,L,M,N,R only
2 Models T210K,L,M,N,R only
3 Models T210N only
4 With STCSA5012 installed
5 When installed, this P/N relieves the owner/operator of AD71-09-07 R1, Paragraph (a) repetitive 50 hours inspect and pressure test heat exchanger

P210N
S/N P21000001 thru P21000834

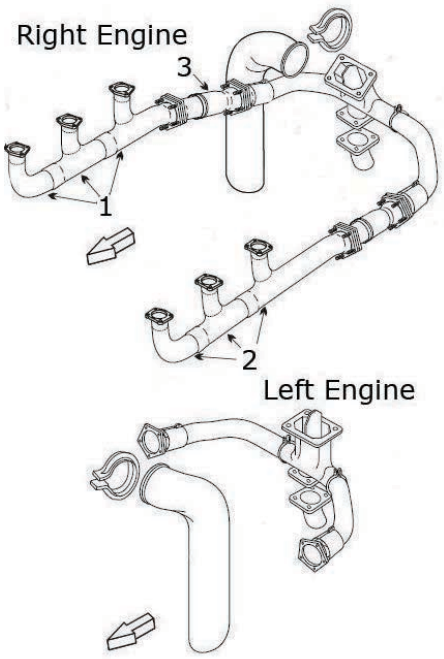
Description	Idx	Part Number
Collector Assembly	4	2154000-55AWL
Crossover Assembly	8	2154000-68AWL
Elbow	5	2154000-64AWL
Muffler Shroud, LH		AD1250250-6
Riser, Inconel	7	A1250860-117 1250860-117AWL
	6	2154002-3AWL
Riser, Left Center	2	2154000-47AWL
Riser, Left Front	3	2154000-43AWL
Riser, Left Rear	1	2154000-50AWL
Riser, Stainless Steel	7	A1250860-100



"A" prefix are manufactured by AWI
"AD" prefix are manufactured by F Atlee
"AWL" suffix are manufactured by Acorn

310P,Q
S/N 310P0001 thru 310P0240
310Q0001 thru 310Q1160

Description	Idx	Part Number
Slip Joint	3	A9910296-7
Stack Assy, LH	2	A9910295-13
Stack Assy, LH, Inconel	2	A9910295-13I
Stack Assy, RH	1	A9910295-14
Stack Assy, RH, Inconel	1	A9910295-14I

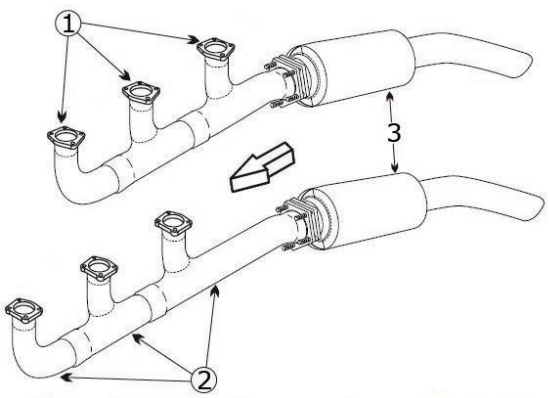


Manufactured by AeroSpace
Welding Minneapolis, Inc. (AWI)

310R,T310R
S/N 310R0001 thru 310R2140

Description	Idx	Part Number
Muffler	3	A9910297-1 [1] 9910297-1AWL [1]
Slip Joint	N/A	A9910296-7
Stack Assy, LH	2	A9910295-13
Stack Assy, LH Inconel	2	A9910295-13I
Stack Assy, RH	1	A9910295-14
Stack Assy, RH Inconel	1	A9910295-14I

Notes:
[1] Supersedes P/N 0852597-1



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

336
S/N 3360001 thru 3360195, 633, 636

Description	Idx	Part Number
Clamp, Riser	4	A0750161-25 3
Clamp Kit	2/3	A0750161-KIT 1 2 4
Muffler	1	A1455009-3

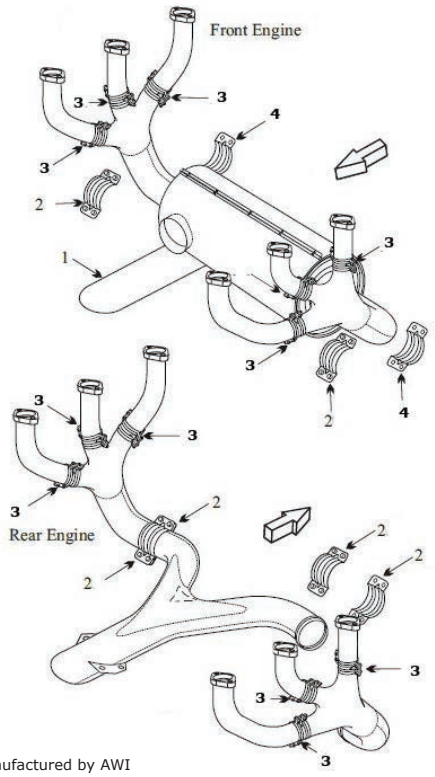
Notes:

1 AD 83-14-04 requires shroud modification and inspection of muffler and shroud rings

2 AD 85-20-01 one time compliance to inspect for holes to be drilled into muffler core

3 Must be stock aircraft. No engine mods or STCs

4 Kit includes (1) A0750161-22 clamp without pin, (1) A0750161-24 clamp with pin, and (1) bag of assorted hardware



Manufactured by AWI

337,337A,B,C,D,E,F,G,H, F337E,F,G,H M337B,P337H,T337G,H
S/N 337-0002 thru 33701950
F3370001 thru F3379999
337-M0001 thru 337-M0476
P3370001 thru P3370356

Description	Idx	Part Number
Clamp, Riser	3	A1250860-29 6
		A0750161-25 5 9
Clamp, Tailpipe	N/A	1250259-6AWL 1
Elbow, LH	4	1555011-13AWL 3
Elbow, RH	2	1555011-12AWL 3
Elbow, Lower Aft	N/A	1555048-1AWL 8
Elbow, Upper Aft	N/A	1555047-1AWL 8
Muffler	1	A1250250-5 2
		1250250-5AWL 4
Turbo Inlet	N/A	1555010-101AWL 7 10

Notes:

1 337,337A,B,C,D,E, F337E, M337B

2 337,337A,B,C,D,E,F,G,H only

3 337,337A,B,C,D,E,F,G,H S/N 33701816 thru 33701927, M337B

4 337,337A,B,C,D,E,F,G,H, M337B only

5 337,337A,B,C,D,E,F,G,H, P337H only

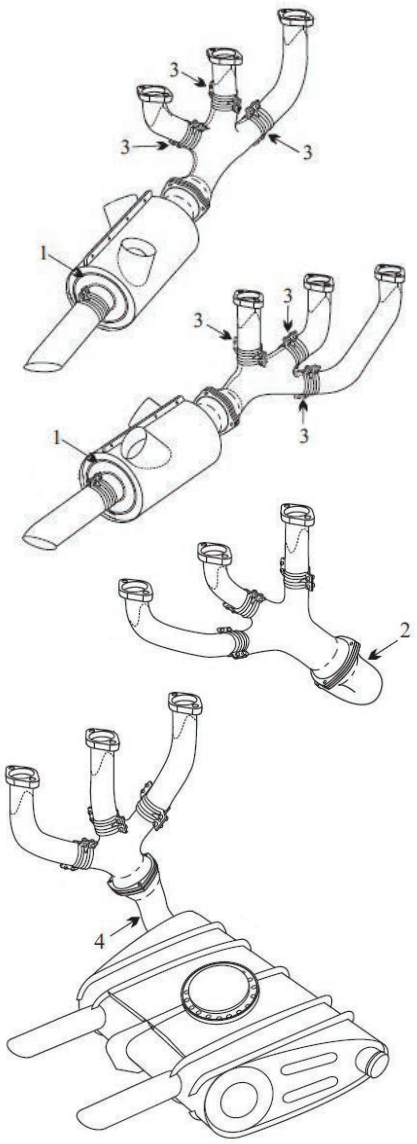
6 337,337A,B,C,D,E,F,G,H, F337E,F,G,H, P337H, T337H only

7 337B 337-0001, 33700569 and on, 337C,D,E,F,G,H, T337G S/N P3370226 and on, P337H

8 337H,T337G S/N P3370226 and on, P337H

9 Must be a stock aircraft. No engine mods or STCs.

10 Supersedes P/N 1555010-24



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

340,340A
S/N 340-0001 thru 340-0555
340A0001 thru 340A1817

Description	Idx	Part Number
Bypass, Elbow, Seal	7	A9910299-5 3
Bypass, Elbow, Sealess	7	A9910299-10 5
Elbow, LH, Seal	10	A9910299-3 2
		A9910299-3I 2 6
Elbow, RH, Seal	10	A9910299-4 2
		A9910299-4I 2 6
Elbow, LH, Sealess	6	A9910299-15 5
		A9910299-15I 5 6
Elbow, RH, Sealess	9	A9910299-16 5
		A9910299-16I 5 6
Header Assembly	4	9910341-1AWL 1
Slip Joint	3	A9910296-7
Stack Assembly, LH	1	A9910295-13
		A9910295-13I 6
Stack Assembly, RH	2	A9910295-14
		A9910295-14I 6
Tailpipe, LH	5	A9910299-1
Tailpipe, LH, Extended	5	A9910299-1X
Tailpipe, RH	5	A9910299-2
Tailpipe, RH, Extended	5	A9910299-2X
Wastegate Overboard	8	A9910299-6 4

Notes:

1 340 only

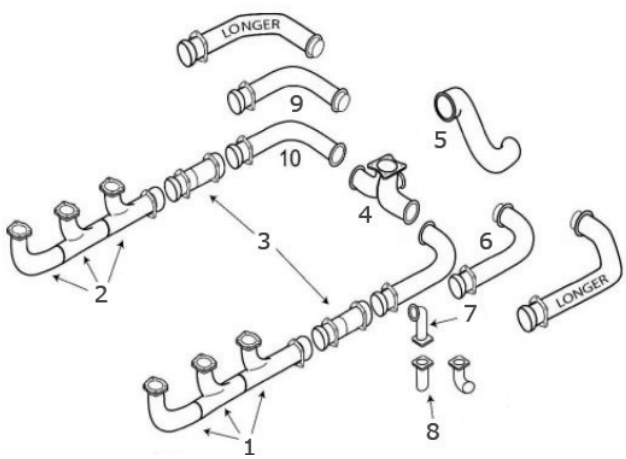
2 340,340A S/N 340A0001 thru 340A0600 only

3 340A S/N 340A0208 thru 340A0600 only

4 340A S/N 340A0208 and on only

5 340A S/N 340A0601 and on only

6 Inconel material



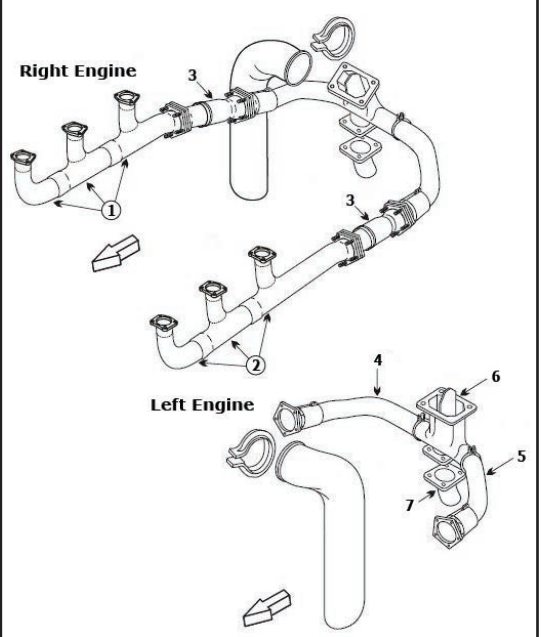
Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

401,401A,B, 402,402A,B,C

S/N 4010001 thru 4010322
401A0001 thru 401A0132
4020001 thru 402-0322
402A0001 thru 402A0129
402B0001 thru 402B1384
402C0001 thru 402C1020

Description	Idx	Part Number
Elbow, LH	4	A9910377-1 [1]
Elbow, RH	5	A9910377-2 [1]
Exhaust Bracket	N/A	A5650118-3 [1]
Header Assembly	6	9910433-6AWL [1]
Slip Joint	3	A9910296-7
Stack Assembly, LH	2	A9910295-13
Stack Assembly, LH, Inconel	2	A9910295-13I
Stack Assembly, RH	1	A9910295-14
Stack Assembly, RH, Inconel	1	A9910295-14I
Turbo Bracket	N/A	A5250110-3 [1]
Wastegate Overboard	7	A9910433-7 [1]

Notes:
[1] Model 402C only



"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding

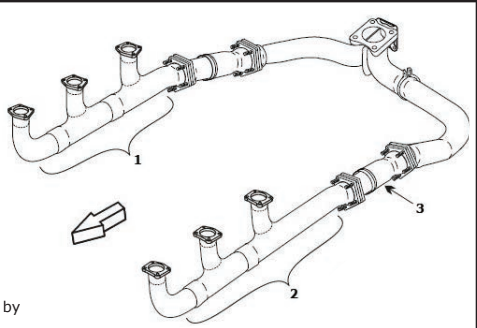
404

S/N 4040001 thru 404-0859

Description	Idx	Part Number
Slip Joint	3	A9910296-7
Stack Assy, LH	2	A9910295-13
Stack Assy, LH, Inconel	2	A9910295-13I
Stack Assy, RH	1	A9910295-14
Stack Assy, RH, Inconel	1	A9910295-14I

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



421A,B,C

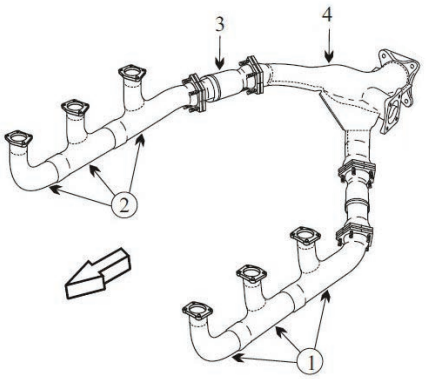
S/N 421A0001 thru 421A0158
421B0001 thru 421B0970
421C0001 thru 421C1807

Description	Idx	Part Number
Bypass Elbow	N/A	A5155156-49 [1]
		A9910300-3 [2]
Collector Assy	3	9910300-13AWL [2]
Slip Joint	4	A9910296-7 [2]
Stack Assy, LH	1	A9910295-15 [2]
Stack Assy, RH	2	A9910295-16 [2]

Notes:
[1] Models 421B only
[2] Model 421C only

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



For the most up-to-date eligibility and product images, visit our website, or scan this code for direct access!

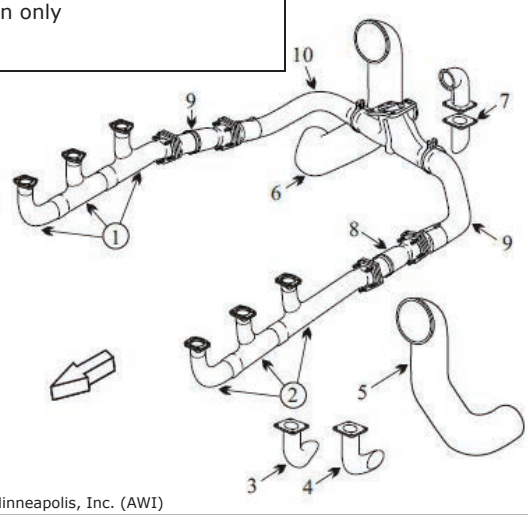
.../products/category/exhaust-system/

414,414A

S/N 414-0001 thru 414-0965
414A0001 thru 414A1212

Description	Idx	Part Number
Bracket Assy	N/A	A5650118-3 [1]
Bypass, Elbow, Seal	N/A	A9910299-5 [3]
Bypass, Elbow, Sealess	N/A	A9910299-10 [4]
Elbow, LH	9	A9910377-1 [4]
Elbow, RH	10	A9910377-2 [4]
Elbow, LH, Seal	N/A	A9910299-3 [1]
		A9910299-3I [1] [5]
Elbow, RH, Seal	N/A	A9910299-4 [1]
		A9910299-4I [1] [5]
Slip Joint	8	A9910296-7 [2]
Stack Assy, LH	2	A9910295-13 [2]
		A9910295-13I [2] [5]
Stack Assy, RH	1	A9910295-14 [2]
		A9910295-14I [2] [5]
Tailpipe, LH	5	A9910299-1
Tailpipe, LH, Extended	5	A9910299-1X
Tailpipe, RH	6	A9910299-2
Tailpipe, RH, Extended	6	A9910299-2X
Wastegate Overboard	7	A9910299-6 [1]
Wastegate Overboard, LH Pipe	4	A9910299-13 [1]
Wastegate Overboard, RH Pipe	3	A9910299-14 [1]

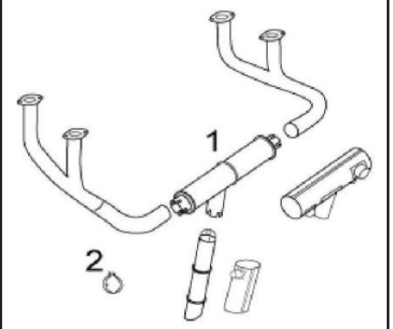
Notes:
[1] 414 only
[2] 414 S/N 414-0251 thru 4140965,414A only
[3] 414 S/N 414-0903 and on only
[4] 414A only
[5] Inconel material



Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

J3C-65,-65S,J3F-65,J3L-65,-65S
S/N 2325 thru 9999999

Description	Idx	Part Number
Clamp, w/Pin	2	A14235-00
Muffler	1	A71053-02

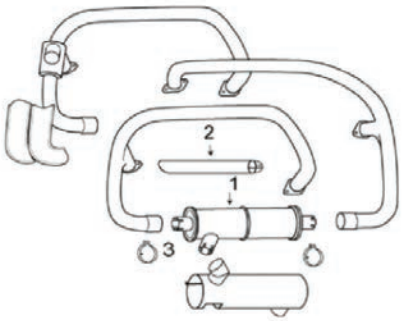


Manufactured by AWI

PA-22,PA-22-108,-135,-150,-160, PA-22S-135,-150,-160
S/N 22-1 thru 22-99999

Description	Idx	Part Number
Clamp, w/Pin	2	A14235-00 [1]
Muffler	1	10308-03AWL
		A10308-003
Tailpipe	3	A11417-04

Notes:
[1] S/N 22-1949 and on



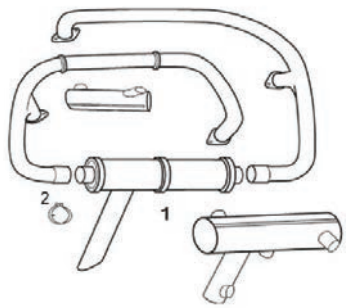
"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding

PA-18,PA-18-105,-125,-135,-150, PA-18A, PA-18A135,-125,-135,-150, PA-18S, PA-18S105,-125,-135,-150
S/N 12-1 thru 18-7632
1809001 thru 1809113
18-3771 thru 18-8309025

Description	Idx	Part Number
Clamp, w/ Pin	2	A14235-00 [2] [1]
Muffler	1	12433-14AWL [2]
		A12433-14
Muffler, Shroud		3236 [6]
Muffler, Hot Rod		3241HR [3] [5]
Shroud, Pre-Heat		3182 [4]

Notes:
[1] S/N 18-3014 and on
[2] All listed models except PA-18-125
[3] New shroud, clamps, and tailpipe included
[4] With STC SA02023AK installed
[5] For aircraft using Lycoming 0320 (150 and 160 HP) engines or 0-360 180 HP engine with STC SA02272-AK
[6] Model PA-18-150 only, with STC SA02024AK installed

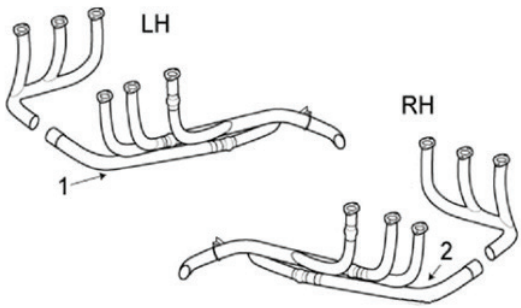


P/Ns with "A" prefix are mfg by AeroSpace Welding (AWI)
P/Ns with "AWL" suffix are mfg by Acorn Welding
P/Ns with "AD" prefix are mfg by F Atlee Dodge

PA-23-250
S/N 27-2505 thru 27-7554168

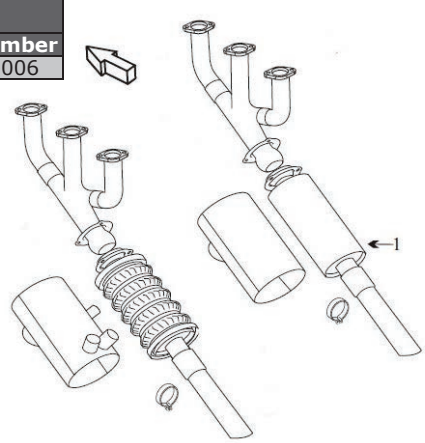
Description	Idx	Part Number
Crossover Tube, LH	1	A33419-05
Crossover Tube, RH	2	A33420-05

Manufactured by AWI



PA-24-260
S/N 24-3642 thru 24-5034

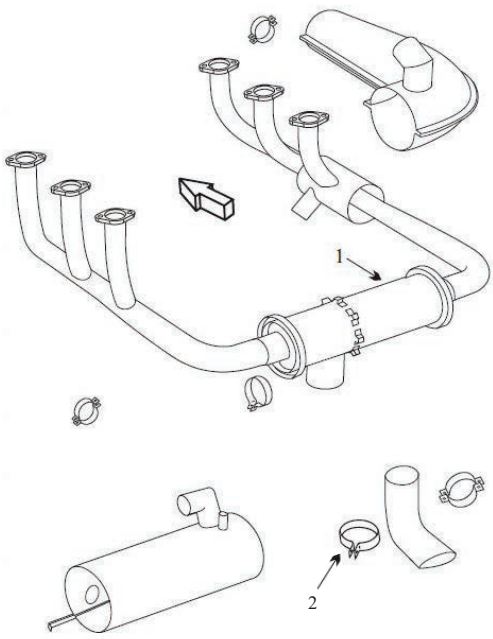
Description	Idx	Part Number
Muffler	1	A26345-006



Manufactured by AWI

PA-24-250
S/N 24-1 thru 24-3687
24-3642 thru 24-5034

Description	Idx	Part Number
Clamp	2	A14235-00
Muffer Assembly	1	A26385-00



"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding

PA-28-140
S/N 28-20001 thru 28-7725290

Description	Idx	Part Number
Clamp, w/Pin	N/A	35655-02AWL
Clamp, Tailpipe	N/A	A14235-00 3
Link Assy	N/A	35656-02AWL
		A35656-02
Muffler	N/A	99482-00AWL 5
		A99482-00 5
Shroud	N/A	A62208-02 2
		A66704-02 4
		A63723-002 3 6
Shroud Assy	N/A	A63723-001 6
Stack, LH Aft	N/A	99044-03AWL
		A99044-03 3
Stack, RH Aft	N/A	99044-04AWL
		A99044-04 3
Stack, LH Fwd	N/A	63726-02AWL 1
		A63726-02 3
Stack, RH Fwd	N/A	63726-04AWL 1
		A63726-04 3
Tailpipe	N/A	A63666-002 3

Notes:
1 S/N 28-20001 thru 28-7125471 only
2 S/N 28-20002 thru 28-24999 only
3 S/N 28-20002 and on only
4 S/N 28-25000 and on only
5 AD70-16-05 50- or 100-hour inspection on muffler not applicable when 99482-02 is installed
6 P/N A63723-002 is blank, not drilled. P/N A63723-001 is an assembly (drilled) top and bottom, containing both P/Ns A63723-002 and A63723-003

PA-28-150
S/N 28-1 thru 28-4377

Description	Idx	Part Number
Clamp, w/Pin	N/A	35655-02AWL
Clamp, Tailpipe	N/A	A14235-00
Link Assy	N/A	35656-02AWL
		A35656-02
Muffler	N/A	99482-00AWL 2 5
		A99482-00 2 5
Shroud	N/A	A63652-02 1
		A66704-02 3
		A63723-002 6 7
Shroud Assy	N/A	A63723-001 6 7
Shroud, LH	N/A	A62981-006 4
Shroud, RH	N/A	A62981-007 4
Stack, LH Aft	N/A	99044-03AWL 2
		A99044-03 2
		62892-03AWL 4
Stack, RH Aft	N/A	99044-04AWL 2
		A99044-04 2
Stack, LH Fwd	N/A	A63726-02 2
Stack, RH Fwd	N/A	63726-04AWL 2
		A63726-04 2
Tailpipe	N/A	A63666-002

Notes:
1 S/N 28-1 thru 28-1520 only
2 S/N 28-1 thru 28-1760 only
3 S/N 28-1521 thru 28-1760 only
4 S/N 28-1761 and on only
5 AD70-16-05 50- or 100-hour inspection on muffler not applicable when 99482-02 is installed
6 P/N A63723-002 is blank, not drilled. P/N A63723-001 is an assembly (drilled) top and bottom, containing A63723-002 and A63723-003
7 S/Ns 28-671 thru 28-677, 28-680, 28-682 thru 28-684, 28-686 thru 28-689, 28-692, 28-694 thru 28-696, 28-698 thru 28-705, and 28-708 thru 28-1760

PA28-160
S/N 28-1 thru 28-4377

Description	Idx	Part Number
Clamp, w/Pin	N/A	35655-02AWL
Clamp, Tailpipe	N/A	A14235-00
Link Assy	N/A	35656-02AWL
		A35656-02
Muffler	N/A	99482-00AWL 2 5
		A99482-00 2 5
Shroud	N/A	A63652-02 1
		A62208-02 3
		A63723-002 6 7
Shroud Assy	N/A	A63723-001 6 7
Shroud, LH	N/A	A62981-006 4
Shroud, RH	N/A	A62981-007 4
Stack, LH Aft	N/A	99044-03AWL 2
		A99044-03 2
Stack, RH Aft	N/A	99044-04AWL 2
		A99044-04 2
Stack, LH Fwd	N/A	A63726-02 2
Stack, RH Fwd	N/A	63726-04AWL 2
		A63726-04 2
Tailpipe	N/A	A63666-002

Notes:
1 S/N 28-1 thru 28-1520 only
2 S/N 28-1 thru 28-1760 only
3 S/N 28-1521 thru 28-1760 only
4 S/N 28-1761 and on only
5 AD70-16-05 50 hour or 100 hour inspection on muffler not applicable when muffler 99482-02 is installed
6 P/N A63723-002 is blank, not drilled. P/N A63723-001 is an assembly (drilled) top and bottom, containing both A63723-002 and A63723-003
7 S/Ns 28-671 thru 28-677, 28-680, 28-682 thru 28-684, 28-686 thru 28-689, 28-692, 28-694 thru 28-696, 28-698 thru 28-705, and 28-708 thru 28-1760

PA-28-180
S/N 28-671 thru 28-7505260

Description	Idx	Part Number
Clamp, w/Pin	N/A	35655-02AWL
Clamp, Tailpipe	N/A	A14235-00
Link Assembly	N/A	35656-02AWL
		A35656-02
Muffler	N/A	66894-03AWL
		A99482-02 1 5
Shroud	N/A	A63652-02 2
		A62208-02 3
		A63723-002 6 7
Shroud Assy	N/A	A63723-001 6 7
Shroud, LH	N/A	A62981-006 4
Shroud, RH	N/A	A62981-007 4
Stack, LH Aft	N/A	99044-03AWL 1
		A99044-03 1
		A62231-00 4
Stack, RH Aft	N/A	99044-04AWL 1
		A99044-04 1
Stack, LH Fwd	N/A	63726-02AWL 1
		A63726-02 1
Stack, RH Fwd	N/A	63726-04AWL 1
		A63726-04 1
Tailpipe	N/A	A63666-002 1

Notes:
1 S/N 28-671 thru 28-1760 only
2 S/N 28-761 thru 28-1520 only
3 S/N 28-1521 thru 28-1760 only
4 S/N 28-1761 and on only
5 AD70-16-05 50 hour or 100 hour inspection on muffler not applicable when muffler 99482-02 is installed
6 P/N A63723-002 is blank, not drilled. P/N A63723-001 is an assembly (drilled) top and bottom, containing P/Ns A63723-002 and A63723-003
7 S/Ns 28-671 thru 28-677, 28-680, 28-682 thru 28-684, 28-686 thru 28-689, 28-692, 28-694 thru 28-696, 28-698 thru 28-705, and 28-708 thru 28-1760

PA-28-181
S/N 2843001 thru 2843999
28-7690001 thru 28-8690062
2890001 thru 2890231

Description	Idx	Part Number
Clamp, w/Pin	N/A	35655-02AWL
		A63243-002 3
Link Assembly	N/A	35656-02AWL
		A35656-02
Muffler	N/A	A66894-03 5
Muffler, Fwd	N/A	A85477-02 6
Muffler, Rear	N/A	A85477-05 6
Shroud Assembly, Top	N/A	A99568-004 4
Shroud Assy, Bottom	N/A	A65543-002 4
Stack, LH Aft	N/A	62231-00AWL
		A62231-005
Stack, RH Aft	N/A	A62232-004
Stack, LH Fwd	N/A	35300-00AWL
		A35300-00 2
Stack, RH Fwd	N/A	62230-00AWL
		A62230-00 1
Strap	N/A	A24793-004 6
Tailpipe	N/A	A85477-011 6
Tailpipe Hanger Clamp	N/A	A24791-006 6

Notes:
1 S/N 2843001 thru 2843999, 28-7690001 thru 28-8690056, 2890001 and on only
2 S/N 2843001 thru 2843999, 28-7690001 thru 28-8690062, 2890206 and on only
3 S/N 28-7690001 thru 28-8690062 only
4 S/N 2890206 and on only
5 S/N 28779001 and on only
6 For PA-28-181, 2 muffler, 1 tailpipe system

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

PA-28-201T, PA-28R-201T, PA-28RT-201T
S/N 28-7921001 thru 28-7921095
2803001 thru 2803012
28R-7703001 thru 28R-7803373
2831001 thru 2831038
28R-7931001 thru 28R-8631005

Description	Idx	Part Number
Elbow, Crossover	N/A	654303AWL
Elbow, Cylinder #5	N/A	654261AWL
Elbow, Cylinder #6	N/A	654260AWL
Inlet, WYE Assembly	N/A	654304AWL
Stack, LH Aft	N/A	67811-00AWL 1
	N/A	A67811-000 1
Stack, RH Aft	N/A	67812-00AWL 1
	N/A	A67812-000 1
Stack, LH Fwd	N/A	67810-00AWL 1
	N/A	A67810-000 1
Stack, RH Fwd	N/A	67809-00AWL 1
	N/A	A67809-000 1
Tee, Cylinder #1	N/A	654265AWL
Tee, Cylinder #2	N/A	654264AWL
Tee, Cylinder #3	N/A	654263AWL
Tee, Cylinder #4	N/A	654262AWL
Tie Rod End	N/A	654305AWL
	N/A	654306AWL
Valve, Bypass	N/A	654302AWL

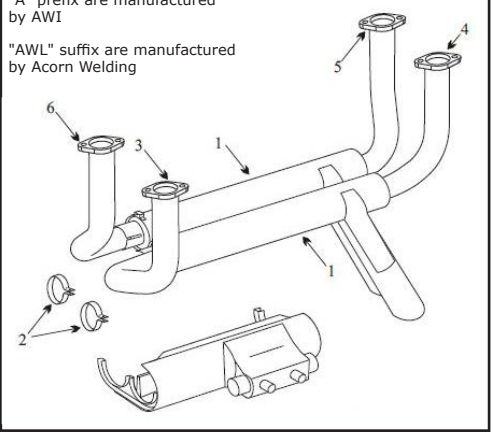
Notes:
1 Model 28R-201T only

PA-28R-180
S/N 28R-30002 thru 28R-7130013

Description	Idx	Part Number
Clamp, w/Pin	2	35655-02AWL
		A63243-002
Link Assembly	N/A	35656-02AWL
		A35656-02
Muffler	1	67517-00AWL
		A67517-00
Stack, LH Aft	3	67618-00AWL
Stack, RH Aft	4	67620-00AWL
Stack, LH Fwd	6	67617-00AWL
Stack, RH Fwd	5	67619-00AWL

"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding



PA-28-151,PA-28-161
S/N 28-7415001 thru 28-7715314
2816001 thru 2816119
2841001 thru 2841365
2842001 thru 2842999
287716001 thru 28-8616057

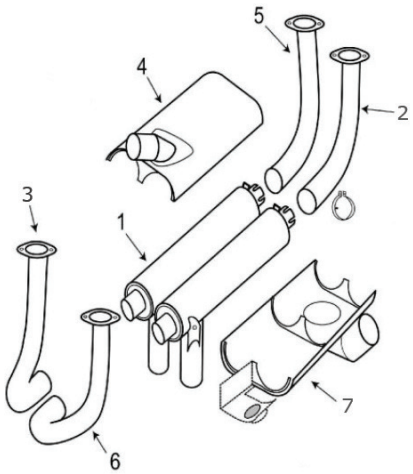
Description	Idx	Part Number
Clamp, w/ Pin	N/A	35655-02AWL
		A63243-002 3
Link Assembly	N/A	35656-02AWL
		A35656-02
Muffler	1	66894-03AWL
		A66894-03
Shroud Assy, Bottom	7	A35303-803
Shroud Assy, Top	4	A99568-003
Stack, LH Aft	5	35301-00AWL
		A62231-005 1
Stack, RH Aft	2	A62232-004 1
Stack, LH Fwd	3	35300-00AWL
		A35300-00 2
Stack, RH Fwd	6	62230-00AWL
		A62230-00 1
		37922-02AWL

Notes:

1 Models PA-28-151, PA-28-161 S/N 2841001 thru 2841365 & 287716002 and on only

2 Models PA-28-151, PA-28-161 S/N 287716001 thru 287716323 only

3 Models PA-28-151, PA-28-161 S/N 287716001 thru 288616057 only



"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding

PA-28R-200, PA-28R-201
S/N 28R-35001 thru 28R-7635545
2837001 thru 2837061
2844001 thru 2844999
28R-7737002 thru 28R-7837317

Description	Idx	Part Number
Clamp, w/Pin	N/A	35655-02AWL
	8	A63243-002 2
Link Assembly	N/A	35656-02AWL
		A35656-02
Muffler	1	67517-00AWL 1
		A67517-00
Shroud Assy, Top	7	A99600-800
Shroud Assembly Bottom	6	A67808-000
Stack, LH Aft	4	67811-00AWL
		A67811-000
Stack, RH Aft	2	67812-00AWL
		A67812-000
Stack, LH Fwd	5	67810-00AWL
		A67810-000
Stack, RH Fwd	3	67809-00AWL
		A67809-000

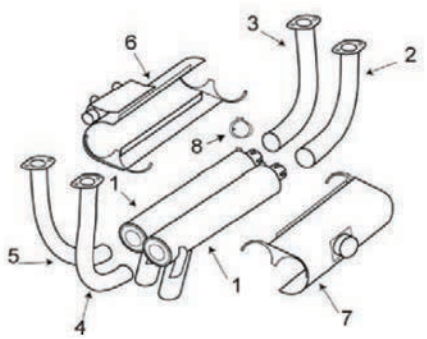
Notes:

1 Model 28R-200 only

2 Models PA-28R-200, PA-28R-201 S/N 2837001 thru 2837061, 2844001 thru 2844999

PA-28RT-201
S/N 28R-35001 thru 28R-7635545
2837001 thru 2837061
2844001 thru 2844999
28R-7737002 thru 28R-7837317

Description	Idx	Part Number
Shroud Assy, Top	7	A99600-800
Shroud Assembly Bottom	8	A67808-000



"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding

PA-28-235
S/N 28-10001 thru 28-771089

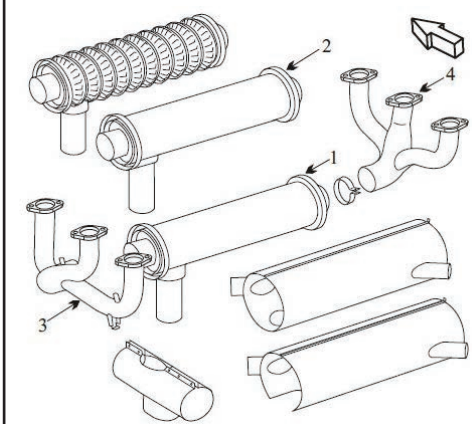
Description	Idx	Part Number
Muffler, Round Cuff	2	A65813-00 3
Muffler, Square Cuff	1	A65012-00 2
Stack, LH	3	A65038-00 1
Stack, RH	4	A65039-00 1

Notes:

1 S/N 28-10001 thru 28-11378, 28-7110001 thru 28-7210023 only

2 S/N 28-10003 thru 28-10062 only

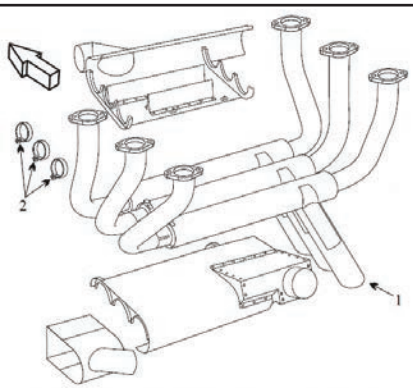
3 S/N 28-10986 thru 28-7210033 only



Manufactured by AWI

PA-28-236
S/N 2811001 thru 2811050
2845001 thru 2845999
28-7911001 thru 28-8611008

Description	Idx	Part Number
Clamp, w/Pin	2	A63243-002
Link Assembly	N/A	35656-02AWL
		A35656-02
Muffler	1	67517-00AWL
		A67517-00



"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding

PA-30, PA-39
S/N 30-1 thru 30-2000
39-1 thru 39-162

Description	Idx	Part Number
Stack, Cylinder #1	N/A	23850-008AWL
Stack, Cylinder #2	N/A	23850-010AWL
Stack, Cylinder #3	N/A	23850-011AWL
Stack, Cylinder #4	N/A	23850-014AWL

Manufactured by Acorn Welding, Ltd.

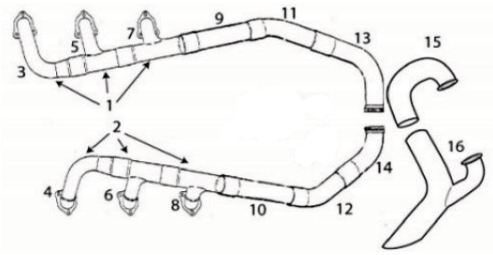
PA-31-310, PA-31-325

S/N 31-2 thru 31-8312019
31-7400990 thru 31-8312019

Description	Idx	Part Number
Elbow, Intermediate, LH Aft	14	LW16790AWL 2 3
Elbow, Intermediate, RH Aft	13	LW16793AWL 2 3
Elbow, Intermediate, LH Center	12	LW16789AWL 2 3
Elbow, Intermediate, RH Center	11	LW16792AWL 2 3
Riser, LH Aft	8	A10162
Riser, RH Aft	7	A10161
Riser, LH Center	6	A10163
Riser, RH Center	5	A10160
Riser, LH Fwd	4	A10164
Riser, RH Fwd	3	A10159
Stack Assembly, LH	2	A16826 5 6
Stack Assembly, RH	1	A16825 4 6
Tailpipe, Lower	16	40310-09AWL 1
		A40310-9
Tailpipe, Upper	15	40310-08AWL 1
Tube, Intermediate, LH Fwd	10	LW15849AWL 2 3
		A15849
Tube, Intermediate RH Fwd	9	LW15850AWL 2 3

Notes:

1 Model PA-31-310 only
2 This exhaust should be changed with the Front, Middle intermediate tube and the Aft Intermediate tube to prevent accidental disengagement of the slip joints
3 The slip joints must be lubricated and allow to move during operation to prevent cracking of the flanges
4 Part number A16825 is the full Stack Assembly, which contains one each of A10159, A10160, and A10161.
5 Part number A16826 is the full Stack Assembly, which contains one each of A10164, A10163, and A10162.
6 If components are installed individually, there is no guaranteed fit. This part number is non-returnable.



Piper PA-31-350

31-5001 thru 31-8553002

Description	Idx	Part Number
Elbow, Intermediate, LH Aft	14	A16697 1 2
		LW16697AWL 1 2
Elbow, Intermediate, RH Aft	13	A16620 1 2
		LW16620AWL 1 2
Elbow, Intermediate, LH Center	12	A16696 1 2
		LW16696AWL 1 2
Elbow, Intermediate, RH Center	11	A16621 1 2
		LW16621AWL 1 2
Riser, LH Aft	8	LW10162AWL
		A10162
Riser, RH Aft	7	LW10161AWL
		A10161
Riser, LH Center	6	LW10163AWL
		A10163
Riser, RH Center	5	LW10160AWL
		A10160
Riser, LH Fwd	4	LW10164AWL
		A10164
Riser, RH Fwd	3	LW10159AWL
		A10159
Stack Assembly, LH	2	A16826 4 5
Stack Assembly, RH	1	A16825 3 5
Tailpipe, Lower	16	40310-09AWL
		A40310-9
Tailpipe, Upper	15	40310-10AWL
		A40310-10
Tube, Intermediate, LH/RH Fwd	9	A15849
	10	LW15849AWL

Notes:

1 This exhaust should be changed with the Front, Middle intermediate tube and the Aft Intermediate tube to prevent accidental disengagement of the slip joints
2 The slip joints must be lubricated and allow to move during operation to prevent cracking of the flanges
3 Part number A16825 is the full Stack Assembly, which contains one each of A10159, A10160, and A10161.
4 Part number A16826 is the full Stack Assembly, which contains one each of A10164, A10163, and A10162.
5 If components are installed individually, there is no guaranteed fit. This part number is non-returnable.

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

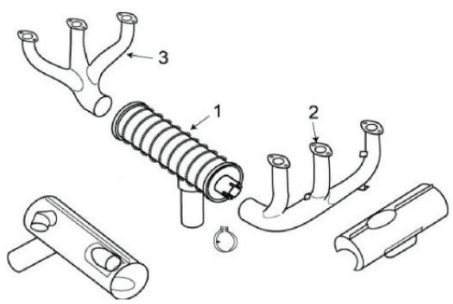
PA-32-260

S/N 32-1 thru 32-700008

Description	Idx	Part Number
Muffler	1	A68718-00 1
Stack, LH	2	A65038-00 1
Stack, RH	3	A65039-00 1

Notes:

1 S/N 32-1 thru 32-1297 and 32-7100001 thru 32-7800008 only



Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

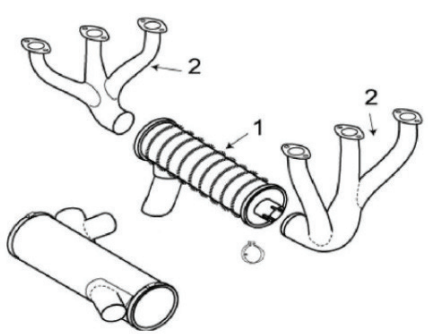
PA-32-300

S/N 32-40000 thru 32-7940290

Description	Idx	Part Number
Muffler	1	A68796-00 1
Stack Assembly, LH and RH	2	A68793-00
Shroud Assy, Top	N/A	A38159-002
Shroud Assy, Bottom	N/A	A38162-006

Notes:

1 S/N 32-40000 thru 32-7540198 only



Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

PA-32-301T,PA-32R-301T,PA-32RT-301T

S/N 32-8024001 thru 32-8424002
3229001 thru 3229003
32R-8029001 thru 32R-8629008
32R-7887002 thru 32R-7987126

Description	Idx	Part Number
Adapter, Exhaust Pipe, Cylinder #1/2/5/6	N/A	40B19840AWL 1
Crossover, LH Aft	N/A	LW16103AWL
Crossover, RH Aft	N/A	LW16102AWL
Elbow, Bypass	N/A	764-501AWL 2
Elbow, Transition Inlet	N/A	LW15806AWL
Riser, Cylinder #5	N/A	LW15805AWL
Riser, Cylinder #6	N/A	40B21375AWL
Tailpipe	N/A	98705-002AWL
Transition/Valve	N/A	LW16858AWL

Notes:

1 PA-32R-301T S/N 3257001 and on only
2 This elbow should be purchased when replacing the 98705-000 or 98705-002 Tailpipe

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

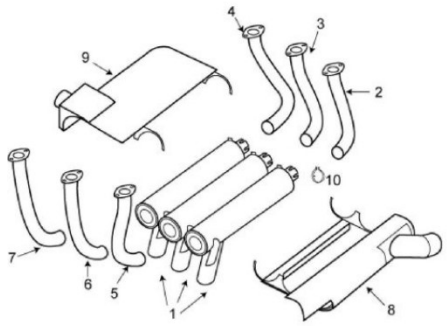
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

PA-32R-300, PA-32RT-300, PA-32-301

S/N 32R-7680001 thru 32R7880068
32R-7885002 thru 32R-7985106
3213001 thru 3213103
3246001 thru 3246999
32R8013001 thru 32R-8613006

Description	Idx	Part Number
Clamp, w/ Pin	10	A63243-002
Muffler	1	A67517-00
		67517-00AWL 1
Shroud Assy, Top	9	A38159-002
Shroud Assy, Bottom	8	A38162-006
Stack, LH Front	2	A38137-04
Stack, RH Front	5	A38137-05
Stack, LH Center	3	A38137-03
Stack, RH Center	6	A38137-06
Stack, LH Rear	4	A38137-02
Stack, RH Rear	7	A38137-07

Notes:
1 S/N 32-8006001 thru 32-8006116



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

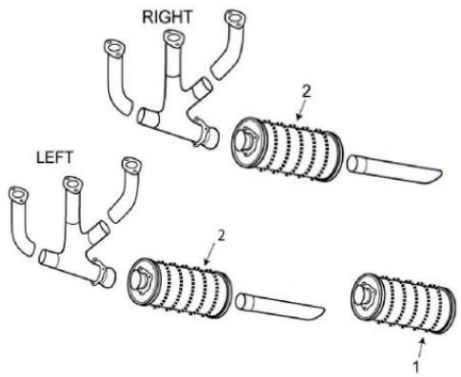
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

PA-32R-301

S/N 3213001 thru 3213103
3246001 thru 3246999
32R-8013001 thru 32R8613006

Description	Idx	Part Number
Muffler, 9"	1	A26345-008
Muffler, 9.5"	2	A26345-005 1
Shroud Assy, Top	N/A	A38159-002
Shroud Assy, Bottom	N/A	A38162-006

Notes:
1 Carbureted aircraft use (2) A26345-005 mufflers



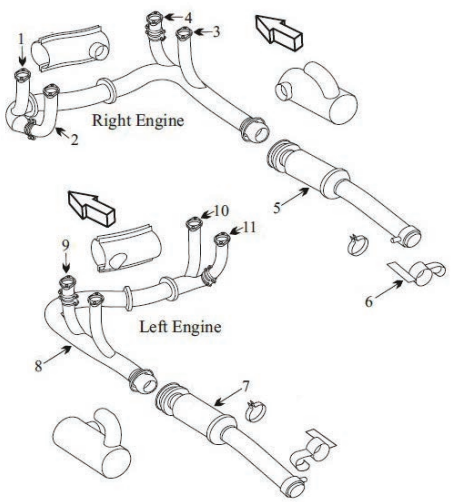
Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

PA-34-200

S/N 34-7250001 thru 34-7450220

Description	Idx	Part Number
Clamp	N/A	A0750161-25 1 2
Collector, LH Inboard	10	78463-004AWL
Collector, RH Inboard	1	78463-013AWL
Collector, LH Outboard	8	78463-006AWL
Collector, RH Outboard	3	78463-015AWL
Riser, LH Inboard	11	78463-002AWL
Riser, RH Inboard	2	78463-012AWL
Riser, LH Outboard	9	78463-007AWL
Riser, RH Outboard	4	78463-016AWL
Tailpipe, LH	7	78463-010AWL
Tailpipe, RH	5	78463-018AWL
Tailpipe, Support Assy	6	78463-11AWL

Notes:
1 S/N 34-725001 thru 34-7350343 only
2 Must be stock aircraft. No engine modifications or STCs
3 Tailpipe is supplied Pre-Modified IAW FAA AD 83-14-05



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

PA-34-200T, PA-34-220T

S/N 34-8133001 thru 34-8633031
3433001 thru 3433172
3447001 thru 3447029
3448001 thru 3448079
3449001 thru 3449999

Description	Idx	Part Number
Elbow, LH Intermediate	N/A	654238AWL 1
Elbow, RH Intermediate	N/A	656297AWL 1
Elbow, Cylinder #5	N/A	654261AWL
Elbow, Cylinder #6	N/A	654260AWL
Inlet, WYE Assembly	N/A	654237AWL 1
Tailpipe	N/A	654270AWL 1
Tee, Cylinder #1	N/A	654265AWL
Tee, Cylinder #2	N/A	654264AWL
Tee, Cylinder #3	N/A	654263AWL
Tee, Cylinder #4	N/A	654262AWL
Tie Rod End	N/A	654305AWL
	N/A	654306AWL
Valve, Bypass	N/A	654274AWL 1

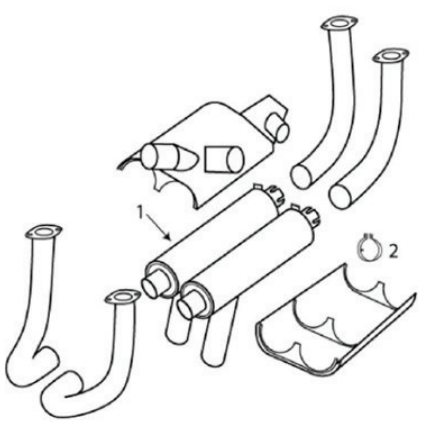
Notes:
1 Exclude S/N 3449001 thru 3449999

Manufactured by Acorn Welding, Ltd.

PA-38-112

S/N 38-78A0001 thru 38-82A0122

Description	Idx	Part Number
Clamp, w/Pin	2	A63243-002
Muffler	1	77669-002AWL
		A77669-02



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

PA-44-180

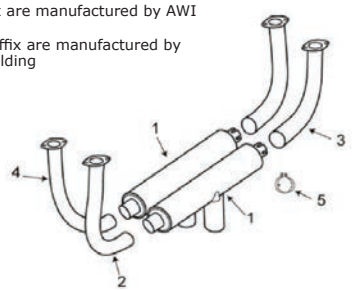
S/N 44-7995001 thru 44-8195026
4495001 thru 4495013
4496001 thru 4496999

Description	Idx	Part Number
Clamp, w/Pin	5	A63243-002
Muffler	1	86299-007AWL
		A86299-008
Stack, LH Aft	N/A	A89366-011 2
Stack, RH Aft	4	A89366-005 1
Stack, LH Fwd	3	A89366-003 1
Stack, RH Fwd	2	A86202-004 3

Notes:
1 S/N 4495001 and on only
2 S/N 4496001 and on only
3 S/N 7995001 and on only

"A" prefix are manufactured by AWI

"AWL" suffix are manufactured by Acorn Welding



PA-46-350P, PA-46R-350T

S/N 4622001 thru 4622200
4636001 thru 4636999
4692001 thru 4692999

Description	Part Number
Adapter, Wastegate	40B19851AWL
Elbow, LH Fwd, Cylinder #2	40B19841AWL
Elbow, RH Fwd, Cylinder #1	40B19844AWL
Inlet, Bypass/Wastegate	47C21952AWL 1
Stack, LH Center, Cyl#4	40B19842AWL
Stack, RH Center, Cyl #3	40B19827AWL
Tube, Center	40B19974AWL
Tube, LH	40B19850AWL
Tube, RH	40B19975AWL

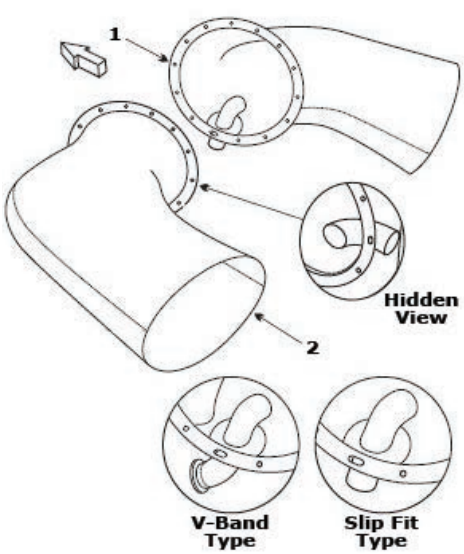
Notes:
1 Exclude S/N 3449001 thru 3449999

Manufactured by Acorn Welding, Ltd.

A200,A200C,A200CT
S/N BC-1 thru BC-9999
BD-1 thru BD-9999
BJ-1 thru BJ-9999
BP-1 thru BP-63
GR-1 thru GR-19
FC-1 thru FC-9999
FE-1 thru FE-36

Description	Idx	Part Number
Elbow, Stack Hose	N/A	101-910204-11AWL [1]
Hose, Exhaust Stack	N/A	101-9048-21AWL [1]
Stack, LH	2	101-950018-21AWL [2] [6] [7] [10]
		101-950019-47AWL [4] [6] [7]
		101-950023-1AWL [4] [6] [7]
		130-950001-39AWL [1]
Stack, RH	1	101-950018-23AWL [3] [6] [8] [10]
		101-950019-49AWL [5] [6] [8]
		101-950023-3AWL [5] [6] [8]
		130-950001-41AWL [1]

Notes:
[1] With or without STC SA10737SC or SA10824SC
[2] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97, 78-00-00-10,AF78-00-00-10
[3] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-60,101-950016-25,-43,-69,-75,-83,-99, 78-00-00-20,AF78-00-00-20
[4] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97, 101-950018-13,-21
[5] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-60,101-950016-25,-43,-69,-75,-83,-99, 101-950018-15,-23
[6] Compatible Flow Thru Style Heated Lips are: Intake Lips modified by Beech Kit 101-9048 or Acorn Welding REO C-RA12-167, Intake Lips previously modified by Butterfield Industries BI-1001-1 or Raisbeck Engineering BI-1001-1 and modified by Acorn REO C-RA12-167
[7] Upper Cowlings will require modification when replacing the following exhaust stacks: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97
[8] Upper Cowlings will require modifications when replacing the following exhaust stacks: 101-950001-60, 101-950016-25,-43,-69,-75,-83,-99
[9] Must be used with 101-950018-23AWL
[10] Must be used with 101-950018-21AWL



B200,B200C,CGT,CT,GT,T
S/N BB-734 thru BB-9999
BW-1 thru BV-9999
BL-37 thru BL-9999
BP-64 thru BP-9999
BU-1 thru BU-10
BV-1 thru BV-10
BZ-1 thru BZ-9999
BN-2 thru BN-4
BY-1 thru BY-9999
BT-23 thru BT-9999

Description	Idx	Part Number
Elbow, Stack Hose	N/A	101-910204-11AWL [1] [2] [3]
Hose, Exhaust Stack	N/A	101-9048-21AWL [1] [2] [3]
Stack, LH	2	101-950018-21AWL [5] [9] [10] [12]
		101-950019-47AWL [7] [9] [10]
		101-950023-1AWL [7] [9] [10]
		130-950001-39AWL [1] [2] [3]
Stack, RH	1	101-950018-23AWL [2] [4] [6] [9] [11] [13]
		101-950019-49AWL [2] [4] [8] [9] [11]
		101-950023-3AWL [2] [4] [8] [9] [11]
		130-950001-41AWL [2] [3]

Notes:
[1] Models B200 S/N BB-854 and on, B200C S/N BW-1 thru BV-9999, BL-37 thru BL-9999, BP-64 thru BP-9999,B200CGT,CT,GT,T
[2] Except BB-871, BB-873, BB-892, BB-893
[3] With or without STC SA10737SC or SA10824SC
[4] S/N BB-854 thru BB-9999 with or without STC SA10737SC or SA 10824SC
[5] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97, 78-00-00-10,AF78-00-00-10
[6] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-60, 101-950016-25,-43,-69,-75,-83,-99, 78-00-00-20,AF78-00-00-20
[7] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97, 101-950018-13,-21
[8] This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-60,101-950016-25,-43,-69,-75,-83,-99, 101-950018-15,-23
[9] Compatible Flow Thru Style Heated Lips are: Intake Lips modified by Beech Kit 101-9048 or Acorn Welding REO C-RA12-167, Intake Lips previously modified by Butterfield Industries BI-1001-1 or Raisbeck Engineering BI-1001-1 and modified by Acorn REO C-RA12-167
[10] Upper Cowlings will require modification when replacing the following exhaust stacks: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97
[11] Upper Cowlings will require modifications when replacing the following exhaust stacks: 101-950001-60, 101-950016-25,-43,-69,-75,-83,-99
[12] Must be used with 101-950018-23AWL
[13] Must be used with 101-950018-21AWL

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

200,200C,200CT,200T

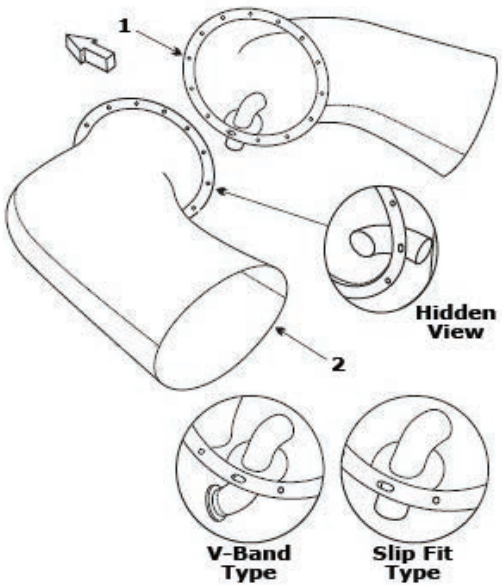
S/N BB-2 thru BB-912
BL-1 thru BL-36
BN-1 thru BN-1
BT-1 thru BT-22

Description	Idx	Part Number
Elbow, Stack Hose	N/A	101-910204-11AWL 1 2 3
Hose, Exhaust Stack	N/A	101-9048-21AWL 1 2 3
Stack, LH	2	101-950018-21AWL 5 9 10 12
		101-950019-47AWL 7 9 10
		101-950023-1AWL 7 9 10
		130-950001-39AWL 1 2 3
Stack, RH	1	101-950018-23AWL 2 4 6 9 11 13
		101-950019-49AWL 2 4 8 9 11
		101-950023-3AWL 2 4 8 9 11
		130-950001-41AWL 2 3

Notes:

1 Models 200 S/N BB-2 thru BB-853, BB-871 thru BB-873, BB-892 thru BB-893,200C,200CT,200T only
2 Except S/N BB-734, BB-793, BB-829
3 With or without STC SA10737SC or SA10824SC
4 S/N BB-2 thru BB853 w/ or w/o STC SA10737SC or SA10824SC
5 This exhaust may also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97, 78-00-00-10,AF78-00-00-10
6 May also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-60, 101-950016-25,-43,-69,-75,-83,-99, 78-00-00-20,AF78-00-00-20
7 May also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97, 101-950018-13,-21
8 May also replace the following exhaust stacks when combined with a Flow Thru Style Heated Lip: 101-950001-60, 101-950016-25,-43,-69,-75,-83,-99, 101-950018-15,-23
9 Compatible Flow Thru Style Heated Lips: Intake Lips modified by Beech Kit 101-9048 or Acorn Welding REO C-RA12-167, Intake Lips previously modified by Butterfield Industries BI-1001-1 or Raisbeck Engineering BI-1001-1 and modified by Acorn REO C-RA12-167
10 Upper Cowlings will require modification when replacing the following exhaust stacks: 101-950001-59, 101-950016-23,-41,-67,-73,-81,-97
11 Upper Cowlings will require modifications when replacing the following exhaust stacks: 101-950001-60, 101-950016-25,-43,-69,-75,-83,-99
12 Must be used with 101-950018-23AWL
13 Must be used with 101-950018-21AWL





Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

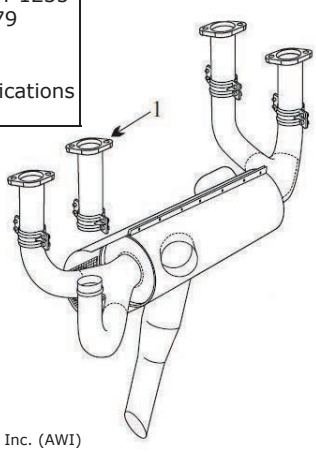
23,A23,A23A,B23,C23

S/N M-1 thru M-2392

Description	Idx	Part Number
Clamp, Riser	N/A	A0750161-25 1 3 5
Riser	1	A099001-120 2 4

Notes:

1 Models 23 S/N M-125 and on, A23,A23A,B23,C23 S/N M-1285 thru 1979
2 Models B23 S/N M-1143,M-1155,M-1235 and on, C23 S/N M01285 thru M-1979
3 Excludes S/N M-1974
4 Excludes S/N M-1921
5 Must be a stock aircraft. No modifications or Supplemental Type Certificates.



Manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

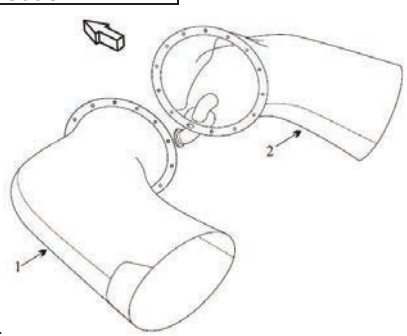
300,300LW,B300,B300C

S/N FA-1 thru FA-230
FF-1 thru FF-19
FL-1 thru FL-9999
FM-1 thru FM-9999
FN-1

Description	Idx	Part Number
Stack, LH	1	101-950017-101AWL 1
		130-950001-29AWL 1
Stack, RH	2	101-950017-103AWL 1
		130-950001-31AWL 1

Notes:

1 Models 300 S/N FA-2 thru FA-224, FF-1 and on, 300LW,B300,B300C



Manufactured by Acorn Welding, Ltd.

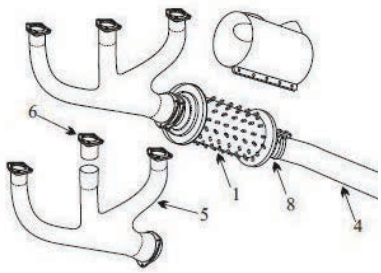
35-33,35-A33,-B33,-C33,-C33A, E33,E33A,C,F33,F33A,C,G33

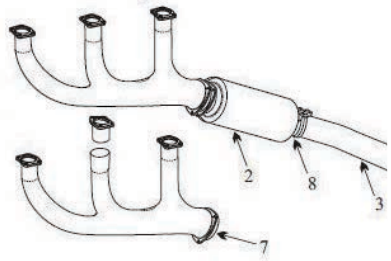
S/N CD-1 thru CD-1304
CE-1 thru CE-9999
CJ-1 thru CJ-9999

Description	Idx	Part Number
Clamp, w/hardware	8	A35-950004-17 5
Muffler, LH/RH	N/A	A189 1 7
Muffler, LH	2	701-20AWL 6 11
	2	A701-20 4 11
	2	A701-4 3 12
Muffler, RH	2	701-21AWL 6
	1	A701-19 6 10
	1	A701-5 6 9
Riser, LH Center	N/A	35-950005-43AWL 5
Riser, RH Center	6	35-950005-63AWL 5 8
Stack, LH	7	35-950005-37AWL 6
		A35-950005-37M 5
Stack, LH, High Performance	7	A35-950005-37HP 5 8
Stack, RH	5	35-950005-39AWL 6
	5	A35-950005-39M 5
Stack, RH, High Performance	5	A35-950005-39HP 5 8
Tailpipe, LH, Angle Cut	N/A	A35-950005-61 5
	N/A	35-950005-61AWL 2
Tailpipe, RH, Angle Cut	N/A	A35-950005-57 5
	N/A	35-950005-57AWL 5
Tailpipe, LH, Straight Cut	3	A35-950005-11 2
		35-950005-11AWL 5
Tailpipe, RH, Straight Cut	4	A35-950005-9 2
		35-950005-9AWL 5

Notes:

1. 35-A33 S/N CD-225 thru CD-232,CD-235, CD-237 thru CD-240,CD-242 thru CD-245, CD-251 thru CD-387, 35-B33,35-C33,E33,F33 only
2. 35-C33A,E33A,C,F33C Only
3. F33A S/N CE-290 thru CE-470, F33C S/N CJ-26 thru CJ-51,G33
4. F33A S/N CE-471 and on,F33C S/N CJ-52 and on
5. F33A,F33C only
6. F33A,F33C,G33 only
7. Except S/N CD-982
8. Must purchase both LH and RH exhaust collectors when upgrading to High Performance
9. Riser 35-950005-43AWL required with purchase
10. Riser 35-950005-63AWL required with purchase
11. Inconel Cone
12. Stainless Steel Cone





Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

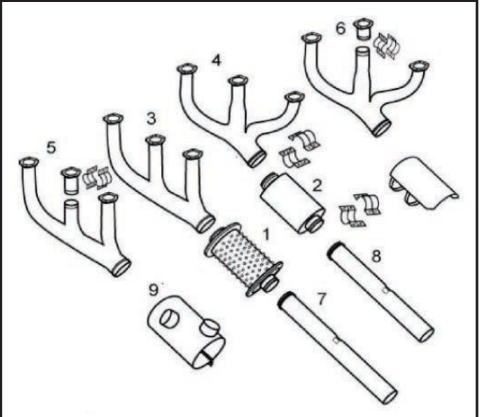
H35,J35,K35,M35,N35,P35

S/N D-4866 thru D-7108

Description	Idx	Part Number
Clamp, w/hardware	9	A35-950004-17
Muffler, LH	2	701-20AWL
Muffler, RH	1	701-21AWL
Muffler, LH, Fixed	1	492-43AWL 3
		A492-43 3
Muffler, RH, Fixed	2	492-27AWL 3
		A492-27 3
Riser, LH Center	3	35-950005-43AWL
Riser, RH Center	4	35-950005-63AWL
Stack, LH	5	35-950005-37AWL 1
Stack, RH	6	35-950005-39AWL 2
Tailpipe, LH, Fixed	7	35-950004-7AWL 3
		A35-950004-7 3
Tailpipe, RH, Fixed	8	35-950004-9AWL 3
		A35-950004-9 3

Notes:

1. 35-950005-43AWL required w/ purchase
2. 35-950005-63AWL required w/ purchase
3. Must be used with Fixed Collector only



"A" prefix are manufactured by AWI
"AWL" suffix are manufactured by Acorn Welding, Ltd.

35,A35,B35,C35,D35,E35,F35,G35

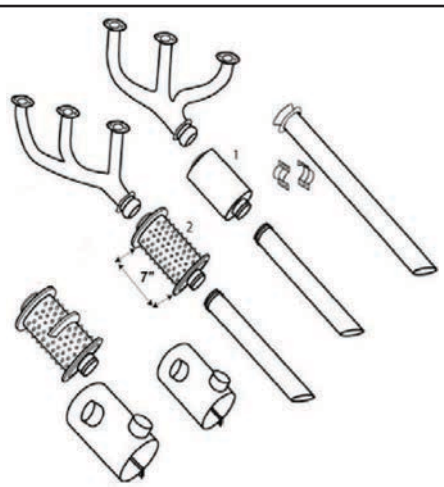
S/N D-1 thru D-4865

Description	Idx	Part Number
Muffler, LH	2	A186 1 2
Muffler, RH	1	A189 1 2

Notes:

1. 35,A35,B35,C35,D35,E35,F35, G35 only
2. Except S/N D-3293 or D-4376

Manufactured by AWI



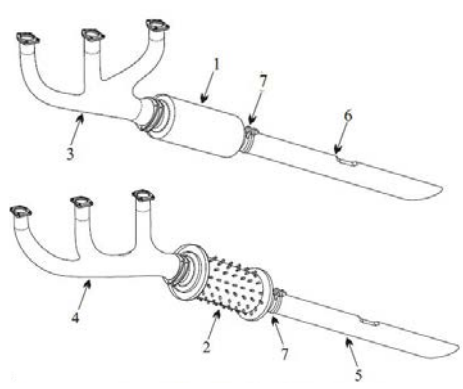
P35

S/N D-7109 thru D-7309

Description	Idx	Part Number
Clamp, w/ hardware	7	A35-950004-17
Muffler, RH	1	701-20AWL
Muffler, LH	2	701-21AWL
Riser, LH Center	4	35-950005-43AWL
Riser, RH Center	3	35-950005-63AWL
Stack, LH	N/A	35-950005-37AWL 1
Stack, RH	N/A	35-950005-39AWL 2
Tailpipe, LH, Fixed	5	35-950004-7AWL 3
		A35-950004-7 3
Tailpipe, RH, Fixed	6	35-950004-9AWL 3
		A35-950004-9 3

Notes:

1. 35-950005-43AWL required w/ purchase
2. 35-950005-63AWL required w/ purchase
3. Must be used with Fixed Collector only



"A" prefix are manufactured by AWI
"AWL" suffix are manufactured by Acorn Welding, Ltd.

S35,V35,V35A,V35B
S/N D-7310 thru D-9999

Description	Idx	Part Number
Clamp, w/hardware	3	A35-950004-17 1
Muffler, LH	2	A701-4 2 6
		A701-20 5
		701-20AWL 5
Muffler, RH	1	A701-5 2 6
		A701-19 5
		701-21AWL 5
Riser, LH Center	4	35-950005-43AWL
Riser, RH Center	6	35-950005-63AWL
Stack, LH	9	35-950005-37AWL 3
		A35-950005-37M
Stack, RH	5	35-950005-39AWL 4
		A35-950005-39M
Stack, LH, High Performance	9	A35-950005-37HP 7
Stack, RH, High Performance	N/A	A35-950005-39HP 7
Tailpipe, LH, Angle Cut	N/A	A35-950005-61
	N/A	35-950005-61AWL
Tailpipe, RH, Angle Cut	N/A	A35-950005-57
	N/A	35-950005-57AWL
Tailpipe, LH, Straight Cut	8	A35-950005-11
		35-950005-11AWL
Tailpipe, RH, Straight Cut	7	A35-950005-9
		35-950005-9AWL

Notes:
1 S35,V35B S/N D-9069 thru D-9551 only
2 S35,V35,V35A,V35B S/N D-9069 thru D-9551 only
3 Riser 35-950005-43AWL required with purchase
4 Riser 35-950005-63AWL required with purchase
5 Inconel Cone
6 Stainless Steel Cone
7 Must purchase both LH and RH exhaust collectors when upgrading to High Performance

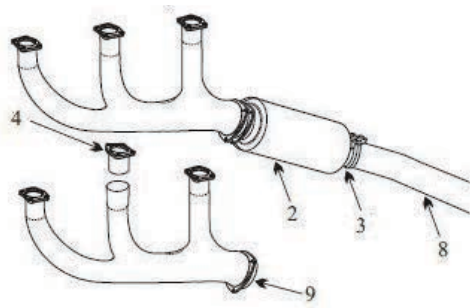
36,A36,G36
S/N E-1 thru E-9999

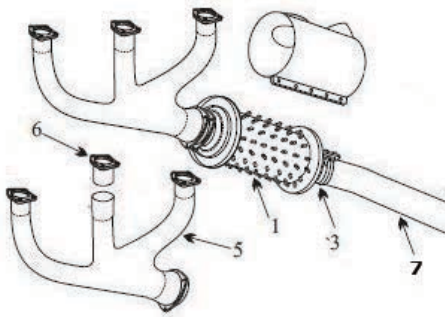
Description	Idx	Part Number
Clamp, w/hardware	3	A35-950004-17
Muffler, LH	2	701-20AWL 3
		A701-20 1 3
Muffler, RH	1	701-21AWL 3
		A701-19 1 3
Riser, LH Center	4	35-950005-43AWL
Riser, RH Center	6	35-950005-63AWL
Stack, LH	9	35-950005-37AWL 4
		A35-950005-37M 2
Stack, RH	5	35-950005-39AWL 5
		A35-950005-39M 2
Stack, LH, High Performance	9	A35-950005-37HP 2 6
Stack, RH, High Performance	N/A	A35-950005-39HP 2 6
Tailpipe, LH, Angle Cut	N/A	A35-950005-61
	N/A	35-950005-61AWL
Tailpipe, RH, Angle Cut	N/A	A35-950005-57
	N/A	35-950005-57AWL
Tailpipe, LH, Straight Cut	8	A35-950005-11
		35-950005-11AWL
Tailpipe, RH, Straight Cut	7	A35-950005-9
		35-950005-9AWL

Notes:
1 Model 36 only
2 Models 36,A36 only
3 Inconel Cone
4 Riser 35-950005-43AWL required with purchase
5 Riser 35-950005-63AWL required with purchase
6 Must purchase both LH and RH exhaust collectors when upgrading to High Performance

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



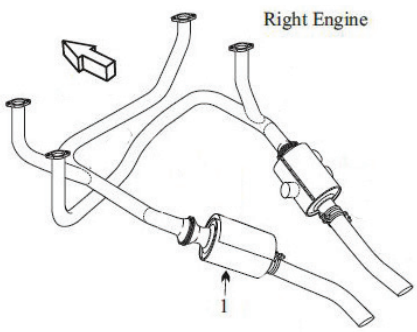


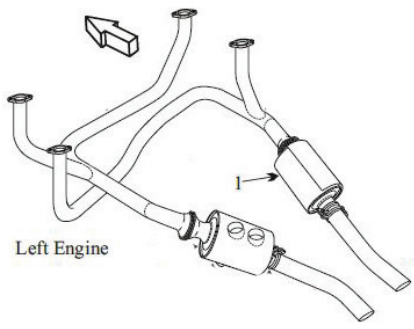
95,B95,B95A
S/N TD-2 thru TD-533

Description	Idx	Part Number
Muffler, Inboard	1	A189

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.





1900,1900C,D
S/N UA-2 thru UA-3
UB-1 thru UB-74
UC-1 thru UC-174
UD-1 thru UD-6
UE-1 thru UE-439

Description	Idx	Part Number
Stack, LH Inboard	N/A	118-950023-45AWL 1
Stack, RH Outboard	N/A	118-950023-47AWL 1
Stack, LH Inboard/RH Outboard	N/A	129-950020-11AWL 2
Stack, RH Inboard/LH Outboard	N/A	129-950000-15AWL 2
	N/A	118-950023-43AWL 1
Reinforcement Doubler	N/A	129-950033-1AWL

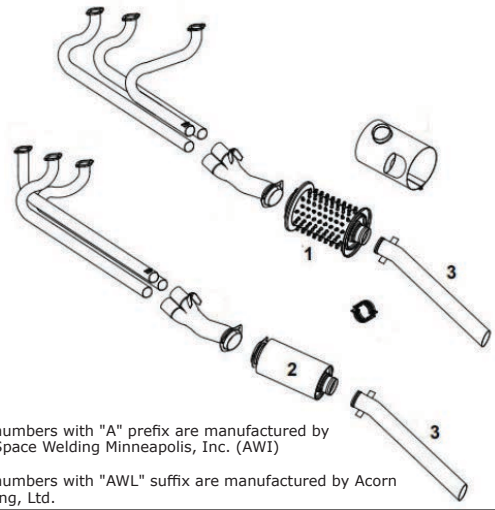
Notes:
1 Models 1900 S/N UA-3,1900C
2 Model 1900D only

Manufactured by Acorn Welding

Cirrus SR20
S/N 1423 and on

Description	Idx	Part Number
Heat Exchanger	1	A20559-002 [1]
		A20559-004 [3]
Muffler	2	A20560-001
Tailpipe	3	A20556-002 [2]

Notes:
[1] S/N 1423 thru 1885 only
[2] S/N 1424 and on only
[3] S/N 1886 and on only



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

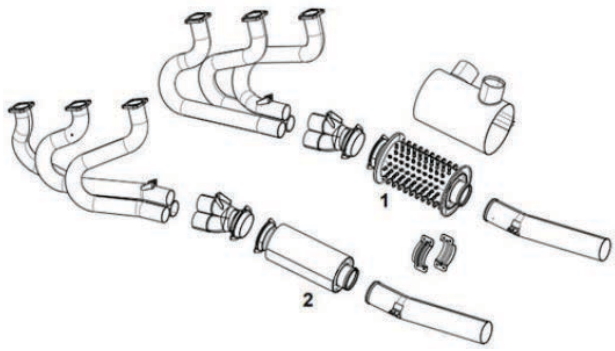
Cirrus SR22
S/N 0320 and on

Description	Idx	Part Number
Heat Exchanger	1	A14837-001 [1]
		A21892-001 [2]
Muffler	2	A14836-001

Notes:
[1] S/N 0320 thru 2437 only
[2] S/N 2437 and on only

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



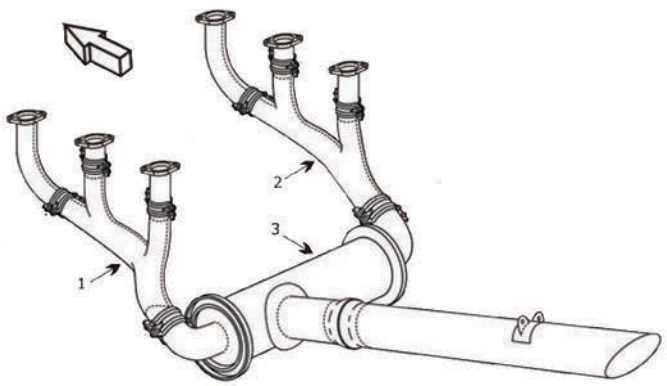
Robinson R44
S/N 0002 thru 9999

Description	Idx	Part Number
Collector, LH	1	C169-5AWL
Collector, RH	2	C169-6AWL
Muffler	3	C169-3AWL
	N/A	C169-32AWL [1]

Notes:
[1] Robinson R44 Raven II only

Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

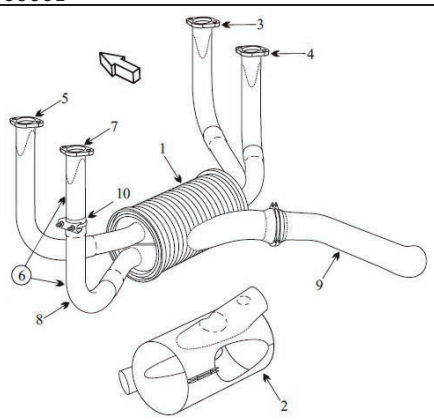
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



Mooney M20E
S/N 101 thru 469
470 thru 1308
21-0001 thru 21-1180
670001 thru 670062
690001 thru 690073
700001 thru 700061

Description	Idx	Part Number
Muffler	1	A630045-503 [1]
Riser, LH Aft	6	A630053-513 [1]
Riser, LH Aft Lower	8	A630053-015 [1]
Riser, LH Aft Upper	7	A630053-013 [1]
Riser, RH Aft	4	A630053-507 [1]
Riser, LH Fwd	5	A630053-509 [1]
Riser, RH Fwd	3	A630053-511 [1]
Tailpipe	9	A630056-501

Notes:
[1] S/N 101 thru 400,470 thru 1217,1219, 1221, 1223 thru 1308, 21-0001 thru 21-1180, 670001 thru 670062,690001 thru 90073, 700001 thru 700043, 700045 thru 700052, 700055 thru 700056,700060 thru 700061

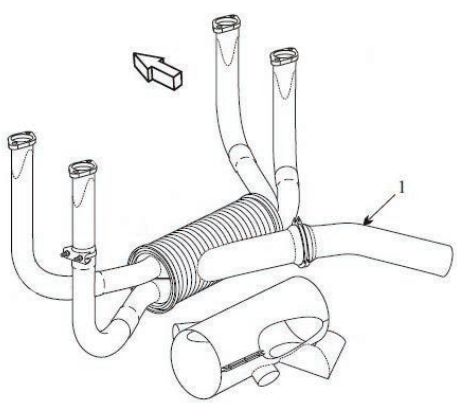


Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Mooney M20C,G
S/N 20-0001 thru 20-1258
2807 thru 3466
670001 thru 670149
680001 thru 680198
700001 thru 700091
680001 thru 680164

Description	Idx	Part Number
Tailpipe	1	A630066-000

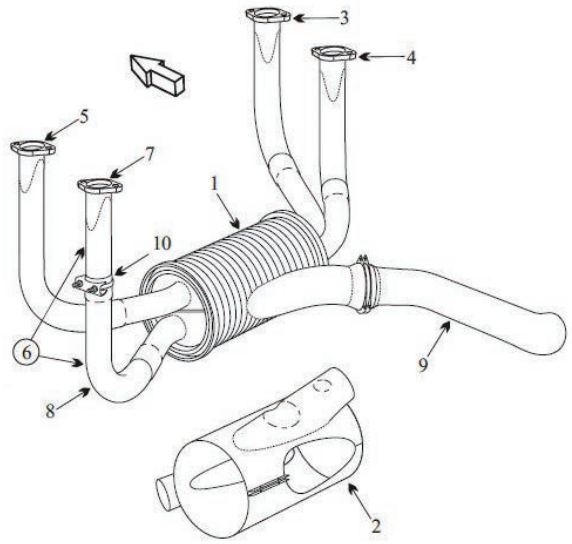


Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Mooney M20J
S/N 24-0002 thru 24-3431

Description	Idx	Part Number
Muffler	1	A630045-503
Riser, LH Aft	6	A630053-513
Riser, LH, Aft Lower	8	A630053-015
Riser, LH, Aft Upper	7	A630053-013
Riser, RH Aft	4	A630053-507
Riser, LH Fwd	5	A630053-509
Riser, RH Fwd	3	A630053-511
Tailpipe	9	A630056-501



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

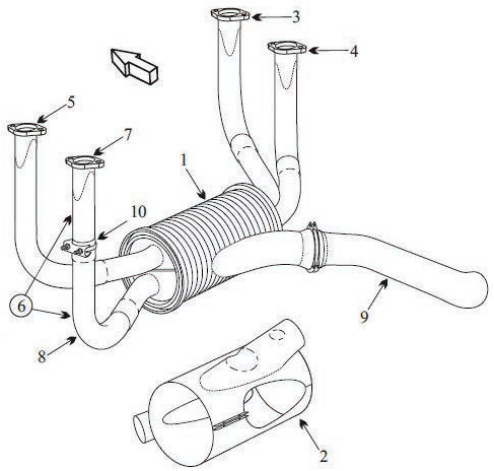
For the most up-to-date eligibility and product images, visit our website, or scan this code for direct access!

.../products/category/exhaust-system/

Mooney M20F
S/N 22-0001 thru 22-1439
660002 thru 660004
670001 thru 670539
680001 thru 680206
690001 thru 690092
700001 thru 700061

Description	Idx	Part Number
Muffler	1	A630045-503 [1]
Riser, LH Aft	6	A630053-513 [1]
Riser, LH Aft Lower	8	A630053-015 [1]
Riser, LH Aft Upper	7	A630053-013 [1]
Riser, RH Aft	4	A630053-507 [1]
Riser, LH Fwd	5	A630053-509 [1]
Riser, RH Fwd	3	A630053-511 [1]
Tailpipe	9	A630056-501

Notes:
[1] S/N 22-0001 thru 22-1439, 660002 thru 660004, 670001 thru 6700363, 670365 thru 670385, 670387 thru 670482, 670484 thru 670539, 680001 thru 680206, 690003 thru 690090, 690092, 700001 thru 700061, 700063 thru 700066, 700070 thru 700072



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Grumman AA-1,AA-1A,AA-1B,AA-1C,AA-5, AA-5A,AA-5B,GA-7
S/N AA1-0433 and On
AA1A-0001 and On
AA1B and On
AA1B-0601 and On
AA5-0001 and On
AA5A-0283 and On
AA5B-0001 and On

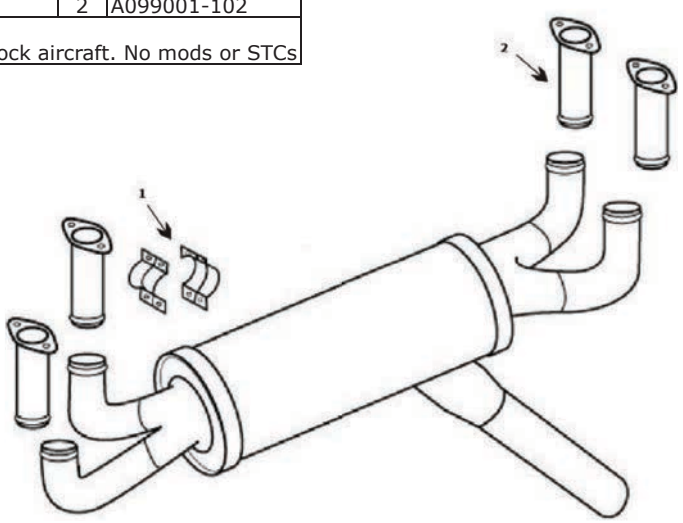
Description	Idx	Part Number
Clamp, w/hardware	1	A0750161-25 [3]
Riser, Curved	N/A	A099005-184 [2]
Riser, Straight	2	A099001-102 [1]

Notes:
[1] S/N AA1-0001 thru AA1-0459, AA1A-0001 thru AA1-0470, AA-1B All, AA-1C All, S/N AA5-0001 thru AA5-0640, AA-5A All, AA-5B All
[2] Model AA-5B Only
[3] Must be a stock aircraft. No mods or STCs.

Aero Commander 100-180
S/N 5001 and On

Description	Idx	Part Number
Clamp, w/hardware	1	A0750161-25 [1]
Riser, Straight	2	A099001-102

Notes:
[1] Must be a stock aircraft. No mods or STCs



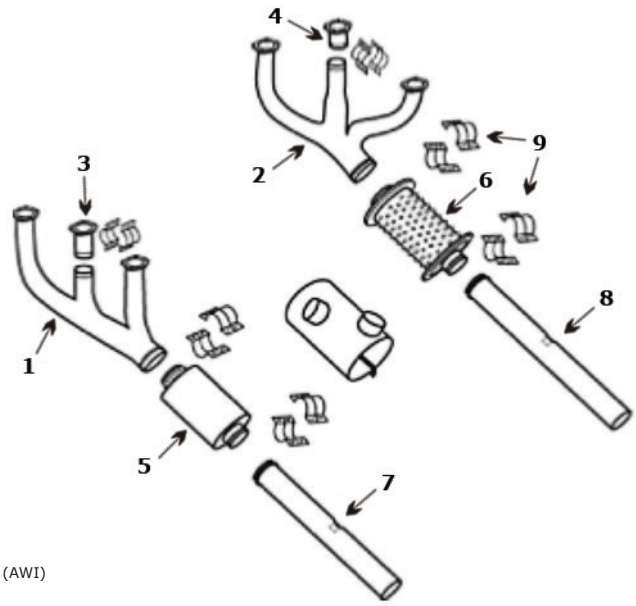
Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Navion (Army L-17A),Navion 16A,
Navion A,B,D,E,F,G,H
S/N NAV-4-2 and On
NAV-4-2B and On
NAV-4-2351G and On
NAV-4-2500T and On

Description	Idx	Part Number
Clamp, w/hardware	9	A35-950004-17
Muffler, LH	5	A701-4
Muffler, RH	6	A701-5
Stack, LH	1	A35-950005-37M
Stack, RH	2	A35-950005-39M
Stack, LH, High Performance	1	A35-950005-37HP [1]
Stack, RH, High Performance	2	A35-950005-39HP [1]
Tailpipe, LH, Angle Cut	8	A35-950005-61
Tailpipe, RH, Angle Cut	7	A35-950005-57
Tailpipe, LH, Straight Cut	8	A35-950005-11
Tailpipe, RH, Straight Cut	7	A35-950005-9

Notes:
[1] Must purchase both LH and RH exhaust collectors when upgrading to High Performance



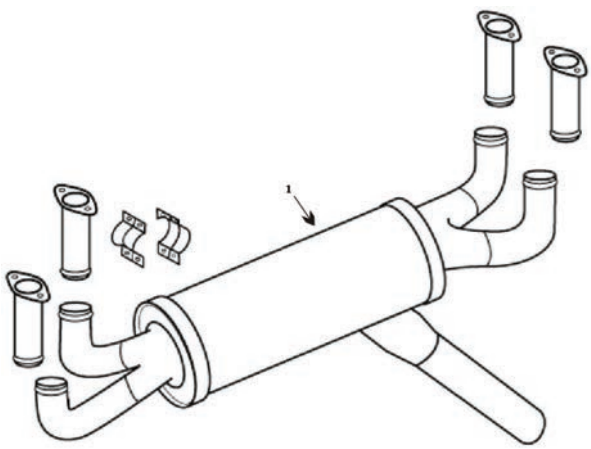
Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

Champion/Aeronca 7GC, 7HC, 7KC, 7GCA, 7GCB, 7ECA 7GCAA, 7GCBA, 7GCBC, 7KCAB, 8KCAB,
S/N All

Description	Idx	Part Number
Muffler	1	A099001-190 [1] [2]
Muffler Assembly		A3-1079
Muffler Assembly, Left w/ Extension		A3-1493L
Muffler Assembly, Right w/ Extension		A3-1493R

Notes:
[1] Models 7GCAA, 7GCBC, 7KCAB, and 8KCAB only
[2] Partial model eligibility. See our website for full eligibility



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

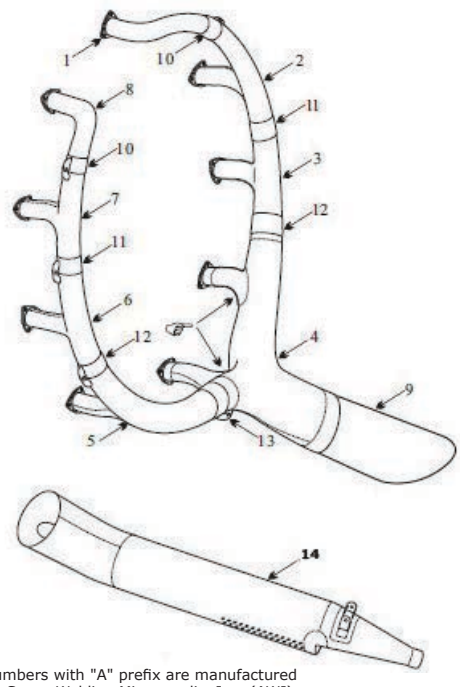
Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.

For the most up-to-date eligibility and product images, visit our website, or scan this code for direct access!

.../products/category/exhaust-system/

De Havilland DHC-2 Mk 1
S/N All

Description	Idx	Part Number
Cylinder #1, Exhaust Segment	1	C2EE243AWL
Cylinder #2, Exhaust Segment	2	C2EE245AWL
Cylinder #3, Exhaust Segment	3	C2EE247AWL
Cylinder #4/5, Exhaust Segment	4	C2EE249AWL
Cylinder #6, Exhaust Segment	5	C2EE251AWL
Cylinder #7, Exhaust Segment	6	C2EE253AWL
Cylinder #8, Exhaust Segment	7	C2EE255AWL
Cylinder #9, Exhaust Segment	8	C2EE257AWL
Extension Pipe	9	C2EE261AWL
Heater Pipe Assembly	14	C2EE281AWL
Sleeve, Cylinder #1/2/8/9	10	C2EE359AWL
Sleeve, Cylinder #2/3/7/8	11	C2EE363AWL
Sleeve, Cylinder #3/4/6/7	12	C2EE367AWL
Sleeve, Cylinder #5/6	13	C2EE371AWL



Part numbers with "A" prefix are manufactured by AeroSpace Welding Minneapolis, Inc. (AWI)

Part numbers with "AWL" suffix are manufactured by Acorn Welding, Ltd.



Fuel Selector and Fuel Shut-Off Valves For Cessna Aircraft

Buy a new FAA-PMA approved valve, or purchase an overhauled valve

Many valves are in stock and ready to ship!

- Overhauled by experienced technicians
- Cleaned, inspected and assembled with all fluorocarbon O-rings, seals, gaskets, hardware and parts as required
- "Return to Service" tag provided
- Pressure tested for leaks and evaluated for proper fuel flow
- McFarlane has FAA-PMA approval to use fluorocarbon O-rings





Repair Kits, Seal Kits, Gaskets, Fittings, O-rings, and Replacement Parts also available! See following pages.
Eligibility on the next page.

NEW

New FAA-PMA Fuel Valves at Realistic Prices!

Cessna 150, 152, 170, 172, 175, 177, 180, 182, 185, 190, and 195



Why not just repair my valve?

Many of the original valves have too much damage to be repaired cost-effectively. The original Cessna fuel valve that started in model 170 was a simple but ingenious cam ball design that has proven very reliable over the years. We have repaired a lot of these original Cessna valves, and we know them well. However, we are now rejecting a big percentage of the valve cores sent to us. A lot of them have corrosion damage in the main body that is too severe to fix, or the O-ring retention area is damaged and too rough to seal. Many of the fittings are corroded through. The cam bearing is brass and easily corrodes the aluminum alloy cam. Due to the poor condition of many original valves, McFarlane developed a totally new valve that was ***designed just like the original valve but with improvements where needed.***

Better Corrosion Resistance

McFarlane's new fuel valves are totally anodized where the original valves were Alodine® conversion coated. This change drastically improves the surface durability, wear resistance, and corrosion resistance of all the components! Corrosion protection is important since the valves are at the lowest point in the fuel system without any upstream water separation or contaminate screening. We have also eliminated the brass bushing that corrodes the cam.

Improved O-ring Retention

Modern machining processes lets us precision machine the O-ring capture cavity. The original valve O-rings were retained by staking (stamp forming) the housing. This process was inconsistent at best and distressed and weakened the surrounding aluminum structure.

More Balanced Fuel Flow

Yesterday's manual machining process of the original fuel valves were often inconsistent enough to let one port flow more fuel than needed while the other port might flow a very marginal amount of fuel. Our new and improved McFarlane valves are computer machined for a perfect balance of fuel flow.

You can rest assured that if it's our new McFarlane valve or repaired by us, it will be pressure and flow tested!
Now for more good news! All the improved parts in our new valve are ***interchangeable with the original Cessna valve.*** This means that if your valve is in good condition (with the exception of a few parts), we can fix it at a reasonable price! Whether you need your valve overhauled or a new valve, we will save you money.

Fuel Valve Repair Kits, Seal Kits, Gaskets, Fittings, and O-rings

Repair Kits
P/Ns FSO-KT-1 thru FSO-KT-24



- Contains all required hardware to reseal and perform a repair
- Seals, springs, O-rings, roll pins, washers, screws, balls and plug
- FSO-KT-1 for 0716613 series valves includes the parts contained in Cessna P/N 0716613-200 and -201 seal kits plus additional hardware required for a basic repair
- All parts are FAA approved or certified industry standard hardware.

Many Cessna Fuel Valves (including 0716613 series) require special tools and processes for reassembly.
It's often more cost effective to have McFarlane overhaul your valve.

Seal Kits
P/Ns FSS-KT-1 thru FSS-KT-20
Only McFarlane has FAA approval to replace old, less fuel resistant O-rings with the latest fuel-proof fluorocarbon O-rings!

- Includes all necessary O-rings and/or gaskets applicable to specific single engine Cessna aircraft models
- Replace old MS or NAS series O-rings with fluorocarbon for improved fuel and heat resistance
- Cork/Rubber gaskets meet tough government standards for fuel resistance

Gaskets, Fittings and O-rings



- Gaskets are available individually or as convenient kits
- O-rings are available in quantities of 10 each or as convenient kits!
- Commonly replaced AN fittings in stock!
- 45° plug P/N AN823-8D and 90° plug P/N MS20822-8D



Replacement Parts

- Complete line of replacement parts for Cessna fuel valves
- Detent plates, springs, plastic seals, cams and more in-stock!
- Common components for McFarlane and Cessna valves on following pages

Critical ordering tip: on models 172M and F172M, (S/Ns 17260759 thru 17267584, and F17200905 thru F17201514) before ordering, you should identify the detent housing style of your current fuel valve. Order either MC0513120-8 or MC0513120-200 based on the style installed on your aircraft.

MC0513120-8 *MC0513120-200*



Cessna Fuel Selector and Shut Off Valves and Kits

		Fuel Selector Valve			Fuel Shut-Off Valve		
Model	**Serial Number**	**McF P/N [5]**	**Seal Kit**	**Repair Kit**	**McF P/N [5]**	**Seal Kit**	**Repair Kit**
120,140	8001 thru 15075	0411716S, 08HD1/4X1/4X1S					
140A	15200 thru 15724	0413020-3S					
150[1]	17001 thru 17769				0411803-2S, 9851078-2 [3]		
150[1], 150A,B,C,D,E,F,G	17770 thru 15067198	MC9851078-4			0411803-5S 0411803-6S		
150H,J,K,L[1]	15067199 thru 15073658	MC9851078-4			0411803-6S		
150L[1],M[1]	15073659 thru 15078505	MC9851078-4			0411803-8S		
150M[1]	15078506 thru 15079405	MC9851070-2			9851070-2S	FSS-KT-1	FSO-KT-2
A150K,L[1]	A1500001 thru A1500342	MC9851078-4			0411803-6S		
A150L[1]	A1500343 thru A1500523	MC9851078-4			0411803-8S		
A150L[1],M[1]	A1500524 thru A1500684	MC9851078-4			0411803-8S		
A150M[1]	A1500685 thru A1500734	MC9851070-2			9851070-2S	FSS-KT-1	FSO-KT-2
A-A150L[1]	A-A1500001 thru A-A1500006				0411803-6S		
A-A150L[1]	A-A1500007 thru A-A1500009				0411803-8S		
F150F,G,H,J,K,L[1]	F150-0001 thru F15000863	MC9851078-4			0411803-6S		
F150L[1],M[1]	F15000864 thru F15001338	MC9851078-4			0411803-8S		
F150M[1]	F15001339 thru F15001428	MC9851070-2			9851070-2S	FSS-KT-1	FSO-KT-2
FA150K,L[1]	FA1500001 thru FA1500166	MC9851078-4			0411803-6S		
FA150L[1],M[1]	FA1500167 thru FA1500311	MC9851078-4			0411803-8S		
FA150M[1]	FA1500312 thru FA1500336	MC9851070-2			9851070-2S	FSS-KT-1	FSO-KT-2

[1] Partial model eligibility
[2] Use FSS-KT-3 and FSO-KT-8 if equipped with air conditioner
[3] Part number listed for reference only
[4] The detent housing type must be verified by our technician before purchasing exchange unit from our stock. Please call 888-624-3153.
[5] The "S", "SF" or "SP" suffix indicates a McFarlane repaired valve. The applicable Cessna part number is the McFarlane part number without the suffix. Reference the Cessna part number for all maintenance procedures.
[6] FSO-KT-4 only works with valve S1903-2S
[7] It is critical on model 172M, S/N 17260759 thru 17267584 that before ordering you identify the detent housing style your fuel valve has. See pictures at the top of the page.

MC prefix P/Ns will be a new McFarlane manufactured part

Eligibility continued on next page

Cessna Fuel Selector and Shut Off Valves and Kits continued from previous page

		Fuel Selector Valve			Fuel Shut-Off Valve		
Model	**Serial Number**	**McF P/N [5]**	**Seal Kit**	**Repair Kit**	**McF P/N [5]**	**Seal Kit**	**Repair Kit**
FRA150L[1]	FRA1500121 thru FRA1500166				0411803-6S		
FRA150L[1],M[1]	FRA1500167 thru FRA1500311				0411803-8S		
FRA150M[1]	FRA1500312 thru FRA1500336				9851070-2S	FSS-KT-1	FSO-KT-2
152/A152/ F152/FA152	All	MC9851070-2			9851070-2S	FSS-KT-1	FSO-KT-2
170[1]	18003 thru 18573	0511122S [3]					
	18574 thru 18729	0511160S					
170A,B[1]	18730 thru 20285	0413020-3S					
170B[1]	20286 thru 27169	MC0513120-5	FSS-KT-2	FSO-KT-17			
172, 172A,B,C	28000 thru 17249544	MC0513120-5	FSS-KT-2	FSO-KT-17			
172D,E	17249545 thru 17251822	MC0513120-6	FSS-KT-2	FSO-KT-17			
172F,G,H,I,K,L,M[1]	17251823 thru 17263458	MC0513120-8 [7]	FSS-KT-2	FSO-KT-17			
172M[1]	17263459 thru 17267584	MC0513120-200 [7]	FSS-KT-2	FSO-KT-17			
172N,P[1]	17267585 thru 17275034	9851067-4S	FSS-KT-5	FSO-KT-13			
172P[1], Q	17275035 thru 17276259	9851096-2S, 9851096-5S	FSS-KT-4 [2]	FSO-KT-7 [2]			
172P[1]	17276260 thru 17276654	9851096-5S	FSS-KT-4 [2]	FSO-KT-7 [2]			
172R,S	17280001 & On, 172S8001 & On	9851096-5S	FSS-KT-4	FSO-KT-7	S1903-2		
172RG[1]	172RG0001 thru 172RG0890	9851067-7S	FSS-KT-4	FSO-KT-15			
	172RG0891 thru 172RG1177	9851096-2S, 9851096-5S	FSS-KT-4	FSO-KT-7			
	172RG1178 thru 172RG1191	9851096-5S	FSS-KT-4	FSO-KT-7			
F172D,E	F172-0001 thru F172-0085	MC0513120-6	FSS-KT-2	FSO-KT-17			
F172F,G,H,K,L,M[1]	F172-0086 thru F17201234	MC0513120-8 [7]	FSS-KT-2	FSO-KT-17			
F172M[1]	F17201235 thru F17201514	MC0513120-200 [7]	FSS-KT-2	FSO-KT-17			
F172N,P[1]	F17201515 thru F17202134	9851067-4S	FSS-KT-5	FSO-KT-13			
F172P[1]	F17202135 thru F17202254	9851096-2S, 9851096-5S	FSS-KT-4 [2]	FSO-KT-7 [2]			
FR172E,F,G,H,J[1]	FR17200001 thru FR17200390	MC0513120-8	FSS-KT-2	FSO-KT-17	0716111-1SF	FSS-KT-16	FSO-KT-3
FR172J[1]	FR17200391 thru FR17200530	MC0513120-8	FSS-KT-2	FSO-KT-17	0716111-2S [3]		
FR172J[1]	FR17200531 thru FR17200590	MC0513120-200	FSS-KT-2	FSO-KT-17			
R172K, FR172K	All	MC0513120-200	FSS-KT-2	FSO-KT-17	0716109-1S	FSS-KT-17	FSO-KT-5
P172/FP172	All	MC0513120-6	FSS-KT-2	FSO-KT-17			
175, 175A,B	All	MC0513120-5	FSS-KT-2	FSO-KT-17			
175C	17557003 thru 17557119	MC0513120-6	FSS-KT-2	FSO-KT-17			
177,177A,B	All	MC0513120-9	FSS-KT-2	FSO-KT-17	S1903-1S	FSS-KT-16	FSO-KT-4
177RG[1]	177RG0001 thru 177RG0282				0716111-4S, S1903-2S	FSS-KT-16	FSO-KT-4 [6]
	177RG0283 thru 177RG0314	MC0716613-4	FSS-KT-18	FSO-KT-1			
	177RG0315 thru 177RG1051	MC0716613-5	FSS-KT-18	FSO-KT-1			
	177RG1052 thru 177RG1366	9851067-6S	FSS-KT-5	FSO-KT-13			
F177RG[1]	F177RG0001 thru F177RG0062				0716111-4S, S1903-2S	FSS-KT-16	FSO-KT-4 [6]
	F177RG0063 thru F177RG0077	MC0716613-4	FSS-KT-18	FSO-KT-1			

[1] Partial model eligibility
[2] Use FSS-KT-3 and FSO-KT-8 if equipped with air conditioner
[3] Part number listed for reference only
[4] The detent housing type must be verified by our technician before purchasing exchange unit from our stock. Please call 888-624-3153.
[5] The "S", "SF" or "SP" suffix indicates a McFarlane repaired valve. The applicable Cessna part number is the McFarlane part number without the suffix. Reference the Cessna part number for all maintenance procedures.
[6] FSO-KT-4 only works with valve S1903-2S
[7] It is critical on model 172M, S/N 17260759 thru 17267584 that before ordering you identify the detent housing style your fuel valve has. See pictures at the top of page 188.
[8] For aircraft flared threads use P/N 0716111-1SF. For aircraft with pipe threads use P/N 0716111-1SP

MC prefix P/Ns are new McFarlane manufactured parts

Eligibility continued on next page.

Cessna Fuel Selector and Shut Off Valves and Kits continued from previous page

		Fuel Selector Valve			Fuel Shut-Off Valve		
Model	**Serial Number**	**McF P/N [4]**	**Seal Kit**	**Repair Kit**	**McF P/N [4]**	**Seal Kit**	**Repair Kit**
F177RG[1]	F177RG0078 thru F177RG0160	MC0716613-5	FSS-KT-18	FSO-KT-1			
	F177RG0161 thru F177RG0177	9851067-6S	FSS-KT-5	FSO-KT-13			
	F177RG0161 thru F177RG0177	9851067-6S	FSS-KT-5	FSO-KT-13			
180,180A,B,C, D,E,F,G,H,J	All	MC0311070-1 ***New!***	FSS-KT-6	FSO-KT-16			
180K	18052771 thru 18053203	9851067-5S	FSS-KT-5	FSO-KT-13			
182,182A,B,C,D	All	MC0311070-1 ***New!***	FSS-KT-6	FSO-KT-16			
182E,F,G,H,J, K,L,M,N,P	18253599 thru 18265175	MC0716613-1	FSS-KT-18	FSO-KT-1			
182Q,R[1]	18265176 thru 18268055	9851067-5S	FSS-KT-5	FSO-KT-13			
182R[1]	18268056 thru 18268434	9851096-1S	FSS-KT-5	FSO-KT-6			
182R[1], 182S	18268435 and On	9851096-3S	FSS-KT-7	FSO-KT-9			
182T	18280945 thru 18299999	9851116-1S, 9851116-2S	FSS-KT-8	FSO-KT-23			
A182J,K,L,N[1]	A182-0001 thru A182-0148	0716613-1S	FSS-KT-18	FSO-KT-1			
F182P	F18200001 thru F18200025	MC0716613-1	FSS-KT-18	FSO-KT-1			
F182Q	F18200026 thru F18200169	9851067-5S	FSS-KT-5	FSO-KT-13			
FR182	FR18200001 thru FR18200070	9851067-4S	FSS-KT-5	FSO-KT-13			
R182[1],TR182[1]	R18200001 thru R18201798	9851067-4S	FSS-KT-5	FSO-KT-13			
	R18201799 thru R18201999	9851096-2S	FSS-KT-4	FSO-KT-7			
	R18201799 thru R18202041	9851096-5S	FSS-KT-4	FSO-KT-7			
T182[1]	18267716 thru 18268055	9851067-4S	FSS-KT-5	FSO-KT-13			
	18268056 thru 18268541	9851096-2S, 9851096-5S	FSS-KT-4	FSO-KT-7			
T182T	T18208001 thru T18299999	9851116-1S, 9851116-2S	FSS-KT-8	FSO-KT-23			
185, 185A[1]	185-0001 thru 185-0413				0716109-1S	FSS-KT-17	FSO-KT-25
185A[1]	185-0414 thru 185-0512	Fuel Valve Control P/N MCS1241-1			0716111-1S [8]	FSS-KT-16	FSO-KT-3
185B	185-0513 thru 185-0653	MC0716613-3	FSS-KT-18	FSO-KT-1	0716111-1S [8]	FSS-KT-16	FSO-KT-3
		Fuel Valve Control P/N MCS1241-1					
185C	All	MC0716613-3	FSS-KT-18	FSO-KT-1	0716111-1S [8]	FSS-KT-16	FSO-KT-3
185D,E, A185E[1]	185-0777 thru 185-1300	MC0716613-3	FSS-KT-18	FSO-KT-1	0716111-1S [8]	FSS-KT-16	FSO-KT-3
					Fuel Shut Off Control P/N MCS1241-1		
A185E[1]	18501301 thru 18501599	MC0716613-4	FSS-KT-18	FSO-KT-1	0716111-1S [8]	FSS-KT-16	FSO-KT-3
					Fuel Shut Off Control P/N MCS1241-27		
	18501600 thru 18501679	MC0716613-4	FSS-KT-18	FSO-KT-1	0716111-1S [8]	FSS-KT-16	FSO-KT-3
					Fuel Shut Off Control P/N MCS1241-34		
A185E[1], A185F[1]	18501680 thru 18502310	MC0716613-4	FSS-KT-18	FSO-KT-1	0716111-1S [8]	FSS-KT-16	FSO-KT-3
A185F[1]	18502311 thru 18503153	0716613-4S	FSS-KT-18	FSO-KT-1	0716111-1SP	FSS-KT-16	FSO-KT-3
	18503154 thru 18504328	9851067-5S	FSS-KT-5	FSO-KT-13	9851070-2S	FSS-KT-1	FSO-KT-2
	18504329 thru 18504424	9851096-1S	FSS-KT-5	FSO-KT-6	9851070-2S	FSS-KT-1	FSO-KT-2
	18504425 thru 18504448	9851096-4S	FSS-KT-5	FSO-KT-6	9851070-2S	FSS-KT-1	FSO-KT-2
188,188A,B, A188,A188A,A188B Without Wing Tanks	188-0001 thru 18802348				1616016-1S [3] 1H14-2S [3]		
A188 With Wing Tanks	188-0446 thru 188-0572				0716111-1S [8]	FSS-KT-16	FSO-KT-3
A188A[1], A188B[1] With Wing Tanks	18800573 thru 18802348				0716111-5S	FSS-KT-16	FSO-KT-3
A188B[1]	18802349 thru 18802745T				0716111-5S	FSS-KT-16	FSO-KT-3
A188B[1],T188C	18802746 thru 18803974T				9851070-2S	FSS-KT-1	FSO-KT-2

[1] Partial model eligibility
[2] Use FSS-KT-3 and FSO-KT-8 if equipped with air conditioner
[3] Part number listed for reference only
[4] The detent housing type must be verified by our technician before purchasing exchange unit from our stock. Please call 888-624-3153.
[5] The "S", "SF" or "SP" suffix indicates a McFarlane repaired valve. The applicable Cessna part number is the McFarlane part number without the suffix. Reference the Cessna part number for all maintenance procedures.
[6] FSO-KT-4 only works with valve S1903-2S
[7] It is critical on model 172M, S/N 17260759 thru 17267584 that before ordering you identify the detent housing style your fuel valve has. See pictures at the top of page 188.

MC prefix P/Ns are new McFarlane manufactured parts

Eligibility continued on next page.

Cessna Fuel Selector and Shut Off Valves and Kits continued from previous page

		Fuel Selector Valve			Fuel Shut-Off Valve		
Model	**Serial Number**	**McF P/N4**	**Seal Kit**	**Repair Kit**	**McF P/N4**	**Seal Kit**	**Repair Kit**
190, 195, 195A,B	All	MC0311070-1 ***New!***	FSS-KT-6	FSO-KT-16			
210-5 (205)1, 210-5A (205A)1	205-0001 thru 205-0550	1216405-1S	FSS-KT-10	FSO-KT-21			
210-5A (205A)1	205-0552 thru 205-0555	1216405-1S	FSS-KT-10	FSO-KT-21			
	205-0551, 205-0556 thru 205-0577	HE764S	FSS-KT-9	FSO-KT-24			
206/U206, U206A,B,C,D,E,F1	U206-0001 thru U20602199	C291503S	FSS-KT-11	FSO-KT-10			
TU206F1,G1, U206F1,G1	U20602200 thru U20605919	1216100-1S, C291503-0101S	FSS-KT-11	FSO-KT-11			
TU206A,B,C,D,E,F1	U206-0487 thru U20602199	C291503S	FSS-KT-11	FSO-KT-10			
TU206G1, U206G1	U20605920 thru U20606439	1216100-2S	FSS-KT-11	FSO-KT-11			
	U20606440 thru U20607020	1216100-1S	FSS-KT-11	FSO-KT-11			
P206,P206A,B,C,D,E	All	C291503S	FSS-KT-11	FSO-KT-10			
TP206A,B,C,D,E	All	C291503S	FSS-KT-11	FSO-KT-10			
206H,T206H	20608001 thru T20699999	9851096-5S	FSS-KT-4	FSO-KT-7			
207,T207, 207A1,T207A1	20700001 thru 20700654	1216100-1S, C291503-0101S	FSS-KT-11	FSO-KT-11			
207A1,T207A1	20700655 thru 20700729	1216100-2S	FSS-KT-11	FSO-KT-11			
	20700730 thru 20700788	1216100-1S	FSS-KT-11	FSO-KT-11			
210,210A	57001 thru 21057840	1216001-1S	FSS-KT-12	FSO-KT-12			
210B,C	21057841 thru 21058220	1216405-1S	FSS-KT-10	FSO-KT-21			
210D,E,F, T210F	All	HE764S	FSS-KT-9	FSO-KT-24			
210G,H,J	All	C291503S	FSS-KT-11	FSO-KT-10			
T210G,H,J	T210-0198 thru T210-0392	C291503S	FSS-KT-11	FSO-KT-10			
210K,L,M,N1, T210K,L,M,N1	21059200 thru 21064535	1216100-1S, C291503-0101S	FSS-KT-11	FSO-KT-11			
210N1,R/T210N1,R	21064536 thru 21065009	9851110-3S	FSS-KT-15	FSO-KT-22			
P210N1	P21000001 thru P21000760	1216100-1S, C291503-0101S	FSS-KT-11	FSO-KT-11			
P210N1,R	P21000761 thru P21000874	9851110-3S	FSS-KT-15	FSO-KT-22	0716111-4S		
310, 310B,C,D	35000 thru 39299	0855013-1S	FSS-KT-6	FSO-KT-18			
310F,G,H,I,J,J-1,K	310-0001 thru 310K0245	0855013-1S, 0855020-4S (Aux)	FSS-KT-6 FSS-KT-19	FSO-KT-18 FSO-KT-19			
320, 320-1, 320A,B,C	320-0001 thru 320C0073	0855013-1S 0855020-4S (Aux)	FSS-KT-6 FSS-KT-19	FSO-KT-18 FSO-KT-19			
320D	320D0001 thru 320D0130	0855020-5S	FSS-KT-20	FSO-KT-20			

1 Partial model eligibility
2 Use FSS-KT-3 and FSO-KT-8 if equipped with air conditioner.
3 Part number listed for reference only.
4 The detent housing type must be verified by our technician before purchasing exchange unit from our stock. Please call 888-624-3153.
5 The "S", "SF" or "SP" suffix indicates a McFarlane repaired valve. The applicable Cessna part number is the McFarlane part number without the suffix. Reference the Cessna part number for all maintenance procedures.
6 FSO-KT-4 only works with valve S1903-2S.
7 It is critical on model 172M, S/N 17260759 thru 17267584 that before ordering you identify the detent housing style your fuel valve has. See pictures at the top of page 188.

MC prefix P/Ns are new McFarlane manufactured parts





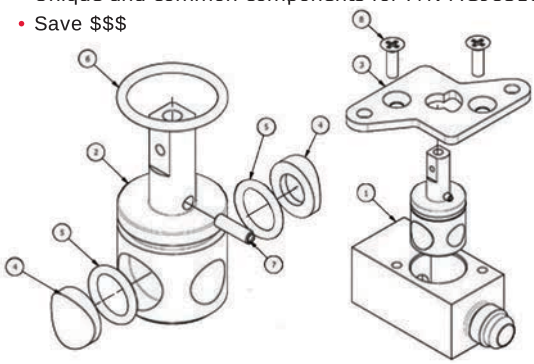
Maintenance Tip:
The fuel selector valve works in unscreened fuel. Contaminated fuel can cause valve seal damage. When fueling from possibly contaminated fuel sources McFarlane recommends the use of a fuel filter, such as Mr. Funnel or other filtering devices to reduce trash in the fuel system.
See page Tools and Maintenance section for details on Mr. Funnel.



Replacement Parts for 150-152 Fuel Selector Valves and 185 Shut-Off Valves

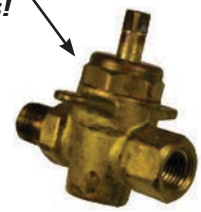
Replacement Parts for McFarlane and Cessna original 150, 152 and 185 Valves

- Cover, rotors, bodies, o-rings, roll pins, and seals in-stock!
- Unique and common components for P/N MC9851078-4 and MC9851070-2 below
- Save $$$





Replaces your old sticky brass valves!



Cessna 150[1], 150A,B,C,D,E,F,G,J,K,L,M[1]
Serial Number 17770 thru 15078505

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851078-4
Unique Components	Body #1	MC9851077-1
	Rotor #2	MC9851072-3
	Cover #3	MC9851092-2
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna 150M[1]
Serial Number 15078506 thru 15079405

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851070-2
Unique Components	Body #1	MC9851071-2
	Rotor #2	MC9851072-2
	Cover #3	MC9851074-1
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna A150K,L,M[1]
Serial Number A1500001 thru A1500684

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851078-4
Unique Components	Body #1	MC9851077-1
	Rotor #2	MC9851072-3
	Cover #3	MC9851092-2
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna A150M[1]
Serial Number A1500685 thru A1500734

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851070-2
Unique Components	Body #1	MC9851071-2
	Rotor #2	MC9851072-2
	Cover #3	MC9851074-1
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna F150F,G,H,J,K,L,M[1]
Serial Number F150-0001 thru F15001338

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851078-4
Unique Components	Body #1	MC9851077-1
	Rotor #2	MC9851072-3
	Cover #3	MC9851092-2
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

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Continued from previous column

Cessna F150M[1]
Serial Number F15001339 thru F15001428

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851070-2
Unique Components	Body #1	MC9851071-2
	Rotor #2	MC9851072-2
	Cover #3	MC9851074-1
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna FA150K,L[2],M[1][2]
Serial Number FA1500001 thru FA1500311

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851078-4
Unique Components	Body #1	MC9851077-1
	Rotor #2	MC9851072-3
	Cover #3	MC9851092-2
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna FA150M[1][2]
Serial Number FA1500312 thru FA1500336

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851070-2
Unique Components	Body #1	MC9851071-2
	Rotor #2	MC9851072-2
	Cover #3	MC9851074-1
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna 152/A152/F152/FA152
Serial Number All

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851070-2
Unique Components	Body #1	MC9851071-2
	Rotor #2	MC9851072-2
	Cover #3	MC9851074-1
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Cessna A185F
Serial Number 18403154 thru 18504448

Replacement Part		Part Number
Highest Assembly	Fuel Selector Valve	MC9851070-2
Unique Components	Body #1	MC9851071-2
	Rotor #2	MC9851072-2
	Cover #3	MC9851074-1
Common Components	Seal #4	MC9851073-2
	O-ring #5	MCM83248/1-011
	O-ring #6	MCM83248/1-016
	Roll Pin #7	MS16562-22

Notes:

[1] Partial model eligibility
[2] Includes aircraft equipped w/FKA150-2311 & FKA150-2316
[3] Indicates quantity of two per higher assembly

Replacement Parts for McFarlane Cessna Fuel Selector Valves

For McFarlane FAA-PMA Approved Fuel Valves for Cessna 170s, 180s, and 190s series aircraft

- Rotors, valves, springs, roll pins, screws, washers and more, ***all available today!***
- Unique and common components for McFarlane MC0513120-5, MC0513120-6, MC0513120-8, MC0513120-9, and MC0513120-200

Model	Serial Number	Highest Assembly Fuel Selector Valve	Highest Assembly Position Housing	Unique Components Fuel Outlet Fitting
170B[1]	20286 thru 27169	MC0513120-5	MC0513124-2	MC0513126
172, 172A,B,C	28000 thru 17249544	MC0513120-5	MC0513124-2	MC0513126
172D,E	17249545 thru 17251822	MC0513120-6	MC0513124-2	MC0513126-1
172F,G,H,I,K,L,M[1]	17251823 thru 17263458	MC0513120-8	MC0513124-3	MC0513126-1
172M[1]	17263459 thru 17267584	MC0513120-200	MC0516011-2	MC0513126-1
F172D,E	F172-0001 thru F172-0085	MC0513120-6	MC0513124-2	MC0513126-1
F172F,G,H,K,L,M[1]	F172-0086 thru F17201234	MC0513120-8	MC0513124-3	MC0513126-1
F172M [1]	F17201235 thru F17201514	MC0513120-200	MC0516011-2	MC0513126-1
FR172E,F,G,H,J[1]	FR17200001 thru FR17200530	MC0513120-8	MC0513124-3	MC0513126-1
	FR17200531 thru FR17200590	MC0513120-200	MC0516011-2	MC0513126-1
R172K, FR172K	All	MC0513120-200	MC0516011-2	MC0513126-1
P172, FP172	All	MC0513120-6	MC0513124-2	MC0513126-1
175, 175A,B	All	MC0513120-5	MC0513124-2	MC0513126
175C	All	MC0513120-6	MC0513124-2	MC0513126-1
177,177A,B	All	MC0513120-9	MC1716014-1	MC0513126-1
180, 180A,B,C,D,E,F,G,H,J	All	MC0311070-1 ***New!***	MC0513124-1D ***New!***	MC0511196-1 ***New!***
182, 182A,B,C,D	All	MC0311070-1 ***New!***	MC0513124-1D ***New!***	MC0511196-1 ***New!***
190, 195, 195A,B	All	MC0311070-1 ***New!***	MC0513124-1D ***New!***	
		MC0311070 ***New!***	MC0513124-1D ***New!***	

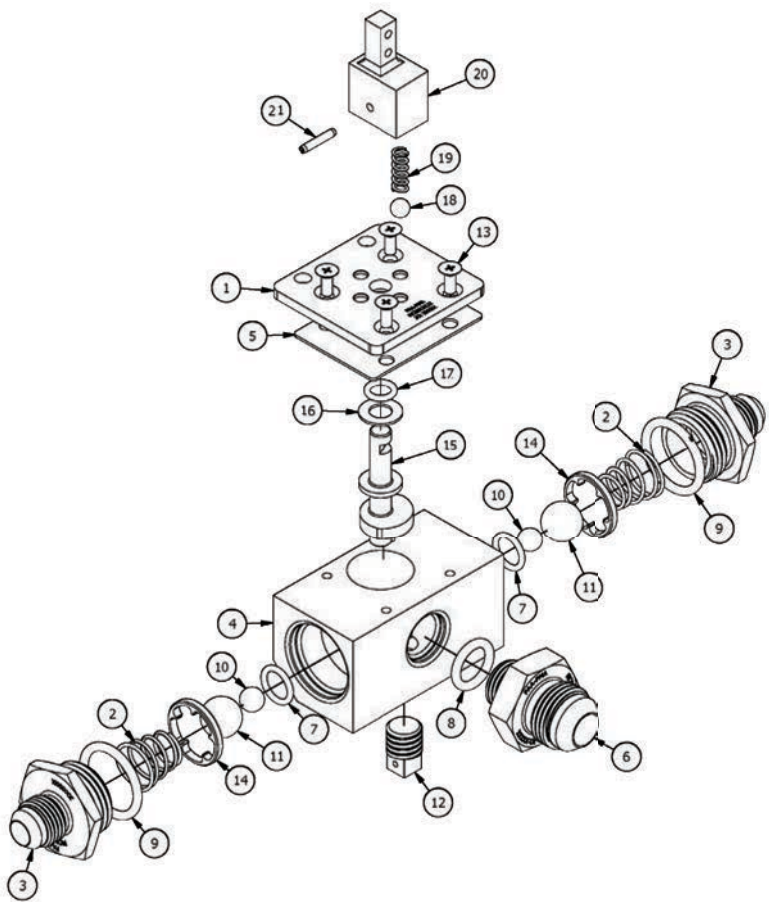
Notes:
[1] Partial model eligibility



Common Components and Quantities used on all models:

IPC Graphic	Description	Part Number	Qty Per Aircraft
1	Cover Plate	MC0513122	1
2	Valve Spring	MC0513120-2	2
3	Fuel Inlet Fitting	MC0513120-3	2
4	Valve Body	MC0513121	1
5	Cover Gasket	MC0513125	1
7	Valve O-ring	MCM83248/1-012	2
8	Outlet O-Ring	MCM83248/1-111	1
9	Inlet O-ring	MCM83248/1-116	2
10	Lifter Ball	MCS272-209	2
11	Valve Ball	MCS272-215	2
12	Drain Plug	MS20913-1D	1
13	Cover Screw	MS24693S25	4
14	Guide Insert	7715 [1]	2
15	Fuel Selector Cam	MC0513123	1
16	Thrust Washer	NAS1149C0432R	1
17	Cam O-ring	MS29513-010	1
18	Positioning Ball	MCS272-207	1
19	Positioning Spring	MC0513120-1	1
21	Roll Pin	MS16562-213	1

Notes:
[1] McFarlane fuel selector valves only



Replacement Parts for McFarlane Cessna Fuel Selector Valves continued

For McFarlane FAA-PMA Approved Fuel Valves for Cessna 177, 182 and 185 series aircraft

NEW

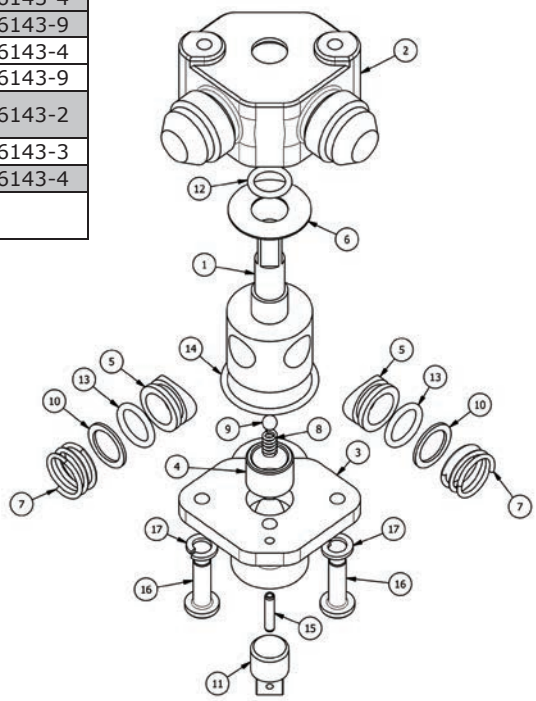
- Unique and common components for McFarlane MC0716613-1, MC0716613-3, MC0716613-4, and MC0716613-5
- In stock and affordable!

Model	Serial Number	Highest Assembly: Fuel Selector Valve	Unique Component: Rotor
177RG	177RG0283 thru 177RG0314	MC0716613-4	MC0716143-4
	177RG0315 thru 177RG1051	MC0716613-5	MC0716143-9
F177RG	F177RG0063 thru F177RG0077	MC0716613-4	MC0716143-4
	F177RG0078 thru F177RG0160	MC0716613-5	MC0716143-9
182E,F,G,H,J,K, L,M,N,P, F182P	All	MC0716613-1	MC0716143-2
185B,C,D,E, A185E[1]	185-0513 thru 185-1300	MC0716613-3	MC0716143-3
A185E[1],F	185-1301 thru 18502310	MC0716613-4	MC0716143-4

Notes:
[1] Partial model eligibility

IPC Graphic	Common components and quantities used on all models:	
2	1 Valve Body	MC0716144-1
3	1 Valve Sump	MC0716145-1
4	1 Valve Bushing	MC0716146-1
5	2 Rotor Seal	MC1216107-4
6	1 Thrust Washer	MCS1438-14
7	2 Valve Spring	MC1216110-4
8	1 Positioning Spring	MC1216110-5
9	1 Positioning Ball	MCS272-5
10	2 Seal Washer	MCS2385-4
11	1 Drain Plug	MS20913-1D
12	1 Upper Rotor O-Ring	MCM83248/1-012
13	2 Rotor Seal O-Ring	MCM83248/1-013
14	1 Lower Rotor O-ring	MCM83248/1-021
15	1 Roll Pin	MS16562-65
16	2 Screw	MS16562-63
17	2 Lock Washer	MS35338-43

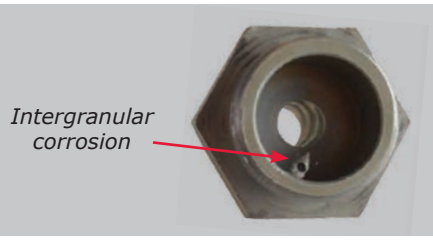




Fuel Valve Intergranular Corrosion

Intergranular Corrosion — Found During Fuel Valve Overhaul and Repair

Fuel Valves can produce intergranular corrosion, which occurs from a weakened area of the valve that was improperly heat treated during the manufacturing process. Over time, the area that was improperly heat treated is especially prone to corroding from the inside out. Once the corrosion hits the surface and exfoliates, leaking occurs and repair is needed. At that point, your Fuel Valve needs repaired. Intergranular corrosion is very common and often found in many valves during overhaul and repair.



Fuel Selector Valve Cam and Bearing for Cessna Aircraft

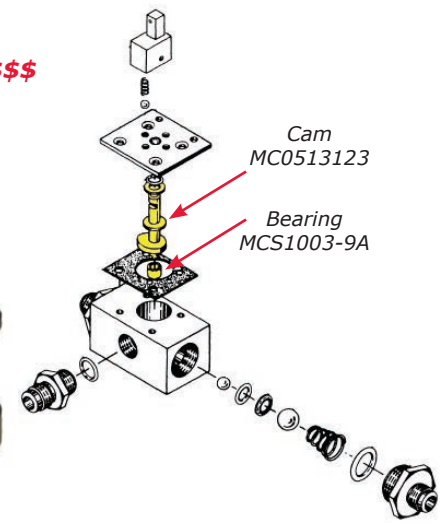
Improved corrosion protection with new aluminum bearing with the cam

- Anodized aluminum cam
- Aluminum bearing eliminates galvanic corrosion!
- Save $$$!

SAVE $$$

Aircraft	Cam MC0513123	Bearing MCS1003-9A
170B	•	
172, 172A,B,C,D,E, F,G,H,I,K,L	•	•
172M	•	•
F172D,E,F,G,H,K,L	•	•
F172M	•	•
FP172, P172D	•	•
R172E,F,G,H	•	•
R172K	•	•
FR172E,F,G,H	•	•
FR172J,K	•	•
175, 175A,B,C	•	•
177, 177A,B	•	•
180F,G,H,J		•





Fuel Valve for PA-28

P/N 491-947



Manufactured by Piper Aircraft, Inc.

Fuel & Hydraulic Pump Solutions

New, Overhaul Exchange, and Custom Pumps



Customer property overhauls for Dukes, Weldon, and Airborne



Fuel, Smoke, and Hydraulic Pump Solutions

McFarlane partnered with C J Aviation to better serve the aviation community

Together, McFarlane and C J Aviation offer new Fuel Pump assemblies, overhauled exchange Hydraulic Pumps, and repair services for Airborne, Dukes, and Weldon Fuel Pumps. With our expertise and quick turnaround, you'll pay less for superior work on overhauls, exhanges, repairs, and new assemblies.

- FAA-PMA and EASA approved assemblies and repair station
- Exchanges and overhauls available
- Most new assemblies ship same day!

For details on overhaul, exchange, and custom services, call 800-544-8594

C J Aviation

With over 30 years of experience, C J Aviation has expertise in Fuel Pumps, Hydraulic Pumps, and smoke systems. C J is also well-known for helping design fuel or smoke systems for experimental aircraft, including custom applications.

Fuel Pumps

Direct replacement for Dukes fuel pumps on Beech, Cessna, Diamond, Maule, Mooney, Piper, and more

- Two year warranty or 300 hours, whichever comes first
- Redesigned motor
- Tighter tolerances for longer seal life
- In stock! Most orders ship same day



Better, Stronger, Faster!

Aircraft	14 Volt P/N	28 Volt P/N
Beechcraft		
35-C33	4140-00-7NVCJ	
35-C33A	4140-00-39NVCJ	
36	4140-00-39NVCJ	1296-00-1NVCJ
	4258-00-15NVCJ	4613-00-3NVCJ
		4613-00-5NVCJ
A36, G36		4613-00-3NVCJ
		4613-00-5NVCJ
58		4404-00-7NVCJ
95-A55[24], 95-B55A, 95-B55B, 95-C55[25], 95-C55		4150-00-1NVCJ
95-B55		4404-00-7NVCJ [22]
		4150-00-1NVCJ [23]
D55, D55A		4150-00-1NVCJ
E33	4140-00-7NVCJ	
E33A, E33C	4140-00-39NVCJ	
E55		4404-00-7NVCJ [20]
		4150-00-1NVCJ
E55A		4150-00-1NVCJ
F33	4140-00-7NVCJ	
F33A, F33C	4140-00-39NVCJ	1296-00-1NVCJ
G33	4140-00-39NVCJ	
S35	4140-00-39NVCJ	
V35	4140-00-39NVCJ	1296-00-1NVCJ
V35A		1296-00-1NVCJ
Cessna		
172R,S		5100-00-4CJ
FR172E,F,G,H,J,K[1]	4140-00-17CJ [6]	
FR172K[1]		4140-00-15CJ [7]
R172K	4140-00-17CJ [8]	
		4140-00-15CJ [9]
177RG	4140-00-17CJ [10]	
		4140-00-15CJ [11]

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Aircraft	14 Volt P/N	28 Volt P/N
Cessna		
F177RG	4140-00-17CJ [12]	
R182, TR182[1]		4140-00-15CJ [13]
A188, A188A,B	4140-00-17CJ [3]	4140-00-15CJ [2]
206	4140-00-17CJ	
206H, T206H		4140-00-15CJ
P206, P206A,B,C, TP206A,B,C	4140-00-17CJ	
P206D,E, TP206D,E	4140-00-17CJ [18]	4140-00-15CJ
U206, U206A,B,C, TU206A,B,C	4140-00-17CJ	
U206D,E,F,G, TU206D,E,F,G	4140-00-17CJ [18]	4140-00-15CJ
207, 207A, T207, T207A	4140-00-17CJ [14]	
		4140-00-15CJ [15]
210D,E,F,G,H,J,K, T210K	4140-00-17CJ	
210L,M,N[1], T210L,M,N[1]		4140-00-15CJ [16]
P210N[1]		4140-00-15CJ [17]
T210F,G,H,J	4140-00-17CJ	
310, E310H,J, T310P,Q,R		4140-00-15CJ [2]
320, 320A,B,C,D,E,F		4140-00-15CJ [2]
340, 340A		4140-00-153CJ
		4140-00-15CJ
401, 401A,B, 402, 402A,B		4140-00-153CJ
		4140-00-15CJ
411, 411A		4140-00-153CJ
		4140-00-15CJ
414, 414A		4140-00-15CJ
421, 421A,B		4140-00-153CJ
		4140-00-15CJ

Continued on next page

Fuel Pumps continued from previous page

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Aircraft	**14 Volt P/N**	**28 Volt P/N**
Diamond		
DA 40, 40F, 42		5100-00-9CJ 19
Lake Aircraft (Revo)		
LA-4-200	4140-00-19ACJ	
Maule		
M-4	1184-00-3CJ	
	1471-00-3CJ	
	4140-00-57CJ 4	
M-4-180V, M-4-220	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
M-5-180C, M5-5-200	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
	4140-00-57CJ 4	
M-5-210C, M-5-210TC	4140-00-57CJ 4	
M-5-220C	1184-00-3CJ	
	1471-00-3CJ	
	4140-00-57CJ	
M-5-235C	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-57CJ 4	
	4140-00-400CJ	
M-6-180	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
M-6-235	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
M-7-235, M-7-235A,B,C, MT-7-235	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
M-7-260, M-7-260C, MT-7-260	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
M-7-420A, M-7-420AC	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
MT-7-420	4140-00-400CJ	4140-00-401CJ
Continued on next column		

Continued from previous column		
Aircraft	**14 Volt P/N**	**28 Volt P/N**
Maule continued		
MXT-7-160, MX-7-180, MXT-7-180, MX-7-180A, MXT-7-180A, MX-7-180AC,B,C, MX-7-235, M-8-235	1184-00-3CJ	4140-00-401CJ
	1471-00-3CJ	
	4140-00-400CJ	
Mooney		
M20D,E 1	4140-00-21ACJ	
M20E 1, F	4140-00-19ACJ	
M20G	4140-00-21ACJ	
M20J,K	4140-00-19ACJ	
Navion (Sierra Hotel Aero)		
H 5	4140-00-17NCJ	
Piper		
PA-24-250 PA-24-260 21	4140-00-218CJ	

1 Partial model eligibility
2 When originally equipped with Dukes P/N 4140-00-15 or P/N C291504-0201
3 When originally equipped with Dukes P/N 4140-00-17 or P/N C291504-0101
4 When equipped with Franklin 6A-300 series engine
5 When equipped with IO-520-B or IO-520-BA engine
6 S/N FR172-0001 thru F17200620
7 S/N FR17200621 and On
8 S/N R1722000 thru R1722724
9 S/N R1722725 and On
10 S/N 177RG0283 thru 177RG1266
11 S/N 177RG1267 and On
12 S/N F177RG0063 thru F177RG0177
13 S/N R18200584 thru R18201628
14 S/N 20700001 thru 20700414
15 S/N 20700228 and On
16 S/N 21059503 thru 21064535
17 S/N P21000001 thru P21000760
18 When equipped with aux. fuel pumps on the LH and RH firewall locations
19 If used by a flight school warranty is void
20 S/N TE-768 thru TE-942 only
21 S/N 24-3642 thru 24-5034 except 24-3643-24-3999
22 S/N TC-502 thru TC-1607
23 S/N TC-1608 thru TC-2456
24 All serial numbers except TC-350 and TC-371
25 All serial numbers except TE-50



Cross Reference

Dukes to C J Aviation / TAT Conversion 1

Dukes P/N	CJ P/N	TAT Conversion P/N
1184-00-1 and 1184-00-3	1184-00-3CJ	1296-00-1NVCJ-TAT
1296-00-1NV	1296-00-1NVCJ	4140-00-39NVCJ-TAT
1471-00-1 and 1471-00-3	1471-00-3CJ	4258-00-15NVCJ-TAT
4140-00-7 and 4140-00-7NV	4140-00-7NVCJ	4613-00-3NVCJ-TAT
4140-00-15	4140-00-15CJ	4613-00-5NVCJ-TAT
4140-00-17	4140-00-17CJ	
4140-00-17N	4140-00-17NCJ	
4140-00-19A	4140-00-19ACJ	
4140-00-21A	4140-00-21ACJ	
4140-00-39NV	4140-00-39NVCJ	
4140-00-57	4140-00-57CJ	
4140-00-153	4140-00-153CJ	
4258-22-15NV	4258-00-15NVCJ	
4404-00-7NV	4404-00-7NVCJ	
4613-00-3 and 4613-00-3NV	4613-00-3NVCJ	
4613-00-5 and 4613-00-5NV	4613-00-5NVCJ	
5100-00-1, 5100-3, and 5100-00-4	5100-00-4CJ	
5100-00-9	5100-00-9NC	
5140-00-400	4140-00-400CJ	
4140-00-401	4140-00-401CJ	

Do you have a TAT conversion?

1 Tornado Alley Turbo Conversions

C J Aviation has approved Fuel Pumps for Tornado Alley Turbo Conversions. These pumps run three PSI more than the standard pumps on average. The TAT conversions require more fuel as they are both a tuned system and put out more power.

Overhauled Fuel Pumps

Overhauled Fuel Pumps are available for certified and experimental aircraft with exchanges on Airborne, Dukes and Weldon pumps. Quick turnaround with same day shipping on standard Fuel Pump part numbers. ***Call for details.***

Dukes		Weldon						
14 Volt P/N	28 Volt P/N	JA Style Lip Seal	J Style Lip Seal	J Style Face Seal	JC Style Lip Seal	JC Style Face Seal	JL Style Lip Seal	L Style
1171-00-1NV	1296-00-1NV	A8120-B	33959-2	900107	8150-B	A8150-B	10054-A	10024-B
1184-00-3	1500-00-31	A8120-C	33959-3	269A8304-19	8152-B	A8150-B1	10054-B	10028-A
1458-00-1	1500-00-35	A8120-D	481-766	269A8304-21	8153-C	A8152-B	10062-B	42113-5
1471-00-3	1500-00-38	A8121-B	481-780	461-758	8154-A	A8153-B	A10050-C	42113-6
1499-00-19	1817-00-1NV	A8122-A	8007-B	8018-A	8154-B	A8153-C	A10050-D	48885-2
1499-00-21	4140-00-111		8008-C	8027-C	8157-B	A8159-A	A10051-D	53050-2
1816-00-1NV	4140-00-15		8009-A	A8007-B	8158-A	A8160-B	A10053-A	A10008-F
4140-00-103NV	4140-00-153		8009-B	A8008-D	8158-B	A8160-D	A10053-B	A10009-F
4140-00-11NV	4140-00-400		8010-A	A8016-B	8159-A	A8163-A	A10055-B	A10009.1-A
4140-00-17	4140-00-401		8016-B	A8016-B1	8160-B	A8163-A1	A10056-B	A10009.1-B
4140-00-17N	4140-00-47		8017-A	A8017-A	8163-A	A8163-B	A10063-A	A10014-D
4140-00-19A	4140-00NV		8115-B	A8019-A	8163-B	A8164-A		A10014-D40
4140-00-19B	4404-00-7NV		8116-B	A8020-A	8164-A	A8168-A		A10014-D42
4140-00-1NV	4613-00-3NV		8120-G	A8020-B	8168-A	A8170-A		A10014-D44
4140-00-218	4613-00-5NV		8120-H	A8123-H	8169-A	A8171-A		A10014-E
4140-00-21A	5100-00-4		8120-J	A8127-A	8170-A	A8172-A		A10017-C
4140-00-39NV	5100-00-9		8120-K	A8127-B	8171-B	A8174-B		A10019-C
4140-00-57	5217-00-1R		8120-L	A8136-B	8172-A	A8176-B		A10019-D
4140-00-7NV	5217-00-3 1		8120-M	A8148-A	8174-A	A8177-A		A10019-E
4258-00-15NV			8123-H	A8148-B	8174-B	A8177-B		A10019-E1
5367-00-1			8136-B	B8009-A	8175-A	A8178-A		A10057-B
			8140-B	B8009-B	8175-B	A8178-B		B10000-F
			A8009-A	B8110-F	8176-B	A8179-A		B10000-F1
			A8009-B	B8110-G	8177-A	A8181-A		B10003-F
			A8110-C	B8118-A	8177-B	A8183-A		B10007-D
			A8110-F	B8120-G	8178-A	A8184-A		B10010-F
			A8110-G	B8120-H	8178-B	A8185-B		B10010-FW
			AA8001-G	B8120-J	8179-A	A8186-B		B10014-E
			AA8001-H	B8120-K	8180-B	A8188-B		B10014-F
			B8001-G	B8120-M	8190-B	A8189-B		TA1-23-84
			B8001-H	C8009-A		A8250-B		
			B8103-F	C8009-B		C8187-B		
			C8100-E	D8100-E		MY103-280		
			C8100-F	D8100-F				
			C8100-L					

1 When ordering, please specify which Cirrus model this is for.

FAA and EASA approved certified repair station





Fuel Pumps for Piper Aircraft

Save over $400 off OEM List! PMA approved

More dependable and uses less current than old breaker point pumps!

- Unconditional one year warranty
- Internal check valve to prevent backflow
- Replacement filter kit P/N CA42370 available for each fuel pump



P/N CA62220-004

Not approved for use in fuel injection aircraft

Aircraft Model	Replaces OEM P/N	Part Number
PA23, PA-23-150,160,235,250, PA-23-250 (6 place) 3 4, PA24, PA-24-180,250,260 5, PA-28-140,150,151,160,161 3,180, PA-28-181 6 3, PA-38-112	35328-800, 481-666 (STC)	CA35328-800E 1
PA-28-161 7, PA-28-181 8 9	62220-004	CA62220-004
PA-28-235,236, PA-32-260, PA-44-180 2	65628-800 (STC)	CA65628-800E

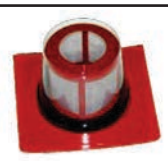
1 Use STC SA02410AT
2 With STC SA02579AT installed
3 For 14V electrical systems only
4 S/N 27-1 thru 27-2504
5 S/N 24-3642, 24-4000 thru 24-4782, and 24-4781 thru 24-4803
6 S/N 28-7690001 thru 28-7990626, and 28-8090001 and on
7 S/N 2816110 thru 2816119, and 2842001 and on
8 S/N 2890206 thru 2890231, 2843001 thru 2843820, 2843822 thru 2843851 and 2843853 and on
9 With Lycoming O-360-A4M engine

Mfg by PMA Products

Fuel Filter and Gasket Kit

P/N CA42370

Replacement filter and gasket for electric fuel pumps



Beechcraft
100, A100, 200 1, 200C 2, 200T 3, 95-55, 95-A55, 95-B55, 95-C55, D55, E55, 56TC, A56TC, 58, 58P,TC, 60, A60, B60, A65, 70, 65-B80, E90, F90 4, 99, 99A, A99A, B99, C99, T-34C
Cessna
310Q,R, 335, 340, 340A, 401B, 402B, 402C, 404, 414, 414A, 421B, 425, 441, 525, 560, 650
Piper
PA-23, PA-23-160,235,250 7 12, PA-24, PA-24-250,260 5, PA-28-140,150, PA-28-151,160,161 12, PA-28-180,181 6 12, PA-28-235 8,236 9, PA-32-260 10, PA-38-112, PA-44-180 11

Notes:

1 S/N BB-2 thru BB-665
2 S/N BL-1 thru BL-9
3 S/N BT-1 thru BT-16
4 S/N LA-2 thru LA-56
5 S/N 24-3642, and 4784 thru 4803
6 S/N 28-7690001 thru 28-79906226, and 28-8090001 and on
7 S/N 27-1 thru 27-2504
8 S/N 28-10003 thru 28-11393, and 28-7110001 and on
9 S/N 2811001 thru 2811041, and 28-7911001 and on
10 S/N 32-1 thru 32-1320
11 S/N 44-7995001 thru 4495013
12 For 14V electrical systems only

Not for use in other style fuel pumps.

Mfg by PMA Products

Fuel Pumps

FAA-PMA for Lycoming or Continental engines

- Save $$$
- High quality and long service life
- Fuel Pumps for aircraft equipped with RAJAY turbochargers are available!



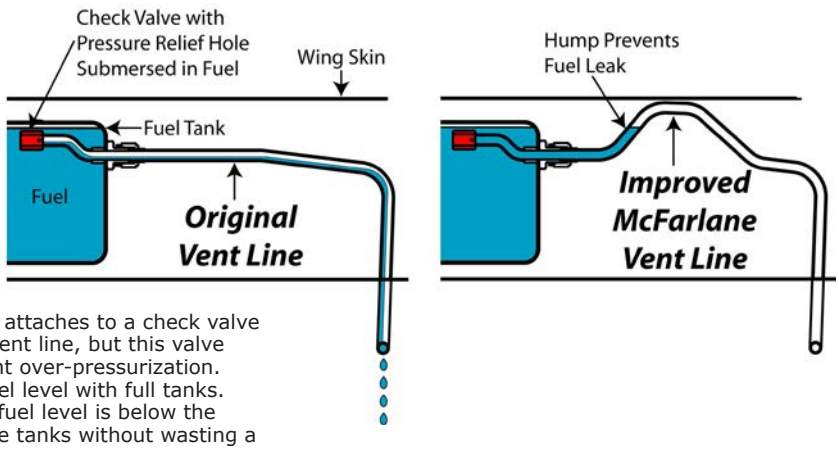
For full aircraft eligibility, enter your aircraft model on our website. Scan this code!

.../products/category/firewall-forward-pneumatic-system/

Fuel Vent Lines for Cessna Aircraft

Stops fuel waste!

- Stops asphalt damage and environmental damage
- Extends useful range
- Pays for itself quickly with the price of fuel!
- Adds value to your airplane
- FAA-PMA direct replacement, no STC or 337 form needed



The fuel vent line on most Cessna single engine aircraft attaches to a check valve inside the tank to prevent fuel from flowing out of the vent line, but this valve has a weep hole that allows some fuel to pass to prevent over-pressurization. Unfortunately, this weep hole is much lower than the fuel level with full tanks. Fuel will continuously leak out of the vent line until the fuel level is below the weep hole. With the original vent line, you cannot fill the tanks without wasting a lot of fuel.

The Cessna legacy aircraft also have a tank interconnect vent line that allows fuel from both tanks to leak out of the vent. When parked on an unlevel surface, the fuel loss from these aircraft can be many gallons.

McFarlane has solved these problems with a redesigned vent line featuring a unique hump that extends above the top of the tank. Some fuel can still escape through the weep hole and out the vent to prevent over-pressurization. However, once the pressure is relieved, the tanks will remain full.

Convenient Kits and Components

Kits containing a new connection hose (where required), P/N MCS1495-8 and rubber grommet, P/N MS35489-14 are also available where applicable. Just add a "K" suffix to the part numbers listed below. Rubber tubing sold by the foot is available by ordering P/N R221485.



Installation Tip:
Access to loosen or tighten the vent line in most of the Cessna aircraft is very tight because the tube flare nut ("B" nut) sits partway in the wing rib. However, with the correct wrench, you can loosen the nut from the under-wing inspection holes without removing the top tank access skin. The fitting in the tank has indexing flats and won't normally rotate while the tube flare nut is being loosened and re-tightened for the new line. Use caution in starting the nut as the Cessna tank fitting is a welded assembly with soft aluminum. Be sure not to cross-thread or over tighten the nut as you can easily strip the threads on this fitting.

		Standard Range Tanks		Extended Range Tanks	
Aircraft Model	**Serial Number**	**Left**	**Right**	**Left**	**Right**
150, 150A	All	MC0400311-119 3 2		MC0400311-121 3 2	
150B,C,D,E,F,G,H,J,K, L,M,F150F,G,H,J,K,L,M	All	MC0400311-119		MC0400311-121	
A150K,L,M, FA150K,L, M, FRA150L,M	All	MC0400311-120			
152, F152	All	MC0400311-119		MC0400311-121	
A152, FA152	All	MC0400311-120			
172, 172A,B,C	All	MC0523559-8 3 2			
172D,E,F,G,H,I		MC0523559-8			
172K,L,M 1	17257162 thru 17260805	MC0523559-8		MC0523559-6	
172M 1 ,N	17260806 thru 17274009	MC0523559-12		MC0523559-11	
172P	All	MC0523559-12 MC0523098-1 Integral Cell		MC0523559-11	
172Q	All	MC0523559-11 MC0523098-1 Integral Cell			
172RG	All	MC0523098-1			
F172D,E,F,G,H 1	F172-0001 thru F172-0561	MC0523559-8			
F172H 1 ,K,L	F172-0560 thru F17200904	MC0523559-8		MC0523559-6	
F172M 1	F17200905 thru F17201234	MC0523559-12			
F172M 1 ,N	F17201235 thru F17202254	MC0523559-12		MC0523559-11	

Eligibility continued on next page

Fuel Vent Lines for Cessna Aircraft continued from previous page



		Standard Range Tanks		Extended Range Tanks	
Aircraft Model	**Serial Number**	**Left**	**Right**	**Left**	**Right**
FP172	All	MC0523559-6			
FR172J,K	All	MC0523559-11 MC0523098-1 Integral Cell			
P172D	All	MC0523559-6			
R172K	All	MC0523559-11 MC0523098-1 Integral Cell			
175, 175A,B,C		MC0523559-6 3 2			
180 1	32488 thru 32661	MC0716122 Only for use with Service Kit SK180-6			
180A,B,C,D	All	MC0716127-1			
180E,F	All	MC0716127-1	MC0716127-2 4	MC1200106-51	MC1200106-52
180G,H,J,K 1	18051313 thru 18053000	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
180K 1	18053001 thru 18053203	MC1200106-266	MC1200106-267		
182	All	MC0716122			
182A,B,C,D	All	MC0716127-1			
182E,F,G,H,J, K,L,M,N,P,Q 1	18253599 thru 18266590	MC0716127-1		MC1200106-51	
182Q 1,R,S,T	18266591 thru 18299999	MC1200106-266	MC1200106-267		
F182P,Q 1	F18200001 thru F18200094	MC0716127-1		MC1200106-51	
F182Q 1	F18200095 thru F18200169	MC1200106-266	MC1200106-267		
FR182 1	FR18200001 thru FR18200020	MC0716127-1		MC1200106-51	
FR182 1	FR18200021 thru FR18200070	MC1200106-266	MC1200106-267		
R182 1	R18200001 thru R18200583	MC0716127-1		MC1200106-51	
R182 1,TR182 1	R18200584 thru R18202041	MC1200106-266	MC1200106-267		
T182,T182T	All	MC1200106-266	MC1200106-267		
185, 185A,B,C,D,E, A185E,A185F 1	185-0001 thru 18503683	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
A185F 1	18503684 thru 18504448	MC1200106-266	MC1200106-267		
210-5 (205), 210-5A (205A)	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
206,P206, P206A,B,C, D,E, TP206A,B,C,D,E TU206A,B,C,D,E,F,G U206, A,B,C,D,E,F,G	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
206H,T206H	All	MC1200106-266	MC1200106-267		
207,207A,T207,T207A	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
210,210A,B,C,D,E,F T210F	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52

1 Partial model eligibility
2 These aircraft originally used ¼" vent lines, however they may be upgraded to a ⅜" vent line with installation of P/N 0523552-2 vent assembly per the applicable IPC. The indicated McFarlane vent lines are only eligible for use with the upgraded vent assembly.
3 Only for use with Cessna vent assembly 0523552-2
4 Not used with 0726001-16 RH Standard Fuel Tank

Fuel Injection/Hydraulic/Oxygen Line Union Cone

P/N AN800C2-MOD

Improved Design! These braze-on 316 stainless fittings are an improvement over AN800C2 fittings commonly used on 1/8" stainless steel fuel injection, hydraulic and oxygen lines.

Improvements include:

- Witness hole to assure complete braze penetration
- Closer tolerance ID (0.131" - 0.133") to assure compatibility with close tolerance MIL-T-8504/ASTM A632 stainless steel tubing. The precision ID provides ideal clearance for proper braze penetration.

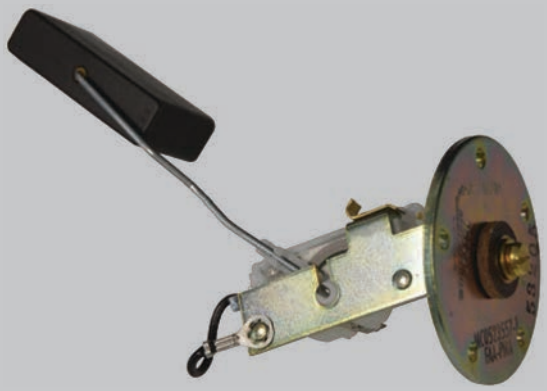


Note: Although similar, these parts are not manufactured/certified to AN800 specs. Fittings certified to AN800 are available upon request.

Electricity in the Fuel Tank

Is it Safe?

By Dave McFarlane



Have you ever thought about those fuel quantity transmitters in your fuel tank? Just how much electricity go through them anyway? Is there any chance of a spark? Could they touch off an explosion? Could they be improved? How do they fail? These are some of the questions we had when we started to develop new FAA- PMA replacement fuel transmitters for the Cessna single engine airplanes. What we found out was quite shocking.

The first things we did were to review the aircraft electrical schematics for the fuel quantity system and dissect several fuel gauges. A fuel indicating circuit was analyzed while it was working. Then we collected a lot of transmitters that were removed from service and a few new ones. Some of them still worked and some were obviously bad. After disassembly, the transmitter failure modes and defects were noted with the most common electrical defect being actual wear failure of the stainless-steel wire that is wound around a phenolic (laminated plastic) insulator board making up the variable resistor.

One particular defective transmitter caught our attention. The phenolic board was charred and discolored. This clearly indicated the stainless-steel resistor wires had been HOT! How did it get hot? There were no signs of external heat in the transmitter

"This clearly indicated the stainless-steel resistor wires had been HOT!"

housing or flange that would indicate external heat or fire.

Looking at and smelling this transmitter took me back twenty five years to when I ran a repair shop in Iowa. A customer brought in an almost new Cessna Agwagon that had an alternator run away due to a shorted field wire near the alternator. Before the pilot could shut down the master switch, the 28-volt system fried all the electrical components that were turned on at the time and the electrical instruments were brown and filled with smoke. I remember that the over-voltage had also damaged the fuel transmitters. An over-voltage might explain our one hot transmitter, but Fred McClenahan, our design engineer, and I were not convinced that was the only possibility.

In the normal operating mode, there are only a few milliamps of current flowing through the fuel transmitter to ground. Buss (battery or alternator) voltage is put into the fuel quantity indicator where the fine wire instrument coils reduce the voltage going to the transmitter. The voltage and related amp flow is very small as it goes through the transmitter to the grounded fuel tank. The chance of a spark at the point of contact of the transmitter's resistor wiper arm on the stainless-steel wire is very remote. The amp flow through the stainless steel resistive wire is so small it does not generate heat. But what happens when a malfunction occurs that would put full buss voltage directly to the transmitter? We were about to find out. Not having enough available amp power with our lab power supply, we took a good transmitter outside and lifted the hood on the company truck where we had the brute strength of a seven hundred amp Sears Die Hard®. We held the transmitter flange on the negative battery post and put a jumper wire from the positive post to the transmitter wire terminal. What I saw sent a cold chill down my spine. After a few seconds, the transmitter started to emit smoke and the stainless-steel resistor wire began to glow red hot!

Our certification tests proved that it will take the vibration and other abuses of the aircraft environment. Analyzing what this means, we determined if you had a short in the transmitter wire as it goes up the aircraft door post and this wire was shorted to another buss voltage wire, let's say the navigation light wire, you would have the same situation as we had under the Ford hood. The only difference would be that the smoke and red hot wire would be in your gas tank just before dark and maybe at six thousand feet. Another possibility for this type of failure would be if the wire going to the fuel quantity indicator was to touch the wire leaving the fuel quantity indicator, shorting buss voltage to the normally low voltage transmitter wire. If a mechanic was to accidentally short the transmitter wire to buss voltage, he better yell "IGNITION" and clear the hangar because he just switched on the fuel tank glow plug!



Why haven't we seen a lot of single engine airplanes with fuel tank fires or blown off wings? I guess it says a lot for the wiring reliability designed into our light aircraft. Another factor might be that the fuel air mixture must be correct for a gasoline explosion. If the tank was near full there is very little oxygen in the tank.

"What I saw sent a cold chill down my spine. After a few seconds, the transmitter started to emit smoke and the resistor wire began to glow red hot!"

Our next question was "what can we do to eliminate this risk?" The choices were to either keep the electricity out of the tank or find a resistor that would be safe at any voltage. Keeping the electricity out of the fuel tank would be very difficult without developing a totally different fuel quantity system with heavy modifications to the fuel system itself.

"What can we do to eliminate this risk?"

Other styles of fuel tank senders were looked at and we finally discovered the new Stewart Warner® "Thick Film Ceramic" transducer technology. This resistor is built by coating a ceramic base with a hard semiconductor film. This film is then laser cut to the exact resistance needed. The beauty of this beast is that being a semi-conductor it is "current limiting". In other words, applying more voltage has less effect on the number of amps that will flow through it. With limited amp flow, there is a corresponding limit to the heat that can be generated. The real test was to see how it reacted to the Sears Die-Hard®. When we duplicated our previous test at full voltage there was no heat generated at the higher resistance and about 350° F at the low resistance and the transmitter worked fine after the test.

One of the other advantages of this technology is the hard smooth and flat surface of the semi-conductor. The follower arm does not have to jump over wires. Stewart Warner®'s tests show this resistor will out wear their wire wound type many times. The accuracy of the resistance inputs is improved by the laser precision and increased number of resistance divisions built into the resistor. Our certification tests proved that it will take the vibration and other abuses of the aircraft environment.

McFarlane Aviation Products has FAA-PMA transmitters for most single engine Cessna and Piper airplanes at substantial savings over the old wire wound replacements and we are developing them for other aircraft.

Fuel Quantity Transmitters for Cessna and Piper Aircraft

McFarlane Fuel Quantity Transmitters are direct replacements for originally installed Stewart Warner type fuel quantity transmitters. Eliminates the need for expensive transmitter conversion kits that require replacement of fuel gauges and wiring. Our Fuel Quantity Transmitters are engineered to be compatible with the original fuel quantity gauge and wiring which uses time proven technology and reliability. Each Transmitter is manufactured using proprietary "thick film ceramic" resistor technology. The benefits are longer life and increased accuracy. All components are thoroughly tested to ensure reliable operation.

- More accurate and lasts longer!
- Proprietary McFarlane thick film resistor technology
- Direct replacement for original factory installed

Convenient Kits
Available individually or as kits including one transmitter, gasket(s) and screw/seal assemblies as applicable.


P/N MC0426517-1


P/N MC0523557-1


P/N MC0726110-1


P/N MC68101-02

Installation Warning:

Do not *replace the Rochester fuel quantity transmitter with the Stewart Warner transmitters. The electrical function is not compatible. Stewart Warner transmitters must be used to replace Stewart Warner transmitters only. Replacing the Rochester transmitter with the Stewart Warner transmitter will result in erroneous fuel quantity indications.*

Some Cessna and Piper aircraft have been modified with a Service Kit to use the Rochester fuel quantity indicating system. This modification required changing the fuel quantity gauge, transmitter, and other electrical components. Do not use the McFarlane (Stewart Warner) transmitters as a replacement for these aircraft.

McFarlane transmitters for Piper aircraft are not compatible with serial numbers other than those listed in the eligibility data.


Rochester Transmitter

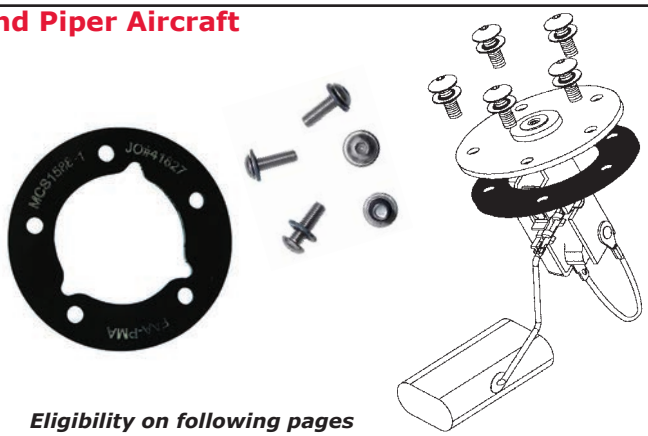

Early Style Stewart Warner Transmitter

Gaskets and Screw-Seal Assemblies for Cessna and Piper Aircraft

McFarlane Fuel Quantity Transmitter Gaskets are made from Dupont Viton®. Viton is the premier elastomer of the aerospace industry, offering flexibility and fuel resistance at all temperature extremes. Viton gaskets will not dry out or shrink like cork gaskets and do not harden with age like gaskets made from other elastomers. McFarlane gaskets are available for most single engine Cessna and Piper aircraft.

McFarlane screw-seal assemblies for Cessna aircraft have been engineered to eliminate chronic problems associated with fuel quantity transmitter hardware. Hex drive head screws made from stainless steel eliminate the corrosion process. The hex drive promotes ease of installation and eliminates the necessity for destructive down pressure during transmitter screw removal and installation. The stainless steel/ Viton seal used on the hex drive screw provides a positive seal around the screw. No more leaks and seeps!

McFarlane screw-seal assemblies for Piper aircraft use the same time proven seals as our Cessna screw/seal assemblies but use a slotted screw with safety wire holes.



Eligibility on following pages

Fuel Transmitter Access Cover Gaskets for Cessna Aircraft

P/Ns MC0523619-1 and MC1422306-1

- Retains position and shape with an adhesive backing!
- Prevents rain and occasional fuel spill from entering the wing!
- Available separately or in fuel quantity transmitter kits
- Fits most Cessna aircraft with fuel transmitter access opening on the top of the wing

Eligibility on following pages



Fuel Quantity Transmitters for Piper and Maule Aircraft

Transmitters by Instrument Tech

Instrument Tech provides FAA-PMA approved fuel quantity transmitters for Piper and Maule aircraft. These are new direct replacements for the original and difficult to find Rochester and AC units. Designed for use with the original OEM fuel quantity gauge, Instrument Tech transmitters do not require any modifications to the fuel system.

Eligibility on following pages


Gasket included!



Transmitters, Gaskets, and Screw-Seal Assemblies Eligibility

Cessna Aircraft

Model	Serial Numbers	Transmitter	Gasket	Screw/Seal Assembly	Kit
150, 150A,B,C,D,E,F,G,H,J,K,L,M A150K,L,M, F150F,G,H,J,L,M FA150K,L, FRA150L,M	17001 thru 59018 15059019 thru 15079405 A1500001 thru A1500734 F1500001 thru F1500390 FA1500001 thru FA1500120 FRA1500121 thru FRA1500336	Standard Tanks MC0426517-1 [2]	MCS1588-1 MC0523619-1 (access cover gasket)	MCS35010R10 [10]	FQT-KT-1 [9]
150J[1], F150J[1]	15069455 thru 15071128 F1500490 thru F1500529	Patrol Tanks N/A	MCS1588-1	MCS35010R14	N/A
152, A152, F152, FA152	15279406 thru 15286033 A1520735 thru A1521049 F15201429 thru F15201980 FA1520337 thru FA1520425	Standard Tanks N/A Extended Range Tanks N/A	MCS1588-1	MCS35010R10 [10]	N/A
172,172A, 172B,C,D,E,F,G,H,I,J,K,L,M,N,P[1] F172D,E,F,G,H,K,L,M FR172E,F,G,H,J,K R172K, FP172, P172D	36966 thru 47746 17247747 thru 17276516 F1720001 thru F17201234 FR17200001 thru FR17200675 R1722000 thru 1723454 FP1720001 thru FP1720003 P17257120 thru P17257188	MC0523557-1 [3][4][5]	MCS1588-1 MC0523619-1 (access cover gasket)	MCS35010R10 [10]	FQT-KT-2 [9]
175, 175A,B,C	55001 thru 17557119	MC0523557-1	MCS1588-1 MC0523619-1 (access cover gasket)	MCS35010R10 [10]	FQT-KT-2 [9]
180A,B,C,D,E, F,G,H,J,K[1]	32662 thru 18053000	MC0726110-1 [5]	MCS1588-1 [8] MCS1588-2 [8]	MS35207-264 [7]	FQT-KT-3 [9]
182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q[1] A182J,K,L,M,N, F182P,Q[1]	33843 thru 18266590 A1820001 thru A1820148 F1820001 thru F18200094	MC0726110-1 [5]	MCS1588-1 [8] MCS1588-2 [8]	MS35207-264 [7]	FQT-KT-3 [9]
185,185A,B,C,D,E, A185E,F[1]	1850001 thru 18503683	MC0726110-1 [5]	MCS1588-1 [8] MCS1588-2 [8]	MS35207-264 [7]	FQT-KT-3 [9]
188A, A188, A188A A188B, T188C	1880445 thru 18803856 18802349T thru 18803968T T18803297T thru T18803968T	MCC668002-0201 [6]	MCS1588-1 [8] MCS1588-2 [8]	MS35207-264 [7]	FQT-KT-4 [9]
210-5 (205), 210-5A (205A)	2050001 thru 2050577	MC0726110-1 [5]	MCS1588-2 Qty 2	MS35207-264 [7]	FQT-KT-5 [9]
206,U206, U206A,B,C,D,E,F,G[1] TU206A,B,C,D,E,F,G[1], P206, P206A,B,C,D,E,F,G[1], TP206A,B,C,D,E	2060001 thru U20604649	MC0726110-1 [5]	MCS1588-1 [8] MCS1588-2 [8]	MS35207-264 [7]	FQT-KT-3 [9]
206H, T206H, U206F,G, TU206F, G			MCS2670-1		
207,207A[1], T207,T207A[1]	20700001 thru 20700482	MC0726110-1 [5]	MCS1588-1	MS35207-264 [7]	FQT-KT-6 [9]
207, 207A, T207, T207A	20700483 thru 20700788		MCS2670-1		
208, 208B			MCS2670-1		
210, 210A,B,C,D,E,F, T210F	21057001 thru 21058818	MC0726110-1 [5]	MCS1588-1 [8] MCS1588-2 [8]	MS35207-264 [7]	FQT-KT-3 [9]
210N,R, P210N,R, T210N,R	All		MCS2670-1		
337, 377A,B,C,D,E,F,G,H, F337E,F,G,H, FT337E,F, FT337GP,HP, M337B, P337H, T337B,C,D,E,F,G,H, T337H-SP	All		MC1422306-1 (access cover gasket)		

[1] Partial model eligibility

[2] This transmitter does not fit aircraft equipped with extended range fuel tanks.

[3] Do not use this transmitter with gauge cluster P/N C669562-108 (Rochester® manufacture). This gauge cluster could have been factory installed on aircraft built in 1978 or newer beginning with S/N 17269310.

[4] Do not use this transmitter in aircraft with extended range fuel tanks with gauge cluster P/N C669562-0109 (Rochester® manufacture). This gauge cluster could have been factory installed on aircraft built in 1979 or newer beginning with S/N 17271035.

[5] Includes aircraft with extended range fuel tanks.

[6] 188 model series with wing fuel tanks only.

[7] A seal is not used in this application. P/N MS35207-264 supercedes P/N AN52010R10. P/N MS35207-264 is an industry standard hardware component.

[8] Where both MCS1588-1 (approximately 1/8" thick) and MCS1588-2 (approximately 1/16" thick) are required, install MCS1588-1 between the transmitter and rib and install MCS1588-2 between the fuel cell and rib.

[9] Each kit contains one transmitter, one or two gaskets and five screws or screw/seal assemblies as applicable. The fuel transmitter access cover gasket P/N MC0523619-1 is included when purchasing kit P/N FQT-KT-1 and FQT-KT-2.

[10] Replaces Cessna P/Ns S350, AN960D10L and AN52010R10 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter.

[11] Replaces Cessna P/Ns S350, AN960D10L and AN52010R14 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter.

Note: 9812 Series Transmitters are manufactured by Instrument Tech.

Piper and Maule Fuel Quantity Transmitters on the following page

Transmitters, Gaskets, and Screw-Seal Assemblies Eligibility

Piper Aircraft

Model	Serial Numbers	Transmitter	Gasket	Screw/Seal Assemblies	Kit
PA-28		9812-0026-101 replaces PS10013-11, 548-671 and 7740-00309			
PA-28-140	28-20551 thru 28-26956, 28-7125001 thru 28-7125651, 28-7225001 thru 28-7225612, 28-7325001 thru 28-7325684, 28-7425001 thru 28-7425454, 28-7525001 thru 28-7525350, 28-7625001 thru 28-7625234, 28-7725001 thru 28-7725290	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-28-150, PA-28-160	28-1761 thru 28-4377	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-28-151	28-7415001 thru 28-7415703, 28-7515001 thru 28-7515449, 28-7615002 thru 28-7615435, 28-7715001 thru 28-7715314	MC68101-02 [1]	MC461-931	MC1802	FQTP-KT-2 [2]
PA-28-161	28-7716002 thru 28-7716323, 28-7816001 thru 28-7816680, 28-7916001 thru 28-7916598, 28-8016001 thru 28-8016373, 28-8116001 thru 28-8116268, 28-8216007, 28-8216014, 28-8216017, 28-8216019, 28-8216021	MC68101-02 [1]	MC461-931	MC1802	FQTP-KT-2 [2]
		9812-0026-101 replaces PS10013-11, 548-671 and 7740-00309			
PA-28-180	28-1761 thru 28-5869, 28-7105001 thru 28-7105244, 28-7205001 thru 28-7205328, 28-7305001 thru 28-7305611, 28-7405001 thru 28-7405290, 28-7505001 thru 28-7505261	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-28-181	28-7690001 thru 28-7690467, 28-7790001 thru 28-7790607, 28-7890001 thru 28-7890551, 28-7990001 thru 28-7990589, 28-8090001 thru 28-8090372, 28-8190001 thru 28-8190279, 28-8290017, 28-8290018, 28-8290028, 28-8290033, 28-8290034, 28-8290036	MC68101-02 [1]	MC461-931	MC1802	FQTP-KT-2 [2]
		9812-0026-101 replaces PS10013-11, 548-671 and 7740-00309			
PA-28R		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040 9812-0024-101 replaces PS10013-6, 550-504 and 7740-00041			
PA-28R-180	28R-30005 thru 28R-30481, 28R-30483 thru 28R-31279, 28R-7130001 thru 28R-7130019	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-28R-200	28R-30482, 28R-35001 thru 28R-35830, 28R-7135001 thru 28R-7135238, 28R-7235001 thru 28R-7235330 28R-7335001 thru 28R-7335455, 28R-7435001 thru 28R-7435331 28R-7535001 thru 28R-7535393, 28R-7635001 thru 28R-7635545	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-200T		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040			
PA-28R-201		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040 9812-0024-101 replaces PS10013-6, 550-504 and 7740-00041			
PA-28R-201T		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040			
PA-28RT, PA-28RT-201, PA-28RT-201T		9812-0024-101 replaces PS10013-6, 550-504 and 7740-00041			
PA-28-235	28-10003 thru 28-11393, 28-7110001 thru 28-7110042, 28-7210001 thru 28-7210033, 28-7310001 thru 28-7310187, 28-7410001 thru 28-7410120, 28-7510001 thru 28-7510145, 28-7610001 thru 28-7610206, 28-7710001 thru 28-7710089	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]

Eligibility continued on next page

Transmitters, Gaskets, and Screw-Seal Assemblies Eligibility

Piper Aircraft continued					
Model	**Serial Numbers**	**Transmitter**	**Gasket**	**Screw/Seal Assemblies**	**Kit**
PA-31, PA-31-300, PA-31-325, PA-31-350, PA-31P	31-1 thru 31-861, 31-7300901 thru 31-8312019, 31-5001 thru 31-5004, 31-7305005 thru 31-8553002, 31P-1 thru 31P-80, 31P-7300110 thru 31P-7730012	9812-0001-101 replaces PS50149-2, PASC40648-2, 40648-2, 550-695, 6427512			
		9812-0002-101 replaces PS50149-3, PAC40648-3, 40648-3, 550696, 6727511			
		9812-0003-101 replaces PS50149-4, PAC40648-4, 40648-4, 550-697, 6427514			
		9812-0004-101 replaces PS50149-5, PAC40648-5, 40648-5, 550-698, 6427513			
PA-32-260	32-1 thru 32-1320, 32-7100001 thru 32-7100038, 32-7200001 thru 32-7200055, 32-7300001 thru 32-7300076, 32-7400001 thru 32-7400061, 32-7500001 thru 32-7500053, 32-7600001 thru 32-7600033, 32-7700001 thru 32-7700023, 32-7800001 thru 32-7800008	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-32-300	32-40000 thru 32-41018, 32-7140001 thru 32-7140086, 32-7240001 thru 32-7240147, 32-7340001 thru 32-7340201, 32-7440001 thru 32-7440182, 32-7540001 thru 32-7540198, 32-7640001 thru 32-7640142, 32-7740001 thru 32-7740113, 32-7840001 thru 32-7840222	MC68101-02 [1]	MC462-021	MC1802	FQTP-KT-1 [2]
PA-34		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040 9812-0024-101 replaces PS10013-6, 550-504 and 7740-00041			
PA-34-200		9812-0024-101 replaces PS10013-6, 550-504 and 7740-00041			
PA-34-200T		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040			
PA-34-220T		9812-0023-101 replaces PS10013-5, 550-503 and 7740-00040			
PA-44, PA-44-180		9812-0025-101 replaces PAC86688-002, 548-218 and 7740-00164			

[1] Not interchangeable with "Rochester type" fuel quantity transmitters. Transmitter is not to be used in aircraft equipped with Rochester manufactured fuel gauges that may have been installed as a Piper service spare part, in accordance with a Piper Service Kit.
[2] Each kit contains: (1) Fuel Quantity Transmitter, (1) Gasket, and (5) Screw/Seal Assemblies

Maule Aircraft	Transmitter
Bee Dee Ms4, M-4, M-4C, M-4S, M-4T, M-4-180C, M-4-180S, M-4-180T, M-4-180V, M-4-2 IOS, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T, M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235, MX-7-235, MX-7-180, MX-7-420, MXT-7-180, MT-7-235, M-8-235, MX-7-160, MXT-7-160, MX-7-180A, MXT-7-180A, MX-7-180B, M-7-235B, M-7-235A, M-7-235C,MX-7-180C, M-7-260, MT-7-260, M-7-260C, M-7-420AC, MX-7-160C, M-7-180AC, M-7-420A, MT-7-420, M-9-235	9812-0028-101 replaces 7740-00304 [3]

[3] **INSTALLATION WARNING**: P/N 9812-0028-101 WILL NOT replace the old Stewart Warner type Senders. Please check what type you have before installation.

Fuel Caps for Piper Aircraft

Manufactured by PMA Products, Inc. and F Atlee Dodge

Improved materials and better design

- Fuel caps with "CA" prefix have fuel resistant elastomer to resist swelling, and a stronger lever that resists bending
- P/N 3267- a vented cap with a vertical fin on top for easy removal and made of stainless steel to prevent corrosion



P/N 3267



P/N CA16097N



P/N CA21821N



P/N CA27221N



P/N CA17672N

P/N	Cap	Replaces OEM P/N	Eligible Models
3267	Vented	10188-00, 454009	PA-11, PA-11S, PA-12, PA-12S, PA-14, PA-18, PA-20, PA-22
CA16097N	Vented	160297-000	PA-23-235 and PA-23-250, S/N 27-1 thru 27-7554168
CA17672N	Vented	454-084, 17672-000	PA-23, PA-23-160
CA21821N		21821-000, 27221-000	PA-24-250, 260 S/N 24-2299 and on (aux. fuel system only). Shorter, easier to remove from the filler opening.
CA27221N	Non-vented	27221-00, 554-180	PA-24-180,250,260,400, PA-30, PA-39

Fuel Cap Cover Door Fastener

1/2 Turn
P/N CA26246-000
Manufactured by PMA Products, Inc.



Aircraft Models
PA-24-180,250,260
PA-32-260,300,301
PA-32R-300,301 [1]
PA-32RT-300
PA-30, PA-39

Notes:
[1] S/N 32R-8013001, 321300 thru 3213028, and 3213030 thru 3213041

AeroTough® GF Fuel Cap Washers

Avoid the hassle of difficult to open/close fuel caps!

- Low friction material makes your cap move easier
- Long wear life



Washers
P/N M-00-1000



Washers
P/N M-00-1001



Washers
P/N M-00-1002



Washer
P/N M-04-1001

Aircraft Models	Fuel Cap P/N	Washer P/N
Aerostar		
PA-60-600, 601,601P, 602P, 700P	531 Series	M-00-1000
Beechcraft		
56TC,A56TC	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
58P,58TC	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
65-90,65-A90	457 Series	M-00-1000
	38339 Series	M-00-1002
	39051 Series	M-04-1001
95-55,95-A55,95-B55,95-B55A,95-C55,95-C55A, C55, D55,D55A, E55,E55A	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
99,99A, A99A, B99, C99	457 Series	M-00-1000
	38339	M-00-1002
100, 200,200C,CT,T, 300,300C, 350	457 Series	M-00-1000
	38339 Series	M-00-1002
	39051 Series	M-04-1001
1900,1900C,D	457 Series	M-00-1000
A36	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
A100,A100-1,A100A, A200,A200C,CT	457 Series	M-00-1000
	38339 Series	M-00-1002
	39051 Series	M-04-1001
B90, C90,C90A, E90, F90, H90	431 Series	M-00-1000
	457 Series	
	37810-1	M-00-1001
	38339 Series	M-00-1002
	39051 Series	M-04-1001

Aircraft Models	Fuel Cap P/N	Washer P/N
Beechcraft *(continued)*		
B100, B200,B200CT,T, B300,B300C	457 Series	M-00-1000
	38339 Series	M-00-1002
	39051 Series	M-04-1001
C35, D35, E35, F35, G35, S35, V35,V35A,V35B	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
E33A, E33C, F33A, F33C	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
E50, G50, H50, J50	416 Series	M-00-1000
	431 Series	
	457 Series	
	531 Series	
	37810-1	M-00-1001
Cessna		
310 310A,B,C,D,E,F,G,I,J,J-1,K,L,N,P,Q,R	416 Series	M-00-1000
E310H,J	416 Series	
T310P,Q,R	416 Series	
320, 320-1,320A,B,C,D,E,F	416 Series	
335, 340,340A, 401,401A,B, 402,402A,B,C, 411,411A, 421,421A,B,C	416 Series	
404, 441	431 Series	
414,414A	431 Series	
	531 Series	
Mooney		
M20A,B,C,D,E,F,G,J,K,L	431 Series	M-00-1000
	531 Series	
Piper		
PA-31-350, PA-31-350 (T-1020)	416 Series	M-00-1000
	431 Series	
	457 Series	
PA-31, PA-31-325	431 Series	

Fuel Cap Gaskets for Cessna Aircraft

No more leaking or hard to open fuel caps!
P/N FC-KT-1 (for caps P/N C156003-0101 and P/N C156004-0101)
P/N FC-KT-2 (for cap P/N 0426015-1)

Our unique double gasket slip ring arrangement combined with our FAA approved instructions for adjusting the tightness of the cap allows leak free fuel caps that don't require super-human strength to open.

- Kit contains required gasket and slip ring as required
- Fuel proof Viton® and Teflon® for long life

Fuel Cap Gasket Kit for Cessna Aircraft

P/N FC-KT-3[2] contains one P/N C156003-0101 & one P/N FC-KT-1

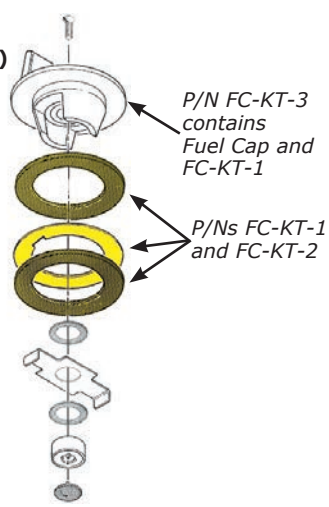


FC-KT-1



FC-KT-2

Eligibility on next page



Fuel Cap for Cessna

Replace worn out caps!
P/N C156003-0101
Fits most Cessna aircraft
Vented!



Manufactured by Cessna

Fuel Cap Gaskets for Cessna Aircraft continued from previous page

		Kit P/N	
Aircraft	**Serial Number**	**FC-KT-1 [2]**	**FC-KT-2 [3]**
140A	All	•	
150, 150A,B,C,D,E,F,G,H,J,K	All	•	
150L[1]	15072004 thru 15072628	•	
150L[1],M	15072629 thru 15079405	•	•
A150K	All	•	
A150L[1]	A1500227 thru A1500276	•	
A150L[1],M	A1500277 thru A1500734	•	•
F150F,G,H,J,K,L[1]	F150-0001 thru F1500738	•	
F150L[1],M	F15000739 thru F15001428	•	•
FA150K,L[1]	FA1500001 thru FA1500166	•	
FA150L[1],M	FA1500167 thru FA1500336	•	•
FRA150L,M	FRA1500121 thru FRA1500166	•	
	FRA1500167 thru FRA1500336	•	•
152	15279406 thru 15279629	•	•
	15279630 thru 15286033	•	
A152	A1520735 thru A1520741	•	•
	A1520742 thru A1521049	•	
F152	F15201429 thru F15201528	•	•
	F15201529 thru F15201980	•	
FA152	FA1520337 thru FA1520347	•	•
	FA1520348 thru FA1520425	•	
170, 170A,B	18729 thru 27169	•	
172, 172A,B,C,D,E,F,G,H,I,K,L[1]	28000 thru 17259823	•	
172L[1],M, N[1]	17259824 thru 17269468	•	•
172N[1],P,Q,R,S, 172RG	17269469 thru 172S99999	•	
F172D,E,F,G,H,J,K	F172-0001 thru F17200804	•	
F172L,M,N[1]	F17200805 thr F17201749	•	•
F172N[1],P	F17201750 thru F17202254	•	
FR172E,F,G,H[1]	FR17200001 thru FR17200300	•	
FR172 H[1],J,K[1]	FR17200301 thru FR17200630	•	•
FR172K[1]	FR17200631 thru FR17200675	•	
R172K	R1722000 thru R1722751	•	•
	R1722752 thru R1723454	•	
FP172, P172D	All	•	
175, 175A,B,C	All	•	
177, 177A,B	All	•	
177RG, F177RG	All	•	
180, 180A,B,C,D,E,F,G,H,J,K	All	•	
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R	33000 thru 18268434	•	
182R,S,T, T182T	18268435 and On	•	
F182P,Q, FR182	All	•	
R182	R18202000 thru R18202041	•	
	R18200001 thru R18201999	•	
T182	18268435 thru 18268541	•	
	18267716 thru 18268434	•	
TR182[1]	R18200584 thru R18501999	•	
	R18202000 and On	•	
185, 185A,B,C,D,E, A185E,F[1]	185-0001 thru 18504424	•	
A185F[1]	18504425 thru 18504448	•	
188[1], 188A,B, A188A, A188B[1]	188-0446 thru 18803296	•	
A188B[1]	18803297 and On	•	
	18800967T thru 18803296T	•	
	18803297T thru 18803973T	•	
T188C	T18803325T thru T18803974T	•	
210-5 (205), 210-5A, (205A)	All	•	
206	All	•	
206H, T206H	All	•	
P206, P206A,B,C,D,E	All	•	
TP206A,B,C,D,E	All	•	
U206, U206A,B,C,D,E,F,G[1], TU206A,B,C,D,E,F,G[1]	U206-0276 thru U20606846	•	
U206G[1], TU206G[1]	U20606847 and On	•	
207, 207A, T207, T207A	All	•	
210, 210A,B,C,D,E,F,G,H,J,K[1],	57001 thru 21059361	•	
T210F,G,H,J	All	•	
210N[1],R, T210N[1],R	21064136 thru 21065009	•	
336, 337, 337A,B,C,D,E,F,G,H	All	•	
F337E,F,G,H, FT337GP, FT337HP, M337B, P337H T337G,H	All	•	

[1] Partial model eligibility

[2] P/N FC-KT-1 and FC-KT-3 are only eligible for indicated aircraft when equipped with fuel cap P/Ns C156003-0101 or C156004-0101

[3] P/N FC-KT-2 is only eligible for the indicated aircraft when they are equipped with fuel cap P/N 0426015-1

Fuel Cap Seals for Piper, Beech, Mooney, and Cessna Citations

P/N CA38241 and CA457-98

- The only seals that legally replace the main seal on many Beech, Cessna, and Mooney fuel caps
- Made of a fluorosilicone material with unlimited shelf life
- CA38241: Molded seal with a lip - designed for "lightning proof" fuel caps
- CA457-98: Round O-ring seal

P/N CA66815-000A

- Round O-ring seal made of Viton to eliminate swelling issues experienced when using AutoGas



P/N CA38241



P/N CA66815-000A

Part Number	Replaces OEM P/N	Eligible Models
CA38241	Beech P/N 38241, 38283 used with P/N 38339, 100-381005-1 or 100-381005-5 fuel caps only	99, 99A, A99A, B99, C99, 100, A100, B100, 200, 200T, 200C, 200CT, B200, B200T, B200C, B200CT, B300, B300C, 1900, 1900C, 1900D
	Cessna	525 s/n 0549 and on, 650 s/n 0001 thru 0101 (incorporating SB650-28-23), 0102 and on, 680, 750
	Mooney seals used with P/N 457-370 fuel caps only	M20C,D,E,F,G,J (with O&N Aircraft Mod. fuel bladders per STC SA2277CE & SA2350CE)
CA457-98	Beech P/N 457-98, 457-98-1	E90, F90, 99, 99A, A99A, B99, C99, 100, A100, B100, 200, 200T, 200C, 200CT, B200, B200T, B200C, B200CT
CA66815-000A	Piper P/N 66815-000, 462-056 used with fuel cap assemblies P/N 66817-00, 39824-02, 38599-02 or 66817-02 only	PA-28-140,150,160,180 s/n 28-1761 and on, PA-28-151,161,181,201T,235,236, PA-28R-180, PA-28R-200 s/n 28R-30482, 28R-35001 thru 28F-7135238, PA-28-201, PA-28R-201, PA28R-201T, PA-28RT-201, PA-32-260, PA-32-300 s/n 32-40000 thru 32-7840222 and 32-7940001 and on, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32-301, 301T, PA-32R-301, PA-32R-301T, PA-34-200, PA-34-220T, PA-38-112, PA-44-180, -180T

Fuel Primer for Cessna Aircraft

Now FAA-PMA approved! Smooth operation and increased service life

P/N MCC291502-0104

- Improved seal designs for consistently less friction
- Modern quad-style rings and Viton elastomer throughout
- Machined one-piece aluminum knob and plunger
- New check valve design prevents fuel leakage into the engine
- Larger fuel ports for more emergency fuel flow
- Replacement Piston Knob assembly coming soon!



NEW

McFarlane Fuel Primer Improvements

By Dave McFarlane

During the development of our new Fuel Primer, we tested several units and discovered that they were leaking fuel through to the engine. Over time, the small amount of leaked fuel builds up in the engine intake tubes or cylinders, and on some engines, fuel will drip out of the carburetor. Although this leakage often goes unnoticed, it can result in rich engine operation at idle and low power settings, while wasting fuel or leading to inconsistent carburetor adjustment results.

The OEM Fuel Primers relies on a metal-to-metal seal in the check valves and cut-off needle. The new McFarlane Primer features a Viton ball as part of the check valves to cleanly shut off fuel when it is not in operation. The McFarlane Piston Knob assembly features optimized seal grooves for smooth operation during use. McFarlane's improved seals for the Piston Knob assembly replace the old, damaged, worn, and sticky O-rings that are often difficult to operate and function. The barrel material and coating prevent corrosion and wear that is found in many installed Primer assemblies. Our use of a Delrin wear washer ensures smooth plunger operation and prevents scraping, which was found on most original barrel and piston assemblies. The all-metal knob is now a one-piece unit that eliminates the original plastic knob. Lastly, enlarged primer ports provide better fuel flow.

Each assembly is tested before leaving our facility in Kansas.

Aircraft	Serial Number
150, 150A,B,C,D,E,F,G,H,J,K,L,M, A150K,L,M, FA150K,L,M	All
F150F,G,H,J,K,L,M [1]	F150-0001 thru F15001338
152, A152, F152, FA152	All
170B [1]	26039 thru 27169
172, 172A,B,C,D,E,F,G,H,I,K,L,M,N,P,Q, 172RG	All
F172D,E,F,G,H,K,L,M,N,P, FR172E,F,G,H,J,K, P172	All
R172E [1],F,G,H,K	R172-0302 thru R1723454
175, 175A,B,C	All
177, 177A,B [1]	17700001 thru 17702672
180, 180A,B,C,D,E,F,G,H,J,K	All
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R, F182P,Q, FR182, R182, T182	All
TR182	R18200584 thru R18201928
185C,D,E, A185E,F	All
188, 188A,B [1], A188A, B [1]	188-0001 thru 18801825
210-5A (205A) [1]	205-0552 thru 205-0577
206, U206A,B,C,D,E,F	All
P206, P206A,B,C,D,E, TU206A,B,C,D,E,F	All
TU206G [1], U206G [1]	U20603733 thru U20607020
207, 207A, T207, T207A	All
210G,H,J,K,L,M,N,R, P210N,R, T210G,H,J,K,L,M,N,R	All
337C,D,E,F,G,H, F337E,G,H, FT337GP, FT337HP, P337H, T337C,D,G,H	All

Notes:

[1] Partial model eligibility

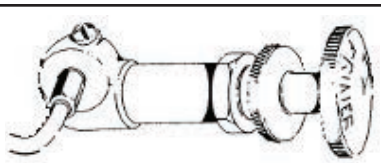
Fuel Primer Seal Kit

P/N FPS-KT-1

Contains (2) MIL-SPEC fuel-proof fluoroelastomer (Viton) O-rings required to service most standard fuel primers.

This kit is compatible with the OEM Cessna Fuel Primer assemblies only.





Fuel Strainer Parts for Cessna Aircraft

We offer fuel bowls, top assemblies, fuel bowl washers, fuel bowl nuts, standpipes, plungers, stainless steel washers for your plunger, fuel-proof fluorocarbon O-rings, fuel strainer drain cables and fuel strainer seal kits.

Buy any components separately or as convenient kits.

- Improved safety
- More reliable
- Longer life
- Less money

Eligibility on the next page



Fuel Bowl
P/N MC0756008-1

- Computer machined (not die cast)
- Gold anodized for additional corrosion resistance
- This bowl is engineered to last!



Fuel Strainer Seal Kits
P/Ns FS-KT-1, FS-KT-9, FS-KT-10 and FS-KT-11

- Only McFarlane has approval to replace the old less fuel resistant O-rings with the latest fuel-proof fluorocarbon O-ring.
- Kits include applicable gasket and O-rings to seal the fuel strainer



Fuel Strainer Gasket
P/N MC0756041-1

- Fuel proof Viton foam won't shrink or harden from fuel exposure
- Fits restart Cessna aircraft and late U206G/TU206G models



Fuel Strainer Plunger
P/N MC0756010-11

- Special electro polished shaft for longer O-ring life
- McFarlane's Vulcanize bonded blue Viton® rubber tip outlasts the original in any fuel



Fuel Strainer Standpipe
P/N MC0756011-1

- Stainless steel
- Costs less
- No more corrosion pits
- No more stripped threads
- The last one you will buy!



Fuel Strainer Drain Cables
P/N MCS1517 Series

- Stainless steel conduit
- Improved aluminum knob
- Larger wire diameter



Fuel Top Assembly
P/N MC0756005-2

- All aluminum construction prevents galvanic corrosion between housing and inlet tube
- Fully anodized to prevent corrosion and galvanic reaction between the brass filter and aluminum inlet tube
- Improved fuel inlet tube attachment ensures secure fit



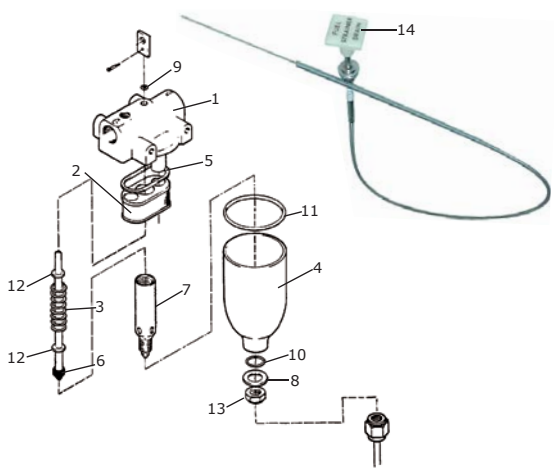
Maintenance Tip:
Cleaning the Fuel Screen - To remove the fuel screen, remove the standpipe. The rubber tipped plunger must be unseated before the standpipe is loosened. Failure to lift the plunger off of its standpipe seat can damage the plunger. Pull the strainer drain knob as if you were draining the fuel bowl. Block or clamp the knob in this position. Insert a smooth round tool such as a screw driver or punch in the standpipe cross-hole and un-screw the standpipe.

Fuel Strainer Kits

Save time and money with convenient kits!

See eligibility on the following page

Qty	Part Number	Description	Idx
FS-KT-1 Fuel Strainer Seal Kit			
1	MC0756009-8	Gasket	5
1	MCM83248/1-010	O-ring	9
1	MCM83248/1-111	O-ring	10
1	MCM83248/1-138	O-ring	11
FS-KT-2 Fuel Bowl Kit			
1	FS-KT-1	Fuel Strainer Seal Kit	
1	MC0756008-1	Fuel Bowl	4
1	MC0756015-1	Washer	8
1	MCS1573-3	Nut	13
FS-KT-3 Fuel Strainer Rebuild Kit			
1	FS-KT-2	Fuel Bowl Kit	
1	0756012-1	Spring	3
1	MC0756010-11	Plunger	6
1	MC0756011-1	Standpipe	7
2	MCS1450-27A7-032	Washer	12
FS-KT-4 Fuel Strainer Kit			
1	FS-KT-3	Fuel Strainer Kit	
1	MC0756005-2	Top Assembly	1
1	0756009-1	Filter	2
FS-KT-5 Fuel Strainer and Cable Kit			
1	FS-KT-4	Fuel Strainer Kit	
1	MCS1517-7	Strainer Drain Cable	14
FS-KT-6 Fuel Strainer Kit			
1	MC0756005-2	Top Assembly	1
1	0756009-7	Filter	2
1	FS-KT-3	Fuel Strainer Rebuild Kit	
FS-KT-7 Fuel Strainer and Cable Kit			
1	FS-KT-6	Fuel Strainer Kit	
1	MCS1517-7	Strainer Drain Cable	14
FS-KT-9 Fuel Strainer Seal Kit			
1	MC0756041-1	Gasket	15
1	M83248/1-011	O-ring	18
1	M83248/1-111	O-ring	17
1	M83248/1-138	O-ring	16
FS-KT-10 Fuel Strainer Seal Kit			
1	MC0756041-1	Gasket	15
1	M83248/1-010	O-ring	9
1	M83248/1-111	O-ring	17
1	M83248/1-138	O-ring	16
FS-KT-11 Fuel Strainer Seal Kit			
1	MC0756041-1	Gasket	15
1	M83248/1-111	O-ring	17
1	M83248/1-138	O-ring	16
FS-KT-12 Fuel Plunger Kit			
1	FS-KT-1	Fuel Strainer Seal Kit	
1	MC0756010-11	Plunger	6
1	MC0756015-1	Washer	8
1	MCS1573-3	Nut	13



Eligibility for Cessna Fuel Strainer Parts and Kits





Cessna Models	Serial Numbers	P/N and Description	MC0756005-2 Fuel Top Assembly	MC0756008-1 Fuel Bowl	MC0756010-11 Fuel Strainer Plunger	MC0756011-1 Fuel Strainer Standpipe	MCS1517-7 Fuel Strainer Drain Cable	FS-KT-1 Fuel Strainer Seal Kit	FS-KT-2 Fuel Bowl Kit	FS-KT-3 Fuel Strainer Rebuild Kit	FS-KT-4 Fuel Strainer Kit	FS-KT-5 Fuel Strainer and Cable Kit	FS-KT-6 Fuel Strainer Kit	FS-KT-7 Fuel Strainer and Cable Kit	FS-KT-9 Fuel Strainer Seal Kit	FS-KT-10 Fuel Strainer Seal Kit	FS-KT-11 Fuel Strainer Seal Kit	FS-KT-12 Fuel Plunger Kit
150E[1]	15060773 thru 15061152						•											
150E[1],F,G,H,J,K,L,M, A150K,L,M	15061153 thru 15079405 and A1500001 thru A1500734		•	•	•	•	•	•	•	•	•	•						•
F150F,G,H,J,K,L,M, FA150K,L,M	All		•	•	•		•	•	•									
FRA150L,M	All		•				•											
152, A152	All		•	•	•	•	•	•	•	•	•	•						•
F152, FA152	All		•	•	•		•	•	•									
172D,E,F[1]	17249545 thru 17252533						•											
172F[1],G,H	17252534 thru 17256512 and 638		•	•	•	•	•	•	•	•	•	•						•
172I,K,L,M,N,P,Q	All		•	•	•	•	•	•	•	•	•	•						•
172R,S	All														•			
172RG	172RG0001 thru 172RG0890 and 691		•	•	•	•	•	•	•	•	•	•						•
172RG	172RG0891 thru 172RG1191		•	•		•	•	•	•									
P172D	All			•		•		•	•	•	•							
F172D,F[1]	F172-0001 thru F172-0139						•											
F172F[1],G,H,K,L,M,N,P	F172-0140 thru F17202254		•	•	•		•	•	•									
FR172E	All		•	•	•			•	•									
FR172F,G,H,J,K	All		•	•	•		•	•	•									
R172E	All		•															
R172F,G,H	All		•				•											
R172K	All		•	•	•		•	•	•									
177, 177A,B	All		•	•	•	•	•	•	•	•	•	•						•
177RG	All		•	•	•	•		•	•	•	•							•
F177RG	All		•		•													
180H[1],J,K	18051497 thru 18051875		•	•	•	•		•	•	•	•							•
180H[1],J,K	18051876 thru 18053203[2]		•	•	•	•	•	•	•	•	•	•						•
182H[1],J,K	18256040 thru 18258505 and 675, 18255845		•	•	•	•		•	•	•	•							•
182L,M,N,P,Q,R	All		•	•	•	•	•	•	•	•	•	•						•
182S,T, T182T	All																•	
F182P,Q	All		•	•	•		•	•	•									
FR182	All		•	•	•		•	•	•									
R182, TR182	All		•	•	•	•	•	•	•	•	•	•						•
T182	All		•	•	•	•	•	•	•	•	•	•						•
185D[1],E	185-0844 thru 185-1149		•	•	•	•		•	•	•			•					•
A185E[1]	185-0968 thru 185-1149		•															
A185E[1],F	185-1150 thru 185-1300		•	•	•	•		•	•	•			•					•
A185E[1],F	185-1301 thru 18504448		•	•	•	•	[2]	•	•	•			•	[2]				•
188,188A,B	188-0001 thru 18802348 and 653		•	•	•	•	•	•	•	•								•
A188,A188A,B[1] (w/fuselage tanks)	188-0001 thru 18802348, 18800833T thru 18802348T and 653, 678T		•	•	•	•	•	•	•	•			•	•				•
A188,A188A,B[1] (w/wing tanks)	188-0001 thru 18802348, 18800833T thru 18802348T and 653, 678T		•	•	•	•	[3]	•	•	•			•					•
A188B[1] (w/fuselage tank)	18802349 thru 18802745		•	•	•	•	•	•	•	•			•	•				•
A188B[1] (w/wing tanks)	18802349 thru 18803973, 18802349T thru 18803973T		•	•	•	•	[3]	•	•	•			•					•
T188C	T18803325T thru T18803974T and T18802839T, 3307T, 3308T		•	•	•	•	[3]	•	•	•			•					•
206H,T206H	All																•	
P206,P206A,B, TP206A,B	All		•	•	•	•		•	•	•			•					•
P206C,D,E, TP206C,D,E	All		•	•	•	•	•	•	•	•			•	•				•
U206, U206A,B	All		•	•	•	•		•	•	•			•					•
U206C,D,E,F[1],G[1]	U206-0915 thru U20606846 and 676		•	•	•	•	•	•	•	•			•	•				•

Eligibility for Cessna Fuel Strainer Parts and Kits continued from previous page





Cessna Models	Serial Numbers	P/N and Description	MC0756005-2 Fuel Top Assembly	MC0756008-1 Fuel Bowl	MC0756010-11 Fuel Strainer Plunger	MC0756011-1 Fuel Strainer Standpipe	MCS1517-7 Fuel Strainer Drain Cable	FS-KT-1 Fuel Strainer Seal Kit	FS-KT-2 Fuel Bowl Kit	FS-KT-3 Fuel Strainer Rebuild Kit	FS-KT-4 Fuel Strainer Kit	FS-KT-5 Fuel Strainer and Cable Kit	FS-KT-6 Fuel Strainer Kit	FS-KT-7 Fuel Strainer and Cable Kit	FS-KT-9 Fuel Strainer Seal Kit	FS-KT-10 Fuel Strainer Seal Kit	FS-KT-11 Fuel Strainer Seal Kit	FS-KT-12 Fuel Plunger Kit
U206G [1]	U20606847 thru U20607020						•									•		
TU206A,B	All		•	•	•	•		•	•	•			•					•
TU206C,D,E,F[1],G[1]	U206-0915 thru U20606846 and 676		•	•	•	•	•	•	•	•			•	•				•
TU206G[1]	U20606847 thru U20607020						•									•		
207,207A,T207,T207A	All		•	•	•	•	•	•	•	•			•	•				•
210E,F,G	All		•	•	•	•		•	•	•			•					•
210H,J,K,L,M,N[1]	21058937 thru 21064535		•	•	•	•	•	•	•	•			•	•				•
210N[1]	21064536 thru 21064897			•		•	•	•	•									
210R, T210R	All		•				•											
T210F,G	All		•	•	•	•		•	•	•			•					•
T210H,J,K,L,M,N[1]	T210-0308 thru T210-0454, 21059200 thru 21064535 and 21058140		•	•	•	•	•	•	•	•			•	•				•
T210N[1]	21064536 thru 21064897		•	•		•	•	•	•									
P210N[1]	P21000001 thru P21000760		•	•	•	•	•	•	•	•			•	•				•
P210N[1]	P21000761 thru P21000834			•		•	•	•	•									
337, 337A,B,C,D,E,F	All		•	•	•			•	•									
337G,H (standard range)	All		•	•	•	•		•	•	•			•					•
337G,H (long range), F337E,F,G,H	All		•	•	•			•	•									
FT337E,F, FT337GP, FT337HP	All		•	•	•			•	•									
T337B,C,D,E,F[1]	337-0526 thru 33701351 and 337-0001		•	•	•			•	•									
T337F[1]	33701352 thru 33701398		•	•				•	•									
T337H (standard range)	All		•	•				•	•									
T337H (long range)	All		•	•		•		•	•									
T337G, P337H	All		•		•	•												
T1137H-SP	All		•															

[1] Partial model eligibility
[2] Aircraft without floats use P/N MCS1517-7 and Aircraft with floats use P/N MCS1517-4.
[3] Models 188, 188A, A188, A188A,B S/N 188-0446 thru 18803926T with wing tanks use P/N MCS1517-12. Model T188C, S/N T18803297T thru T18803926T with wing tanks use P/N MCS1517-15.

Fuel Strainer Seal Kits for Piper Aircraft

Graphics not to scale

PA-23 thru PA-46

See next page for details and eligibility

See next page!

FSP-KT-1
P/N MC751-882 Upper Gasket and
P/N MC753-205 Lower Stat-O-Seal



FSP-KT-2
P/N MC757-255 Upper O-ring and
P/N MC751-898 Lower Stat-O-Seal



FSP-KT-3
P/N CA751-871 Gasket
P/N MS29513-008 O-ring



O-ring
P/N MS29513-008



O-ring
P/N MS29513-043

FSP-KT-4
P/N MS29513-043 O-ring
P/N MS29513-008 O-ring



Gasket
P/N CA751-871

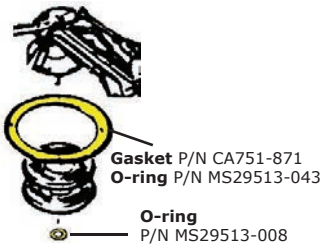
Fuel Strainer Seal Kits for Piper Aircraft continued from previous page

Improved seal at half the price!
Each kit includes both the upper and lower seal for one fuel strainer. Parts also available individually.



PA-23 and PA-44 Series
Kit P/N FSP-KT-1
Replace leaky copper crush seals with high performance Stat-O-Seals

- FAA-PMA approval to replace P/N 753-205 copper crush gaskets on the Aztec, Apaches, and Seminoles with stainless steel/fluorocarbon Stat-O-Seals
- The old copper crush gaskets were unreliable and poorly suited for sealing against the small lip on the bottom of the fuel bowl. They often required several attempts to get a satisfactory seal
- With our improved Viton Stat-O-Seal design, a positive seal is ***easy to achieve!***
- Kit also includes P/N MC751-882 upper gasket



PA-31, PA-34, PA-36, and PA-46 Series
Kit P/N FSP-KT-2
Fuel Proof O-Rings and Stat-O-Seals

- Improved FAA-PMA O-rings and Stat-O-Seals
- Fuel proof fluorocarbon that won't swell or degrade like the original Buna N seals

PA-24, PA-28-235, PA-30, PA-32, and PA-39 Series
Kit P/Ns FSP-KT-3 and FSP-KT-4
Fuel Bowl Gasket and O-Rings

- FSP-KT-3 replaces P/N 751-871 upper gasket and MS29513-008 (supersedes Piper P/Ns 755-919, 485-331, and 485-332) lower seal O-ring used on most of these aircraft
- However, some PA-28-235 and PA-32 aircraft use a newer style fuel strainer that use a MS29513-043 (supersedes Piper P/Ns 762-503 and 483-330) O-ring for an upper seal instead of the 751-871 gasket. These aircraft must use P/N FSP-KT-4.
- Kits contain PMA gaskets, standard O-rings, and O-rings per Piper SB 1198A



PA-28 Series (except PA-28-235)
P/N CA462-049
Fuel Strainer/Gascolator Gasket

- FAA-PMA approved direct replacement for Piper P/N 462-049
- P/N CA462-049 not recommended to be used with autogas

Aircraft Model	Serial Number	Gasket/O-ring Upper Seal P/N	Gasket/O-ring Lower Seal P/N	Kit P/N
PA-23-235, 250	All	MC751-882	MC753-205	FSP-KT-1
PA-E23-250	All	MC751-882	MC753-205	FSP-KT-1
PA-24-400	All	CA751-871	MS29513-008	FSP-KT-3
PA-28-140, 150, 160, 180	All	CA462-049	N/A	N/A
PA-28-151, 161	All	CA462-049	N/A	N/A
PA-28-181	28-7690001 thru 28-7990626, 28-8090001 thru 28-8690062	CA462-049	N/A	N/A
PA-28-201T	All	CA462-049	N/A	N/A
PA-28-235	All	CA751-871 (gasket) MS29513-043 (O-ring)	MS29513-008	FSP-KT-3 (gasket) FSP-KT-4 (O-ring)
PA-28-236	All	CA462-049	N/A	N/A
PA-28R-180	All	CA462-049	N/A	N/A
PA-28R-200	All	CA462-049	N/A	N/A
PA-28R-201, 201T	All	CA462-049	N/A	N/A
PA-28RT-201, 201T	All	CA462-049	N/A	N/A
PA-30	All	CA751-871	MS29513-008	FSP-KT-3
PA-31	All	MC757-255	MC751-898	FSP-KT-2
PA-31-300	All	MC757-255	MC751-898	FSP-KT-2
PA-31-325	All	MC757-255	MC751-898	FSP-KT-2
PA-31-350, 350 (T1020)	All	MC757-255	MC751-898	FSP-KT-2
PA-31P, 350	All	MC757-255	MC751-898	FSP-KT-2
PA-32-260	All	CA751-871 (gasket) MS29513-043 (O-ring)	MS29513-008	FSP-KT-3 (gasket) FSP-KT-4 (O-ring)
PA-32-300	All	CA751-871 (gasket) MS29513-043 (O-ring)	MS29513-008	FSP-KT-3 (gasket) FSP-KT-4 (O-ring)
PA-34-200T, 220T	All	MC757-255	MC751-898	FSP-KT-2
PA-36-285, 300, 375	All	MC757-255	MC751-898	FSP-KT-2
PA-38-112	All	CA462-049	N/A	N/A
PA-39	All	CA751-871	MS29513-008	FSP-KT-3
PA-44-180, 180T	All	MC751-882	MC753-205	FSP-KT-1
PA-46-310P, 350P	All[1]	MC757-255	MC751-898	FSP-KT-2
PA-46R-350T	All[1]	MC757-255	MC751-898	FSP-KT-2



Fuel Strainer/ Gascolator Gasket
P/N CA462-049



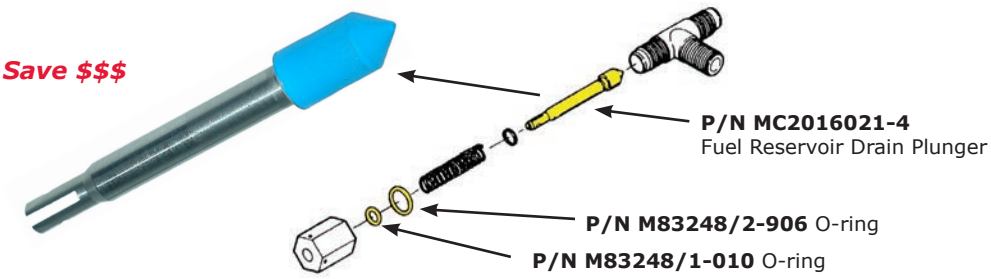
Copper Crush Gasket
P/N 753-205

Note:
[1] When equipped with filter assembly 561-046 or 599-180 (Air Maze).

P/N with MC prefix is mfg by McFarlane.
P/N with CA prefix is mfg by PMA Products.

Cessna 177RG and F177RG Fuel Reservoir Drain Plunger

- All metal, one piece design eliminates the flimsy C-clip
- McFarlane's Vulcanize bonded blue Viton® rubber tip outlasts the original in any fuel
- Convenient kit available containing the plunger and O-rings: P/N FDV-KT-1



Fuel Bowl Gaskets for Cessna 300 thru 400 Series

P/N CAB3-11-1
Replaces OEM P/N B3-11-1



Manufactured by PMA Products

P/N CAB3-11-1
300 series (except 303)
400 series (except 02C, 406, 425, 441)

Marvel-Schebler Fuel Inlet Screen Gaskets and Cotter Keys

The copper gaskets should be changed when finger screens are inspected at each annual inspection

- Fits many carbureted aircraft!
- Cad plated for corrosion resistance!
- Save up to 70%!



MC16-A108 *MC16-A36* *MC16-A48* *MC82-1 MC82-11 MC82-14*

Engine Model		Marvel-Schebler/Facet Carburetor Models	P/N
Continental	Lycoming		
A-65, A-75, C-85, C-90, O-200, C-125, C-145, O-300	O-235, O-290, O-320	MA-3, MA-3PA, MA-3A, MA-3SPA, MA-4SPA	MC16-A36
GO-300, O-470	O-340, O-360, O-435, O-540	MA-4-5, MA-5AA, MA-4-5AA, MA-5, MA-6, MA-6AA, A-6	MC16-A48
		MA4-5, MA-4-5AA, MA-5, MA-6AA, HA-6	MC16-A108
		MA-4-5, MA-4-5AA, MA-5, MA-5AA, MA-6AA	MC82-1
A-65, A-75, C-85, C-90, O-200, C-125, C-145, O-300, GO-300, O-470	O-235, O-290, O-320, O-340, O-360, O-435, O-540	MA-3, MA-3A, MA-3PA, MA-3SPA, MA-4SPA, MA-4-4, MA-4-5AA, MA-5, MA-5AA, MA-6, MA-6AA	MC82-11
		MA-3A, M A-3PA, MA-3SPA, MA-4SPA, MA-4-5, MA-5, MA-5AA, MA-6, MA-6AA, HA-6	MC82-14

Stat-O-Seal for Cessna Aircraft

FAA-PMA Approved P/N MC600-001-10

- Fuel-proof viton rubber
- Save $$$
- Fits some fuel drain valves
- Replaces Cessna P/Ns: 600-0000-10, 600-001-10, 600-0101-10



Aircraft
210, 210A
310R, T310R
335
340, 340A
401, 401A,B
402, 402A,B,C
404
411, 411A
414, 414A

King Air Fuel Drain Valve

Improved, repairable valve for thousands less than Beech!
Fuel Drain Valve P/N MC90-380016-1

- Improved seal design provides a long life reliable valve
- Teflon lined control conduit and stainless steel cable
- Reliable design - proven over 10,000 cycles
- Approved for models A90, B90, C90, C90A, C90GTi, C90GT, E90, F90, 99, 99A, A99, B99, C99, 100 and A100
- Latest Viton fuel-proof seals
- Anodized for better corrosion resistance

SAVE $$$

P/N MC90-380016-1 consists of two components: a valve housing and a replaceable valve control/plunger subassembly (P/N 6325K). Only McFarlane valves are repairable, Beech valves do not have replaceable components.





Unheard of 10 Year Limited Warranty!

Fuel Drain Valve Assembly for Cessna 185

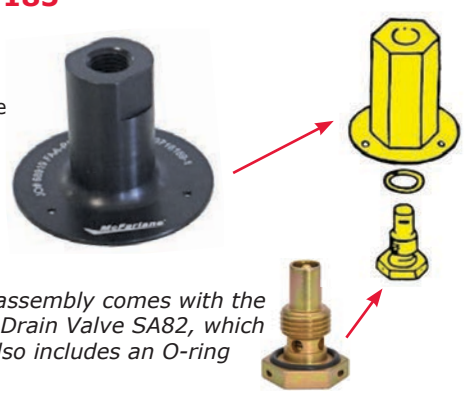
P/N MC0716169-1

- Stronger, no-weld design
- Corrosion resistant aluminum alloy
- Sealed anodized finish for better corrosion resistance
- Save hundreds $$$

Longer lasting, more compact design

Maintenance Tip:
We also offer Tee Fitting P/N MS20825-6D, which is commonly replaced at the same time as the Fuel Drain Valve Assembly.

Aircraft	Serial Numbers
185A,B,C,D,E, A185E,F	185-0414 thru 18503683



Our assembly comes with the Fuel Drain Valve SA82, which also includes an O-ring

Tee Fitting

P/N MS20825-6D
Anodized aluminum alloy

Tube outer diameter: 3/8"
Tube Thread: 9/16-18
Pipe Thread: 1/4"



Fuel and Oil Quick Drain Valves

- Simple operation — spring load close
- FAA-PMA, FAA-TSO or MIL-SPEC approved

A clean, no-mess way to test and drain fuel or oil!

SAF-AIR Aviation Products

- Unique O-ring placement prevents leaks by eliminating areas where dirt can gather
- O-rings can be replaced instead of buying a new valve
- Seal kits available

Curtis Superior Valve Co. Inc.

- Corrosion resistant, stainless steel springs
- Special "cure dated" synthetic rubber seals to withstand many liquids and temperatures
- Unique wedge seal design prevents leakage


P/N SA187


P/N CAV-160


P/N CCB-36450


P/N CCA-2460


P/N P5000


P/N 1250

Thread: "UNF" (Fine Thread) type are straight, non-sealing threads that rely on an O-ring to provide a seal. "NPT" (Pipe Thread) type are tapered threads that seal as they are tightened. Measure the O.D. of the thread on the valve you are replacing and compare to the thread specifications table on page 192 to determine the correct thread size.

Locking: Indicated valves lock in the open position for easy draining.

Flush mounted: Indicated valves are designed to mount flush with aircraft skin.

Use Pin Type Cup: Pin type cups similar to P/N CCA-39680 or MCCCA-39680 may be used with indicated valves for sampling fuel.

Open Action: "Spiral" valves require a push and turn action to open, "Push" valves require a push action to open.

Hose Adapter Size: A hose may be attached to the indicated valves for ease of draining fuel. The size indicated is the hose I.D.

Thread	Lock	Flush Mount	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval & Conformity Notes	Mfg	Part Number and Notes	Inx pg 218	Alternate P/Ns
	●		●	Push	1/2"	360 Brass	FAA-TSO	SAF	C500 3	22	CCA-3400
3/8 NPT	●			Spiral	1/2"	Brass, Unplated	FAA-TSO 9	Curt	CCA-3400	59	C500
1/8 NPT						360 Brass	FAA-TSO	SAF	B187	21	
1/8 NPT				Push	1/4"	360 Brass	FAA-PMA	SAF	CAV-110H-4 1	24	BJ1000AH1, CCA-110-H4
1/8 NPT				Push	1/4"	360 Brass	FAA-PMA	Curt	CCA-110-H4 1		CAV-110H-4
1/8 NPT				Spiral		Brass, Cad Plate	FAA-TSO 3	Curt	CCA-36150	61	BJ1000AS1MY, CAV-110
1/8 NPT			●	Push		360 Brass	FAA-PMA	SAF	CAV-110 1	23	BJ1000AS1MY, CCA-1250, CCA-1550, CCA-36150, CCA-7450, CCB-36700
1/8 NPT			●	Push		Brass, Cad Plate	FAA-TSO 2	Curt	CCB-36700	90	BJ1000AS1MY, CAV-110
1/8 NPT			●	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-1800 1	44	CAV-110, BJ1000AS1MY
1/8 NPT			●	Push		303 SS	Experimental	SAF	110SS	2	
1/8 NPT				Push		303 SS	FAA-TSO	Curt	CCA-110SS 1		
1/8 NPT			●	Push	1/4"	303 SS	Experimental	SAF	110HSS	1	
1/8 NPT		●	●	Push		360 Brass	FAA-TSO	SAF	SA18 14	113	491-806, CCA-2500, F391-18, S2106-3
1/8 NPT		●	●	Push		360 Brass	FAA-TSO	SAF	SA187 14	114	491-806, CCA-2500, F391-187, S2106-3
1/8 NPT		●	●	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2500 7	53	491-806, F391-187B, SA187, S2106-3, SA18,
1/8 NPT	●			Push		Brass, Unplated	FAA-TSO 3	Curt	CCA-1550	40	492-100, 492-022, CAV-110 BJ1000AS1MY, BJ1000A-1, 1250
1/8 NPT	●		●	Push		360 Brass	FAA-TSO	SAF	1250 1	9	BJ1000A-1,CCA-1250, CCA-1550, CCA-7450
1/8 NPT	●			Push	1/4"	360 Brass	FAA-TSO	SAF	1250H 1	10	BJ1000AH1
1/8 NPT	●			Spiral		Anodized/ Aluminum	Experimental	Curt	CCA-1100 12	33	
1/8 NPT	●			Spiral		Anodized/ Aluminum	FAA-TSO	Curt	CCA-1150	34	
1/8 NPT	●			Spiral		Brass, Cad Plate	FAA-TSO 3	Curt	CCA-4850	70	1250, 492-100, 492-022, BJ1000A-1
1/8 NPT	●			Spiral		Brass, Unplated	FAA-TSO 3	Curt	CCA-1250	36	1250, 492-100, 492-022, BJ1000A-1, BJ1000AS1MY, CAV-110
1/8 NPT	●			Spiral		Stainless Steel	FAA-TSO 3	Curt	CCB-36750 7	91	1250, 492-100, 492-022, BJ1000A-1, BJ1000A-2
1/4 NPT				Push	1/4"	360 Brass	FAA-PMA	SAF	CAV-160H-4 1	26	BJ1000AH2
1/4 NPT				Push	1/4"	360 Brass	Experimental	Curt	CCA-160-H4		BJ1000AH2, CAV-160H-4
1/4 NPT			●	Push		303 SS	Experimental	SAF	160SS	4	
1/8 NPT	●			Spiral		Brass, Cad Plate	FAA-TSO 3	Curt	CCA-7450 6	78	BJ1000AS1MY, CAV-110, CCA-1250

Continued on the next page

Fuel and Oil Quick Drain Valves continued from previous page

Continued from previous page

Thread	Lock	Flush Mount	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval Type and Conformity Notes	Mfg	Part Number and Notes	Fig on pg 218	Alternate P/Ns
1/8 NPT	●			Spiral		Brass, Cad Plate	FAA-TSO 3	Curt	CCA-9950 7	84	
1/4 NPT			●	Push	1/4”	303 SS	Experimental	SAF	160HSS	3	
1/4 NPT				Push		303 SS	FAA-TSO	Curt	CCA-160SS		
1/4 NPT			●	Push		360 Brass	FAA-PMA	SAF	CAV-160 1	25	BJ1000AS1MX, CCA-1300, CCA-1600, CCA-4900
1/4 NPT			●	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-1900 1	45	CAV-160, BJ1000AS1MX
1/4 NPT			●	Push		304 Stainless	FAA-TSO	SAF	SA-60S	119	
1/4 NPT		●	●	Push		360 Brass	FAA-TSO	SAF	SA14	112	CCA-2600, F391-14
1/4 NPT		●	●	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2600 7	54	F391-14, SA14
1/4 NPT	●		●	Push		360 Brass	FAA-TSO	SAF	2500 1	11	BJ1000A-2, CCA-1300, CCA-1600, CCA-4900
1/4 NPT	●			Push	1/4”	360 Brass	FAA-TSO	SAF	2500H 1	12	BJ1000AH2
1/4 NPT	●			Push		Brass, Cad Plate	FAA-TSO 4	Curt	CCA-4800 7	69	
1/4 NPT	●			Push		Brass, Unplated	FAA-TSO 4	Curt	CCA-1600	41	2500, BJ1000A-2
1/4 NPT	●			Spiral		Brass, Cad Plate	FAA-TSO 4	Curt	CCA-4900	71	2500, BJ1000A-2
1/4 NPT	●			Spiral		Brass, Unplated	FAA-TSO 4	Curt	CCA-1300	37	2500, BJ1000A-2
1/4 NPT	●			Spiral		Stainless Steel	FAA-TSO 4	Curt	CCA-39000	63	
3/8 NPT	●			Push		Brass, Unplated	FAA-TSO 5	Curt	CCA-1650	42	BJ1000A-3, P3750
3/8 NPT	●			Push		Anodized/ Aluminum	None 12	Curt	CCA-7000	77	
3/8 NPT	●		●	Push		360 Brass	FAA-TSO	SAF	P3750 1	105	
3/8 NPT	●			Spiral		Brass, Cad Plate	FAA-TSO 5	Curt	CCA-4950	72	BJ1000A-3, P3750
3/8 NPT	●			Spiral		Brass, Unplated	FAA-TSO 5	Curt	CCA-1350	38	
3/8-24 UNF				Push		303 SS	FAA-TSO	Curt	CCA-170SS 1		
3/8-24 UNF			●	Push		303 SS	Experimental	SAF	180SS	8	
3/8-24 UNF			●	Push	1/4”	303 SS	Experimental	SAF	180HSS	7	
3/8-24 UNF			●	Push		360 Brass	FAA-PMA	SAF	CAV-180 1	29	1100B52Z
3/8-24 UNF				Push	1/4”	360 Brass	FAA-PMA	SAF	CAV-180H-4 1	30	
3/8-24 UNF				Push		360 Brass	Experimental	Curt	CCA-180-H4		CAV-180H-4
3/8-24 UNF			●	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-2000 1	46	CAV-180, 1100B52Z
3/8-24 UNF		●	●	Push		360 Brass	FAA-TSO	SAF	SA32	115	CCA-2700, F391-32, S2106-1
3/8-24 UNF		●	●	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2700 7	55	F391-32, S2106-1, SA32
3/8-24 UNF	●		●	Push		360 Brass	FAA-TSO	SAF	3750 1	13	
3/8-24 UNF	●			Push	1/4”	360 Brass	FAA-TSO	SAF	3750H 1	14	
1/2-20 UNF		●	●	Push		Aluminum Anodized	FAA-PMA	SAF	SA5020	116	
1/2-20 UNF		●	●	Push		360 Brass	FAA-TSO	SAF	SA82 15	60	C100360, CCA-2900, F391-82, S2020-1
1/2-20 UNF		●	●	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2900 7	57	C100360, F391-82, SA82, S2020-2
1/2 NPT	●			Push		Brass, Unplated	FAA-TSO 1	Curt	CCA-1700 7	43	
1/2 NPT	●			Push	3/8”	Brass, Unplated	FAA-PMA 9	Curt	CCB-37000 7	92	
1/2 NPT	●			Spiral		Brass, Unplated	FAA-TSO 1	Curt	CCA-1400 7	39	
5/8-18 UNF	●			Spiral		Brass, Unplated	FAA-TSO	Curt	CCA-39550 7	65	
5/8-18 UNF	●			Spiral	3/8”	Brass, Unplated	None 12	Curt	CCA-39560 7	66	
3/4-16 UNF		●	●	Push		Aluminum Anodized	FAA-TSO	Curt	CCA-75		F75
3/4-16 UNF		●	●	Push		Aluminum Anodized	FAA-TSO	SAF	F75 3	101	CCA-75
3/4-16 UNF		●		Push		Aluminum Anodized	Experimental	Curt	CCA-1200	35	SA5817-4C, 710C-4
3/4-16 UNF		●		Push		Aluminum Anodized	FAA-TSO	SAF	SA5817-4C 4	118	CCA-1200, 710C-4
3/4-16 UNF		●		Spiral		Aluminum Anodized	10	Curt	CCB-36350-1	87	971D, 971D-1, F75
3/4-16 UNF	●	●		Push		Alodine/ Aluminum	FAA-TSO 12	Curt	CCB-36450	88	
3/4-16 UNF	●	●		Push		Aluminum Anodized	10	Curt	CCB-36450-5 13	89	
3/4-16 UNF	●	●		Push		Aluminum/ Nylon	FAA-TSO 10	Curt	CCB-37500 13	93	
3/4-16 UNF	●	●		Spiral		Aluminum Anodized	10	Curt	CCA-7500 10 11	79	
3/4-16 UNF	●	●		Spiral		Aluminum Anodized	10	Curt	CCA-7500-1 10	80	
3/4-16 UNF	●	●		Spiral		Aluminum Anodized	10	Curt	CCA-7500-2 10 12	81	

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Fuel and Oil Quick Drain Valves continued from previous page

Continued from previous page

Thread	Lock	Flush Mount	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval Type and Conformity Notes	Mfg	Part Number and Notes	Fig on pg 218	Alternate P/Ns
3/4-16 UNF	●	●		Spiral		Aluminum Anodized	None 12	Curt	CCA-7600 12	83	
3/4-16 UNF	●	●		Spiral		Aluminum Anodized	10	Curt	CCA-7500-5 10	82	
7/16-20 UNF				Push		Aluminum Anodized	FAA-TSO	SAF	4350-6L 2	15	
7/16-20 UNF				Push		Brass, Cad Plate	FAA-TSO 7	Curt	CCB-4320 8	95	110B52Z-G, CAV-170
7/16-20 UNF				Push		Brass, Cad Plate	FAA-TSO 7	Curt	CCA-5800-3 7	75	110B52Z-G, CAV-170
7/16-20 UNF				Spiral		Brass, Cad Plate	FAA-TSO 7	Curt	CCA-5800-1 7	74	110B52Z-G, CAV-170
7/16-20 UNF			●	Push		303 SS	Experimental	SAF	170SS	6	
7/16-20 UNF			●	Push	1/4”	303 SS	Experimental	SAF	170HSS	5	
7/16-20 UNF			●	Push		360 Brass	FAA-PMA	SAF	CAV-170 1	27	110B52ZG, CCA-4300, CCA-5800-1, CCA-5800-3, CCB-4320
7/16-20 UNF				Push	1/4”	360 Brass	FAA-PMA	SAF	CAV-170H-4 1	28	BJ1000AHS-1
7/16-20 UNF				Push		360 Brass	Experimental	Curt	CCA-170-H4		BJ1000AHS-1, CAV-170H-4
7/16-20 UNF				Push		303 SS	FAA-TSO	Curt	CCA-180SS 1		
7/16-20 UNF			●	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-2100 1	47	CAV-170, 110B52ZG
7/16-20 UNF		●	●	Push		360 Brass	FAA-TSO	SAF	SA53S 15	117	CCA-53, F391-53S
7/16-20 UNF		●	●	Push		Brass	FAA-TSOb	Curt	CCA-53	N/A	SA53S, F391-53S
7/16-20 UNF		●	●	Push		360 Brass	FAA-TSO	SAF	SA72	120	CCA-2800, F391-72, S2106-2
7/16-20 UNF		●	●	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2800 7	56	F391-72, S2106-2, SA-72
7/16-20 UNF	●		●	Push		360 Brass	FAA-TSO	SAF	4375 1	16	71D-4, BJ1000AS1M, CCA-4300, CCA-5800-1
7/16-20 UNF	●			Push	1/4”	360 Brass	FAA-TSO	SAF	4375H 1	17	BJ1000AHS1, CCA-5400
7/16-20 UNF	●			Spiral		Brass, Cad Plate	FAA-TSO 7	Curt	CCA-4300 7	67	110B52Z-G, 4375, CCA-5800-1 BJ1000AS1M, CAV-170, 71D-4
7/16-20 UNF	●			Spiral	1/4"	Brass, Cad Plate	FAA-TSO 9	Curt	CCA-5400 7	73	4375H, BK1000AHS1
9/16-18 UNF				Push		Alum. Anodized	Experimental	SAF	A5625	19	
9/16-18 UNF				Push		Brass, Cad Plate	FAA-TSO 8	Curt	CCA-31300 7	58	
9/16-18 UNF				Push		Alum. Anodized Red	FAA-TSO 8	Curt	CCA-39500	64	
9/16-18 UNF				Sprial		Brass, Cad Plate	FAA-TSO 8	Curt	CCA-36400 7	62	
9/16-18 UNF	●			Spiral		Brass, Cad Plate	FAA-TSO 8	Curt	CCA-4350 9	68	
M16x1.5			●	Push		360 Brass	Experimental	SAF	CAV-2165	31	Soccata TB-20
M16x1.6			●	Push		360 Brass	Experimental	SAF	CAV-M165H5	32	

Notes:

1 Replacement O-rings: see tables on next page
2 Stem can be cut to length per the application
3 Used on bladder style wing tanks
4 Hose attaches to the valve with a 7/16-20 flare fitting
5 Can be used in highly corrosive applications such as salt water.
6 One arm stem with turn-to-lock action
7 Lock wire drilled
8 Button-style push action
9 With stem for turning action
10 With screwdriver slot
11 With screen over screwdriver slot and mounting hardware
12 With mounting hardware (washer & two nuts installed)
13 Meets lightning safety requirement Mil-C-38373, Paragraph 4.6.14
14 P/N SA18 has a hex size of 5/8". P/N SA187 has a hex size of 1/2".
15 Valve inlet is below the threads and O-ring seals against hex face. See figure 117 on page 218.



See page 218 for product images

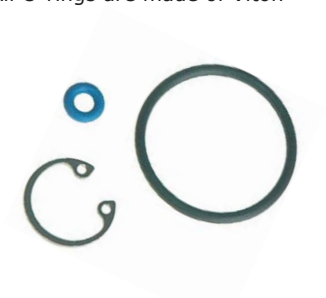
Conformity Notes:

1 Conforms to USAF Spec 28208
2 Conforms to USAF Spec 49F9798-49
3 Conforms to USAF Spec 28208 and 49F9798-49
4 Conforms to USAF Spec 28208 and 49F9798-50
5 Conforms to USAF Spec 28208 and 49F9798-51
6 Conforms to USAF Spec 28208, 49F9798-53 and MIL-V-25023
7 Conforms to USAF Spec 28208, 49F9798-52, MIL-V-25023 and MS29528-4
8 Conforms to USAF Spec 28208, 49F9798-53, MIL-V-25023 and MS29528-6
9 Conforms to USAF Spec 28208 and MIL-V-25023
10 Conforms to USAF Spec 28208, MIL-V-25023 and MS29571
11 Conforms to USAF Spec 49F9798-53 and MIL-V-25023
12 For non-certified aircraft only

Replacement Seals

SAF-AIR Seal Kits

- Add "K" or "-K" to the valve P/N to find the P/N for the applicable seal kit
- Seal kits only applicable for SAF-AIR valves with note 1 above
- All O-rings are made of Viton



Curtis Field Replaceable O-rings / Fuel Valve P/N	MS29513-007 Stem Seal O-ring	MS29513-011 Mounting O-ring	MS29513-012 Mounting O-ring
CCA-1800	●		
CCA-1900	●		
CCA-2000	●	●	
CCA-2100	●		●

Flush Valve Fuel Plate

Supports when added stability is needed to mount a flush mount valve directly into a wet wing or fuel tank

- 2¾" overall diameter, 1½" from mounting surface to bottom hole diameter
- CCB-36450-5 flush mounted fuel drain valve is included



Manufactured by Curtis Superior Valve Co.

P/N	Description
PLT-275V	Flush Valve Fuel Plate without mounting holes. Includes CCB-36450-5 flush mounted drain valve. Non-certified aircraft only.
PLT-275AV	Flush Valve Fuel Plate with mounting holes drilled. Includes CCB-36450-5 flush mounted drain valve. Non-certified aircraft only.

Replacement Seals

FAA-PMA approved seals for Curtis Valves

Manufactured by PMA Products

Seal P/N	Valve P/N	Aircraft	Serial Number	ID (in)	OD (in)	Thickness (in)
CACCA1269	CCA-4850	B55	TC-1608 thru TC-2071	0.100	0.280 - 0.285	0.064 - 0.068
		E55	TE-938, TE-943 thru TE-1102			
		58	TH-1 thru TH-2124			
CACCA1319	CCA-3400	B55	TC-1608 and On	0.150	0.350	0.058
		E55	TE-938, TE-943 and On			
		58	TH-1 thru TH-2124			

Note: Use with autogas not recommended.



Installation Sockets

Used to torque valves to desired specifications and also prevents valve damage upon installation and removal.



P/N CST-916

P/N		For use with valve P/N
CST-78	Fits all 7/8 Hex Valves	CCA-1400, CCA-1700, CCB-37000, CCA-39550, CCA-39560
CST-716	Fits all 7/16 Hex Valves	CCA-1250, CCA-1550, CCA-4850, CCA-7450, CCA-9950, CA-36150, CCB-36750
CST-916	Fits all 9/16 Hex Valves	CCA-1300, CCA-1600, CCA-4800, CCA-4900, CCA-39000
CST-1116	Fits all 11/16 Hex Valves	CCA-1350, CCA-1650, CCA-2440, CCA-2450, CCA-2460, CCB-4320, CCA-4950, CCA-5400, CCA-5800-1
CST-36450	For removal of certain Curtis flush mounted valves	CCB-36450, CCB-36450-5

Curtis Fuel Sampling Cup

P/N MCCCA-39680

Pin diameter: 1/8"

- Stainless steel pin and fuel-resistant clear plastic
- Convenient no-mess method of draining fuel to inspect for proper grade and contaminants
- Works with any quick drain valve designed for a pin type cup.

With our McFarlane logo!



Oil Drain Valve Adapters and Openers

Used with CCA-2450 and CCA-2460 oil drain valves to adapt to Rotax and Jabiru engines. Adapters are for non-certified aircraft only.



P/N RM12175



P/N CCA-2474



P/N F50-90



P/N F50-180



P/N CCA-2470
P/N CCA-2480

P/N	Thread	Material	Description
AN6-INV		2011 Aluminum	Christen inverted oil system
AN8-INV		2011 Aluminum	Christen inverted oil system
AN10-INV		2011 Aluminum	Christen inverted oil system
CCA-2470	12MM 1.75	Aluminum	Rotax 90-Degree adapter for CCA-2450 oil drain valve
CCA-2474	12MM 1.75	Aluminum	Rotax oil tank adapter for late models with CCA-2450 oil drain valve
CCA-2480	1/2-20 UNF	Aluminum	Jabiru 90-Degree adapter for CCA-2460 oil drain valve
F50-90			Opener - attaches at a 90 degree angle from valve.
F50-180			Opener - attaches straight out of the valve.
M1290B	1/2-20 UNF	2011 Aluminum	Banjo Bolt, Rotax for S5020J oil drain valve
M1490B	1/2-20 UNF	2011 Aluminum	Banjo Bolt, Volkswagen for S5020J oil drain valve
RM12175		2011 Aluminum	Rotax, Oil must be used on all new oil tanks being produced by Rotax as they changed the internal design on the tank requiring an adapter to use an oil drain valve.
S5090B	1/2-20 UNF	2011 Aluminum	Banjo Bolt, Jabiru for S5020J oil drain valve
S6290B	5/8-18 UNF	2011 Aluminum	Banjo Bolt, Continental for S6250 oil drain valve

Locking Oil Drain Valves

Features a detent to lock in the open position

P/N S6250



Thread: "UNF" (Fine thread) type are straight, non-sealing threads that rely on an O-ring to seal. "NPT" (Pipe Thread) type are tapered threads that seal as they are tightened. Others are metric threads. Measure the O.D. of the thread on the valve you are replacing and compare to the thread specification table in maintenance tips to determine the correct thread size.

Open Action: Spiral valves require a push and turn action to open.

Hose Adapter: A hose adapter may be attached to the indicated valves for ease of draining. The size indicates the hose I.D.

Thread	Open Action	Hose Adapter Size	Material	Approval	OEM	Part Number	See Figure on pg 218
1/2-14 NPT	Push	3/8"	Aluminum, Anodized	FAA-PMA	Curtis	CCB-5000	121
1/2-14 NPT	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	P5000 3	106
1/2-14 NPT	Push		Aluminum	FAA-PMA	Curtis	CCB-38000 8	94
1/2-14 NPT	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F50 3 5	99
1/2-14 NPT	Push		Aluminum	None 6	Curtis	CCB-36000H	86
1/2-20 UNF		3/8"		None 6	SAF-AIR	A5020 3	18
1/2-20 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S5020J 3	109
1/2-20 UNF	Sprial	3/8"	Brass, Unplated	None 6	Curtis	CCA-2460	50
1/2-20 UNF	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2485 2	52
3/4-14 NPT	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	P7500 3	107
3/4-14 NPT	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F175 3	98
3/4-16 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S7516 3	111
3/4-16 UNF	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F167 3	97
5/8-18 UNF	Push	3/8"	Aluminum, Anodized	FAA-PMA	Curtis	CCB-6250	122
5/8-18 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S6250 3	110
5/8-18 UNF		3/8"	2011 Aluminum, 302 Stainless	None 6	SAF-AIR	A62-INV 4	20
5/8-18 UNF	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F62 3 5	100
5/8-18 UNF		3/8"	Aluminum	None 6	Curtis	CCB-32000	76
5/8-18 UNF	Push	3/8"	Aluminum	None 6	Curtis	CCB-33000	85
1"-18 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S1000 3	108
1"-18 UNF	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F10 3 5	96
12MM 1.75	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	M12175 3	102
12MM 1.75	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2450	49
12MM 1.75	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2475 1	51
14MM 1.50	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2440	48
20MM 1.50	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	M20150 3	104
		3/8"	2011 Aluminum, 302 Stainless	7	SAF-AIR	M14150 3	103

1 Includes P/N CCA-2450 valve and P/N CCA-2470 adapter

2 Includes P/N CCA-2460 valve and P/N CCA-2480 adapter

3 Replacement o-ring kits available. Add "K" or "-K" to valve part number. The F62-K contains (1) o-ring, gasket, and snap ring. The older drain valves F62 used (2) o-rings. Call Saf-Air to get older o-rings if you have the older version of valve.

4 Used with AN6, AN8 and AN10 adapters to replace a cap. The valve and adapter are sold together.

5 2-piece, low profile. P/N F50-180 opener (attaches straight out of valve) included. P/N F50-90 opener available (attaches at 90° angle).

6 For non-certified aircraft only

7 For use on UL engines

8 Includes P/N CCB-38000 or CCB-32000 valve and P/N CCA-38001 activation tool.

Maintenance Tips:

Curtis Superior and SAF-AIR valves are designed for installation in a standard NPT port for NPT threaded valves or an AND-10050 style port for UNF threaded valves. Use a sealant on NPT threaded valves or a fuel resistant O-ring of the proper size for UNF threaded valves. Refer to aircraft manufacturer's torque specifications for the appropriate aircraft or to the torque specifications in the table below for Curtis valves.

Replace the rubber seals as per the aircraft manufacturer's recommendations or every 10 years when no guidance is given. McFarlane stocks replacement seals and seal kits for Curtis Superior and SAF-AIR. The new Curtis valves use a O-ring type seal instead of the flat seal that was previously used.

SAF-AIR valves are designed to disassemble and replace the O-rings. If the valve starts to leak over time, ensure the drain valve is tight. If the valve *is* tight, check the O-rings. All O-rings used are buna "n", MS29513 style, MIL-P-5315. SAF-AIR O-ring seal kits are available for most valves. Add "K" or "-K" suffix to the valve part number.

Never keep a hose attached to the oil drain valve in flight. Engine vibration and the additional mass can cause premature seal and valve wear, which could result in valve failure and a loss of engine oil.

Thread Specifications		
Thread O.D.	**Thread**	**Curtis Torque Spec**
0.375	3/8-24 UNF	80-85 In. Lbs
0.405	1/8-27 NPT	40-45 In. Lbs
0.438	7/16-20 UNF	80-85 In. Lbs
0.500	1/2-20 UNF	80-85 In. Lbs
0.540	1/4-18 NPT	80-85 In. Lbs
0.563	9/16-18 UNF	80-85 In. Lbs
0.625	5/8-18 UNF	100-115 In. Lbs
0.675	3/8-18 NPT	105-115 In. Lbs
0.750	3/4-16 UNF	80-85 In. Lbs
0.840	1/2-14 NPT	155-165 In. Lbs
Special Threads with Crush Washers		
Valve P/N	**Thread**	**Curtis Torque Spec**
CCA-2450	12MM 1.75	60-75 In. Lbs
CCA-2460	1/2-20	60-70 In. Lbs
CCA-2470	12MM 1.75	60-70 In. Lbs
CCA-2480	12-50	60-70 In. Lbs

Quick Drain Hoses

Designed to work with the Curtis Quick Drain Valves. In most cases, a simple push and twist action locks the Quick Drain Hose in place. Waste liquid flows through 5 feet of high grade vinyl tubing, preventing messy spills and making a safer, cleaner environment. Tubing will not harden in sub-freezing temperatures.

P/N	Connector Color	Used with Valve P/N
CCB-39600-1	Black	CCA-1400, CCA-1700, CCA-39550
CCB-39600-2	Blue	CCA-1350, CCA-2450, CCA-1650, CCA-4950
CCB-39600-3	Yellow	CCA-1300, CCA-1600, CCA-3400, CCA-4800, CCA-4900, CCA-39000
CCB-39600-4	Silver	CCA-4350, CCA-36400
CCB-39600-5	Brass	CCA-1250, CCA-1550, CCA-4300, CCA-7450, CCA-9950

Manufactured by Curtis Superior Drain Co., Inc.



P/N CCB-39600-5

1  **110HSS** 1/8 NPT	2  **110SS** 1/8 NPT	3  **160HSS** 1/4 NPT	4  **160SS** 1/4 NPT	5  **170HSS** 7/16-20 UNF	6  **170SS** 7/16-20 UNF	7  **180HSS** 3/8-24 UNF	8  **180SS** 3/8-24 UNF	9  **1250** 1/8 NPT	10  **1250H** 1/8 NPT	11  **2500** 1/4 NPT	12  **2500H** 1/4 NPT	13  **3750** 3/8-24 UNF	14  **3750H** 3/8-24 UNF
15  **4350-6L** 7/16-20 UNF	16  **4375** 7/16-20 UNF	17  **4375H** 7/16-20 UNF	18  **A5020** 1/2-20 UNF	19  **A5625** 9/16-18 UNF	20  **A62-INV** 5/8-18 UNF	21  **B187** 1/8 NPT	22  **C500**	23  **CAV-110** 1/8 NPT	24  **CAV-110H-4** 1/8 NPT	25  **CAV-160** 1/4 NPT	26  **CAV-160H-4** 1/4 NPT	27  **CAV-170** 7/16-20 UNF	28  **CAV-170H-4** 7/16-20 UNF
29  **CAV-180** 3/8-24 UNF	30  **CAV-180H-4** 3/8-24 UNF	31  **CAV-2165** M16x1.6	32  **CAV-M165H5** M16x1.6	33  **CCA-1100** 1/8 NPT	34  **CCA-1150** 1/8 NPT	35  **CCA-1200** 3/4-16 UNF	36  **CCA-1250** 1/8 NPT	37  **CCA-1300** 1/4 NPT	38  **CCA-1350** 3/8 NPT	39  **CCA-1400** 1/2 NPT	40  **CCA-1550** 1/8 NPT	41 **CCA-1600** 1/4 NPT	42 **CCA-1650** 3/8 NPT
43 **CCA-1700** 1/2 NPT	44 **CCA-1800** 1/8 NPT	45 **CCA-1900** 1/4 NPT	46 **CCA-2000** 3/8-24 UNF	47 **CCA-2100** 7/16-20 UNF	48 **CCA-2440** 14MM 1.50	49 **CCA-2450** 12MM 1.75	50 **CCA-2460** 1/2-20 UNF	51 **CCA-2475** 12MM 1.75	52 **CCA-2485** 1/2-20 UNF	53 **CCA-2500** 1/8 NPT	54 **CCA-2600** 1/4 NPT	55 **CCA-2700** 3/8-24 UNF	56 **CCA-2800** 7/16-20 UNF
57 **CCA-2900** 1/2-20 UNF	58 **CCA-31300** 9/16-18 UNF	59 **CCA-3400** 3/8 NPT	60 **SA82** 1/2-20 UNF	61 **CCA-36150** 1/8 NPT	62 **CCA-36400** 9/16-18 UNF	63 **CCA-39000** 1/4 NPT	64 **CCA-39500** 9/16-18 UNF	65 **CCA-39550** 5/8-18 UNF	66 **CCA-39560** 5/8-18 UNF	67 **CCA-4300** 7/16-20 UNF	68 **CCA-4350** 9/16-18 UNF	69 **CCA-4800** 1/4 NPT	70 **CCA-4850** 1/8 NPT
71 **CCA-4900** 1/4 NPT	72 **CCA-4950** 3/8 NPT	73 **CCA-5400** 7/16-20 UNF	74 **CCA-5800-1** 7/16-20 UNF	75 **CCA-5800-3** 7/16-20 UNF	76 **CCB-32000** 5/8-18 UNF	77 **CCA-7000** 3/8 NPT	78 **CCA-7450** 1/8 NPT	79 **CCA-7500** 3/4-16 UNF	80 **CCA-7500-1** 3/4-16 UNF	81 **CCA-7500-2** 3/4-16 UNF	82 **CCB-7500-5** 3/4-16 UNF	83 **CCA-7600** 3/4-16 UNF	84 **CCA-9950** 1/8 NPT
85 **CCB-33000** 5/8-18 UNF	86 **CCB-36000H** 1/2-14 NPT	87 **CCB-36350-1** 3/4-16 UNF	88 **CCB-36450** 3/4-16 UNF	89 **CCB-36450-5** 3/4-16 UNF	90 **CCB-36700** 1/8 NPT	91 **CCB-36750** 1/8 NPT	92 **CCB-37000** 1/2 NPT	93 **CCB-37500** 3/4-16 UNF	94 **CCB-38000** 1/2 NPT	95 **CCB-4320** 7/16-20 UNF	96 **F10** 1"-18 UNF	97 **F167** 3/4-16 UNF	98 **F175** 3/4-14 NPT
99 **F50** 1/2-14 NPT	100 **F62** 5/8-18 UNF	101 **F75** 3/4-16 UNF	102 **M12175** 12MM 1.75	103 **M14150** 14MM 1.50	104 **M20150** 20MM 1.50	105 **P3750** 3/8 NPT	106 **P5000** 1/2-14 NPT	107 **P7500** 3/4-14 NPT	108 **S1000** 1"-18 UNF	109 **S5020J** 1/2-20 UNF	110 **S6250** 5/8-18 UNF	111 **S7516** 3/4-16 UNF	112 **SA14** 1/4 NPT
113 **SA18** 1/8 NPT	114 **SA187** 1/8 NPT	115 **SA32** 3/8-24 UNF	116 **SA5020** 1/2-20 UNF	117 **SA53S** 7/16-20 UNF	118 **SA5817-4C** 3/4-16 UNF	119 **SA-60S** 1/4 NPT	120 **SA72** 7/16-20 UNF	121 **CCB-5000** 1/2-14 NPT	122 **CCB-6250** 5/8-15 UNF				

Curtis SUPERIOR VALVE CO. INCORPORATED

SAF-AIR Aviation Products

Photos are not to scale relative to each other

Fuel Gascolator Assemblies

Fast and Easy to Maintain!

Gascolators are precision machined out of 6061 aluminum and an improved O-ring seal. No more wire bails popping out of the cover! Eliminates stripped thumb wheels and screws.

Maintenance Tip:
Avoid sealant on 1st thread to avoid contamination in fuel.

For Piper assemblies, the Gascolator fits in the existing mounting brackets. Mounting brackets for Cessna aircraft are available. Each Gascolator includes a screen, screen retainer, and O-rings to seal the bowl to the top of the gascolator. D series remote drain bowls also include the drain valve and lever.

- FAA-PMA/STC (SA01026SE) and EASA approved
- STC, AML and installation instructions included
- Unique bayonet tab lock makes maintenance easy
- Tested to 180 PSI
- Great for homebuilt aircraft
- Extra O-ring included

Replacement Parts:



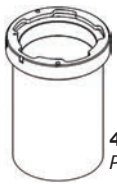
Bracket
P/N SA3-05



Bracket
P/N SA3-07



Bracket
P/N SA3-11



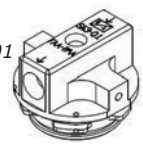
4 oz Bowl
P/N SA3-00-A



4 oz Remote Drain Bowl
P/N SA3-00-D

Barrell Nut Assembly
P/N SA3-14

Cover
P/N SA3-01



Cotter Pin
P/N MS24665-287



Non-sealing O-ring to prevent rocking (4 oz bowls only)
P/N MS28775-130



Screen
P/N SA3-3



Retainer
P/N SA3-4



O-ring (41X2 mm)
P/N V1000



3 oz Bowl
P/N SA3-00

1/4 NPT (3/8 ID Fuel Line) Gascolators					
P/N	**Description**	**Remote Drain**	**Mounting Style**	**Sediment capacity (oz)**	**Max fuel tank capacity (gal)**
SA3-00	3 oz bowl		Side	3	60
SA3-00-B	3 oz bowl with top mount cover		Top	3	60
SA3-00-BS	3 oz bowl for Vulcan Air/ Partenavia aircraft only		Side	3	60
SA3-00-A	4 oz bowl		Side	4	80
SA3-00-C	4 oz bowl with top mount cover		Top	4	80
SA3-00-D	4 oz remote drainable bowl	•	Side	4	80
SA3-00-B-D	4 oz with top mount cover with remote drainable bowl	•	Top	4	80
3/8 NPT (1/2 ID Fuel Line) Gascolators					
SA3-10-B	3 oz bowl		Side	3	60
SA3-10-C	3 oz bowl with top mount cover		Top	3	60
SA3-10	4 oz bowl		Side	4	80
SA3-10-A	4 oz bowl with top mount cover		Top	4	80
SA3-10-D	4 oz remote drainable bowl	•	Side	4	80
SA3-10-A-D	4 oz with top mount cover with remote drainable bowl	•	Top	4	80
Individual Replacement Parts					
C-120/140 Kit	Cessna 120/140 fuel line and bracket install kit contains (1) SA3-05 and (1) SA3-06				
SA3-3	Screen				
SA3-4	Screen Retainer				
SA3-05	Bracket for 120/140 aircraft only				
SA3-06	Fuel Line for 120/140 aircraft only				
SA3-07	Bracket, Side Mount				
SA3-11	Bracket, Side Mount				
SA3-14	Barrell Nut Assembly used on "D" remote series only				
V1000	O-ring (41X2mm)				
MS24665-287	Cotter Pin (3/32" X 1-1/4")				
MS28775-130	O-ring				



3 oz Bowl
P/N SA3-00



4 oz Bowl
P/N SA3-10



4 oz Bowl w/ Top Cover Mount
P/N SA3-10-A



Drainable Bowl
P/N A3-D Series

Eligibility on the following pages

Fuel Gascolator Assemblies continued from previous page



3 oz Bowl
SA3-00



4 oz Bowl
SA3-10



Drainable Bowl
SA3-D Series

Aircraft	S/N	1/4 NPT (3/8 ID Fuel Line) Gascolators P/Ns							3/8 NPT (1/2 ID Fuel Line) Gascolators P/Ns					
		SA3-00 3 oz bowl	**SA3-00-A** 4 oz bowl	**SA3-00-B** 3 oz bowl with top mount cover	**SA3-00-B-D** 3 oz with top mount cover with remote drainable bowl, no bracket	**SA3-00-BS** 3 oz bowl for Vulcan Air/Partenavia aircraft only	**SA3-00-C** 4 oz bowl with top mount cover	**SA3-00-D** 4 oz remote drainable bowl	**SA3-10** 4 oz bowl	**SA3-10-A** 4 oz bowl with top mount cover	**SA3-10-A-D** 4 oz with top mount cover with remote drainable bowl, no bracket	**SA3-10-B** 3 oz bowl	**SA3-10-C** 3 oz bowl with top mount cover	**SA3-10-D** 4 oz remote drainable bowl
Aeronca, Aero Commander (Dynac), (Voltaire)														
100-180, 15AC, S15AC	All												•	
100,100A, 10, 10A	All	•	•					•						
11CC, S11CC	All	•												
50-C,50-L,50-LA,50-TC,50-TL, 60-TF, 65-C, 65-CA,65-LA,65LB,65-TAC,65-TAF, 65-TAL,65-TC, 65-TF,65-TL, CF,K,KC,KCA,KS, O-58A,O-58B, S15AC, S-50-C, S-65-C,S-65-CA, SO-58B, YO-58,YO-TC	All	•	•											
Aviat														
A-1,A-1A,A-1B	All	•	•					•						
A-1C-200	All		•					•						
Bellanca														
14-13,14-13-2,14-13-3,14-13-3W	All			•	•		•							
Britten-Norman (Pilatus)														
BN-2,BN-2A,BN-2A-2,BN-2A-3,BN-2A-6,BN-2A-8, BN-2A-9,BN-2A-20, BN-2A-21,BN-2A-26,BN-2A-27, BN-2B-20,BN-2B-21,BN-2B-26,BN-2B-27	All	•	•					•						
Cessna														
120, 140	All	•	•					•						
150, 150A,B,C,D,E	All			•	•		•							
150F,G,H,J,K,L,M	All[2]		•	•				•						
A150K	All[2]		•					•						
A150L,M	All[2]	•	•					•						
152, A152	All[3]								•					•
170A,B	All			•	•		•							
172, 172A,B,C,D,E,F[1]	28000 thru 17252533			•	•		•							
172F[1],G,H,I,K,L,M,N,P,Q	17252534 and on[3]								•					•
172R,S	All[3]								•					
172RG, P172D, R172E,F,G,H,J,K, 175, 175A,B,C	All			•	•		•							
177, 177A,177B	All[3]								•					•
180, 180A,B,C,D,E,F,G,H[1]	30000 thru 18051496									•	•			
180H[1],J,K	18051497 thru 18053203[3]													•
182, 182A,B,C,D,E,F,G,H[1]	33000 thru 18256039									•	•			
182H[1]J,K,L,M,N,P,Q	18256040 and on[3]													•
185, 185A,B,C,D[1]	185-0001 thru 185-0843									•	•			
185D[1],E, A185E,F	185-0844 and on[3]													•
210-5(205), 210-5A(205A), 206	All									•	•			
U206A,B,C,D,E,F,G, TU206A,B,C,D,E,F,G	All[3]													•
210, 210A,B,C,D,E, 310, 310A,B,C,D,F,G,H,I,J,K	All									•	•			
305A,B,C,D,E,F	All						•							

[1] Partial Model Eligibility
[2] Use Bracket P/N SA3-07
[3] Use Bracket P/N SA3-11
[4] Must use consolidated gascolator P/N 5221
[5] Systems with ⅜" fuel lines use SA3-00. Systems with ½" fuel lines use SA3-10-C.

Eligibility continued on next page

Fuel Gascolator Assemblies continued from previous page



3 oz Bowl
SA3-00



4 oz Bowl
SA3-10



Drainable Bowl
SA3-D Series

Aircraft	S/N	1/4 NPT (3/8 ID Fuel Line) Gascolators P/Ns							3/8 NPT (1/2 ID Fuel Line) Gascolators P/Ns					
		SA3-00 3 oz bowl	**SA3-00-A** 4 oz bowl	**SA3-00-B** 3 oz bowl with top mount cover	**SA3-00-B-D** 3 oz with top mount cover with remote drainable bowl, no bracket	**SA3-00-BS** 3 oz bowl for Vulcan Air/Partenavia aircraft only	**SA3-00-C** 4 oz bowl with top mount cover	**SA3-00-D** 4 oz remote drainable bowl	**SA3-10** 4 oz bowl	**SA3-10-A** 4 oz bowl with top mount cover	**SA3-10-A-D** 4 oz with top mount cover with remote drainable bowl, no bracket	**SA3-10-B** 3 oz bowl	**SA3-10-C** 3 oz bowl with top mount cover	**SA3-10-D** 4 oz remote drainable bowl
Champion/Aeronca														
7AC,7ACA,7BCM,7CCM,7DC,7EC,7ECA,7FC,7KCAB, S7AC,S7CCM,S7DC,S7EC, 8KCAB, 11AC,11BC, S11AC,S11BC	All	•	•					•						
11CC, S11CC	All		•					•						
7GCAA, 7GCBC,8GCBC	All											•		
Emigh (Edward Scott Kearns)														
A-2	All	•	•					•						
Ercoupe (Univair)														
A-2	All			•			•							
A2-A	All			•										
415-C, 415-CD, 415-D, F-1, F-1A	All	•	•											
415-E	All	•												
M10	All			•										
Extra Flugzeugbau GmbH EA														
300,300/200,300/L,300/S	All	•	•					•						
300/LC		•												
Interstate Aircraft (STOL)														
S-1A,S-1A-65F,S-1A-85F,S-1A-90F	All	•												
Luscombe														
8,8A,8B,8C,8D,8E,8F,T-8F	All	•	•					•						
Maule Bee Dee														
M-4,4C,4S,4T, M-4-180C,180S,180T, M-4-210, 210C,210S,210T,220C,220S, 220T, M-5-180C, 210C,210TC,220C, 235C, M-6-180, 235, M-7-235, M-7-235- A,B,C, M-7-260,260C, MT-7-235,260, MX-7-160,160C,180,180AC,180B,180C, 235, MXT7-160,180,180A, M-8-235	All[5]	•	•					•					•	
M-5-200	All	•						•					•	
Mooney														
M10				•			•							
M-18C,18C55,18L,18LA, M20, M20A,B,C,D,E,F,G,J,K,L,M,R,S,TN[4]	All	•	•											
Navion														
(Sierra Hotel Aero), (Army L-17A), A,B,D,E,F,G,H	All									•	•			
Partenavia														
P.68, 68B,68C,68C-TC	All					•								
Piper														
AE-1, HE-1, JC3-40,50,50S,65,65S, J3F-50,50S, 60,60S,65,65S, J3L, J3L-65,65S, J3L-S, J4, J4A,A-S, J4E, J5A, J5A-80, J5B, J5C	All	•	•					•						
PA-11, PA-11S, PA12, PA12S, PA-14, PA-15, PA-16, PA-16S, PA-17	All	•	•					•						
PA-18,PA-18A,PA-18S,PA-18 "105" (Special), PA-18S "105",PA-18 "125", PA-18AS "125",PA-18S "125",PA-18 "135",PA-18A"135", PA-18AS "135", PA-18S "135",PA-18 "150",PA-18A "150",PA-18AS "150",PA-18S "150", PA-19 (Army L-18C), PA-19S	All	•	•					•						
PA-20, PA-20 "115", PA-20 "135", PA-20S	All	•	•											

[1] Partial Model Eligibility
[2] Use Bracket P/N SA3-07.
[3] Use Bracket P/N SA3-11.
[4] Must use consolidated gascolator P/N 5221.
[5] Systems with ⅜" fuel lines use SA3-00. Systems with ½" fuel lines use SA3-10-C.

Eligibility continued on next page

Fuel Gascolator Assemblies continued from previous page



3 oz Bowl
SA3-00



4 oz Bowl
SA3-10



Drainable Bowl
SA3-D Series

Aircraft	S/N	1/4 NPT (3/8 ID Fuel Line) Gascolators P/Ns							3/8 NPT (1/2 ID Fuel Line) Gascolators P/Ns					
		SA3-00 3 oz bowl	**SA3-00-A** 4 oz bowl	**SA3-00-B** 3 oz bowl with top mount cover	**SA3-00-B-D** 3 oz with top mount cover with remote drainable bowl, no bracket	**SA3-00-BS** 3 oz bowl for Vulcan Air/Partenavia aircraft only	**SA3-00-C** 4 oz bowl with top mount cover	**SA3-00-D** 4 oz remote drainable bowl	**SA3-10** 4 oz bowl	**SA3-10-A** 4 oz bowl with top mount cover	**SA3-10-A-D** 4 oz with top mount cover with remote drainable bowl, no bracket	**SA3-10-B** 3 oz bowl	**SA3-10-C** 3 oz bowl with top mount cover	**SA3-10-D** 4 oz remote drainable bowl
Piper continued from previous page														
PA-20S "115", PA-20S "135", PA-22, PA-22-108, 135,150, 160, PA-22S-135,150,160	All	•	•					•						
PA-23, PA-23-160, 235,250, -E23-250	All	•	•					•						
PA-24	24-1 thru 24-2298	•	•					•						
PA-25	All	•	•					•						
PA-25-235, PA-25-260	25-7405573 thru 25-8156024	•	•					•						
PA-28-140,150,151,160,S-160,161,180, R-180,S-180,181,R-200,RT201, RT201T, 236	All	•	•											
PA-28-235	All	•												
PA-28-201T, PA-28R-201, PA-28R-201T, PA-38-112	All	•	•											
Robinson														
R22, R44, R44II	All	•	•					•						
Rockwell (Commander Aircraft)														
112	3 thru 220	•	•											
Stinson														
108, 108-1	All			•	•									
108-2, 108-3	All									•	•			
Swift														
GC-1A,1B	All			•			•							
Taylorcraft														
BC, BC12-65, BC12-D, BC12-D1,BC12-D85, BC-65, BCS, BCS12-D, BCS12-D1, BCS12D-85, BCS12D-4-85, BCS12-65, BCS-65, DCI-65	All	•	•					•						
DC-65, DF-65, DL-65, DCO-65, F19, F21	All	•	•											

1 Partial Model Eligibility
2 Use Bracket P/N SA3-07.
3 Use Bracket P/N SA3-11.
4 Must use consolidated gascolator P/N 5221.
5 Systems with ⅜" fuel lines use SA3-00.
Systems with ½" fuel lines use SA3-10-C.



3 oz Bowl
P/N SA3-00



4 oz Bowl
P/N A3-10



4 oz Bowl w/ Top Cover Mount
P/N SA3-10-A



Drainable Bowl
P/N A3-D Series

Steve's Aircraft

Fuel Indicator Plates

FAA-PMA Approved for Cessna 150-152

Replace your old plastic placard with our metal indicator plates!

FAA-PMA approved for 150J-M, A150K-M, F150J-L, FA150K-M, 152, A152, F152, FA152

- Powder coated for fade resistance
- Reference your current tank capacity with your model when ordering

Part Number	Tank Capacity (gallons)
MC0410218-10	22.5
MC0410218-11	21.5
MC0405050-1	24.5
MC0405050-2	27.5
MC0410218-12-279	35.0
MC0410218-13-279	37.5



Syringe for TCP Fuel Treatment

P/N 73138

Make precise measurement easy!



Manufactured by Alcor, Inc.

Header Tank

Direct replacement for original sheet metal tank
Front P/N 3169-1A
Rear P/N 3169-2

PA-18, 18-105, 125, 135, 150, A-150, PA-19

- Heavy-duty welded aluminum
- Light-weight
- Eliminates cracking
- FAA-PMA/STC approved



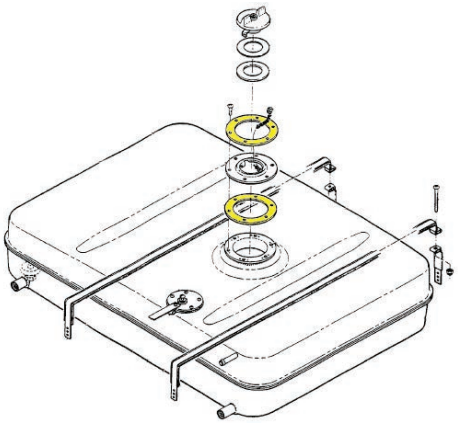
Cessna Fuel Filler Neck and Fuel Tank Adapter Gaskets

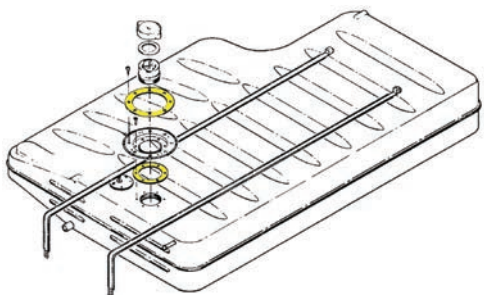
Replace dry, brittle gaskets to prevent water contamination in fuel.

Gaskets required to seal between the wing skin, fuel filler neck, fuel tank adapter and fuel tank.

- Realistically priced!
- Cork/rubber composite gaskets meet strict MIL-SPEC requirements for fuel resistance
- Never reuse these gaskets







Better Upper Gasket!
Thicker, softer material for a better seal around the tinnerman clips.



P/N MC0523532
Thickness 0.062"



P/N MC0523531
Thickness 0.094"



P/N MC0426013-2
Thickness 0.031"



P/N MC0426013-1
Thickness 0.062"

Aircraft	Serial Number	Qty per Aircraft	Part Number
140A	All	2	MC0523531
		2	MC0523532
150, 150A,B,C,D, E,F,G,H,J[1]	17001 thru 15069454	2	MC0523531
		4	MC0523532
150J[1]	15069455 thru 15071128	2	MC0523531
		4 [2]	MC0523532
150K,L[1]	15071129 thru 15072628	2	MC0523531
		4 [2]	MC0523532
150L[1],M	15072629 thru 15079405	2	MC0426013-1
		2	MC0426013-2
A150K,L[1]	A1500001 thru A1500276	2	MC0523531
		4 [2]	MC0523532
A150L[1],M	A1500277 thru A1500734	2	MC0426013-1
		2	MC0426013-2
F150F,G,H,J	All	2	MC0523531
		4	MC0523532
F150K,L[1]	F15000530 thru F15000738	2	MC0523531
		4 [2]	MC0523532
F150L[1],M	F15000739 thru F15001428	2	MC0426013-1
		2	MC0426013-2
FA150K,L[1]	FA1500001 thru FA1500166	2	MC0523531
		4 [2]	MC0523532
FA150L[1],M	FA1500167 thru FA1500336	2	MC0426013-1
		2	MC0426013-2
152, A152, F152, FA152	All	2	MC0426013-1
		2	MC0426013-2
170A	All	A/R	MC0523531
		4	MC0523532
170B	All	2	MC0523531
		4	MC0523532
172, 172A,B,C,D, E,F,G,H,I	All	2	MC0523531
		4	MC0523532
172K,L[1]	17257162 thru 17259823	2	MC0523531
		4	MC0523532
172L[1]	17259824 thru 17259903	2	MC0523531
		4	MC0523532
172L[1],M[1]	17259904 thru 17263458	2	MC0426013-1
172M[1],N,P,Q	17263459 thru 17276654	2	MC0426013-1
		2	MC0426013-2
F172D,E,F,G,H[1]	F172-0001 thru F172-0559	2	MC0523531
		4	MC0523532
F172H[1],K	F172-0560 thru F17200804	2	MC0523531
		4	MC0523532
F172L,M[1]	F17200805 thru F17201234	2	MC0426013-1
F172M[1],N,P	F17201235 thru F17202254	2	MC0426013-1
		2	MC0426013-2
FP172, P172D	All	2	MC0523531
		4	MC0523532
FR172E,F,G,H[1]	FR17200001 thru FR17200300	2	MC0523531
		4	MC0523532
FR172H[1],J,K	FR17200301 thru FR17200675	2	MC0426013-1
R172E,F,G,H[1]	R172-0302 thru R1720494	2	MC0523531
		4	MC0523532
R172H[1]	R1720495 thru R1720620	2	MC0426013-2
R172K	R1722000 thru R1723454	2	MC0426013-1
175, 175A,B,C	All	2	MC0523531
		4	MC0523532

[1] Partial model eligibility
[2] Requires 8 each per aircraft for aircraft with long range tanks

Instruments, Probes, and Leads

CHT, EGT, TIT Gauges and Probes

Longer engine life and enhanced safety through proper monitoring!

Alcor

A name you can trust.

Complete kits also available!



Alcor Instruments and Probes

Avoid wasting money on cheap instruments and probes. ***There is a big difference!***



Increase engine life and enhance safety through proper monitoring

- Faster responding probes than low dollar alternatives
- Temperature compensated gauges for accuracy all year round at any altitude
- Single gauges monitor one cylinder, dual gauges for twin engine aircraft monitor one cylinder per engine. Add a selector switch to make an economical full engine analyzer. *Lighted gauges and custom dials also available!*

Alcor — *A name you can trust*

- 50+ years experience – designed and manufactured in the USA
- Generous warranty: 3 years for gauges, 5 years for grounded probes, 1 year for ungrounded probes
- FAA-PMA/STC approved for all aircraft with reciprocating engines

Simple Installation

- No aircraft power required (lighted gauges require power)
- Works even with an electrical failure
- Great for homebuilt or antiques with no electrical system
- Gauges include all mounting hardware
- Standard 2 ¼" or 3 ⅛" gauge sizes

TIT Gauges

- Dual gauges for twin engine aircraft
- Indicates true temperature from 1200-1700°F in 25° increments



P/N 46124



P/N 46224
P/N 46000-4

P/N	Description	Compatible Thermocouple	Size	Calibration 1
46000-4	TIT/TIT Dual Gauge w/Light 24V	K - Red & Yellow	3⅛"	Scale 1650F @ 6.2 Ω (192") 2
46224	TIT/TIT Dual Gauge	K - Red & Yellow	3⅛"	Scale 1650F @ 7.44 Ω (216") 2
46124	TIT/TIT Dual Gauge	K - Red & Yellow	2¼"	Scale 1650F @ 7.6 Ω (240") 2

1 Factory calibrated at the specified temp. for the total probe and lead resistance. Calibration temp. indicates location of the red line.
2 Factory calibrated for leads of the indicated length, but may be recalibrated for different lead lengths at the factory or with an Alcal 2000 or 2000+ System.

CHT Gauges

Indicates true temperature from 200-600°F or 100-300°C in 25° increments

P/N	Description	Compatible Thermocouple	Size	Calibration 1
46171	CHT Gauge Celsius	J - Black & Yellow	2¼"	250C @ 8.0 Ω
46151	CHT Gauge	J - Black & Yellow	2¼"	500F @ 8.0 Ω
46127	CHT/CHT Dual Gauge	J - Black & Yellow	2¼"	500F @ 8.0 Ω
46157	CHT/CHT Dual Gauge	J - Black & Yellow	3⅛"	500F @ 8.0 Ω

1 Factory calibrated at the specified temperature for any Alcor type J leads and probes.



P/N 46171



P/N 46151



P/N 46127



P/N 46157

Combination CHT/EGT Gauges

- CHT indicates true temperature from 200-600°F in 25° increments
- EGT indicates temperature relative to peak in 25° increments (lean to peak temperature indicated with an * — must be calibrated in-flight)
- 3 ⅛" size includes adjustable reference needle for the EGT

EGT Gauges on next page

P/N	Description	Compatible Thermocouple	Size	Calibration 1
46126	CHT/EGT Dual Gauge	J - Black and Yellow (CHT) K - Red and Yellow (EGT)	2¼"	500F @ 8.0 Ω / 1600F @ 3.63 Ω
46156	CHT/EGT Dual Gauge	J - Black and Yellow (CHT) K - Red and Yellow (EGT)	3⅛"	500F @ 8.0 Ω / 1600F @ 3.63 Ω

1 CHT Factory calibrated for any Alcor J leads and probes. EGT Factory calibrated for specified total lead and probe resistance, but may be re-calibrated in flight.



P/N 46126



P/N 46156

EGT Gauges

Save on fuel costs with precision leaning!

Quick visual reference to peak EGT

- Set peak reference with easy in-flight calibration – special calibration screwdriver included!
- Single 2¼" and dual 3⅛" models include an adjustable reference needle
- Two marking options: Relative to peak (lean to peak temperature indicated with an *asterisk** — must be calibrated in flight) or true temperature from 1200-1700°F in 25° increments



P/N 46125
P/N 46188-3



P/N 46150
P/N 46148 w/Light 12V
P/N 46149 w/Light 24V



P/N 46164



P/N 46244 (7.6 Ω)
P/N 46162 (3.3 Ω)



P/N 46000-1
P/N 46000-3
P/N 46000-7
P/N 46115 (w/light)
P/N 46155

P/N	Description	Compatible Thermocouple	Size	True Temp or Relative to Peak	Calibration [1]
46000-1	EGT/EGT Dual Gauge	K - Red & Yellow	3⅛"	TT	1650F @ 8.2 Ω (264") [2]
46000-3	EGT/EGT Dual Gauge	K - Red & Yellow	3⅛"	TT	1550F (100") [2] Front 3.6 Ω Rear 7.8 Ω (250")[2]
46000-7	EGT/EGT Dual Gauge	K - Red & Yellow	3⅛"	TT	1650F @ 7.6 Ω (240") [2]
46115	EGT/EGT Dual Gauge w/Light 24V	K - Red & Yellow	3⅛"	RTP	1600F @ 7.44 Ω [3]
46125	EGT/EGT Dual Gauge	K - Red & Yellow	2¼"	RTP	1600F @ 7.44 Ω [3]
46148	EGT Gauge w/Light 12V	K - Red & Yellow	2¼"	RTP	1600F @ 3.63 Ω [3]
46149	EGT Gauge w/Light 24V	K - Red & Yellow	2¼"	RTP	1600F @ 3.63 Ω [3]
46150	EGT Gauge	K - Red & Yellow	2¼"	RTP	1600F @ 3.63 Ω [3]
46155	EGT/EGT Dual Gauge	K - Red & Yellow	3⅛"	RTP	1600F @ 7.44 Ω [3]
46162	EGT Gauge w/Green Arc	K - Red & Yellow	2¼"	TT	1650F @ 3.3 Ω (90") [2]
46164	EGT Gauge	K - Red & Yellow	2¼"	TT	1650F @ 3.3 Ω (90")[2]
46188-3	EGT Dual Gauge w/Light	K - Red & Yellow	2¼"	RTP	1600F @ 7.44 Ω [3]
46244	EGT Gauge w/Green Arc	K - Red & Yellow	2¼"	TT	1650F @ 7.6 Ω (240") [2]

[1] Factory calibrated at the specified temperature for the specified total probe and lead resistance. Calibration temperature also indicates the location of the * or red line.

[2] Factory calibrated for leads of the indicated length but may be recalibrated for different lead lengths either at the factory or with an Alcal 2000 or 2000+ System.

[3] Factory calibrated for the specified total lead and probe resistance, but may be easily recalibrated in flight.

Alumel EGT Lead Stagger Adapter

P/N 42523

Converts a probe from normal to reverse stagger



Fiberglass Fire Sleeve

P/N 49297

Protects wires from engine and exhaust heat. 6" length



CHT RTD Thermistor Bulb

FAA-PMA approved P/N AA86146

- Approved replacement for many obsolete part numbers
- Only approved product of its kind

Manufactured by Alcor



Model	Replaces	Model
Beech	AN-5546-1 102-00007 MS24482-1	95-55, 95-B55, G58, E55, E55A, 58, 58P, 58TC, F33A, F33C, V35B, A36, B36TC
Cessna	8013601-4 8013601-6	210, 310, 335, 340, 401, 402, 404
Piper	AN5546-1 102-00007 4537751	PA-31, PA-31-300, PA-31-325

Fuel Pressure Transducer

FAA-PMA approved for Piper and Mooney models

Model	Serial Number	P/N
Piper		
PA-28-181 [1]	2843001 thru 2843027, 2890206 thru 2890231	CA486-439
PA-38-112	3080A0001 thru 3080A0198, 3878A0003 thru 3878A0844, 3879A0001 thru 3879A1179, 3882A0001 thru 3882A0124	CA486-439
PA-44-180	All	CA486-439
Mooney		
M20J	24-0378 thru 24-1417	CA880007-501

Notes:

[1] CA486-439 is approved if electric fuel pressure sender is installed.



Manufactured by PMA Products, Inc.

Oil Pressure Transducer

FAA-PMA approved for Piper and Mooney models



Manufactured by PMA Products, Inc.

Model	Serial Number	P/N
Piper		
PA-38-112	3080A0001 thru 3080A0198, 3878A0003 thru 3878A0844, 3879A0001 thru 3879A1179, 3882A0001 thru 3882A0124	CA486-440
Mooney		
M20J	24-0378 thru 24-1382	CA880008-501

Alcor Leads

- High quality stranded material for flexibility and long life (cheapy single stranded leads are prone to break)
- Used to attach a thermocouple probe to a gauge
- Must be of the same type as the thermocouple (e.g., a Type K probe must use Type K leads)
- Do not shorten or splice as this will alter the resistance and require recalibration of the gauge. See calibration note

CHT Leads

- Integrated resistor ensures the same resistance regardless of length
- Choose leads based on the distance from the probe to the gauge

EGT/TIT Leads

- Each length has a different resistance
- Total resistance of the lead and the probe must match the cali bration of the gauge
- Choose replacement leads based on the calibration of the existing gauge
- For a new system, choose leads based on the distance from the probe to the gauge and choose a gauge with the corresponding calibration

Calibration note:
EGT gauges with relative lean to peak markings may be easily recalibrated in flight per the instructions provided with the gauge. TIT, CHT and EGT gauges with True Temperature markings must either be recalibrated with an Alcal System Tester or returned to Alcor for recalibration if the total lead and probe resistance does not match the gauge calibration. Digital or amplified gauges from other manufacturers are not sensitive to lead resistance, therefore leads may be shortened as needed for these applications without requiring recalibration.





CHT Type J Black and Yellow		
P/N	Resistance	Length
42535	7.76 ± .20 Ω	90"
42536	7.76 ± .20 Ω	144"
42543	7.76 ± .20 Ω	216"
42537	7.76 ± .20 Ω	240"

EGT Type K Red and Yellow		
P/N	Resistance	Length
42525	4.34 ± .08 Ω	90"
42526	2.71 ± .06 Ω	144"
42528	6.52 ± .11 Ω	216"
42527	7.25 ± .12 Ω	240"

Bulk wire now available!
P/N 98156 (Type K Thermocouple Extension)
P/N 98204 (Type J)
P/N 98211 (Type K)

Save with kits see page 229!

JPI, EI and Westach to Alcor Probe Adapter

Makes upgrading to premium Alcor EGT/TIT probes easy!
P/N 74291

- Adapts small diameter (faster response) clamp style Alcor probes to exhaust hole diameters up to 0.25”
- Provides positive exhaust gas seal
- For EGT clamp style Probes



Manufactured by Alcor, Inc.

CHT Bayonet Adapter

P/N 28202

- 3/8"-24 UNF thread
- Threads into cylinder thermowell
- Adapts to standard bayonet probes



Manufactured by Alcor

Bulk Wire and Hardware for Alcor Probes Installed in Garmin Units

Bulk Wire P/N 98214
Hardware P/N 38091

- Wire bulk comes in 50 ft length
- Specifically designed for the Alcor probes in the table, but works with any Type K Alcor probes

Garmin P/N	Alcor P/N	Description
494-700008-01	28202	CHT Adpater (used with probe 86252)
494-700002-00	86245	EGT/TIT Screw-In (7/16-20)
494-700008-00	86252	CHT Bayonet Style Type K (use adapter P/N 28202)
494-700001-00	86255	EGT Clamp Type K

CHT Thermocouple Probes

Includes fire sleeve and ring terminal hardware. Two different mount styles are available:

Bayonet Mount
These twist and lock into a screw-in adapter. The probe is spring loaded to ensure contact with metal instead of air. Choose bayonet style if the engine model is equipped with threaded thermowell receptor and/or bayonet adapter in the cylinders. (see above for adapter)

Gasket Mount
These do not require a screw-in adapter. The 18mm gasket fits on many common spark plugs. Some engine designs, such as radial engines, the O-235 and O-200, may prevent the use of bayonet style or may not allow for the use of a bayonet adapter. Choose gasket style if the engine model is NOT equipped with threaded thermowell receptor and/or bayonet adapter in the cylinders.



P/N 86251



P/N 86202



P/N 86252

P/N	Desc.	Thermocouple Type	Mount	Grounded or Ungrounded	Stagger	Resistance
86251 [1]	CHT Probe	J - Black & Yellow	Bayonet	Grounded	Normal	0.24 ± .05 Ω
86202	CHT Probe	J - Black & Yellow	Gasket, 18 mm	Grounded	Normal	0.13 + .16 Ω - .05 Ω
86252 [1]	CHT Probe	K - Red & Yellow	Bayonet	Grounded	Reverse	0.66 ± .10 Ω
86268	CHT Probe	K - Red & Yellow	Gasket, 18 mm	Grounded	Normal	0.60 ± .10 Ω
86268-2	CHT Probe	K - Red & Yellow	Gasket, 14 mm	Grounded	Normal	0.60 ± .10 Ω

[1] Requires bayonet adapter P/N 28202 (see above). Screws directly into thermowell.

EGT and TIT Thermocouple Probes

Alcor EGT probes are accurate +/-25° at 1500°F. Includes fire sleeve and ring terminal hardware. Two different mount styles available:

Screw-In Mount

This option provides the neatest installation. Many engines now come with a hole already threaded for a screw-in probe. If not, a threaded weld boss (P/N 28113) can be purchased to retrofit an engine. Alcor screw-in probes are available in 7/16"-20 UNF thread common in Continentals or 1/4"-18 NPT thread common in Lycomings. Some probes are available with adjustable depth to accommodate different weld boss heights. The probe tip should be 3/4" into the tube. Screw-in probes are also available with a 90° bend or an 8° bend to allow for an engine design that will not accommodate the straight-in style.

P/N	Indx	Description	Thermocouple Type	Mount	Grounded or Ungrounded	Stagger	Resistance
86143 [1]	16	EGT/TIT Probe	K - Red and Yellow	Screw-In, ¼" NPT	Grounded	Normal	0.89 ± .10 Ω
86160 [2]	3	EGT/TIT Probe	K - Red and Yellow	Screw-In, 7/16"-20	Grounded	Reverse	0.70 ± .10 Ω
86161 [1]	2	EGT/TIT Probe 90° Bend	K - Red and Yellow	Screw-In, ¼" NPT	Grounded	Reverse	0.70 ± .10 Ω
86230 [1]	4	EGT/TIT Probe 8° Bend	K - Red and Yellow	Screw-In, ¼" NPT	Grounded	Normal	0.89 ± .10 Ω
86240	5	EGT/TIT Probe	K - Red and Yellow	Screw-In, 7/16"-20	Grounded	Normal	0.80 ± .10 Ω
86245 [2]	6	EGT/TIT Probe, 11.56"	K - Red and Yellow	Screw-In, 7/16"-20	Grounded	Reverse	0.70 ± .10 Ω
86307 [1 2]	7	EGT/TIT Probe	K - Red and Yellow	Screw-In, ¼" NPT	Ungrounded	Normal	0.71 ± .03 Ω
86308 [1 2]	9	EGT/TIT Probe	K - Red and Yellow	Screw-In, 7/16"-20	Ungrounded	Normal	0.71 ± .03 Ω
86309 [2]	8	EGT/TIT Probe, Long Lead	K - Red and Yellow	Screw-In, 7/16"-20	Ungrounded	Normal	1.60 Ω
86341 [1]	10	EGT/TIT Probe	K - Red and Yellow	Screw-In, ⅛" NPT	Ungrounded	N/A	0.94 ± .10 Ω

[1] Adjustable depth tip
[2] Built in radiator

Clamp Mount

This is the most common option because installation is easy and no welding is required. A hole is simply drilled in the exhaust near the mounting flange. The probe is inserted in the hole and a hose-clamp style clamp secures it in place. Clamps are available in various sizes to accommodate different sized exhaust tubes.

P/N	Indx	Description	Thermocouple Type	Mount	Grounded or Ungrounded	Stagger	Resistance
86226 [2]	12	EGT/TIT Probe	K - Red and Yellow	Clamp, 3¼" Max	Grounded	Reverse	0.70 ± .10 Ω
86255 [2 4]	11	EGT/TIT Probe	K - Red and Yellow	Clamp, 1⅛" to 3⅜"	Grounded	Normal	0.80 ± .10 Ω
86275 [2]	14	EGT/TIT Probe, 13.8"	K - Red and Yellow	Clamp, 3¼" Max	Grounded	Normal	0.80 ± .10 Ω
86281 [2]	13	EGT/TIT Probe	K - Red and Yellow	Clamp, 3¼" Max	Grounded	Normal	0.85 ± .10 Ω
86310 [2]	1	EGT/TIT Probe	K - Red and Yellow	Clamp, 2.35" Max	Ungrounded	Normal	1.60 Ω
86343 [2 3]	15	EGT/TIT Probe	K - Red and Yellow	Clamp, 3¼" Max	Ungrounded	Normal	0.80 Ω

[2] Built in radiator
[3] Omega style male plug connector. Does not include fire sleeve.
[4] Connector hardware kit P/N 38094 contains 2 each Nuts, Washers and Screws. Can be purchased separately and is included with P/N 86255.

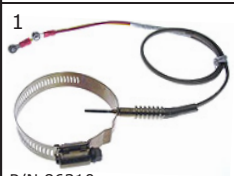
Weld Boss Plug
P/N 28204
Screws into unused weld boss ports
7/16"-20 UNF thread



EGT/TIT Weld Boss
P/N 28113
Weld to exhaust tube to use screw-in probes
7/16"-20 UNF thread



Copper Gasket
P/N 70354
Used as a seal with EGT/TIT Probe P/N 86160 and Weld Boss P/N 28113



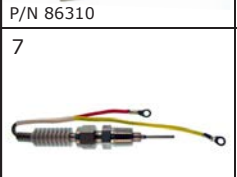






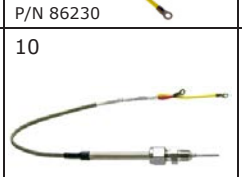












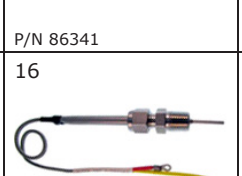










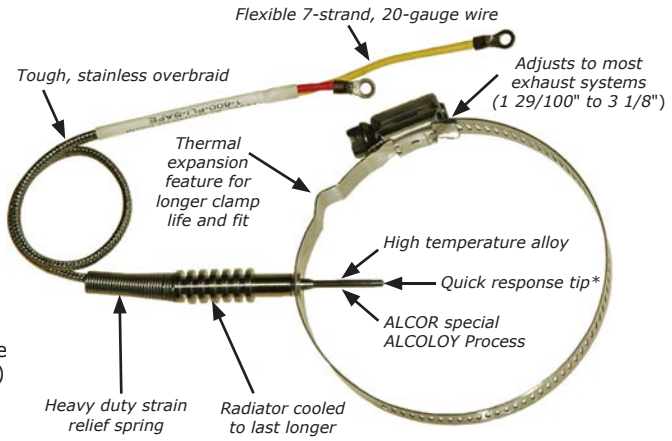


Thermocouple Probes

With over 50 years of aviation manufacturing experience, Alcor makes the highest quality, longest lasting, and fastest responding probes.

- Best warranty in the industry (5 year on grounded probes, 1 year on grounded probes)
- Improved design features
- Designed, manufactured and supported in the USA

Alcor probe tips are the smallest in the industry for the fastest response time



Thermocouple Types: What's the difference?

A thermocouple is formed by the junction between two metals. When the junction is heated, a very small voltage measured in millivolts (1/1000V) is generated. The higher the temperature, the higher the voltage. Each metal combination is best suited for a specific temperature range. The type of thermocouple indicates the metal combination.

Three types are used in aviation EGT, CHT, and TIT applications:

Type	Wires			Description
	Color	Polarity	Material	
J	Yellow	-	constanton	Very sensitive. Limited to lower temps. Not for EGT or TIT probes.
	Black	+	iron	Standard for CHT probes. Required for all Alcor CHT gauges.
K	Red	-	alumel	Sensitive over a broad range of temps. Standard for EGT and TIT probes
	Yellow	+	chromel	and some amplified or digital CHT gauges from other companies.
E	Red	-	constanton	Used in older EGT systems. Alcor still supplies Type E gauges and a limited supply
	Brown	+	chromel	of probes, but not supply leads. If new probes or leads are required, it is a good time to upgrade to a Type K system. Brown wire may look tan or silver.

The type of thermocouple must match the type of gauge and lead.

Grounded vs Ungrounded

Grounded probes have the thermocouple junction welded directly to the probe shaft. They have faster response time, longer life, and lower cost, but since they have continuity with the engine ground, they are susceptible to more electrical noise. This noise does not affect Alcor gauges, but can cause problems with some amplified or digital gauges from other manufacturers. All Alcor gauges can use grounded thermocouple, although some airframe manufacturers require ungrounded probes.

Ungrounded probes have the thermocouple junction isolated from the probe shaft so there is no continuity between the thermocouple and the engine ground resulting in less electrical noise. They are required for some amplified or digital gauges from other manufacturers and some airframe manufacturers.

Connectors

Most probes have ring terminal connectors however some have a Omega style male plug connector.
Omega style plugs are ***now available*** for converting an existing ring terminal installation.

Ring Terminals





Omega Connector
P/N 23931 (male)
P/N 23943 (female)
P/N 23932 (male Type J)
P/N 23944 (female Type J)

Stagger

The two different color probe wires are typically different lengths to ensure the correct polarity when reattaching them to the lead going to the gauge. Stagger refers to which color wire is longer. For Type K probes, two options are available:

Normal: The yellow probe wire is longer



Reverse: The yellow probe wire is shorter



Normal and reverse stagger probes and leads are all completely compatible, however, having the correct stagger ensures a neat installation and correct polarity. P/N 42523 EGT Lead Stagger Adapter is available to convert a normal stagger to a reverse stagger.

Save $$$ with kits on next page!

Complete Kits

- Save with complete kits from McFarlane!
- Includes everything you need



Kit P/N	Description	Kit Contents: Gauge	Probes	Leads	Accessories (included)
211-110	2¼" EGT, Clamp Probe, 90" Lead	(1) 46150	(1) 86255	(1) 42525	
211-140	2¼" EGT, Clamp Probes, 90" Leads, 4 Cylinder Switch	(1) 46150	(4) 86255	(4) 42525	(1) 80825
211-160	2¼" EGT, Clamp Probes, 90" Leads, 6 Cylinder Switch	(1) 46150	(6) 86255	(6) 42525	(1) 80825
211-210	2¼" EGT, Clamp Probe, 144" Lead	(1) 46150	(1) 86255	(1) 42526	
213-101	2¼" CHT, Bayonet Probe, 90" Lead	(1) 46151	(1) 86251	(1) 42535	(1) 28202
213-104	2¼" CHT, Bayonet Probes, 90" Leads, 4 Cylinder Switch	(1) 46151	(4) 86251	(4) 42535	(4) 28202, (1) 80825
213-201	2¼" CHT, Bayonet Probe, 144" Lead	(1) 46151	(1) 86251	(1) 42536	(1) 28202
222-111	2¼" CHT/EGT Bayonet/Clamp Probes, 90" Leads	(1) 46126	(1) 86251, (1) 86255	(1) 42525,(1) 42535	(1) 28202
222-144	2¼" CHT/EGT Bayonet/Clamp Probes, 90" Leads, 4 Cylinder Switch	(1) 46126	(4) 86251, (4) 86255	(4) 42525,(4) 42535	(4) 28202, (1) 80827
222-211	2¼" CHT/EGT Bayonet/Clamp Probes, 144" Leads	(1) 46126	(1) 86251, (1) 86255	(1) 42526,(1) 42536	(1) 28202
222-266	2¼" CHT/EGT Bayonet/Clamp Probes, 144" Leads, 6 Cylinder Switch	(1) 46126	(6) 86251, (6) 86255	(6) 42526,(6) 42536	(6) 28202, (1) 80827
46126-Kit	2¼" CHT/EGT Dual Meter Kit	(1) 46126	(1) 86202, (1) 86255	(1) 42525,(1) 42535	
322-111	3⅛" CHT/EGT Bayonet/Clamp Probes, 90" Leads	(1) 46156	(1) 86251, (1) 86255	(1) 42525,(1) 42535	(1) 28202
1136-B20A	3⅛" Dual EGT, Screw-In Probes 240" Leads	(1) 46155	(2) 86245	(2) 42527	



P/N 46150


P/N 46156


P/N 86245


P/N 86255


P/N 86251


P/N 42535


P/N 42525


P/N 80825/80827


P/N 28202

Alcal 2000+ EGT/CHT/TIT System Tester/Calibrator

Trusted by aviation technicians since 1970!

P/N 85337

The Alcal 2000+ manufactured by Alcor provides everything needed for accurate calibration and troubleshooting of EGT/CHT/TIT, Type K, J, and E systems. The tester simulates thermocouple output millivolts so that instruments can be calibrated on the ramp or in the shop. The Alcal 2000+ also accepts a millivolt input while testing Alcor thermocouples installed in its special heater for accurate analysis at operating temperatures.

The Alcal 2000+ is also designed to check the accuracy of an entire system or the individual components. While the thermocouple is in the heater, the instrument can be read in the panel and recalibrated as necessary while simulating temperatures up to 1750°F. An easy-to-read LCD display makes accurate settings a snap. With its rugged Pelican case, the Alcal 2000+ is ready to use anywhere! Certification of the Alcal 2000+ is traceable to the National Institute of Standards and Technology (NIST).


P/N 85337

First annual calibration free!



New removable lid


P/N 86188


P/N 28187


P/N 86261

New version of the trusted Alcal 2000 with great improvements!

- Pelican case redesigned with removable lid
- Internal carrying handle for transporting w/o lid
- 3rd EGT/TIT Heater (P/N 35291) accepts competitor's larger probes
- Easy access to the fuse for quick replacement if necessary
- Includes all reference probes and accessories needed for testing and calibrating EGT, TIT, and CHT systems

Alcal Accessories and Replacement Parts	
28187	Adapter for gasket style CHT thermocouples
28202	CHT Adapter
35291	EGT Heater for Alcal 2000 with 0.128" hole
35309	EGT Heater for older Alcal systems
35311	CHT Heater for Alcal 2000
72112	Eutectic Refill, EGT
86188	EGT/TIT Reference Thermocouple for Alcal 2000
86261	CHT Reference Thermocouple for Alcal 2000


P/N 35291


P/N 35309


P/N 35311



Slick Magnetos by Champion Aerospace are Factory Overhauled by Quality Aircraft Accessories. 100% Genuine Factory OEM parts used, all wear parts replaced and has a same as new, 1 year warranty.

CHAMPION AEROSPACE®

QAA.com
Quality Aircraft Accessories



The Sky-Tec brand includes starters and support for Prestolite, Electrosystems, Lamar and Kelly designs. Sky-Tec thrives as the preeminent producer of starters for the aviation industry.

Sky-Tec



Superior design, manufacturing technology, and state-of-the-art testing facilities make the Plane-Power brand the front-runner when choosing an aircraft alternator.

Plane-Power®



DAM™ Hangar and Toolbox Essentials





Exhaust Lubricant
P/N DAM20-4.0

Designed specifically for aircraft exhaust ball joints, clamps, slip joints, and hardware. Our DAM Exhaust Lubricant protects up to 2400° F and prevents heat corrosion and joint lockup – it's the only anti-seize that actually works! Our lubricant does not contain stainless corroding graphite. Exhaust anti-seize that contains graphite can corrode and destroy the grain structure of stainless steel.



Window Cleaner
P/N DAM17-16

Our DAM Window Cleaner repels dust and bugs, and improves visibility during rain! It's also great for RVs, boats, and motorcycles. Our different sized bottles are ideal for every situation: storing in your hangar, airplane, or shop! We also have multiple kit options to choose from. Our solution is streak-free, and safe on all surfaces.



Pulley Oil
P/N PULLEY OIL

Our DAM Pulley Oil loosens old and stiff pulley grease. Our oil solution will not dry out or get sticky. Plus, you can save the labor from re-oiling your control system every year! Our kit includes a durable needle oiler that's perfect for those hard to reach areas.

This stuff is so DAM™ good, we had to share it!

McFarlane®

*See **Tools and Maintenance** section of the catalog*



Stock

McFarlane has over 4,500 cable assemblies and chains in stock. We have FAA-PMA approved cables available in corrosion-resistant, high-strength steel for most 100/200 series Cessna aircraft, PA28, PA32 and PA34 series Piper aircraft and G-164 series Ag-Cat aircraft. McFarlane also stocks cables for single engine piston and many turbine and twin engine Beechcraft, and stabilator adjust cables for Piper J-3, PA-11, PA-12, PA-14, PA-16, PA-18, PA-18A, PA-20 and PA-22.

Quality

McFarlane aircraft flight control cables offer quality that is second to none in the aircraft industry. Our quality assurance procedures and personnel ensure that our aircraft flight control cables meet the highest standards possible. These standards exceed the military specifications that govern aircraft flight control cables.

Each McFarlane cable assembly is made from the highest quality U.S. manufactured materials from suppliers that have been listed by the U.S. government as being tested and qualified for government use (QPL listed). Before cable assemblies are accepted a sample from each lot is subjected to a test load equal to 100% of their rated minimum breaking strength and then destroyed. Each cable terminal swaged on a cable assembly is inspected for proper dimension. All assemblies produced are pre-stretched to eliminate rigging and growth changes after installation. In addition, each and every McFarlane cable assembly must endure a sustained proof load equal to 60% of the cable's minimum rated breaking strength assuring the safest and highest quality aircraft flight control cables available.

Custom Cables

Custom cable assemblies can be fabricated and certified to specification MIL-DTL-6117, or certified to your special specifications. Our custom cables with standard fittings are pre-stretched and proof loaded in accordance with MIL-DTL-5688. Cables using nonstandard fittings are proof loaded and pre-stretched when possible, but cannot be certified to the MIL-DTL-5688 or MIL-DTL-6117 standards.

McFarlane can also manufacture and certify cable assemblies to the NAS302 through NAS310 standards. Cable assemblies requiring special non-standard terminals can be made to your data or old cable using our precision machine shop, inspection system, and quality controlled processes. Several industry standard corrosion preventative coatings are also available. Our experienced engineering staff is available to develop cables for unique applications.

Traceability of all materials and test reports are maintained for our custom cables.

Our extensive stock of cable and fittings allows us to quickly provide one to three day service for most orders. A custom cable design form is available on our website, or send us your old cable.

Custom assemblies are manufactured using the same materials and attention to quality as our FAA-PMA products, however, custom cables are not FAA-PMA approved.

Stainless Steel or Galvanized Steel Cable?

Stainless steel is corrosion resistant and works well in environments such as salt air, water saturation, or agricultural chemicals. Galvanized carbon steel and stainless cables are soaked in a MIL-SPEC rust preventative and lubricating compound. In normal environments, the galvanized cable will not suffer from corrosion damage for decades.

The advantages of galvanized cables are their wear resistance and cost. They resist abrasion wear about 5x longer than stainless steel.

Stainless steel wire is high in nickel, therefore softer than the carbon steel wire. Stainless steel cable will show signs of wire wear at pulleys and fairleads much quicker than the galvanized carbon steel wire.

We recommend using galvanized steel cables except in coastal geographical areas, agricultural aircraft, float planes, and other applications where the cable is exposed directly to water. ***Only McFarlane has FAA-PMA approved galvanized cables for the new production Cessna aircraft.***

All Beechcraft cables are made from galvanized steel cable and coated with a modified MIL-PRF-16173 compound. This is the same process used on Beechcraft original cables. It provides additional corrosion protection beyond the standard MIL-SPEC rust preventive oil. This provides both exceptional wear resistance and corrosion protection for many years.

Bulk Cable

McFarlane buys certified cable in large quantities direct from the mill. This allows us to provide low prices on bulk cable.

McFarlane offers pre-packaged bulk cable in a variety of sizes. Cable can be ordered in 100 ft. or 500 ft. lengths. Certification from the cable manufacturer is given with every order.

Pulleys

McFarlane stocks all pulleys required for Cessna single engine aircraft. Our FAA-PMA approval on pulleys replace the AN, NAS and S series pulleys commonly used on Cessna aircraft. Pulley kits contain all the pulleys and cotter pins required for one aircraft.

Trim Control Chains

McFarlane offers the trim control chains for Cessna single engine and most Beechcraft aircraft. Don't forget to replace your trim control chains and connecting links where necessary!





Hardware

McFarlane stocks an extensive inventory of cable hardware. We offer terminals, turnbuckles, eye ends, sleeves, locking clips, barrels and balls. Let our purchasing volume save you money!

Buy Complete Kits and Save!

McFarlane has complete flight control cable and trim chain kits for many aircraft, including Cessna, Piper, and Beechcraft.

Most of the light aircraft fleet has seen many years of service and have endured many flight hours. Worn, rusty, and frayed cables are now common. It is a tedious, time consuming job to research the part manuals for all cables required for a complete aircraft. McFarlane has done the research and has all of the part numbers required for your aircraft.

We stock kits in either galvanized-carbon steel or stainless steel. All components are fully traceable and carry a one-year limited warranty.

Sub-System Kits Now Available!

Along with our complete kits, we now offer sub-system kits for many Cessna, Piper, and Beechcraft aircraft. Now you can easily replace all the cables in each sub-system: aileron, elevator, rudder, and flap!



We are one of a few DOD QML-6117 certified manufacturers of aircraft cable assemblies!

- McFarlane quality is second to none!
- Over 25 years of cable experience!
- Many cables available in galvanized and stainless steel
- Cables are sold in kits or separately
- When you order cable and cable terminals from McFarlane you will always receive a certified product!
- Our large volume purchases give you great prices!



Hardware

Over 100 certified aircraft control cable hardware part numbers in STOCK at discounted prices!!

- Balls, BM Series
- Balls, Single Shank, MS20664 Series
- Balls, Double Shank, MS20663 Series
- Barrels, Brass, MS21251 Series
- Bushings, AN111 Series
- Locking Clips, MS21256 Series
- Shackles, AN115 Series
- Sleeves, Tin and Zinc, MS51844 Series
- Special Terminals
- Straps, Eye and Fork, NAS1435 Series
- Terminals, Eye, MS20668 Series
- Terminals, Fork, MS20667 Series
- Terminals, Stud, MS21259 Series
- Terminals, Turnbuckle, MS21260 Series
- Thimbles, AN100 Series
- Turnbuckles, Clevis End, MS21252 Series
- Turnbuckles, Eye end for Pin, MS21254 Series
- Turnbuckles, Eye end for wire rope, MS21255 Series

McFarlane now manufactures NAS1435 and DOD QPL-781 qualified terminals



Cable Stop

P/N MC6057



- Improved for more consistent holding strength
- Used on the assist step cable on Beech Bonanzas 35, A35, C35
- (1) MC6057 replaces both Beech 35-524287 nut and 35-524288 screw part numbers
- Also included on select cable assemblies as required

Aileron Bellcrank Bushing

P/N MC0422280



- Use on all single engine Cessna
- High strength alloy steel
- Replace when replacing aileron cables
- 4 each included in all applicable Cessna cable kits

Parking Brake Cables for Cessna Aircraft

Don't forget to replace worn out parking brake cables!

Locate your make, model, and serial number on pages 217-260 to find the correct part number for your aircraft.



AG-CAT Aircraft Cables



Subassemblies consisting of a long and short cable are available. Call for details.

Aileron Cables			
Model	**Location**	**Part Number**	**Qty per Aircraft**
G-164	Upper Sector	MCA1860-101	2
G-164	Lower Sector	MCA1860-101	2
G164A	Upper Sector	MCA1860-401	2
G164A	Lower Sector	MCA1860-101	2
G164B	Upper Sector	MCA2860-7	2
G164B	Lower Sector	MCA2860-5	2
Rudder Cables			
G164, G164A	Left Hand	MCA1860-35	1
G164, G164A	Right Hand	MCA1860-36	1
G164B	Left & Right	MCA3860-3	2

Stabilator Adjust Cables for Piper Aircraft

- Time tested 'long splice' method for strength and reliability
- Available in galvanized or stainless
- Custom lengths available for your antique projects



Self lubricating Fairlead

P/N MC42911



Model	S/N	P/N	Composition
J-3, PA-11	All	MC41671-2	Galvanized
PA-12	All	MC41671-5	Galvanized
PA-12	All	MC41671-6	Stainless
J-3, PA-11	All	MC41671-8	Stainless
PA-14	All	MC41671-9	Galvanized
PA-16, PA-20	All	MC41671-11	Galvanized
PA-14	All	MC41671-12	Galvanized
PA-18, PA-18A	1 thru 548	MC41671-13	Galvanized
PA-16	All	MC41671-14	Stainless
PA-18, PA-18A	All with Floats	MC41671-15	Stainless
PA-20, PA-22	All	MC41671-16	Galvanized
PA-18, PA-18A	549 and On	MC41671-17	Galvanized
PA-22	354 and On	MC41671-18	Stainless
PA-18, PA-18A	All with Floats	MC41671-19	Stainless



Bulk Cable

Great prices on galvanized or stainless steel

All cable meets MIL-DTL-83420 certification

- Direct mill purchases let us save you $$$
- Pre-packaged in 100 and 500 foot lengths
- Custom lengths available

Save $$$



Manufacturer cert. provided with every order

Diameter	Cable	Galvanized	Stainless
1/16	1X19	•	
	7X7	•	•
	7X19	•	•
1/8	7X19	•	•
1/4	7X19	•	•
3/32	1X19	•	
	7X7	•	•
	7X19	•	•
3/16	7X19		•
3/8	7X19	•	•
5/32	7X19	•	•
5/16	7X19	•	•

How to Determine Flight Cable Composition



Using a magnet to determine if a cable is galvanized steel or stainless steel alloy can be unreliable as stainless steel can display magnetic properties which can make alloy discrimination difficult. The unreliability comes from variation in the amount of magnetic permeability found in the stainless steel cable and from strength differences in the magnets used. Stainless steel cables become magnetic in the process of cold working stainless steel wires into cable. The amount of magnetic permeability varies with the amount of cold working the cable was subject to. It is also possible cables in-service will become more magnetic over time as they work-harden through use.

A better test is to use an ohm meter to measure the resistance in a length of cable. Stainless steel has more electrical resistance than zinc or tin coated high carbon steel, which allows us to identify cable composition by the amount of resistance in a length of cable. This test is applicable to the most common aircraft cable diameters: 1/16 through 5/32 with 7x7 or 7x19 construction. To ensure accuracy in cable resistance measurements, use the following procedure:

- You will need access to at least 3 feet of cable
- The ohm meter and leads must be in good condition
- Electrical isolation of the cable from the aircraft is required for an accurate resistance measurement. The cable should be removed from the aircraft or at least one end of the cable disconnected from the aircraft. Ensure the cable is not touching anything conductive between the freed end and the area of the measurement
- For non-auto ranging multimeters, set the resistance range to the lowest scale (typically 1x) and zero the meter
- Measure the resistance of the cable across (at least) 3 feet. Assure that the cable is clean and you have good contact between the cable and the ohm meter leads
- Do not allow your fingers to touch the metallic probes of the ohm meter leads when measuring
- Galvanized cable and tin coated cable will register less than 1 ohm resistance while stainless steel will indicate more than 1 ohm
- If possible, check your meter on a length of cable where the alloy is known

If the cable is returned to service, reinstall and rig the cable per the aircraft mfg's service manual. Install all required safety devices.

Adjustable Elevator Neutral Rigging Tool for Cessna Aircraft

Save time, you'll always have the correct tool!
P/N TOOL126

Proper elevator rigging is necessary for full range of motion and maneuverability of the airplane. Many Cessna maintenance manuals require the fabrication of a tool to hold the yoke in the neutral position while the mechanic rigs the elevator control system. These tools utilize the holes for the control gust lock. At least 17 different sizes of rigging tools are required to cover the various Cessna aircraft. Now there is one tool to replace them all.

Our Elevator Neutral Rigging Tool is adjustable from 0.4" to 2.5" and universal in design, consisting of six different pin sizes to fit your application. This tool may also be used to properly rig other makes of aircraft with similar elevator neutral rigging requirements.



Features and Benefits

- Replaces 17 costly tools
- Quick setup and adjustment
- Simple to use instructions
- Includes compact storage box
- Replacement parts available separately
- Stainless steel components

Note:
Refer to your Cessna maintenance manual to determine if your model requires the use of the elevator neutral rigging tool and follow its guidelines for proper pin selection and adjustment guidelines.



Fits most Cessna 150 thru 425 aircraft!

Elevator Neutral Rigging Tool Replacement Parts	
Part Number	**Description**
6409	0.050"/1.3mm Hex Wrench
6870	Square Nut
6868-4	Pin, 0.188, Short
6868-3	Pin, 0.188, Long
6868-1	Pin, 0.209, Short
6868-2	Pin, 0.209, Long
6869-1	Pin, 0.250, Short
6869-2	Pin, 0.250, Long

120 1946-1947 [1]
S/N 8003 thru 12890
Complete Cable Kit P/N CCKT120-01G (Galvanized)
Complete Cable Kit P/N CCKT120-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-01*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-01G-AIL or CCKT-01S-AIL			
2	MC0400107-1 or 1CS		Aileron Direct
1	MC0400107-2 or 2CS		Aileron Carry Thru
Elevator Cable Kit P/N CCKT-01G-ELE or CCKT-01S-ELE			
1	MC0400107-5 or 105		Elevator Control Up
1	MC0400107-9 or 109		Elevator Control Down
1	MC0400107-6 [2]		Elevator Trim Carry Thru
1	MC0400107-7 or 7S		Elevator Trim Aft
1	MC0400107-8 or 8S		Elevator Trim Forward
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control

120 1947 [1]-1949
S/N 12891 thru 15075
Complete Cable Kit P/N CCKT120-02G (Galvanized)
Complete Cable Kit P/N CCKT120-02S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-01*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-01G-AIL or CCKT-01S-AIL			
2	MC0400107-1 or 1CS		Aileron Direct
1	MC0400107-2 or 2CS		Aileron Carry Thru
Elevator Cable Kit P/N CCKT-02G-ELE or CCKT-02S-ELE			
1	MC0400107-5 or 105		Elevator Control Up
1	MC0400107-9 or 109		Elevator Control Down
1	MC0400107-7 or 7S		Elevator Trim Aft
1	MC0400107-8 or 8S		Elevator Trim Forward
1	MC0400107-11 or 111		Elev Trim Carry Thru Forward
1	MC0400107-12 or 12S		Elev Trim Carry Thru Aft
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control

140 1946 [1]
S/N 8004 thru 10069
Complete Cable Kit P/N CCKT140-01G (Galvanized)
Complete Cable Kit P/N CCKT140-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-01*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-01G-AIL or CCKT-01S-AIL			
2	MC0400107-1 or 1CS		Aileron Direct
1	MC0400107-2 or 2CS		Aileron Carry Thru
Elevator Cable Kit P/N CCKT-01G-ELE or CCKT-01S-ELE			
1	MC0400107-5 or 105		Elevator Control Up
1	MC0400107-9 or 109		Elevator Control Down
1	MC0400107-6 [2]		Elevator Trim Carry Thru
1	MC0400107-7 or 7S		Elevator Trim Aft
1	MC0400107-8 or 8S		Elevator Trim Forward
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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140 1946 [1]-1947 [1]
S/N 10070 thru 12890
Complete Cable Kit P/N CCKT140-02G (Galvanized)
Complete Cable Kit P/N CCKT140-02S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-01*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-01G-AIL or CCKT-01S-AIL			
2	MC0400107-1 or 1CS		Aileron Direct
1	MC0400107-2 or 2CS		Aileron Carry Thru
Elevator Cable Kit P/N CCKT-01G-ELE or CCKT-01S-ELE			
1	MC0400107-5 or 105		Elevator Control Up
1	MC0400107-9 or 109		Elevator Control Down
1	MC0400107-6 [2]		Elevator Trim Carry Thru
1	MC0400107-7 or 7S		Elevator Trim Aft
1	MC0400107-8 or 8S		Elevator Trim Forward
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control
1	MC0400107-10 or 10S		Flap Control

140 1947 [1]-1949
S/N 12891 thru 15075
Complete Cable Kit P/N CCKT140-03G (Galvanized)
Complete Cable Kit P/N CCKT140-03S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-01*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-01G-AIL or CCKT-01S-AIL			
2	MC0400107-1 or 1CS		Aileron Direct
1	MC0400107-2 or 2CS		Aileron Carry Thru
Elevator Cable Kit P/N CCKT-02G-ELE or CCKT-02S-ELE			
1	MC0400107-5 or 105		Elevator Control Up
1	MC0400107-9 or 109		Elevator Control Down
1	MC0400107-7 or 7S		Elevator Trim Aft
1	MC0400107-8 or 8S		Elevator Trim Forward
1	MC0400107-11 or 111		Elevator Trim Carry Thru Fwd
1	MC0400107-12 or 12S		Elevator Trim Carry Thru Aft
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control
1	MC0400107-10 or 10S		Flap Control

140A 1949-1951
S/N 15200 thru 15724
Complete Cable Kit P/N CCKT140-04G (Galvanized)
Complete Cable Kit P/N CCKT140-04S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-02*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-02G-AIL or CCKT-02S-AIL			
1	MC0400107-18 or 118		Aileron Carry Thru
2	MC0400107-17 or 117		Aileron Direct
Elevator Cable Kit P/N CCKT-03G-ELE or CCKT-03S-ELE			
1	MC0400107-5 or 105		Elevator Control Up
1	MC0400107-9 or 109		Elevator Control Down
1	MC0400107-11 or 111		Elevator Trim Carry Thru Fwd
1	MC0400107-12 or 12S		Elevator Trim Carry Thru Aft
1	MC0400107-13 or 113		Elevator Trim Aft
1	MC0400107-14 or 114		Elevator Trim Forward
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv SS	Location
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control
1	MC0400107-10 or 10S		Flap Control
150 1959[1] S/N 17001 thru 17438 Complete Cable Kit P/N CCKT150-01G (Galvanized) Complete Cable Kit P/N CCKT150-01S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-03*			
Qty	**P/N**	**Galv or SS**	**Location**
Aileron Cable Kit P/N CCKT-03G-AIL or CCKT-03S-AIL			
2	MC0400107-31 or 131		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-04G-ELE or CCKT-04S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-11 or 111		Trim Wheel to Disconnect
1	MC0400107-29 or 129		Trim Wheel to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
2	MCS2295P25-69		Elevator Trim Chain
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-01G-FLP or CCKT-01S-FLP			
1	MC0400107-22 or 122		Flap Extend Forward
1	MC0400107-23 or 123		Flap Retract Forward
2	MC0400107-34 or 134		Flap Extend LH
2	MC0400107-26 or 126		Flap Retract
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control
150 1959[1] S/N 17439 thru 17558 Complete Cable Kit P/N CCKT150-02G (Galvanized) Complete Cable Kit P/N CCKT150-02S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-03*			
Qty	**P/N**	**Galv or SS**	**Location**
Aileron Cable Kit P/N CCKT-03G-AIL or CCKT-03S-AIL			
2	MC0400107-31 or 131		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-04G-ELE or CCKT-04S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-11 or 111		Trim Wheel to Disconnect
1	MC0400107-29 or 129		Trim Wheel to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
2	MCS2295P25-69		Elevator Trim Chain
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-02G-FLP or CCKT-02S-FLP			
1	MC0400107-22 or 122		Flap Extend Forward
1	MC0400107-23 or 123		Flap Retract Forward
2	MC0400107-34 or 134		Flap Extend LH
1	MC0400107-26 or 126		Flap Retract
1	MC0400107-33 or 133		Flap Retract LH
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control

Notes:

[1] Partial model eligibility

Continued on next column

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150 1959[1]-1960
S/N 17559 thru 59018
Complete Cable Kit P/N CCKT150-03G (Galvanized)
Complete Cable Kit P/N CCKT150-03S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-03*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-03G-AIL or CCKT-03S-AIL			
2	MC0400107-31 or 131		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-04G-ELE or CCKT-04S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-11 or 111		Trim Wheel to Disconnect
1	MC0400107-29 or 129		Trim Wheel to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
2	MCS2295P25-69		Elevator Trim Chain
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-03G-FLP or CCKT-03S-FLP			
1	MC0400107-22 or 122		Flap Extend Forward
1	MC0400107-23 or 123		Flap Retract Forward
2	MC0400107-34 or 134		Flap Extend LH
2	MC0400107-33 or 133		Flap Retract LH
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control
150A,B,C 1961-1963 S/N 15059019 thru 15060087 Complete Cable Kit P/N CCKT150-04G (Galvanized) Complete Cable Kit P/N CCKT150-04S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-04*			
Qty	**P/N**	**Galv or SS**	**Location**
Aileron Cable Kit P/N CCKT-04G-AIL or CCKT-04S-AIL			
2	MC0400107-35 or 135		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-04G-ELE or CCKT-04S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-11 or 111		Trim Wheel to Disconnect
1	MC0400107-29 or 129		Trim Wheel to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
2	MCS2295P25-69		Elevator Trim Chain
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-03G-FLP or CCKT-03S-FLP			
1	MC0400107-22 or 122		Flap Extend Forward
1	MC0400107-23 or 123		Flap Retract Forward
2	MC0400107-34 or 134		Flap Extend LH
2	MC0400107-33 or 133		Flap Retract LH
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control

Notes:

[1] Partial model eligibility

Continued on next page

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150D,E 1964-1965
S/N 15060088 thru 15061532
Complete Cable Kit P/N CCKT150-05G (Galvanized)
Complete Cable Kit P/N CCKT150-05S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-05* or 06* Note 1

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Note: S/N 15060088 thru 15061083 USE PULL-KT-05 S/N 15061084 thru 15061532 USE PULL-KT-06			
Elevator Cable Kit P/N CCKT-04G-ELE or CCKT-04S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-11 or 111		Trim Wheel to Disconnect
1	MC0400107-29 or 129		Trim Wheel to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
2	MCS2295P25-69		Elevator Trim Chain
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-04G-FLP or CCKT-04S-FLP			
2	MC0400107-39 or 139		Flap Extend Forward
2	MC0400107-37 or 137		Flap Retract Forward
2	MC0400107-40 or 140		Flap Extend to Bellcrank
2	MC0400107-38 or 138		Flap Retract to Bellcrank
Rudder Cable Kit P/N CCKT-01G-RUD or CCKT-01S-RUD			
2	MC0400107-4 or 104		Rudder Control

150F[1] 1966[1]
S/N 15061533 thru 15061778
Complete Cable Kit P/N CCKT150-06G (Galvanized)
Complete Cable Kit P/N CCKT150-06S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-07*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-05G-ELE or CCKT-05S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-42 or 142		Trim Wheel to Disconnect
1	MC0400107-43 or 143		Trim Wheel to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
2	MCS2295P25-69		Elevator Trim Chain
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
Rudder Cable Kit P/N CCKT-02G-RUD or CCKT-02S-RUD			
2	MC0400107-47 or 147		Rudder Control Forward
2	MC0400107-48 or 148		Rudder Control Aft

Notes:
[1] Partial model eligibility

Continued on next column

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150F[1],G 1966[1]-1967 F150F,G 1966-1967
S/N 15061779 thru 15067198,
S/N F1500001 thru F1500219
Complete Cable Kit P/N CCKT150-11G (Galvanized)
Complete Cable Kit P/N CCKT150-11S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-07* Note 1

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-05G-ELE or CCKT-05S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-42 or 142		Trim Wheel to Disconnect
1	MC0400107-43 or 143		Trim Wheel to Turnbuckle
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-28 or 128		Trim Actuator to Disconnect
2	MCS2295P25-69		Chain to Tab Act
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
Rudder Cable Kit P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH
Note 1: S/N 15061779 thru 15067198 only			

150H 1968 F150H 1968
S/N 15067199 thru 15069308, F1500220 thru F1500389
Complete Cable Kit P/N CCKT150-07G (Galvanized)
Complete Cable Kit P/N CCKT150-07S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-08* Note 1

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-06G-ELE or CCKT-06S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-52 or 152		Trim Wheel to Disconnect
1	MC0400107-53 or 153		Trim Wheel to Turnbuckle
1	MCS2295P25-69		Chain to Tab Actuator
1	MCS2295-25-61		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
1	MC0400107-28 or 128		Trim Actuator to Disconnect
Rudder Cable Kit P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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150J[1] 1969[1], F150J 1969
S/N 15069309 thru 15070503, F1500390 thru F1500529
Complete Cable Kit P/N CCKT150-08G (Galvanized)
Complete Cable Kit P/N CCKT150-08S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-09* Note 1

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-07G-ELE or CCKT-07S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-54 or 154		Trim Wheel to Disconnect
1	MC0400107-55 or 155		Trim Wheel to Turnbuckle
1	MCS2295P25-69		Chain Trim Actuator
1	MCS2295-25-61		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
Rudder Cable Kit			
P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH

Note: For S/N 15069309 thru 15070503 only

150J[1],K,L,M[1],A150K,L,M[1],FA150K,L, FRA150L,M[1] 1969[1]-1975
S/N 15070504 thru 15077005 Note 1,
A1500001 thru A1500609 Note 2,
F15000530 thru F15001248 Note 3,
FA1500001 thru FA1500120 Note 4,
FRA1500121 thru FRA1500281 Note 5
Complete Cable Kit P/N CCKT150-09G (Galvanized)
Complete Cable Kit P/N CCKT150-09S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-09* thru PULL-KT-12*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-08G-ELE or CCKT-08S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-28 or 128		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-55 or 155		Trim Wheel to Turnbuckle
1	MC0400107-56 or 156		Trim Wheel to Disconnect
1	MCS2295P25-69		Chain Trim Actuator
1	MCS2295P25-63		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap

Notations:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH

Note 1: S/N 15070504 thru 15071128 USE PULL-KT-09
S/N 15071129 thru 15074399 USE PULL-KT-10
S/N 15074400 thru 15074661 USE PULL-KT-11
S/N 15074662 thru 15077005 USE PULL-KT-12
Note 2: S/N A1500001 thru A1500387 USE PULL-KT-10
S/N A1500388 thru A1500415 USE PULL-KT-11
Note 3: S/N F15000530 thru F15000943 USE PULL-KT-10
S/N F1500944 thru F15001062 USE PULL-KT-11
S/N F15001063 thru F15001248 USE PULL-KT-12
Note 4: S/N FA1500001 thru FA1500120 USE PULL-KT-10
Note 5: S/N FRA1500121 thru FRA1500211 USE PULL-KT-10
S/N FRA1500212 thru FRA1500261 USE PULL-KT-12

150M[1],A150M[1],F150M[1],FRA150M[1] 1976-1977
S/N 15077006 thru 15079405, A1500610 thru A1500734,
F15001249 thru F15001428, FRA1500282 thru FRA1500336
Complete Cable Kit P/N CCKT150-10G (Galvanized)
Complete Cable Kit P/N CCKT150-10S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-12* Note 1

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-09G-ELE or CCKT-09S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-57 or 157		Trim Actuator to Disconnect
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-55 or 155		Trim Wheel to Turnbuckle
1	MC0400107-56 or 156		Trim Wheel to Disconnect
1	MCS2295P25-69		Chain Trim Actuator
1	MCS2295P25-63		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
Rudder Cable Kit			
P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH

Note: Eligible for all S/Ns except A1500610 thru A1500734

Notations:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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152[1],A152[1],F152[1],FA152[1] 1978[1]-1979 [1]
S/N 15279406 thru 15281298,
15281300 thru 15281314, 15281316 thru 15281326,
15281328 thru 15281340, 15281342 thru 15281349,
15281351 thru 15281359, 15281361 thru 15281369,
15281371 thru 15281380, 15281382 thru 15281389,
15281391 thru 15281400, 15281402 thru 15281409,
15281411 thru 15281420, 15281422 thru 15281426,
A1520735 thru A1520785, F15201429 thru F15201538,
FA1520337 thru FA1520352
Complete Cable Kit P/N CCKT152-01G (Galvanized)
Complete Cable Kit P/N CCKT152-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-13*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-05G-AIL or CCKT-05S-AIL			
2	MC0400107-41 or 141		Aileron Direct
1	MC0400107-21 or 121		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-9G-ELE or CCKT-9S-ELE			
1	MC0400107-5 or 105		Elevator Up
1	MC0400107-9 or 109		Elevator Down
1	MC0400107-56 or 156		Trim Wheel to Disconnect
1	MC0400107-55 or 155		Trim Wheel to Turnbuckle
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-57 or 157		Trim Actuator to Disconnect
1	MCS2295P25-63		Chain Trim Wheel
1	MCS2295P25-69		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
Rudder Cable Kit			
P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH

Note: For S/N 15061779 thru 15069308 only

152[1],A152[1],F152[1],FA152[1] 1978[1]-1985
S/N 15281299, 15281315, 15281327, 15281341, 15281350,
15281360, 15281370, 15281381, 15281390, 15281401,
15281410, 15281421, 15281427 thru 15286033,
A1520786 thru A1521049, F15201539 thru F15201980,
FA1520353 thru FA1520425
Complete Cable Kit P/N CCKT152-02G (Galvanized)
Complete Cable Kit P/N CCKT152-02S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-13* Note 1

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-06G-AIL or CCKT-06S-AIL			
2	MC0400107-60 or 160		Aileron Direct Cabin
1	MC0400107-61 or 161		Aileron Direct LH Wing
1	MC0400107-65 or 165		Aileron Direct RH Wing
1	MC0400107-59 or 159		Aileron Carry Thru LH
1	MC0400107-58 or 158		Aileron Carry Thru RH
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit (continued on next column)			
P/N CCKT-10G-ELE or CCKT-10S-ELE			
2	MC0400107-66 or 166		Elevator Forward
1	MC0400107-63 or 163		Elevator Up Aft
1	MC0400107-64 or 164		Elevator Down Aft
1	MC0400107-56 or 156		Trim Wheel to Disconnect

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit (continued from previous column)			
P/N CCKT-10G-ELE or CCKT-10S-ELE			
1	MC0400107-55 or 155		Trim Wheel to Turnbuckle
1	MC0400107-30 or 130		Trim Actuator to Turnbuckle
1	MC0400107-57 or 157		Tab Actuator to Disconnect
1	MCS2295P25-63		Chain Trim Wheel
1	MCS2295P25-69		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-05G-FLP or CCKT-05S-FLP			
2	MC0400107-45 or 145		Flap
2	MC0400107-46 or 146		Flap
Rudder Cable Kit			
P/N CCKT-03G-RUD or CCKT-03S-RUD			
1	MC0400107-49 or 149 [3]		Rudder Control LH
1	MC0400107-50 or 150 [3]		Rudder Control RH

Note 1: PULL-KT-13 is eligible for all serial numbers except
F15201539 thru F15201952, and FA1520353 thru FA1520387

170 1948
S/N 18000 thru 18729
Complete Cable Kit P/N CCKT170-01G (Galvanized)
Complete Cable Kit P/N CCKT170-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-14*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-07G-AIL or CCKT-07S-AIL			
2	MC0510105-2 or 102		Aileron Direct
2	MC0510105-3 or 103		Aileron Carry Thru
Elevator Cable Kit			
P/N CCKT-11G-ELE or CCKT-11S-ELE			
2	MC0510105-4 or 104		Elevator Control
1	MC0510105-9 or 109		Trim Wheel to Turnbuckle
1	MC0510105-7 or 107		Trim Wheel to Disconnect
1	MC0510105-8 or 108		Trim Actuator to Turnbuckle
1	MC0510105-10 or 110		Trim Actuator to Disconnect
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-06G-FLP or CCKT-06S-FLP			
2	MC0510105-6 or 106		Flap Control Upper
1	MC0510105-5 or 105		Flap Control Lower
Rudder Cable Kit			
P/N CCKT-04G-RUD or CCKT-04S-RUD			
2	MC0510105-1 or 101		Rudder Control

170A 1949-1951
S/N 18730 thru 20266
Complete Cable Kit P/N CCKT170-02G (Galvanized)
Complete Cable Kit P/N CCKT170-02S (Stainless Steel)
Complete Cable Kit P/N CCKT170-02SF (Float Plane)
Complete Pulley Kit P/N PULL-KT-15*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-08G-AIL or CCKT-08S-AIL			
2	MC0510105-12 or 112		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
Elevator Cable Kit (continued on next page)			
P/N CCKT-12G-ELE or CCKT-12S-ELE			
1	MC0510105-15 or 115		Elevator Control Upper
1	MC0510105-4 or 104		Elevator Control Lower
1	MC0510105-9 or 109		Trim Wheel to Turnbuckle
1	MC0510105-7 or 107		Trim Wheel to Disconnect
1	MC0510105-8 or 108		Trim Actuator to Turnbuckle

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit (continued from previous page)			
P/N CCKT-12G-ELE or CCKT-12S-ELE			
1	MC0510105-10 or 110		Trim Actuator to Disconnect
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit (Not for Float Plane)			
P/N CCKT-07G-FLP or CCKT-07S-FLP			
2	MC0510105-11 or 111		Flap Control Upper
1	MC0510105-5 or 105		Flap Control Lower [4]
Flap Cable Kit (For Float Plane)			
P/N CCKT-08G-FLP or CCKT-08S-FLP			
2	MC0510105-11 or 111		Flap Control Upper
1	MC0510105-114		Flap Control Lower [5]
Rudder Cable Kit			
P/N CCKT-04G-RUD or CCKT-04S-RUD			
2	MC0510105-1 or 101		Rudder Control
170B[1] 1952-1954			
S/N 20267 thru 26504			
Complete Cable Kit P/N CCKT170-03G (Galvanized)			
Complete Cable Kit P/N CCKT170-03S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-16*			
Qty	**P/N**	**Galv or SS**	**Location**
Aileron Cable Kit			
P/N CCKT-09G-AIL or CCKT-09S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
Elevator Cable Kit			
P/N CCKT-12G-ELE or CCKT-12S-ELE			
1	MC0510105-15 or 115		Elevator Control Upper
1	MC0510105-4 or 104		Elevator Control Lower
1	MC0510105-9 or 109		Trim Wheel to Turnbuckle
1	MC0510105-7 or 107		Trim Wheel to Disconnect
1	MC0510105-8 or 108		Trim Actuator to Turnbuckle
1	MC0510105-10 or 110		Trim Actuator to Disconnect
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
2	MC0510105-59 or 159		Flap Direct Outboard
1	MC0510105-61 or 161		Flap Direct LH Inboard
1	MC0510105-62 or 162		Flap Direct RH Inboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return LH Inboard
1	MC0510105-64 or 164		Flap Return RH Inboard
Rudder Cable Kit			
P/N CCKT-04G-RUD or CCKT-04S-RUD			
2	MC0510105-1 or 101		Rudder Control
170B[1] 1955-1956			
S/N 26505 thru 27169			
Complete Cable Kit P/N CCKT170-04G (Galvanized)			
Complete Cable Kit P/N CCKT170-04S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-16*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-38 or 138		Tailwheel Steering
Aileron Cable Kit			
P/N CCKT-09G-AIL or CCKT-09S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
Elevator Cable Kit (continued on next column)			
P/N CCKT-12G-ELE or CCKT-12S-ELE			
1	MC0510105-15 or 115		Elevator Control Upper
1	MC0510105-4 or 104		Elevator Control Lower
1	MC0510105-9 or 109		Trim Wheel to Turnbuckle
1	MC0510105-7 or 107		Trim Wheel to Disconnect

Notes:

[1] Partial model eligibility

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit (continued from previous column)			
P/N CCKT-12G-ELE or CCKT-12S-ELE			
1	MC0510105-8 or 108		Trim Actuator to Turnbuckle
1	MC0510105-10 or 110		Trim Actuator to Disconnect
2	MCS2295-25-63		Chain Elevator Trim
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
2	MC0510105-59 or 159		Flap Direct Outboard
1	MC0510105-61 or 161		Flap Direct LH Inboard
1	MC0510105-62 or 162		Flap Direct RH Inboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return LH Inboard
1	MC0510105-64 or 164		Flap Return RH Inboard
Rudder Cable Kit			
P/N CCKT-04G-RUD or CCKT-04S-RUD			
2	MC0510105-1 or 101		Rudder Control
172[1] 1956-1958			
S/N 28000 thru 36965			
Complete Cable Kit P/N CCKT172175-01G (Galvanized)			
Complete Cable Kit P/N CCKT172175-01S (Stainless)			
Complete Pulley Kit P/N PULL-KT-17*			
Qty	**P/N**	**Galv or SS**	**Location**
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-13G-ELE or CCKT-13S-ELE			
1	MC0510105-42 or 142		Elevator Forward Upper
1	MC0510105-40 or 140		Elevator Forward Lower
1	MC0510105-41 or 141		Elevator Aft Upper
1	MC0510105-54 or 154		Elevator Aft Lower
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-05G-RUD or CCKT-05S-RUD			
2	MC0510105-39 or 139		Rudder Forward
1	MC0510105-56 or 156		Rudder Aft LH
1	MC0510105-55 or 155		Rudder Aft RH

Notes:

[1] Partial model eligibility

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172[1] 1959, 175 1958-1959
S/N 36966 thru 46754, 55001 thru 56238
Complete Cable Kit P/N CCKT172175-02G (Galvanized)
Complete Cable Kit P/N CCKT172175-02S (Stainless)
Complete Pulley Kit P/N PULL-KT-17*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-11G-AIL or CCKT-11S-AIL			
2	MC0510105-72 or 172		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-13G-ELE or CCKT-13S-ELE			
1	MC0510105-42 or 142		Elevator Forward Upper
1	MC0510105-40 or 140		Elevator Forward Lower
1	MC0510105-41 or 141		Elevator Aft Upper
1	MC0510105-54 or 154		Elevator Aft Lower
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-05G-RUD or CCKT-05S-RUD			
2	MC0510105-39 or 139		Rudder Forward
1	MC0510105-56 or 156		Rudder Aft LH
1	MC0510105-55 or 155		Rudder Aft RH

172A[1], 1960[1]
S/N 46755 thru 47298
Complete Cable Kit P/N CCKT172175-03G (Galvanized)
Complete Cable Kit P/N CCKT172175-03S (Stainless)
Complete Pulley Kit P/N PULL-KT-17*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-11G-AIL or CCKT-11S-AIL			
2	MC0510105-72 or 172		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-13G-ELE or CCKT-13S-ELE			
1	MC0510105-42 or 142		Elevator Forward Upper
1	MC0510105-40 or 140		Elevator Forward Lower
1	MC0510105-41 or 141		Elevator Aft Upper
1	MC0510105-54 or 154		Elevator Aft Lower
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit (continued on next column) P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper

Notes:
[1] Partial model eligibility

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Flap Cable Kit (continued from previous column) P/N CCKT-09G-FLP or CCKT-09S-FLP			
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-06G-RUD or CCKT-06S-RUD			
2	MC0510105-39 or 139		Rudder Forward
1	MC0510105-75 or 175		Rudder Aft LH
1	MC0510105-76 or 176		Rudder Aft RH

172A[1],B,C 1960[1]-1962 175A,B,C 1960-1962
S/N 47299 thru 17249544, 56239 thru 17557119
Complete Cable Kit P/N CCKT172175-04G (Galvanized)
Complete Cable Kit P/N CCKT172175-04S (Stainless)
Complete Pulley Kit P/N PULL-KT-17*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-11G-AIL or CCKT-11S-AIL			
2	MC0510105-72 or 172		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-13G-ELE or CCKT-13S-ELE			
1	MC0510105-42 or 142		Elevator Forward Upper
1	MC0510105-40 or 140		Elevator Forward Lower
1	MC0510105-41 or 141		Elevator Aft Upper
1	MC0510105-54 or 154		Elevator Aft Lower
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
1	MC0510105-62 or 162		Flap Direct RH Lower
Rudder Cable Kit P/N CCKT-07G-RUD or CCKT-07S-RUD			
2	MC0510105-39 or 139		Rudder Forward
1	MC0510105-80 or 180		Rudder Aft LH
1	MC0510105-81 or 181		Rudder Aft RH

172D,P172,F172D, FP172 1963
S/N 17249545 thru 17250572, P17257120 thru P17257188, F172-0001 thru F172-0018, FP172-0001 thru FP172-0003
Complete Cable Kit P/N CCKT172175-05G (Galvanized)
Complete Cable Kit P/N CCKT172175-05S (Stainless)
Complete Pulley Kit P/N PULL-KT-18*

Qty	P/N	Galv or SS	Location
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-11G-AIL or CCKT-11S-AIL			
2	MC0510105-72 or 172		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Rudder Cable Kit P/N CCKT-08G-RUD or CCKT-08S-RUD			
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft
Elevator Cable Kit P/N CCKT-14G-ELE or CCKT-14S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
172E 1964 S/N 17250573 thru 17251822 Complete Cable Kit P/N CCKT172175-06G (Galvanized) Complete Cable Kit P/N CCKT172175-06S (Stainless) Complete Pulley Kit P/N PULL-KT-19*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-12G-AIL or CCKT-12S-AIL			
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-217 or 317		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-14G-ELE or CCKT-14S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Forward Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-08G-RUD or CCKT-08S-RUD			
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft
172F,G,H,I,K,L[1], F172F,G,H,K,L[1], FR172E,F,G,H[1] 1965-1972[1] S/N 17251823 thru 17259834 Note 1, F172-0086 thru F17200820 Note 2, FR17200001 thru FR17200288 Note 3 Complete Cable Kit P/N CCKT172175-07G (Galvanized) Complete Cable Kit P/N CCKT172175-07S (Stainless) Complete Pulley Kit P/N PULL-KT-20* or PULL-KT-21*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-13G-AIL or CCKT-13S-AIL			
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit P/N CCKT-08G-RUD or CCKT-08S-RUD			
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft

Note 1: S/N 17251823 thru 17259223 USE PULL-KT-20
Note 2: USE PULL-KT-20
Note 3: USE PULL-KT-21

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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172L[1],M[1],F172L[1]M[1],FR172H[1]J[1] 1971[1]-1975[1]
S/N 17259835 thru 17264202, Note 1
F17200821 thru F17201234, Note 2
FR17200289 thru FR17200559 Note 3
Complete Cable Kit P/N CCKT172175-08G (Galvanized)
Complete Cable Kit P/N CCKT172175-08S (Stainless)
Complete Pulley Kit P/N PULL-KT-20*, -21* or -22*

Qty	P/N	Galv or SS	Location
1	MC0510105-232 [2]		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-13G-AIL or CCKT-13S-AIL			
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit P/N CCKT-08G-RUD or CCKT-08S-RUD			
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft

Note 1: S/N 17259904 thru 17263458 USE PULL-KT-20
S/N 17263459 thru 17264202 USE PULL-KT-22
Note 2: USE PULL-KT-20
Note 3: USE PULL-KT-21

172M[1],F172M[1] 1975[1]
S/N 17264203 thru 17265684, F17201235 thru F17201384
Complete Cable Kit P/N CCKT172175-09G (Galvanized)
Complete Cable Kit P/N CCKT172175-09S (Stainless)
Complete Pulley Kit P/N PULL-KT-22*

Qty	P/N	Galv or SS	Location
1	MC0510105-232 [2]		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-13G-AIL or CCKT-13S-AIL			
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit P/N CCKT-09G-RUD or CCKT-09S-RUD			
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH

172M[1],N[1],F172M[1],N[1],FR172J[1]K[1] 1976-1979[1] R172K[1] 1977-1978[1]
S/N 17265685 thru 17270454, F17201385 thru F17201749,
FR17200571 thru FR17200640, Note 1
R1722000 thru R1722822, Note 2
Complete Cable Kit P/N CCKT172175-10G (Galvanized)
Complete Cable Kit P/N CCKT172175-10S (Stainless)
Complete Pulley Kit P/N PULL-KT-22*, -21*

Qty	P/N	Galv or SS	Location
1	MC0510105-232 [2]		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-14G-AIL or CCKT-14S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit P/N CCKT-09G-RUD or CCKT-09S-RUD			
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH

Note 1: Use PULL-KT-21 for S/N FR17200571 thru FR17200590.
Pulley kit not available for S/N FR17200591 thru FR17200640
Note 2: Pulley kit not available

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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172N[1],F172N[1],P[1],FR172K[1] 1978[1]-1982[1]
R172K[1] 1978[1]-1980[1]
S/N 17270455 thru 17273850, F17201750 thru F17202039,
FR17200641 thru FR17200675, Note 1
R1722823 thru R1723353, Note 1
Complete Cable Kit P/N CCKT172175-11G (Galvanized)
Complete Cable Kit P/N CCKT172175-11S (Stainless)
Complete Pulley Kit P/N PULL-KT-22*

Qty	P/N	Galv or SS	Location
1	MC0510105-232 [2]		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-15G-AIL or CCKT-15S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit			
P/N CCKT-09G-RUD or CCKT-09S-RUD			
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH

Note 1: Pulley kit not available

172N[1],P[1] 1980[1]1982[1], R172K[1] 1980[1]-81
S/N 17273851 thru 17275187,
S/N R1723354 thru R1723454 Note 1
Complete Cable Kit P/N CCKT172175-12G (Galvanized)
Complete Cable Kit P/N CCKT172175-12S (Stainless)
Complete Pulley Kit P/N PULL-KT-22*

Qty	P/N	Galv or SS	Location
1	MC0510105-278 [2]		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-15G-AIL or CCKT-15S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
4	MC0422280		Aileron Bellcrank Bushing

Note 1: Pulley kit not available

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit			
P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit			
P/N CCKT-09G-RUD or CCKT-09S-RUD			
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH

172P[1],Q 1982-1986, 172R,S 1996 and On
S/N 17275188 thru 17276673 Note 1
17280001 and On, 172S8001 and On Note 2
Complete Cable Kit P/N CCKT172175-13G (Galvanized)
Complete Cable Kit P/N CCKT172175-13S (Stainless)
Complete Pulley Kit P/N PULL-KT-19*, -22*

Qty	P/N	Galv or SS	Location
1	MC0510105-278 [2]		Parking Brake
1	MC0713070-28 [2] [3]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-15G-AIL or CCKT-15S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-16G-ELE or CCKT-16S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0560051-4 or 104		Trim Wheel to Turnbuckle
1	MC0560051-5 or 105		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-67		Chain Trim Actuator
1	MCS2295P25-59		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract

Note 1: S/N 17275188 thru 17276673 USE PULL-KT-22
Note 2: S/N 17280001 and On USE PULL-KT-19
S/N 172S8001 and On USE PULL-KT-19

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-09G-RUD or CCKT-09S-RUD			
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
Note 1: S/N 17275188 thru 17276673 USE PULL-KT-22			
Note 2: S/N 17280001 and On USE PULL-KT-19			
S/N 172S8001 and On USE PULL-KT-19			
F172E 1964			
S/N F1720019 thru F1720085			
Complete Cable Kit P/N CCKT172175-14G (Galvanized)			
Complete Cable Kit P/N CCKT172175-14S (Stainless)			
Complete Pulley Kit P/N PULL-KT-19*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-16G-AIL or CCKT-16S-AIL			
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
1	MC0510105-217 or 317		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-14G-ELE or CCKT-14S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-08G-RUD or CCKT-08S-RUD			
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft
F172P[1] 1982[1]-1986			
S/N F17202170 thru F17202254			
Complete Cable Kit P/N CCKT172175-15G (Galvanized)			
Complete Cable Kit P/N CCKT172175-15S (Stainless)			
Complete Pulley Kit P/N PULL-KT-22*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-232 [2]		Parking Brake Cable
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-15G-AIL or CCKT-15S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-15G-AIL or CCKT-15S-AIL			
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-16G-ELE or CCKT-16S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0560051-4 or 104		Trim Wheel to Turnbuckle
1	MC0560051-5 or 105		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-67		Chain Trim Actuator
1	MCS2295P25-59		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract
Rudder Cable Kit			
P/N CCKT-09G-RUD or CCKT-09S-RUD			
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
FR172J[1] 1975[1]-1976[1]			
S/N FR17200560 thru FR17200570			
Complete Cable Kit P/N CCKT172175-16G (Galvanized)			
Complete Cable Kit P/N CCKT172175-16S (Stainless)			
Complete Pulley Kit P/N PULL-KT-21*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-232 [2]		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-14G-AIL or CCKT-14S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-15G-ELE or CCKT-15S-ELE			
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct & Retract
2	MC0510105-94 or 194 [6]		Flap Direct & Retract

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit P/N CCKT-08G-RUD or CCKT-08S-RUD			
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft
172RG 1980[1] S/N 172RG0001 thru 172RG0076 Complete Cable Kit P/N CCKT172RG-01G (Galvanized) Complete Cable Kit P/N CCKT172RG-01S (Stainless)			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-17G-AIL or CCKT-17S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
2	MC0510105-277 or 377		Aileron Direct to Yoke
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
2	MC0510105-265 or 365		Aileron Carry Thru RH
2	MC0510105-264 or 364		Aileron Carry Thru LH
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-17G-ELE or CCKT-17S-ELE			
2	MC0510105-269 or 369		Elevator Forward
1	MC0510105-293 or 393		Elevator Aft Upper
1	MC0510105-292 or 392		Elevator Aft Lower
1	MC0560051-6 or 106		Trim Wheel to Turnbuckle
1	MC0560051-7 or 107		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-59		Chain Trim Wheel
1	MCS2295P25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct and Retract
2	MC0510105-94 or 194 [6]		Flap Direct and Retract
Rudder Cable Kit P/N CCKT-10G-RUD or CCKT-10S-RUD			
1	MC0510105-272 or 372		Rudder Forward LH
1	MC0510105-271 or 371		Rudder Forward RH
2	MC0510105-270 or 370		Rudder Aft
1	MCS2295P25-29		Chain, Rudder Trim Forward
1	MCS2295P25-93		Chain, Rudder Trim Aft
172RG 1980[1]-1985 S/N 172RG0077 thru 172RG1191 Complete Cable Kit P/N CCKT172RG-02G (Galvanized) Complete Cable Kit P/N CCKT172RG-02S (Stainless)			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-278 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-17G-AIL or CCKT-17S-AIL			
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
2	MC0510105-277 or 377		Aileron Direct to Yoke
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
2	MC0510105-265 or 365		Aileron Carry Thru RH
2	MC0510105-264 or 364		Aileron Carry Thru LH
4	MC0422280		Aileron Bellcrank Bushing

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-17G-ELE or CCKT-17S-ELE			
2	MC0510105-269 or 369		Elevator Forward
1	MC0510105-293 or 393		Elevator Aft Upper
1	MC0510105-292 or 392		Elevator Aft Lower
1	MC0560051-6 or 106		Trim Wheel to Turnbuckle
1	MC0560051-7 or 107		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Actuator to Turnbuckle
1	MC0510105-45 or 145		Trim Actuator to Disconnect
1	MCS2295P25-59		Chain Trim Wheel
1	MCS2295P25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
2	MC0510105-265 or 365		Aileron Carry Thru RH
2	MC0510105-264 or 364		Aileron Carry Thru LH
4	MC0422280		Aileron Bellcrank Bushing
Flap Cable Kit P/N CCKT-10G-FLP or CCKT-10S-FLP			
2	MC0510105-93 or 193 [6]		Flap Direct and Retract
2	MC0510105-94 or 194 [6]		Flap Direct and Retract
Rudder Cable Kit P/N CCKT-10G-RUD or CCKT-10S-RUD			
1	MC0510105-272 or 372		Rudder Forward LH
1	MC0510105-271 or 371		Rudder Forward RH
2	MC0510105-270 or 370		Rudder Aft
1	MCS2295P25-29		Chain, Rudder Trim Forward
1	MCS2295P25-93		Chain, Rudder Trim Aft
177 1968-1978 S/N 17700001 thru 17701164			
Qty	**P/N**	**SS**	**Location**
1	MC0510105-232		Parking Brake
1	MC0510105-70		Parking Brake
180[1] 1953-1955 S/N 30000 thru 32150 Complete Cable Kit P/N CCKT180-01G (Galvanized) Complete Cable Kit P/N CCKT180-01S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-24*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-123 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-18G-ELE or CCKT-18S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-11G-RUD or CCKT-11S-RUD			
2	MC0510105-26 or 126		Rudder Control
180[1],A 1956-1958			
S/N 32151 thru 50355			
Complete Cable Kit P/N CCKT180-02G (Galvanized)			
Complete Cable Kit P/N CCKT180-02S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-24*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-153 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-18G-ELE or CCKT-18S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-12G-RUD or CCKT-12S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
180B 1959			
S/N 50356 thru 50661			
Complete Cable Kit P/N CCKT180-13G (Galvanized)			
Complete Cable Kit P/N CCKT180-13S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-24*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-153 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit			
P/N CCKT-19G-ELE or CCKT-19S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-79 or 179		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-12G-RUD or CCKT-12S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
180C[1] 1960[1]			
S/N 50662 thru 50744, 50746 thru 50747			
Complete Cable Kit P/N CCKT180-03G (Galvanized)			
Complete Cable Kit P/N CCKT180-03S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-25*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-52 or 152		Rudder Aft
2	MC0510105-153 [2]		Tailwheel Steering
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-19G-ELE or CCKT-19S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-79 or 179		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
1	MC0510105-70 or 170		Parking Brake

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-12G-RUD or CCKT-12S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
180C[1]D,E,F,G[1] 1960[1]-1964[1]			
S/N 50745, 50748 thru 18051410			
Complete Cable Kit P/N CCKT180-04G (Galvanized)			
Complete Cable Kit P/N CCKT180-04S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-25* or -26* Note 1			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-153 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-20G-ELE or CCKT-20S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-12G-RUD or CCKT-12S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
Note 1: S/N 50745, 50748 thru 18051183 USE PULL-KT-25			
S/N 18051184 thru 18051410 USE PULL-KT-26			
180G[1] 1964[1]			
S/N 18051411 thru 18051445			
Complete Cable Kit P/N CCKT180-05G (Galvanized)			
Complete Cable Kit P/N CCKT180-05S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-26*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
2	MC0510105-323 [2]		Tailwheel Steering
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-20G-ELE or CCKT-20S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
180H[1] 1965			
S/N 18051446 thru 18051607			
Complete Cable Kit P/N CCKT180-06G (Galvanized)			
Complete Cable Kit P/N CCKT180-06S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-27*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-20G-ELE or CCKT-20S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
180H[1] 1966-1971[1]			
S/N 18051608 thru 18052206			
Complete Cable Kit P/N CCKT180-07G (Galvanized)			
Complete Cable Kit P/N CCKT180-07S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-28*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-20G-ELE or CCKT-20S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera
180H[1], J[1] 1971[1]-1973[1]			
S/N 18052207 thru 18052331			
Complete Cable Kit P/N CCKT180-08G (Galvanized)			
Complete Cable Kit P/N CCKT180-08S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-83*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit			
P/N CCKT-20G-ELE or CCKT-20S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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180J[1] 1973[1]
S/N 18052332 thru 18052384
Complete Cable Kit P/N CCKT180-09G (Galvanized)
Complete Cable Kit P/N CCKT180-09S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-83*

Qty	P/N	Galv or SS	Location
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-18G-AIL or CCKT-18S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-20G-ELE or CCKT-20S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Stab Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-14G-RUD or CCKT-14S-RUD			
1	MC0510105-71 or 171		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft with camera option			
1	MC0510105-128		Stabilizer Trim with Camera
1	MC0510105-167		Rudder LH with Camera
1	MC0510105-168		Rudder RH with Camera
1	MC0510105-131		Elevator Up with Camera
1	MC0510105-132		Elevator Down with Camera

180J[1] 1974-1976
S/N 18052385 thru 18052770
Complete Cable Kit P/N CCKT180-12G (Galvanized)
Complete Cable Kit P/N CCKT180-12S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-29*

Qty	P/N	Galv or SS	Location
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-18G-AIL or CCKT-18S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Bellcrank Aileron Bushing

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-23G-ELE or CCKT-23S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Stab Trim Forward
1	MCS2295P25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-14G-RUD or CCKT-14S-RUD			
1	MC0510105-71 or 171		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft equipped with floats			
1	MC0742022-1 [3]		Rudder Return
1	MC0742022-2 [3]		Rudder Return

180K[1] 1977-1980
S/N 18052771 thru 18053167
Complete Cable Kit P/N CCKT180-10G (Galvanized)
Complete Cable Kit P/N CCKT180-10S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-29*

Qty	P/N	Galv or SS	Location
2	MC0760135-106 [2]		Tailwheel Steering
1	MC0510105-394 [2]		Tailwheel Lock
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-19G-AIL or CCKT-19S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0760135-8 or 108		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-21G-ELE or CCKT-21S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stab Trim Forward
1	MCS2295P25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-14G-RUD or CCKT-14S-RUD			
1	MC0510105-71 or 171		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft equipped with floats			
1	MC0742022-1		Rudder Return
1	MC0742022-2		Rudder Return
180K[1] 1981			
S/N 18053168 thru 18053203			
Complete Cable Kit P/N CCKT180-11G (Galvanized)			
Complete Cable Kit P/N CCKT180-11S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-29*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0760135-106 [2]		Tailwheel Steering
1	MC0510105-394 [2]		Tailwheel Lock
1	MC0510105-278 [2]		Parking Brake
Aileron Cable Kit			
P/N CCKT-19G-AIL or CCKT-19S-AIL			
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC0760135-8 or 108		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-21G-ELE or CCKT-21S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stab Trim Forward
1	MCS2295P25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-14G-RUD or CCKT-14S-RUD			
1	MC0510105-71 or 171		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
Available separately for aircraft equipped with floats			
1	MC0742022-1		Rudder Return
1	MC0742022-2		Rudder Return

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
182,182A 1956-1958			
S/N 33000 thru 51556			
Complete Cable Kit P/N CCKT182-01G (Galvanized)			
Complete Cable Kit P/N CCKT182-01S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-34*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-19G-ELE or CCKT-19S-ELE			
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-79 or 179		Elevator Trim
1	MC0432138-2		Chain Stab Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-15G-RUD or CCKT-15S-RUD			
1	MC0510105-26 or 126		Rudder Control LH
1	MC0510105-66 or 166		Rudder Control RH
1	MC0510105-73 or 173		Rudder Bar Tie
182B 1959			
S/N 51557 thru 52358			
Complete Cable Kit P/N CCKT182-14G (Galvanized)			
Complete Cable Kit P/N CCKT182-14S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-34*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-29G-ELE or CCKT-29S-ELE			
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-79 or 179		Elevator Trim
1	MC0432138-2		Chain Stab Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit P/N CCKT-15G-RUD or CCKT-15S-RUD			
1	MC0510105-26 or 126		Rudder Control LH
1	MC0510105-66 or 166		Rudder Control RH
1	MC0510105-73 or 173		Rudder Bar Tie
182C[1] 1960[1] S/N 52359 thru 52611 & 52613 Complete Cable Kit P/N CCKT182-02G (Galvanized) Complete Cable Kit P/N CCKT182-02S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-35*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-19G-ELE or CCKT-19S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-79 or 179		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Stab Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-16G-RUD or CCKT-16S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
182C[1],D 1960[1]-1961 S/N 52612, 52614 thru 53007, 18253008 thru 18253598 Complete Cable Kit P/N CCKT182-03G (Galvanized) Complete Cable Kit P/N CCKT182-03S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-35*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-22G-ELE or CCKT-22S-ELE			
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
1	MC0510105-82 or 182		Elevator Trim
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MC0432138-2		Chain Stab Trim Forward
1	MCS2295-25-185		Chain Stab Trim Aft
4	MCS2294-25		Chain Connecting Link

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-16G-RUD or CCKT-16S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft
1	MC0510105-73 or 173		Rudder Bar Tie
182E[1] 1962[1] S/N 18253599 thru 18253929 Complete Cable Kit P/N CCKT182-04G (Galvanized) Complete Cable Kit P/N CCKT182-04S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-36*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-85 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-21G-AIL or CCKT-21S-AIL			
2	MC0510105-95 or 195		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-24G-ELE or CCKT-24S-ELE			
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-88 or 188		Elevator Down Spring
1	MC0510105-86 or 186		Elevator Trim Forward LH
1	MC0510105-97 or 197		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295-25-249		Elevator Trim Chain Forward
1	MCS2295P25-113		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft
182E[1],F,G 1962[1]-1964 S/N 18253930 thru 18255844 Complete Cable Kit P/N CCKT182-05G (Galvanized) Complete Cable Kit P/N CCKT182-05S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-85*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-85 [2]		Parking Brake
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-21G-AIL or CCKT-21S-AIL			
2	MC0510105-95 or 195		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-25G-ELE or CCKT-25S-ELE			
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-88 or 188		Elevator Down Spring
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295-25-67		Elevator Trim Chain Forward
1	MCS2295-25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
182H,J,K 1965-1967 S/N 18255845 thru 18258505 Complete Cable Kit P/N CCKT182-06G (Galvanized) Complete Cable Kit P/N CCKT182-06S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-85* or -36* Note 1			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-85 2		Parking Brake
Aileron Cable Kit P/N CCKT-21G-AIL or CCKT-21S-AIL			
2	MC0510105-95 or 195		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-26G-ELE or CCKT-26S-ELE			
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295-25-67		Elevator Trim Chain Forward
1	MCS2295-25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft

Note 1: S/N 18255845 thru 18257625 USE PULL-KT-85
S/N 18257626 thru 18258399 USE PULL-KT-36
S/N 18258400 thru 18558505 USE PULL-KT-85

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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182L,M,N,P1 1968-1973
S/N 18258506 thru 18262465
Complete Cable Kit P/N CCKT182-07G (Galvanized)
Complete Cable Kit P/N CCKT182-07S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-37*, -38*, -86* Note 1

Qty	P/N	Galv or SS	Location
1	MC0510105-85 2		Parking Brake
Aileron Cable Kit P/N CCKT-22G-AIL or CCKT-22S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC1260078-3 or 103		Aileron Yoke RH
1	MC1260078-2 or 102		Aileron Yoke LH
1	MC1260078-5 2		Aileron Drive Quadrant
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-26G-ELE or CCKT-26S-ELE			
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295-25-67		Elevator Trim Chain Forward
1	MCS2295-25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft

Note 1: S/N 18258506 thru 18260445 USE PULL-KT-37
S/N 18260446 thru 18260669 USE PULL-KT-38
S/N 18260670 thru 18262465 USE PULL-KT-86

182P1,Q,R1,T182,F182P,Q 1974- 1981 1
S/N 18262466 thru 18267789,
F18200001 thru F18200169
Complete Cable Kit P/N CCKT182-08G (Galvanized)
Complete Cable Kit P/N CCKT182-08S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-39*

Qty	P/N	Galv or SS	Location
Aileron Cable Kit P/N CCKT-22G-AIL or CCKT-22S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC1260078-3 or 103		Aileron Yoke RH
1	MC1260078-2 or 102		Aileron Yoke LH
1	MC1260078-5 2		Aileron Drive Quadrant
4	MC0422280		Aileron Bellcrank Bushing
Elevator Cable Kit P/N CCKT-26G-ELE or CCKT-26S-ELE			
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295-25-67		Elevator Trim Chain Forward
1	MCS2295-25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
1	MC0510105-233 or 333		Parking Brake
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft
182R1,T1821 1981 1-1982			
S/N 18267790 thru 18268293			
Complete Cable Kit P/N CCKT182-09G (Galvanized)			
Complete Cable Kit P/N CCKT182-09S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-39*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-279 2		Parking Brake
Aileron Cable Kit P/N CCKT-23G-AIL or CCKT-23S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC1260078-3 or 103		Aileron Yoke RH
1	MC1260078-2 or 102		Aileron Yoke LH
1	MC1260078-5 2		Aileron Drive Quadrant
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-26G-ELE or CCKT-26S-ELE			
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295-25-67		Elevator Trim Chain Forward
1	MCS2295-25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft
182R1,T1821 1983-1986			
S/N 18268294 thru 18268615			
Complete Cable Kit P/N CCKT182-10G (Galvanized)			
Complete Cable Kit P/N CCKT182-10S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-39*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-279 2		Parking Brake
Aileron Cable Kit (continued in the next column) P/N CCKT-23G-AIL or CCKT-23S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC1260078-3 or 103		Aileron Yoke RH
1	MC1260078-2 or 102		Aileron Yoke LH
1	MC1260078-5 2		Aileron Drive Quadrant

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit (continued from previous column) P/N CCKT-23G-AIL or CCKT-23S-AIL			
4	MC0422280		Bellcrank Aileron Bushing
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295P25-67		Elevator Trim Chain Forward
1	MCS2295P25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft
R1821,TR1821,FR182 1978-19811			
S/N R18200001 thru R18201679, FR18200001 thru FR18200070			
Complete Cable Kit P/N CCKT182-11G (Galvanized)			
Complete Cable Kit P/N CCKT182-11S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-40*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-233 or 333		Parking Brake
Aileron Cable Kit P/N CCKT-24G-AIL or CCKT-24S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-28G-ELE or CCKT-28S-ELE			
1	MC0510105-250 or 350		Elevator LH Yoke
1	MC0510105-249 or 349		Elevator RH Yoke
1	MC0510105-245 or 345		Elevator Trim LH Forward
1	MC0510105-246 or 346		Elevator Trim RH Forward
1	MC0510105-247 or 347		Elevator Trim LH Aft
1	MC0510105-248 or 348		Elevator Trim RH Aft
1	MCS2295P25-67		Elevator Trim Chain Forward
1	MCS2295P25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-18G-RUD or CCKT-18S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-18 or 118		Rudder Aft

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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R182[1],TR182[1] 1981[1]-1986
S/N R18201680 thru R18202041
Complete Cable Kit P/N CCKT182-12G (Galvanized)
Complete Cable Kit P/N CCKT182-12S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-40*

Qty	P/N	Galv or SS	Location
1	MC0510105-279 [2]		Parking Brake
Aileron Cable Kit			
P/N CCKT-24G-AIL or CCKT-24S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-28G-ELE or CCKT-28S-ELE			
1	MC0510105-250 or 350		Elevator LH Yoke
1	MC0510105-249 or 349		Elevator RH Yoke
1	MC0510105-245 or 345		Elevator Trim LH Forward
1	MC0510105-246 or 346		Elevator Trim RH Forward
1	MC0510105-247 or 347		Elevator Trim LH Aft
1	MC0510105-248 or 348		Elevator Trim RH Aft
1	MCS2295P25-67		Elevator Trim Chain Forward
1	MCS2295P25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-18G-RUD or CCKT-18S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-18 or 118		Rudder Aft

182S,182T, T182T 1997 and On
S/N 18280001 and On, T18208001 and On
Complete Cable Kit P/N CCKT182-13G (Galvanized)
Complete Cable Kit P/N CCKT182-13S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-80*

Qty	P/N	Galv or SS	Location
1	MC0510105-279 [2]		Parking Brake
Aileron Cable Kit			
P/N CCKT-25G-AIL or CCKT-25S-AIL			
2	MC0510105-228 or 328		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
1	MC1260078-5 or 105		Aileron Yoke Primary
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-8 or 108		Aileron Yoke RH
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-27G-ELE or CCKT-27S-ELE			
1	MC0510105-90 or 190		Elevator LH Yoke
1	MC0510105-89 or 189		Elevator RH Yoke
1	MC0510105-201 or 301		Elevator Trim Forward LH
1	MC0510105-202 or 302		Elevator Trim Forward RH
1	MC0510105-87 or 187		Elevator Trim Aft LH
1	MC0510105-98 or 198		Elevator Trim Aft RH
1	MCS2295P25-67		Elevator Trim Chain Forward
1	MCS2295P25-71		Elevator Trim Chain Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-17G-RUD or CCKT-17S-RUD			
1	MC0510105-77 or 177		Rudder Control LH
1	MC0510105-78 or 178		Rudder Control RH
2	MC1260105-9 or 109		Rudder Aft

185 1961
S/N 1850001 thru 1850237
Complete Cable Kit P/N CCKT185-01G (Galvanized)
Complete Cable Kit P/N CCKT185-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-30*

Qty	P/N	Galv or SS	Location
2	MC0510105-196 [2]		Tailwheel Steering
1	MC0713070-28 [2]		Cable Assembly Park Brake
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-30G-ELE or CCKT-30S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295-25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Trim

185A,B,C[1] 1962-1964[1]
S/N 1850238 thru 1850768
Complete Cable Kit P/N CCKT185-02G (Galvanized)
Complete Cable Kit P/N CCKT185-02S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-30*

Qty	P/N	Galv or SS	Location
2	MC0510105-199 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit (continued on next page)			
P/N CCKT-31G-ELE or CCKT-31S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Continued from previous page

Qty	P/N	Galv or SS	Location
Elevator Cable Kit (continued from previous page)			
P/N CCKT-31G-ELE or CCKT-31S-ELE			
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295-25-185		Chain Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Trim
185C[1] 1964[1]			
S/N 1850769 thru 1850776			
Complete Cable Kit P/N CCKT185-03G (Galvanized)			
Complete Cable Kit P/N CCKT185-03S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-30*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28 [2]		Cable Assembly Park Brake
Aileron Cable Kit			
P/N CCKT-10G-AIL or CCKT-10S-AIL			
2	MC0510105-16 or 116		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-30G-ELE or CCKT-30S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295-25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Trim

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Continued from previous column

Qty	P/N	Galv or SS	Location
185D 1965			
S/N 1850777 thru 1850967			
Complete Cable Kit P/N CCKT185-04G (Galvanized)			
Complete Cable Kit P/N CCKT185-04S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-31*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-30G-ELE or CCKT-30S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295-25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-09G-FLP or CCKT-09S-FLP			
2	MC0510105-59 or 159		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-61 or 161		Flap Direct Inboard LH
1	MC0510105-62 or 162		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Control Aft
1	MC0510105-73 or 173		Rudder Trim
185E,A185E[1] 1966-1971[1]			
S/N 1850968 thru 18501901			
Complete Cable Kit P/N CCKT185-05G (Galvanized)			
Complete Cable Kit P/N CCKT185-05S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-32*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-73 or 173		Rudder Trim
1	MC0510105-70 or 170		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Continued from previous page

Qty	P/N	Galv or SS	Location
Elevator Cable Kit			
P/N CCKT-30G-ELE or CCKT-30S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295-25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
A185E[1],A185F[1] 1971[1]-1973[1]			
S/N 18501902 thru 18502206			
Complete Cable Kit P/N CCKT185-06G (Galvanized)			
Complete Cable Kit P/N CCKT185-06S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-84*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC0510105-232 [2]		Parking Brake
2	MC0510105-323 [2]		Tailwheel Steering
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Rudder Cable Kit			
P/N CCKT-13G-RUD or CCKT-13S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-71 or 171		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Trim
Elevator Cable Kit			
P/N CCKT-30G-ELE or CCKT-30S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295-25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
A185F[1] 1973[1]			
S/N 18502207 thru 18502310			
Complete Cable Kit P/N CCKT185-11G (Galvanized)			
Complete Cable Kit P/N CCKT185-11S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-84*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-30G-ELE or CCKT-30S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295-25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit			
P/N CCKT-14G-RUD or CCKT-14S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-237or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Trim
A185F[1] 1974-1976			
S/N 18502311 thru 18503153			
Complete Cable Kit P/N CCKT185-07G (Galvanized)			
Complete Cable Kit P/N CCKT185-07S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-33*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0510105-323 [2]		Tailwheel Steering
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit			
P/N CCKT-18G-AIL or CCKT-18S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-32G-ELE or CCKT-32S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295P25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-14G-RUD or CCKT-14S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Control Aft
1	MC0510105-73 or 173		Rudder Trim
Available separately for aircraft equipped with floats			
1	MC0742022-1 [3]		Rudder Return
1	MC0742022-2 [3]		Rudder Return
185F[1] 1977-1980 S/N 18503154 thru 18504138 Complete Cable Kit P/N CCKT185-08G (Galvanized) Complete Cable Kit P/N CCKT185-08S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-33*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0760135-106 [2]		Tailwheel Steering
1	MC0510105-394 [2]		Tailwheel Lock
1	MC0510105-232 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-19G-AIL or CCKT-19S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0760135-8 or 108		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-32G-ELE or CCKT-32S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295P25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

[3] MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-19G-RUD or CCKT-19S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Control Aft
1	MC0510105-73 or 173		Rudder Trim
Available separately for aircraft equipped with floats			
1	MC0742022-1		Rudder Return
1	MC0742022-2		Rudder Return
185F[1] 1981[1]-1982[1] S/N 18504139 thru 18504379, 18504381 thru 18504391 Complete Cable Kit P/N CCKT185-09G (Galvanized) Complete Cable Kit P/N CCKT185-09S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-33*			
Qty	**P/N**	**Galv or SS**	**Location**
2	MC0760135-106 [2]		Tailwheel Steering
1	MC0510105-394 [2]		Tailwheel Lock
1	MC0510105-278 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-19G-AIL or CCKT-19S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0760135-8 or 108		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-222 or 322		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-32G-ELE or CCKT-32S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295P25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
Rudder Cable Kit P/N CCKT-19G-RUD or CCKT-19S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Control Aft
1	MC0510105-73 or 173		Rudder Trim
Available separately for aircraft equipped with floats			
1	MC0742022-1		Rudder Return
1	MC0742022-2		Rudder Return

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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A185F[1] 1982[1]-1985
S/N 18504380, 18504392 thru 18504448
Complete Cable Kit P/N CCKT185-10G (Galvanized)
Complete Cable Kit P/N CCKT185-10S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-33*

Qty	P/N	Galv or SS	Location
2	MC0760135-106 [2]		Tailwheel Steering
1	MC0510105-394 [2]		Tailwheel Lock
1	MC0510105-278 [2]		Parking Brake
Aileron Cable Kit P/N CCKT-26G-AIL or CCKT-26S-AIL			
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0760135-8 or 108		Aileron Yoke Primary
1	MC0510105-216 or 316		Aileron Yoke Transition
2	MC0510105-295 or 395		Aileron Direct to Yoke
2	MC0510105-262 or 362		Aileron Direct to Bellcrank
1	MC0510105-264 or 364		Aileron Carry Thru LH
1	MC0510105-265 or 365		Aileron Carry Thru RH
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-32G-ELE or CCKT-32S-ELE			
1	MC0510105-82 or 182		Elevator Trim
1	MC0510105-24 or 124		Elevator Upper
1	MC0510105-25 or 125		Elevator Lower
2	MC0510105-28 or 128		Stabilator Trim Forward
2	MC0510105-29 or 129		Stabilator Trim Aft
1	MCS2295P25-321		Chain Stabilator Trim Fwd
1	MCS2295P25-185		Chain Stabilator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-11G-FLP or CCKT-11S-FLP			
2	MC0510105-225 or 325		Flap Direct Outboard
1	MC0510105-227 or 327		Flap Direct Inboard LH
1	MC0510105-226 or 326		Flap Direct Inboard RH
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
2	MC0510105-60 or 160		Flap Return Outboard
1	MC0510105-63 or 163		Flap Return Inboard LH
1	MC0510105-64 or 164		Flap Return Inboard RH
Rudder Cable Kit P/N CCKT-19G-RUD or CCKT-19S-RUD			
1	MC0510105-51 or 151		Rudder Forward LH
1	MC0510105-237 or 337		Rudder Forward RH
2	MC0510105-52 or 152		Rudder Aft
1	MC0510105-73 or 173		Rudder Trim
Available separately for aircraft equipped with floats			
1	MC0742022-1		Rudder Return
1	MC0742022-2		Rudder Return

188, A188 1966[1]-1967[1]
S/N 1880001 thru 1880293
Complete Cable Kit P/N CCKT188-01
Complete Pulley Kit P/N PULL-KT-41*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
Aileron Cable Kit P/N CCKT-27-AIL		
2	MC1660300-8	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-33-ELE			
1	MC1660300-3		Elevator Down Forward
1	MC1660300-5		Elevator Up
1	MC1660300-4		Elevator Down Aft
1	MC1660300-6		Elevator Trim Forward Upper
1	MC1660300-7		Elevator Trim Forward Lower
1	MC0510105-187		Elevator Trim Aft Lower
1	MC0510105-198		Elevator Trim Aft Upper
1	MCS2295-25-70		Elevator Trim Chain Forward
1	MCS2295P25-71		Elevator Trim Chain Aft
4	MCS2294-25		Connecting Link
Flap Cable Kit P/N CCKT-13-FLP			
1	MC1660300-13		Flap Direct LH Bellcrank
1	MC1660300-12		Flap Direct RH Bellcrank
1	MC1660300-15		Flap Retract LH Bellcrank
1	MC1660300-14		Flap Retract RH Bellcrank
1	1660300-17 [7]		Flap Retract to Lever
1	1660300-16 [7]		Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD			
2	MC1660300-1		Rudder Forward
2	MC1660300-2		Rudder Center
2	MC0510105-152		Rudder Aft

188, A188 1966[1]-1967[1]
S/N 1880294 thru 1880317
Complete Cable Kit P/N CCKT188-02
Complete Pulley Kit P/N PULL-KT-41*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
Aileron Cable Kit P/N CCKT-27-AIL		
2	MC1660300-8	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

Notes:
[1] Partial model eligibility
[7] Listed for reference only

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188, A188 1968-1969
S/N 1880318 thru 1880572
Complete Cable Kit P/N CCKT188-03
Complete Pulley Kit P/N PULL-KT-42*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
Aileron Cable Kit P/N CCKT-27-AIL		
2	MC1660300-8	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

188A, A188A 1970[1]-1971[1]
S/N 18800573 thru 18800707
Complete Cable Kit P/N CCKT188-04
Complete Pulley Kit P/N PULL-KT-43*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
Aileron Cable Kit P/N CCKT-28-AIL		
2	MC1660300-30	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link

Notes:
[1] Partial model eligibility

Continued on next column

Continued from previous column

Qty	P/N	Location
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

188A, A188A 1970[1]-1971[1]
S/N 18800708 thru 18800832
Complete Cable Kit P/N CCKT188-05
Complete Pulley Kit P/N PULL-KT-44*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

188B[1], A188B[1] 1972[1]
S/N 18800833 thru 18800874
Complete Cable Kit P/N CCKT188-06
Complete Pulley Kit P/N PULL-KT-44*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC1660300-41	Deflector
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing

Notes:
[1] Partial model eligibility

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Qty	P/N	Location
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

188B[1], A188B[1] 1972[1]-1973
S/N 18800875 thru 18801374 & 967T thru 1374T
Complete Cable Kit P/N CCKT188-07
Complete Pulley Kit P/N PULL-KT-44* or -45* Note 1

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC1660300-41	Deflector
1	MC9861000-1	Tailwheel Lock Control
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever

Notes:
[1] Partial model eligibility

Continued on next column

Continued from previous column

Qty	P/N	Location
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

Note 1: S/N 18800875 thru 18801348 USE PULL-KT-44
S/N 18801349T thru 18801374T USE PULL-KT-44
S/N 18801349 thru 18801374 USE PULL-KT-45

188B[1], A188B[1] 1974[1]
S/N 18801375 thru 18801402 & 1375T thru 1402T
Complete Cable Kit P/N CCKT188-08
Complete Pulley Kit P/N PULL-KT-45*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC1660300-42	Deflector W/Flashing Beacon
1	MC1660300-43	Deflector
1	MC9861000-1	Tailwheel Lock Control
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

188B[1], A188B[1] 1974[1]-1975
S/N 18801403 thru 18802348 & 1403T thru 2348T
Complete Cable Kit P/N CCKT188-09
Complete Pulley Kit P/N PULL-KT-46*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC1660300-42	Deflector W/Flashing Beacon
1	MC1660300-43	Deflector
2	MC1660300-44	Parking Brake
1	MC9861000-1	Tailwheel Lock Control
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing

Notes:
[1] Partial model eligibility

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Qty	P/N	Location
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

A188B[1] 1976
S/N 18802349 thru 18802745, 18802349T thru 18802745T
Complete Cable Kit P/N CCKT188-10
Complete Pulley Kit P/N PULL-KT-46*

Qty	P/N	Location
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC9861000-1	Tailwheel Lock Control
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-14-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever

Notes:
[1] Partial model eligibility

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Qty	P/N	Location
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

A188B[1] 1977-1978
S/N 18802746 thru 18803296, 18802746T thru 18803296T
Complete Cable Kit P/N CCKT188-11
Complete Pulley Kit P/N PULL-KT-46*

Qty	P/N	Location
2	MC0760135-106	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC9861000-1	Tailwheel Lock Control
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-15-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	1660300-47 [7]	Flap Retract to Lever
1	1660300-46 [7]	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

A188B[1], T188C 1979
S/N 18803297 thru 18803521, 18803297T thru 18803521T, T18803297T thru T18803521T
Complete Cable Kit P/N CCKT188-12
Complete Pulley Kit P/N PULL-KT-46*

Qty	P/N	Location
2	MC0760135-106	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC9861000-1	Tailwheel Lock Control
1	MC1660300-48	Deflector
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing

Notes:
[1] Partial model eligibility
[7] Listed for reference only

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Qty	P/N	Location
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-15-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	1660300-47 7	Flap Retract to Lever
1	1660300-46 7	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

A188B1, T188C 1980-1983
S/N 18803522 thru 18803856, 18803522T thru 18803968T, T18803522T thru T18803968T
Complete Cable Kit P/N CCKT188-13
Complete Pulley Kit P/N PULL-KT-46*

Qty	P/N	Location
2	MC0760135-106	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC9861000-1	Tailwheel Lock Control
Aileron Cable Kit P/N CCKT-29-AIL		
2	MC1660300-35	Aileron Direct to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
4	MC0422280	Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-33-ELE		
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Forward Upper
1	MC1660300-7	Elevator Trim Forward Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Forward
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
Flap Cable Kit P/N CCKT-15-FLP		
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	1660300-47 7	Flap Retract to Lever
1	1660300-46 7	Flap Direct to Lever
Rudder Cable Kit P/N CCKT-20-RUD		
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

Notes:
1 Partial model eligibility
7 Listed for reference only

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210-5 (205)1 1963-1
S/N 205-0001 thru 205-0050
Complete Cable Kit P/N CCKT205-01G (Galvanized)
Complete Cable Kit P/N CCKT205-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-47*

Qty	P/N	Galv or SS	Location
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit P/N CCKT-30G-AIL or CCKT-30S-AIL			
2	MC1260505-3 or 103		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-34G-ELE or CCKT-34S-ELE			
1	MC1260505-18 or 118		Elevator Down
1	MC1260505-19 or 119		Elevator Up
1	MC1260505-2 or 102		Elevator Down Spring
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MC1260505-16 or 116		Elevator Trim Forward LH
1	MC1260505-17 or 117		Elevator Trim Forward RH
1	MC1260505-8 or 108		Elevator Trim Aft LH
1	MC1260505-7 or 107		Elevator Trim Aft RH
1	MCS2295P25-113		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct RH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 0r 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

210-5 (205)1,210-5A (205A) 1963-1-1964
S/N 205-0051 thru 205-0577
Complete Cable Kit P/N CCKT205-02G (Galvanized)
Complete Cable Kit P/N CCKT205-02S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-47*

Qty	P/N	Galv or SS	Location
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit P/N CCKT-30G-AIL or CCKT-30S-AIL			
2	MC1260505-3 or 103		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit P/N CCKT-35G-ELE or CCKT-35S-ELE			
1	MC1260505-18 or 118		Elevator Down
1	MC1260505-19 or 119		Elevator Up
1	MC1260505-2 or 102		Elevator Down Spring
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MC1260505-16 or 116		Elevator Trim Forward LH
1	MC1260505-21 or 121		Elevator Trim Forward RH
1	MC1260505-8 or 108		Elevator Trim Aft LH
1	MC1260505-20 or 120		Elevator Trim Aft RH
1	MCS2295P25-113		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link

Notes:
1 Partial model eligibility
6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct RH
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
206,U206,A,B,TU206A,B 1964-1967			
P206,P206A,B,TP206A,B 1964-1967			
S/N 206-0001 thru U206-0914, P206-0001 thru P206-0419			
Complete Cable Kit P/N CCKT206-01G (Galvanized)			
Complete Cable Kit P/N CCKT206-01S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-48*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260417-1 or 2		Park Cable and Tube
1	MC1260505-1 or 101		Park Brake
Aileron Cable Kit			
P/N CCKT-31G-AIL or CCKT-31S-AIL			
2	MC1260505-25 or 125		Aileron Direct
2	MC1260505-26 or 126		Aileron Direct Outboard
1	MC1260505-23 or 123		Aileron Carry Thru LH
1	MC1260505-27 or 127		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-36G-ELE or CCKT-36S-ELE			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-28 or 128		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-16 or 116		Elevator Trim Forward LH
1	MC1260505-21 or 121		Elevator Trim Forward RH
1	MC1260505-8 or 108		Elevator Trim Aft LH
1	MC1260505-20 or 120		Elevator Trim Aft RH
1	MCS2295P25-113 20		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-9 or 109		Rudder Aft LH with Camera

Notes:

1 Partial model eligibility

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

20 Pending FAA-PMA approval of eligibility for these aircraft. Not included in kit until approval received.

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Qty	P/N	Galv or SS	Location
U206C,D1,TU206C,D1 1968-1969 1			
P206C,D1,TP206C,D1 1968-1969 1			
S/N U206-0915 thru U206-1345, P206-0420 thru P206-0583			
Complete Cable Kit P/N CCKT206-02G (Galvanized)			
Complete Cable Kit P/N CCKT206-02S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-02GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-02SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-49*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Cable and Tube
Aileron Cable Kit			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-37G-ELE or CCKT-37S-ELE			
P/N CCKT-37GE-ELE or CCKT-37SE-ELE (Electric Trim)			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-53 or 153		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-16 or 116		Elevator Trim Forward LH 8
1	MC1260505-21 or 121		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-45 or 145		Elevator Trim Aft RH 8
1	MC1260505-168 or 168		Elevator Trim Center LH 9
1	MC1260505-64 or 164		Elevator Trim Center RH 9
1	MC1260505-63 or 163		Elevator Trim Forward LH 9
1	MC1260505-69 or 169		Elevator Trim Aft RH 9
1	MC1260505-57 or 157		Elevator Trim Aft LH 9
1	MCS2295P25-113 20		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-9 or 109		Rudder Aft LH with Camera

Notes:

1 Partial model eligibility

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

8 Included in kits for manual trim aircraft only

9 Included in kits for electric trim aircraft only

20 Pending FAA-PMA approval of eligibility for these aircraft. Not included in kit until approval received.

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U206D[1],E[1], TU206D[1],E[1] 1965-1971[1]
P206D[1],E, TP206D[1],E 1965-1971[1]
S/N U206-1346 thru U20601667, P206-0584 thru P20600647
Complete Cable Kit P/N CCKT206-03G (Galvanized)
Complete Cable Kit P/N CCKT206-03S (Stainless Steel)
Complete Cable Kit P/N CCKT206-03GE (Galv. Elec. Trim)
Complete Cable Kit P/N CCKT206-03SE (SS Electric Trim)
Complete Pulley Kit P/N PULL-KT-49*

Qty	P/N	Galv or SS	Location
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-38G-ELE or CCKT-38S-ELE			
P/N CCKT-38GE-ELE or CCKT-38SE-ELE (Electric Trim)			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-95 or 195		Elevator Trim Forward LH [8]
1	MC1260505-92 or 192		Elevator Trim Forward RH [8]
1	MC1260505-46 or 146		Elevator Trim Aft LH [8]
1	MC1260505-91 or 191		Elevator Trim Aft RH [8]
1	MC1260505-168 or 168		Elevator Trim Center LH [9]
1	MC1260505-64 or 164		Elevator Trim Center RH [9]
1	MC1260505-63 or 163		Elevator Trim Forward LH [9]
1	MC1260505-69 or 169		Elevator Trim Aft RH [9]
1	MC1260505-57 or 157		Elevator Trim Aft LH [9]
1	MCS2295-25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-9 or 109		Rudder Aft LH with Camera

Notes:
[1] Partial model eligibility
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.
[8] Included in kits for manual trim aircraft only
[9] Included in kits for electric trim aircraft only

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U206E[1], TU206E[1] 1971[1]
S/N U20601668 thru U20601700
Complete Cable Kit P/N CCKT206-04G (Galvanized)
Complete Cable Kit P/N CCKT206-04S (Stainless Steel)
Complete Cable Kit P/N CCKT206-04GE (Galv. Elec. Trim)
Complete Cable Kit P/N CCKT206-04SE (SS Electric Trim)
Complete Pulley Kit P/N PULL-KT-50*

Qty	P/N	Galv or SS	Location
1	MC1260505-97 or 197		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-38G-ELE or CCKT-38S-ELE			
P/N CCKT-38GE-ELE or CCKT-38SE-ELE (Electric Trim)			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-95 or 195		Elevator Trim Forward LH [8]
1	MC1260505-92 or 192		Elevator Trim Forward RH [8]
1	MC1260505-46 or 146		Elevator Trim Aft LH [8]
1	MC1260505-91 or 191		Elevator Trim Aft RH [8]
1	MC1260505-168 or 168		Elevator Trim Center LH [9]
1	MC1260505-64 or 164		Elevator Trim Center RH [9]
1	MC1260505-63 or 163		Elevator Trim Forward LH [9]
1	MC1260505-69 or 169		Elevator Trim Aft RH [9]
1	MC1260505-57 or 157		Elevator Trim Aft LH [9]
1	MCS2295-25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-9 or 109		Rudder Aft LH with Camera

U206F[1], TU206F[1] 1972[1]

S/N U20601701 thru U20601748
Complete Cable Kit P/N CCKT206-05G (Galvanized)
Complete Cable Kit P/N CCKT206-05S (Stainless Steel)
Complete Cable Kit P/N CCKT206-05GE (Galv. Elec. Trim)
Complete Cable Kit P/N CCKT206-05SE (SS Electric Trim)
Complete Pulley Kit P/N PULL-KT-51*

Qty	P/N	Galv or SS	Location
1	MC1260505-97 or 197		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube

Notes:
[1] Partial model eligibility
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.
[8] Included in kits for manual trim aircraft only
[9] Included in kits for electric trim aircraft only

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit (continued from previous page)			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-38G-ELE or CCKT-38S-ELE			
P/N CCKT-38GE-ELE or CCKT-38SE-ELE (Electric Trim)			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MC1260505-95 or 195		Elevator Trim Forward LH 8
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-98 or 198		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-99 or 199		Elevator Trim Aft RH 8
1	MC1260505-168 or 168		Elevator Trim Center LH 9
1	MC1260505-64 or 164		Elevator Trim Center RH 9
1	MC1260505-63 or 163		Elevator Trim Forward LH 9
1	MC1260505-69 or 169		Elevator Trim Aft RH 9
1	MC1260505-57 or 157		Elevator Trim Aft LH 9
1	MCS2295-25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
U206F1, TU206F1 1972[1]-1973[1]			
S/N U20601749 thru U20601874			
Complete Cable Kit P/N CCKT206-06G (Galvanized)			
Complete Cable Kit P/N CCKT206-06S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-06GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-06SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-51*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH

Notes:

1 Partial model eligibility
2 Included in both galvanized and stainless kits.
6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.
8 Included in kits for manual trim aircraft only
9 Included in kits for electric trim aircraft only

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit			
P/N CCKT-38G-ELE or CCKT-38S-ELE			
P/N CCKT-38GE-ELE or CCKT-38SE-ELE (Electric Trim)			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-95 or 195		Elevator Trim Forward LH 8
1	MC1260505-98 or 198		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-99 or 199		Elevator Trim Aft RH 8
1	MC1260505-168 or 168		Elevator Trim Center LH 9
1	MC1260505-64 or 164		Elevator Trim Center RH 9
1	MC1260505-63 or 163		Elevator Trim Forward LH 9
1	MC1260505-69 or 169		Elevator Trim Aft RH 9
1	MC1260505-57 or 157		Elevator Trim Aft LH 9
1	MCS2295-25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
U206F1, TU206F1 1973[1]			
S/N U20601875 thru U20601957			
Complete Cable Kit P/N CCKT206-07G (Galvanized)			
Complete Cable Kit P/N CCKT206-07S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-52*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Qty	**P/N**	**Galv or SS**	**Location**
Elevator Cable Kit (continued on next page)			
P/N CCKT-39G-ELE or CCKT-39S-ELE			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH

Notes:

1 Partial model eligibility
2 Included in both galvanized and stainless kits.
6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.
8 Included in kits for manual trim aircraft only
9 Included in kits for electric trim aircraft only

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit (continued from previous page)			
P/N CCKT-39G-ELE or CCKT-39S-ELE			
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-99 or 199		Elevator Trim Aft RH
1	MCS2295-25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
U206F1, TU206F1 1973 1			
S/N U20601958 thru U20602199			
Complete Cable Kit P/N CCKT206-08G (Galvanized)			
Complete Cable Kit P/N CCKT206-08S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-52*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-32G-AIL or CCKT-32S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
2	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-40G-ELE or CCKT-40S-ELE			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-304 or 304		Elevator Trim Aft RH
1	MCS2295-25-47		Chain Elev Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
U206F1 1974			
S/N U20602200 thru U20602579			
Complete Cable Kit P/N CCKT206-09G (Galvanized)			
Complete Cable Kit P/N CCKT206-09S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-53*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-5 or 105		Aileron Yoke Primary
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-8 or 108		Aileron Yoke RH
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-39G-ELE or CCKT-39S-ELE			
1	MC1260505-29 or 129		Elevator Down Forward
1	MC1260505-30 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295-25-47		Chain Elevator Trim Actuator
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-99 or 199		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
U206F1,G1, TU206F1,G1 1975-1980			
S/N U20602580 thru U20605919			
Complete Cable Kit P/N CCKT206-10G (Galvanized)			
Complete Cable Kit P/N CCKT206-10S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-54* or -55* Note 1			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-5 or 105		Aileron Yoke Primary
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-8 or 108		Aileron Yoke RH
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-41G-ELE or CCKT-41S-ELE			
2	MC1260505-306 or 406		Elevator Control
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295-25-47		Chain Elevator Trim Actuator
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-99 or 199		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
Note 1: S/N U20602580 thru U20603798 USE PULL-KT-54 S/N U20603799 thru U20605919 USE PULL-KT-55			
U206G1, TU206G1 19811 S/N U20605920 thru U20606003 Complete Cable Kit P/N CCKT206-11G (Galvanized) Complete Cable Kit P/N CCKT206-11S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-55*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-5 or 105		Aileron Yoke Primary
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-8 or 108		Aileron Yoke RH
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit P/N CCKT-41G-ELE or CCKT-41S-ELE			
2	MC1260505-306 or 406		Elevator Control
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295-25-47		Chain Elevator Trim Actuator
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-99 or 199		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Continued from previous column

Qty	P/N	Galv or SS	Location
Rudder Cable Kit P/N CCKT-21G-RUD or CCKT-21S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-13 or 113		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
U206G1, TU206G1 19811 S/N U20606004 thru U20606439 Complete Cable Kit P/N CCKT206-12G (Galvanized) Complete Cable Kit P/N CCKT206-12S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-55*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-5 or 105		Aileron Yoke Primary
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-8 or 108		Aileron Yoke RH
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit P/N CCKT-41G-ELE or CCKT-41S-ELE			
2	MC1260505-306 or 406		Elevator Control
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295-25-47		Chain Elevator Trim Actuator
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-99 or 199		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit P/N CCKT-22G-RUD or CCKT-22S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-319 or 419		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
U206G, TU206G1 1982-1986 S/N U20606440 thru U20607020 Complete Cable Kit P/N CCKT206-13G (Galvanized) Complete Cable Kit P/N CCKT206-13S (Stainless Steel) Complete Pulley Kit P/N PULL-KT-55*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-34G-AIL or CCKT-34S-AIL			
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-10 or 110		Aileron Yoke Primary
2	MC1260505-320 or 420		Aileron Direct
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-41G-ELE or CCKT-41S-ELE			
2	MC1260505-306 or 406		Elevator Control
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-185		Chain Elevator Trim Fwd Low
1	MCS2295-25-47		Chain Elevator Trim Actuator
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-99 or 199		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-22G-RUD or CCKT-22S-RUD			
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-319 or 419		Rudder Aft LH
Available separately for aircraft with camera option			
1	MC1260105-118 2		Rudder Aft LH with Camera
206H, T206H 1998 & on			
S/N 20608001 and T20608001 & on			
Complete Cable Kit P/N CCKT206H-01G (Galvanized)			
Complete Cable Kit P/N CCKT206H-01S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-56*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 2		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-34G-AIL or CCKT-34S-AIL			
1	MC1260078-10 or 110		Aileron Yoke Primary
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260505-54 or 154		Aileron Carry Thru RH
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
2	MC1260505-320 or 420		Aileron Direct
Elevator Cable Kit			
P/N CCKT-42G-ELE or CCKT-42S-ELE			
2	MC1260505-306 or 406		Elevator Control
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-95 or 195		Elevator Trim Forward LH
1	MC1260505-98 or 198		Elevator Trim Forward RH
1	MC1260505-99 or 199		Elevator Trim Aft RH
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-92 or 192		Flap Direct RH
1	MC0510105-259 or 359		Flap Direct LH
Rudder Cable Kit			
P/N CCKT-22G-RUD or CCKT-22S-RUD			
1	MC1260505-12 or 112		Rudder Aft RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC0510105-203 or 303		Rudder Forward LH
1	MC0510105-204 or 304		Rudder Forward RH
207 1, T207 1 1969 1			
S/N 20700001 thru 20700101			
Complete Cable Kit P/N CCKT207-01G (Galvanized)			
Complete Cable Kit P/N CCKT207-01S (Stainless Steel)			
Complete Cable Kit P/N CCKT207-01GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT207-01SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-57*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit (continued on next column)			
P/N CCKT-43G-ELE or CCKT-43S-ELE			
P/N CCKT-43GE-ELE or CCKT-43SE-ELE (Electric Trim)			
1	MC1260505-78 or 178		Elevator Down Aft
1	MC1260505-75 or 175		Elevator Up Aft
1	MC1260505-129 2		Elevator Down Forward
1	MC1260505-130 2		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295-25-43		Chain Elevator Trim Actuator
Elevator Cable Kit (continued from previous column)			
P/N CCKT-43G-ELE or CCKT-43S-ELE			
P/N CCKT-43GE-ELE or CCKT-43SE-ELE (Electric Trim)			
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
6	MCS2294-25		Chain Connecting Link
1	MC1260505-77 or 177		Elevator Trim Forward LH 8
1	MC1260505-76 or 176		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-45 or 145		Elevator Trim Aft RH 8
1	MC1260204-3 2		Elec Elevator Trim LH 9
1	MC1260505-90 or 190		Elec Elevator Trim Fwd RH 9
1	MC1260505-85 or 185		Elec Elevator Trim Fwd LH 9
1	MC1260505-57 or 157		Electric Trim Aft RH 9
1	MC1260505-69 or 169		Electric Trim Aft LH 9

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

8 Included in kits for manual trim aircraft only

9 Included in kits for electric trim aircraft only

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
1	MC1260505-89 or 189		Elevator Up with Camera
1	MC1260505-88 or 188		Elevator Down with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera
207 1/T207 1 1969 1			
S/N 20700102 thru 20700204			
Complete Cable Kit P/N CCKT207-02G (Galvanized)			
Complete Cable Kit P/N CCKT207-02S (Stainless Steel)			
Complete Cable Kit P/N CCKT207-02GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT207-02SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-57*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-44G-ELE or CCKT-44S-ELE			
P/N CCKT-44GE-ELE or CCKT-44SE-ELE (Electric Trim)			
1	MC1260505-78 or 178		Elevator Down
1	MC1260505-75 or 175		Elevator Up
1	MC1260505-129 2		Elevator Down Forward
1	MC1260505-130 2		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH 8
1	MC1260505-93 or 193		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-91 or 191		Elevator Trim Aft RH 8
1	MC1260204-3 2		Electric Trim LH 9
1	MC1260505-90 or 190		Electric Trim Forward RH 9
1	MC1260505-85 or 185		Electric Trim Forward LH 9
1	MC1260505-57 or 157		Electric Trim Aft RH 9
1	MC1260505-69 or 169		Electric Trim Aft LH 9

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

8 Included in kits for manual trim aircraft only

9 Included in kits for electric trim aircraft only

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
1	MC1260505-89 or 189		Elevator Up with Camera
1	MC1260505-88 or 188		Elevator Down with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera
207 1, T207 1 1969 1-1972 1			
S/N 20700205 thru 20700207			
Complete Cable Kit P/N CCKT207-03G (Galvanized)			
Complete Cable Kit P/N CCKT207-03S (Stainless Steel)			
Complete Cable Kit P/N CCKT207-03GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT207-03SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-58*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-44G-ELE or CCKT-44S-ELE			
P/N CCKT-44GE-ELE or CCKT-44SE-ELE (Electric Trim)			
1	MC1260505-78 or 178		Elevator Down Aft
1	MC1260505-75 or 175		Elevator Up Aft
1	MC1260505-129 2		Elevator Down Forward
1	MC1260505-130 2		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH 8
1	MC1260505-93 or 193		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-91 or 191		Elevator Trim Aft RH 8
1	MC1260204-3 2		Electric Trim LH 9
1	MC1260505-90 or 190		Electric Trim Forward RH 9
1	MC1260505-85 or 185		Electric Trim Forward LH 9
1	MC1260505-57 or 157		Electric Trim Aft RH 9
1	MC1260505-69 or 169		Electric Trim Aft LH 9

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
1	MC1260505-89 or 189		Elevator Up with Camera
1	MC1260505-88 or 188		Elevator Down with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera
207 1, T207 1 1972 1-1973			
S/N 20700208 thru 20700227			
Complete Cable Kit P/N CCKT207-04G (Galvanized)			
Complete Cable Kit P/N CCKT207-04S (Stainless Steel)			
Complete Cable Kit P/N CCKT207-04GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT207-04SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-58*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
Elevator Cable Kit			
P/N CCKT-44G-ELE or CCKT-44S-ELE			
P/N CCKT-44GE-ELE or CCKT-44SE-ELE (Electric Trim)			
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
1	MC1260505-78 or 178		Elevator Down Aft
1	MC1260505-75 or 175		Elevator Up Aft
1	MC1260505-129 2		Elevator Down Forward
1	MC1260505-130 2		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH 8
1	MC1260505-93 or 193		Elevator Trim Forward RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH 8
1	MC1260505-91 or 191		Elevator Trim Aft RH 8
1	MC1260204-3 2		Electric Trim LH 9
1	MC1260505-90 or 190		Electric Trim Forward RH 9
1	MC1260505-85 or 185		Electric Trim Forward LH 9
1	MC1260505-57 or 157		Electric Trim Aft RH 9
1	MC1260505-69 or 169		Electric Trim Aft LH 9

Notes:

1 Partial model eligibility

2 Included in both galvanized and stainless kits.

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

8 Included in kits for manual trim aircraft only

9 Included in kits for electric trim aircraft only

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
1	MC1260505-89 or 189		Elevator Up with Camera
1	MC1260505-88 or 188		Elevator Down with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera
207, T207 1974			
S/N 20700228 thru 20700267			
Complete Cable Kit P/N CCKT207-05G (Galvanized)			
Complete Cable Kit P/N CCKT207-05S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-59*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-44G-ELE or CCKT-44S-ELE			
P/N CCKT-44GE-ELE or CCKT-44SE-ELE (Electric Trim)			
1	MC1260505-78 or 178		Elevator Down Aft
1	MC1260505-75 or 175		Elevator Up Aft
1	MC1260505-129 or 129		Elevator Down Forward
1	MC1260505-130 or 130		Elevator Up Forward
1	MC1260505-303 or 403		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH
1	MC1260505-93 or 193		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-91 or 191		Elevator Trim Aft RH
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
1	MC1260505-88 or 188		Elevator Down with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera

Notes:

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
1	MC1260505-89 or 189		Elevator Up with Camera
207,207A[1], T207,T207A[1] 1975-1980[1]			
S/N 20700268 thru 20700646			
Complete Cable Kit P/N CCKT207-06G (Galvanized)			
Complete Cable Kit P/N CCKT207-06S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-60* or -61* Note 1			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-45G-ELE or CCKT-45S-ELE			
2	MC1260505-307 or 407		Elevator
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
1	MC1260505-94 or 194		Elevator Trim Forward LH
1	MC1260505-93 or 193		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-91 or 191		Elevator Trim Aft RH
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
2	MC1260505-310 or 410		Elevator with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera

Note 1 S/N 20700268 thru 20700390 USE PULL-KT-60
S/N 20700391 thru 20700646 USE PULL-KT-61

Notes:

[1] Partial model eligibility

[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
207A[1], T207A 1980-1981[1]			
S/N 20700647 thru 20600672			
Complete Cable Kit P/N CCKT207-07G (Galvanized)			
Complete Cable Kit P/N CCKT207-07S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-61*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-46G-ELE or CCKT-46S-ELE			
2	MC1260505-307 or 407		Elevator
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH
1	MC1260505-93 or 193		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-91 or 191		Elevator Trim Aft RH
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 [6]		Flap Retract
1	MC0510105-94 or 194 [6]		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-23G-RUD or CCKT-23S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
2	MC1260505-310 or 410		Elevator with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera
207A[1], T207A 1981[1]			
S/N 20700673 thru 20700729			
Complete Cable Kit P/N CCKT207-08G (Galvanized)			
Complete Cable Kit P/N CCKT207-08S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-61*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-33G-AIL or CCKT-33S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Primary
2	MC1260505-55 or 155		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH

Notes:

[1] Partial model eligibility

[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Elevator Cable Kit			
P/N CCKT-46G-ELE or CCKT-46S-ELE			
2	MC1260505-307 or 407		Elevator
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH
1	MC1260505-93 or 193		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-91 or 191		Elevator Trim Aft RH
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-24G-RUD or CCKT-24S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-83 or 183		Rudder RH with Camera
1	MC1260505-84 or 184		Rudder LH with Camera
2	MC1260505-310 or 410		Elevator with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera
207A1, T207A 1982-1984			
S/N 20700730 thru 20700788			
Complete Cable Kit P/N CCKT207-09G (Galvanized)			
Complete Cable Kit P/N CCKT207-09S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-61*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-34G-AIL or CCKT-34S-AIL			
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-10 or 110		Aileron Yoke Primary
2	MC1260505-320 or 420		Aileron Direct Inboard
2	MC1260505-58 or 158		Aileron Direct Outboard
1	MC1260505-60 or 160		Aileron Carry Thru LH
1	MC1260505-54 or 154		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-46G-ELE or CCKT-46S-ELE			
2	MC1260505-307 or 407		Elevator
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-185		Chain Elevator Trim Fwd Low
1	MCS2295P25-47		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
1	MC1260505-94 or 194		Elevator Trim Forward LH
1	MC1260505-93 or 193		Elevator Trim Forward RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MC1260505-91 or 191		Elevator Trim Aft RH
Flap Cable Kit			
P/N CCKT-16G-FLP or CCKT-16S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-259 or 359		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
2	MC1260505-310 or 410		Elevator with Camera
1	MC1260505-79 or 179		Elevator Trim RH with Camera
1	MC1260505-80 or 180		Elevator Trim LH with Camera

Notes:

1 Partial model eligibility

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-24G-RUD or CCKT-24S-RUD			
1	MC0510105-229 or 329		Rudder Forward LH
1	MC0510105-230 or 330		Rudder Forward RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
Available separately for aircraft with camera option			
1	MC1260505-84 or 184		Rudder LH with Camera
208			
See Caravan Section on page 560 for more details.			
S/N 20800001 thru 20899999			
Complete Cable Kit P/N CCKT208-01 (without autopilot)10			
Complete Cable Kit P/N CCKT208-02 (without autopilot)11			
Complete Cable Kit P/N CCKT208-03 (with autopilot)12			
Complete Cable Kit P/N CCKT208-04 (with autopilot)13			
Complete Cable Kit P/N CCKT208-05 (with autopilot)14			
Qty	**P/N**		**Location**
1	MC2660001-123		Control Column Interconnect
1	MC2660001-124		Control Column Interconnect
1	MC2660001-125		Control Column Interconnect
1	MC2660001-126		Control Column Interconnect
1	MC9864054-9		Flap Indicator
Aileron Cable Kit			
P/N CCKT-35-AIL			
2	MC2660001-114		Aileron
1	MC2660001-118		Aileron LH
1	MC2660001-119		Aileron RH
4	MC2660001-122		Aileron
2	MC2660001-157		Aileron
2	MC2660029-4		Aileron Trim
2	MCS2295-25-35		Chain Aileron Trim
4	MCS2294-25		Chain Connecting Link
Aileron Cable Kit			
P/N CCKT-36-AIL Note 1			
2	MC2660001-114		Aileron
1	MC2660001-118		Aileron LH
1	MC2660001-119		Aileron RH
4	MC2660001-122		Aileron
2	MC2660001-157		Aileron
2	MC2660029-4		Aileron Trim
2	MCS2295-25-35		Chain Aileron Trim
4	MCS2294-25		Chain Connecting Link
1	MC2660029-13 Note 1		Aileron Trim
1	MC2660029-15 Note 1		Aileron Trim
1	MCS2295-25-43 Note 1		Chain Aileron Trim
Elevator Cable Kit			
P/N CCKT-47-ELE			
1	MC2660001-100		Elevator
1	MC2660001-101		Elevator
1	MC2660001-102		Elevator
1	MC2660001-103		Elevator
1	MC2660001-109		Elevator Trim
1	MC2660001-155		Elevator Trim
1	MC2660001-156		Elevator Trim
1	MC2660001-110		Elevator Trim
1	MC2660001-112		Elevator Trim
1	MCS2295-25-247		Chain Elevator Trim
2	MCS2295-25-87		Chain Elevator Trim
1	MCS2295-25-101		Chain Elevator Trim Note 2
6	MCS2294-25		Chain Connecting Link

Notes:

10 S/N 20800001 thru 20800081 without autopilot

11 S/N 20800082 thru 20899999 without autopilot

12 S/N 20800001 thru 20800081 with autopilot

13 S/N 20800082 thru 20800499 with autopilot

14 S/N 20800500 thru 20899999 with autopilot

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-48-ELE			
1	MC2660001-100		Elevator
1	MC2660001-101		Elevator
1	MC2660001-102		Elevator
1	MC2660001-103		Elevator
1	MC2660001-109		Elevator Trim
1	MC2660001-155		Elevator Trim
1	MC2660001-156		Elevator Trim
1	MC2660001-110		Elevator Trim
1	MC2660001-112		Elevator Trim
1	MCS2295-25-247		Chain Elevator Trim
2	MCS2295-25-87		Chain Elevator Trim
6	MCS2294-25		Chain Connecting Link
Elevator Cable Kit P/N CCKT-49-ELE			
1	MC2660001-100		Elevator
1	MC2660001-101		Elevator
1	MC2660001-102		Elevator
1	MC2660001-103		Elevator
1	MC2660001-109		Elevator Trim
1	MC2660001-155		Elevator Trim
1	MC2660001-156		Elevator Trim
1	MC2660001-110		Elevator Trim
1	MC2660001-112		Elevator Trim
1	MCS2295-25-247		Chain Elevator Trim
2	MCS2295-25-87		Chain Elevator Trim
1	MCS2295-25-107	Note 3	Chain Pitch Trim Servo Note 4
6	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-25-RUD			
1	MC2660001-104		Rudder
1	MC2660001-106		Rudder
1	MC2660001-107		Rudder
1	MC2660001-108		Rudder

Note 1: S/N 20800082 thru 20899999
Note 2: When equipped with electric trim
Note 3: S/N 20800500 thru 20899999
Note 4: When equipped with pitch trim servo

208B

See Caravan Section on page 560 for more details.

S/N 208B0001 thru 208B9999
Complete Cable Kit P/N CCKT208B-01 (without autopilot)15
Complete Cable Kit P/N CCKT208B-02 (with autopilot)16
Complete Cable Kit P/N CCKT208B-03 (with autopilot)17

Qty	P/N	Location
1	MC2660001-123	Control Column Interconnect
1	MC2660001-124	Control Column Interconnect
1	MC2660001-125	Control Column Interconnect
1	MC2660001-126	Control Column Interconnect
1	MC9864054-7	Flap Indicator
Aileron Cable Kit P/N CCKT-38-AIL		
2	MC2660001-114	Aileron
4	MC2660001-122	Aileron
1	MC2660001-151	Aileron
1	MC2660001-152	Aileron
2	MC2660001-157	Aileron
2	MC2660029-11	Aileron Trim
1	MC2660029-13	Aileron Trim
1	MC2660029-15	Aileron Trim
2	MCS2295-25-35	Chain Aileron Trim
4	MCS2294-25	Chain Connecting Link

Notes:

15 All serials without autopilot
16 S/N 208B0001 thru 208B1999 with autopilot
17 S/N 208B2000 thru 208B9999 with autopilot

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Continued from previous column

Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-50-ELE			
1	MC2660001-100		Elevator
1	MC2660001-102		Elevator
1	MC2660001-153		Elevator
1	MC2660001-147		Elevator
1	MC2660001-109		Elevator Trim
1	MC2660001-110		Elevator Trim
1	MC2660001-112		Elevator Trim
1	MC2660001-149		Elevator Trim
1	MC2660001-150		Elevator Trim
2	MCS2295-25-87		Chain Elevator Trim
1	MCS2295-25-101		Chain Elevator Trim Note 2
1	MCS2295-25-247		Chain Elevator Trim
8	MCS2294-25		Chain Connecting Link
Elevator Cable Kit P/N CCKT-51-ELE			
1	MC2660001-100		Elevator
1	MC2660001-102		Elevator
1	MC2660001-153		Elevator
1	MC2660001-147		Elevator
1	MC2660001-109		Elevator Trim
1	MC2660001-110		Elevator Trim
1	MC2660001-112		Elevator Trim
1	MC2660001-149		Elevator Trim
1	MC2660001-150		Elevator Trim
2	MCS2295-25-87		Chain Elevator Trim
1	MCS2295-25-247		Chain Elevator Trim
6	MCS2294-25		Chain Connecting Link
Elevator Cable Kit P/N CCKT-52-ELE			
1	MC2660001-100		Elevator
1	MC2660001-102		Elevator
1	MC2660001-153		Elevator
1	MC2660001-147		Elevator
1	MC2660001-109		Elevator Trim
1	MC2660001-110		Elevator Trim
1	MC2660001-112		Elevator Trim
1	MC2660001-149		Elevator Trim
1	MC2660001-150		Elevator Trim
2	MCS2295-25-87		Chain Elevator Trim
1	MCS2295-25-107		Chain Elevator Trim Note 2
1	MCS2295-25-247		Chain Elevator Trim
7	MCS2294-25		Chain Connecting Link
Rudder Cable Kit P/N CCKT-26-RUD			
1	MC2660001-148		Rudder
1	MC2660001-154		Rudder
1	MC2660001-104	Note 1	Rudder
1	MC2660001-107		Rudder

Note 1: S/N 208B0001 thru 208B2012, 208B2036, and 208B2048 thru 208B9999
Note 2: When equipped with electric trim
Note 3: S/N 208B2000 thru 208B9999
Note 4: When equipped with pitch trim servo

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210, 210A 1960-1961
S/N 57001 thru 21057840
Complete Cable Kit P/N CCKT210-01G (Galvanized)
Complete Cable Kit P/N CCKT210-01S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-62*

Qty	P/N	Galv or SS	Location
1	MC1260105-13 or 113		Park Brake
Aileron Cable Kit			
P/N CCKT-39G-AIL or CCKT-39S-AIL			
4	MC1260105-1 [2]		Aileron Control Tee
2	MC1260105-3 or 103		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-53G-ELE or CCKT-53S-ELE			
1	MC1260105-5 or 105		Elevator Up
1	MC1260105-6 or 106		Elevator Down
1	MC1260105-12 or 112		Elevator Down Spring
1	MC1260105-4 or 104		Elevator Trim Forward LH
1	MC1260105-14 or 114		Elevator Trim Aft LH
1	MC1260105-15 or 115		Elevator Trim Forward RH
1	MC1260105-16 or 116		Elevator Trim Aft RH
1	MCS2295P25-321		Chain Elevator Trim Forward
1	MCS2295P25-113		Chain Elevator Trim Aft
4	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-17G-FLP or CCKT-17S-FLP			
2	MC1260105-10 or 110		Flap
2	MC1260105-11 or 111		Flap
Rudder Cable Kit			
P/N CCKT-27G-RUD or CCKT-27S-RUD			
1	MC1260105-8 or 108		Rudder RH Forward
1	MC1260105-9 or 109		Rudder Aft LH
1	MC1260105-17 or 117		Rudder Aft RH
1	MC1260105-7 or 107		Rudder LH Forward

210B 1962
S/N 21057841 thru 21058085
Complete Cable Kit P/N CCKT210-02G (Galvanized)
Complete Cable Kit P/N CCKT210-02S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-63*

Qty	P/N	Galv or SS	Location
1	MC1260505-1 [6]		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-30G-AIL or CCKT-30S-AIL			
2	MC1260505-3 or 103		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-54G-ELE or CCKT-54S-ELE			
1	MC1260105-9 or 109		Elevator Down
1	MC1260505-10 or 110		Elevator Up
1	MC1260505-2 or 102		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Low
1	MCS2295P25-155		Chain Elevator Trim Fwd Up
1	MC1260505-5 or 105		Elevator Trim Forward RH
1	MC1260505-6 or 106		Elevator Trim Forward LH
1	MC1260505-7 or 107		Elevator Trim Aft RH
1	MC1260505-8 or 108		Elevator Trim Aft LH
1	MCS2295P25-113		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-18G-FLP or CCKT-18S-FLP			
2	MC1260505-14 or 114		Flap
2	MC1260505-4 or 104		Flap

Notes:
[2] Included in both galvanized and stainless kits.
[6] Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

210C 1963
S/N 21058086 thru 21058220
Complete Cable Kit P/N CCKT210-03G (Galvanized)
Complete Cable Kit P/N CCKT210-03S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-63*

Qty	P/N	Galv or SS	Location
1	MC1260505-1 [2]		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-30G-AIL or CCKT-30S-AIL			
2	MC1260505-3 or 103		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
4	MC0422280		Bellcrank Aileron Bushing
Elevator Cable Kit			
P/N CCKT-55G-ELE or CCKT-55S-ELE			
1	MC1260105-9 or 109		Elevator Down
1	MC1260505-10 or 110		Elevator Up
1	MC1260505-2 or 102		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Low
1	MCS2295P25-155		Chain Elevator Trim Fwd Up
1	MC1260505-22 or 122		Elevator Trim Forward RH
1	MC1260505-6 or 106		Elevator Trim Forward LH
1	MC1260505-20 or 120		Elevator Trim Aft RH
1	MC1260505-8 or 108		Elevator Trim Aft LH
1	MCS2295P25-113		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-18G-FLP or CCKT-18S-FLP			
2	MC1260505-14 or 114		Flap
2	MC1260505-4 or 104		Flap
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

210D,E,F, T210F 1964-1966
S/N 21058221 thru 21058818, T210-0001 thru T210-0197
Complete Cable Kit P/N CCKT210-04G (Galvanized)
Complete Cable Kit P/N CCKT210-04S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-64*

Qty	P/N	Galv or SS	Location
1	MC1260505-1 [2]		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-31G-AIL or CCKT-31S-AIL			
2	MC1260505-25 or 125		Aileron Direct Inboard
2	MC1260505-26 or 126		Aileron Direct Outboard
1	MC1260505-23 or 123		Aileron Carry Thru LH
1	MC1260505-27 or 127		Aileron Carry Thru RH
Elevator Cable Kit			
P/N CCKT-56G-ELE or CCKT-56S-ELE			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MC1260505-31 or 131		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Low
1	MCS2295P25-155		Chain Elevator Trim Fwd Up
1	MC1260505-22 or 122		Elevator Trim Forward RH
1	MC1260505-6 or 106		Elevator Trim Forward LH
1	MC1260505-20 or 120		Elevator Trim Aft RH
1	MC1260505-8 or 108		Elevator Trim Aft LH
1	MCS2295P25-113		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link

Notes:
[2] Included in both galvanized and stainless kits.

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-12G-FLP or CCKT-12S-FLP			
1	MC0510105-93 or 193 6		Flap Retract
1	MC0510105-94 or 194 6		Flap Retract
1	MC0510105-91 or 191		Flap Direct LH
1	MC0510105-92 or 192		Flap Direct RH
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210G1, T210G1 1967 1			
S/N 21058819 thru 21058829, T210-0198 thru T210-0240			
Complete Cable Kit P/N CCKT210-05G (Galvanized)			
Complete Cable Kit P/N CCKT210-05S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-65*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-40G-AIL or CCKT-40S-AIL			
1	MC1260078-3 or 103		Aileron Yoke RH
1	MC1260078-2 or 102		Aileron Yoke LH
1	MC120905-3 6		Aileron Yoke Carry Thru
2	MC1260078-4 or 104		Aileron Direct
2	MC1260505-40 or 140		Aileron Direct
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MCS2295A25-111		Chain Elevator Trim Fwd Low
1	MCS2295P25-159		Chain Elevator Trim Fwd Up
1	MC1260505-22 or 122		Elevator Trim Forward RH
1	MC1260505-35 or 135		Elevator Trim Forward LH
1	MC1260505-45 or 145		Elevator Trim Aft RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MCS2295-25-43		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-19G-FLP or CCKT-19S-FLP			
1	MC1260505-49 or 149		Flap Down LH Actuator to Trnbkl
1	MC1260505-51 or 151		Flap Down RH Actuator to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bell/Tnbkl
2	MC1260505-48 or 148		Flap Up LH/RH Bell/Tnbkl
1	MC1260505-50 or 150		Flap Up LH Trnbkl to Actuator
1	MC1260505-52 or 152		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210G1, T210G1 1967 1			
S/N 21058830 thru 21058936, T210-0241 thru T210-0307			
Complete Cable Kit P/N CCKT210-06G (Galvanized)			
Complete Cable Kit P/N CCKT210-06S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-65*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube

(kit components continue in next column)

Notes:

1 Partial model eligibility

6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260505-22 or 122		Elevator Trim Forward RH
1	MC1260505-35 or 135		Elevator Trim Forward LH
1	MC1260505-45 or 145		Elevator Trim Aft RH
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MCS2295-25-43		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-19G-FLP or CCKT-19S-FLP			
1	MC1260505-49 or 149		Flap Down LH Actuator to Trnbkl
1	MC1260505-51 or 151		Flap Down RH Actuator to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bell/Tnbkl
2	MC1260505-48 or 148		Flap Up LH/RH Bell/Tnbkl
1	MC1260505-50 or 150		Flap Up LH Trnbkl to Actuator
1	MC1260505-52 or 152		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210H1, T210H1 1968 1			
Serial 21058937 thru 21059030, T210-0308 thru T210-0378			
Complete Cable Kit P/N CCKT210-07G (Galvanized)			
Complete Cable Kit P/N CCKT210-07S (Stainless Steel)			
Complete Cable Kit P/N CCKT210-07GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT210-07SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-66*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit *(continued on next page)*			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
P/N CCKT-58GE-ELE or CCKT-58SE-ELE (Electric Trim)			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260505-22 or 122		Elevator Trim Forward RH 8
1	MC1260505-35 or 135		Elevator Trim Forward LH 8
1	MC1260505-45 or 145		Elevator Trim Aft RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH

Notes:

1 Partial model eligibility

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Elevator Cable Kit *(continued from previous page)*			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
P/N CCKT-58GE-ELE or CCKT-58SE-ELE (Electric Trim)			
1	MCS2295-25-43		Chain Elevator Trim Actuator
1	MC1260505-56 or 156		Elevator Aft RH 9
1	MC1260505-62 or 162		Electric Trim Forward RH 9
1	MC1260505-61 or 161		Electric Trim Forward LH 9
1	MC1260505-167 6		Electric Trim Cen. LH SS 9
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-19G-FLP or CCKT-19S-FLP			
1	MC1260505-49 or 149		Flap Down LH Actuator to Trnbkl
1	MC1260505-51 or 151		Flap Down RH Actuator to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bell/Turnbuckle
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
1	MC1260505-50 or 150		Flap Up LH Trnbkl to Actuator
1	MC1260505-52 or 152		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210H1, T210H1 1968 1			
S/N 21059031 thru 21059061, T210-0379 thru T210-0392			
Complete Cable Kit P/N CCKT210-08G (Galvanized)			
Complete Cable Kit P/N CCKT210-08S (Stainless Steel)			
Complete Cable Kit P/N CCKT210-08GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT210-08SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-67*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
P/N CCKT-58GE-ELE or CCKT-58SE-ELE (Electric Trim)			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260505-22 or 122		Elevator Trim Forward RH 8
1	MC1260505-35 or 135		Elevator Trim Forward LH 8
1	MC1260505-45 or 145		Elevator Trim Aft RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MCS2295-25-43		Chain Elevator Trim Actuator
1	MC1260505-56 or 156		Elevator Aft RH 9
1	MC1260505-62 or 162		Electric Trim Forward RH 9
1	MC1260505-61 or 161		Electric Trim Forward LH 9
1	MC1260505-167 2		Electric Trim Center LH SS 9
6	MCS2294-25		Chain Connecting Link

Notes:

1 Partial model eligibility
2 Included in both galvanized and stainless kits.
6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.
8 Included in kits for manual trim aircraft only
9 Included in kits for electric trim aircraft only

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210J1, T210J1 1969 1			
S/N 21059062 thru 21059100, T210-0393 thru T210-0407			
Complete Cable Kit P/N CCKT210-09G (Galvanized)			
Complete Cable Kit P/N CCKT210-09S (Stainless Steel)			
Complete Cable Kit P/N CCKT210-09GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT210-09SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-68*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 2		Aileron/Rudder Int Lower
2	MC1260505-174 2		Aileron/Rudder Int Upper
1	MC1260505-187 2		Aileron/Rud Int Up with Tube
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
P/N CCKT-58GE-ELE or CCKT-58SE-ELE (Electric Trim)			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260505-22 or 122		Elevator Trim Forward RH 8
1	MC1260505-35 or 135		Elevator Trim Forward LH 8
1	MC1260505-45 or 145		Elevator Trim Aft RH 8
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MCS2295-25-43		Chain Elevator Trim Actuator
1	MC1260505-56 or 156		Elevator Aft RH 9
1	MC1260505-62 or 162		Electric Trim Forward RH 9
1	MC1260505-61 or 161		Electric Trim Forward LH 9
1	MC1260505-167 2		Electric Trim Cen. LH SS 9
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flp Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle

Notes:

1 Partial model eligibility
2 Included in both galvanized and stainless kits.
8 Included in kits for manual trim aircraft only
9 Included in kits for electric trim aircraft only

Continued on next page

Continued from previous page

Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210J[1], T210J[1] 1969[1]			
S/N 21059101 thru 21059199, T210-0408 thru T210-0454			
Complete Cable Kit P/N CCKT210-10G (Galvanized)			
Complete Cable Kit P/N CCKT210-10S (Stainless Steel)			
Complete Cable Kit P/N CCKT210-10GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT210-10SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-68*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
2	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
Elevator Cable Kit			
P/N CCKT-57G-ELE or CCKT-57S-ELE			
P/N CCKT-59GE-ELE or CCKT-59SE-ELE (Electric Trim)			
1	MC1260505-32 or 132		Elevator Down
1	MC1260505-33 or 133		Elevator Up
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260505-22 or 122		Elevator Trim Forward RH [8]
1	MC1260505-35 or 135		Elevator Trim Forward LH [8]
1	MC1260505-45 or 145		Elevator Trim Aft RH [8]
1	MC1260505-46 or 146		Elevator Trim Aft LH
1	MCS2295-25-43		Chain Elev Trim Actuator
1	MC1260505-56 or 156		Elevator Aft RH [9]
1	MC1260505-62 or 162		Electric Trim Forward RH [9]
1	MC1260505-61 or 161		Electric Trim Forward LH [9]
1	MC1260204-1 [2]		Elevator Trim Cen. LH SS [9]
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-28G-RUD or CCKT-28S-RUD			
1	MC1260505-15 or 115		Rudder Forward LH
1	MC1260505-11 or 111		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.
[8] Included in kits for manual trim aircraft only
[9] Included in kits for electric trim aircraft only

Continued on next column

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Qty	P/N	Galv or SS	Location
210K[1], T210K[1] 1970[1]			
S/N 21059200 thru 21059323			
Complete Cable Kit P/N CCKT210-11G (Galvanized)			
Complete Cable Kit P/N CCKT210-11S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-69*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-60G-ELE or CCKT-60S-ELE			
1	MC1260475-7 or 107		Elevator Up
1	MC1260475-8 or 108		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MC1260660-3 [2]		Elevator Trim Electric Drive
1	MCS2295P25-55		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down Bellcrank to Trnbkl
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210K[1], T210K[1] 1970[1]-1971[1]			
S/N 21059324 thru 21059465			
Complete Cable Kit P/N CCKT210-12G (Galvanized)			
Complete Cable Kit P/N CCKT210-12S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-69*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-1 or 101		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit *(continued on next page)*			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109		Aileron Direct Yoke

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit *(continued from previous page)*			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-60G-ELE or CCKT-60S-ELE			
1	MC1260475-7 or 107		Elevator Up
1	MC1260475-8 or 108		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MC1260660-3 [2]		Elevator Trim Elec Drive
1	MCS2295P25-55		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrk to Turnbuckle
2	MC1260505-47 or 147		Flap Down Bellcrank to Trnbkl
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210K[1],L[1], T210K[1],L[1] 1971[1]-1972[1]			
S/N 21059466 thru 21059555			
Complete Cable Kit P/N CCKT210-13G (Galvanized)			
Complete Cable Kit P/N CCKT210-13S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-69*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-1 or 2		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-60G-ELE or CCKT-60S-ELE			
1	MC1260475-7 or 107		Elevator Up
1	MC1260475-8 or 108		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MC1260660-3 [2]		Elevator Trim Electric Drive
1	MCS2295P25-55		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrk to Trnbkle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210L[1], T210L[1] 1972[1]-1973			
S/N 21059556 thru 21060089			
Complete Cable Kit P/N CCKT210-14G (Galvanized)			
Complete Cable Kit P/N CCKT210-14S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-69*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit			
P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-60G-ELE or CCKT-60S-ELE			
1	MC1260475-7 or 107		Elevator Up
1	MC1260475-8 or 108		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MC1260660-3 [2]		Elevator Trim Electric Drive
1	MCS2295P25-55		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrk to Trnbkle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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210L[1],M[1], T210L[1],M[1] 1974-1977
S/N 21060090 thru 21062273
Complete Cable Kit P/N CCKT210-15G (Galvanized)
Complete Cable Kit P/N CCKT210-15S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-71*

Qty	P/N	Galv or SS	Location
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit P/N CCKT-41G-AIL or CCKT-41S-AIL			
1	MC1260078-8 or 108		Aileron Yoke RH
1	MC1260078-7 or 107		Aileron Yoke LH
1	MC1260078-5 or 105		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-38 or 138		Aileron Return LH
1	MC1260505-39 or 139		Aileron Return RH
Elevator Cable Kit P/N CCKT-60G-ELE or CCKT-60S-ELE			
1	MC1260475-7 or 107		Elevator Up
1	MC1260475-8 or 108		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MCS2295P25-55		Chain Elev Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrk to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

210M[1],N[1], T210,M[1],N[1] 1978-1980[1]
S/N 21062274 thru 21064084
Complete Cable Kit P/N CCKT210-16G (Galvanized)
Complete Cable Kit P/N CCKT210-16S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-71*

Qty	P/N	Galv or SS	Location
1	MC1260505-97 or 197		Park Brake
1	MC1260417-6 or 7		Park Brake Cable & Tube
Aileron Cable Kit P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH

210N[1], T210N[1] 1980[1]
S/N 21064085 thru 21064135
Complete Cable Kit P/N CCKT210-17G (Galvanized)
Complete Cable Kit P/N CCKT210-17S (Stainless Steel)
Complete Pulley Kit P/N PULL-KT-71*

Qty	P/N	Galv or SS	Location
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrk to Turnbuckle
2	MC1260505-47 or 147		Flap Down Bellcrk to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator

Notes:
[1] Partial model eligibility
[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210N[1], T210N[1] 1981[1]			
S/N 21064136 thru 21064185			
Complete Cable Kit P/N CCKT210-18G (Galvanized)			
Complete Cable Kit P/N CCKT210-18S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-77*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260417-6 or 7		Park Brake Cable & Tube
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit			
P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrk to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210N[1], T210N[1] 1981[1]-1982			
S/N 21064186 thru 21064772			
Complete Cable Kit P/N CCKT210-19G (Galvanized)			
Complete Cable Kit P/N CCKT210-19S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-77*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260417-6 or 7		Park Brake Cable & Tube
1	MC1260505-317 or 417		Park Brake

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Aileron Cable Kit			
P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-30G-RUD or CCKT-30S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210N[1], T210N[1] 1983-1984			
S/N 21064773 thru 21064897			
Complete Cable Kit P/N CCKT210-20G (Galvanized)			
Complete Cable Kit P/N CCKT210-20S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-77*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260417-6 or 7		Park Brake Cable & Tube
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit			
P/N CCKT-43G-AIL or CCKT-43S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-14 or 114		Aileron Direct Yoke
2	MC1260505-321 or 421		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Qty	P/N	Galv or SS	Location
Elevator Cable Kit			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-30G-RUD or CCKT-30S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
210R, T210R 1985-1986			
S/N 21064898 thru 2165009			
Complete Cable Kit P/N CCKT210-21G (Galvanized)			
Complete Cable Kit P/N CCKT210-21S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-78*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260417-6 or 7		Park Brake Cable & Tube
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit			
P/N CCKT-44G-AIL or CCKT-44S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260078-14 or 114		Aileron Yoke Direct
2	MC1260505-321 or 421		Aileron Direct Bellcrank
1	MC1260505-323 or 423		Aileron Return LH
1	MC1260505-322 or 422		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-62G-ELE or CCKT-62S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-59		Chain Elevator Trim Actuator
1	MC1260505-325 or 425		Elevator Trim Aft LH
1	MC1260505-326 or 426		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Turnbuckle
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator

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Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-31G-RUD or CCKT-31S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-329 or 429		Rudder Aft LH
1	MC1260505-330 or 430		Rudder Aft RH
P210N[1] 1978-1980[1]			
S/N P21000001 thru P21000553			
Complete Cable Kit P/N CCKTP210-01G (Galvanized)			
Complete Cable Kit P/N CCKTP210-01S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-81*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-97 or 197		Park Brake
Aileron Cable Kit			
P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Actuator
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Actuator
2	MC1260505-48 or 148		Flap Up Bellcrank to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
P210N[1] 1980[1]-1981[1]			
S/N P21000554 thru P21000622			
Complete Cable Kit P/N CCKTP210-02G (Galvanized)			
Complete Cable Kit P/N CCKTP210-02S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-81*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit *(continued on next page)*			
P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Continued from previous page

Qty	P/N	Galv or SS	Location
Aileron Cable Kit *(continued from previous page)*			
P/N CCKT-42G-AIL or CCKT-42S-AIL			
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Act
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Act
2	MC1260505-48 or 148		Flap Up Bellcrank to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-29G-RUD or CCKT-29S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-13 or 113		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
P210N[1] 1981[1]-1982[1]			
S/N P21000623 thru P21000797			
Complete Cable Kit P/N CCKTP210-03G (Galvanized)			
Complete Cable Kit P/N CCKTP210-03S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-81*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit			
P/N CCKT-43G-AIL or CCKT-43S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113		Aileron Direct Yoke
2	MC1260505-40 or 140		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit *(continued on next column)*			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

Continued on next column

Continued from previous column

Qty	P/N	Galv or SS	Location
Elevator Cable Kit *(continued from previous column)*			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Act
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Act
2	MC1260505-48 or 148		Flp Up Bellcrank to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator
Rudder Cable Kit			
P/N CCKT-30G-RUD or CCKT-30S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
P210N[1] 1982[1]-1986			
S/N P21000798 thru P21000834			
Complete Cable Kit P/N CCKTP210-04G (Galvanized)			
Complete Cable Kit P/N CCKTP210-04S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-81*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit			
P/N CCKT-43G-AIL or CCKT-43S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-14 or 114		Aileron Direct Yoke
2	MC1260505-321 or 421		Aileron Direct Bellcrank
1	MC1260505-314 or 414		Aileron Return LH
1	MC1260505-315 or 415		Aileron Return RH
Elevator Cable Kit			
P/N CCKT-61G-ELE or CCKT-61S-ELE			
1	MC1260475-12 or 112		Elevator Up
1	MC1260475-13 or 113		Elevator Down
1	MC1260505-96 or 196		Elevator Down Spring
1	MCS2295A25-111		Chain Elevator Trim Fwd Up
1	MCS2295P25-159		Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101		Elevator Trim Forward LH
1	MC1260475-2 or 102		Elevator Trim Forward RH
1	MCS2295P25-55		Chain Elevator Trim Actuator
1	MC1260475-9 or 109		Elevator Trim Aft LH
1	MC1260475-10 or 110		Elevator Trim Aft RH
6	MCS2294-25		Chain Connecting Link
Flap Cable Kit			
P/N CCKT-20G-FLP or CCKT-20S-FLP			
1	MC1260505-73 or 173		Flap Down LH Trnbkl to Act
1	MC1260505-71 or 171		Flap Down RH Trnbkl to Act
2	MC1260505-48 or 148		Flap Up Bellcrank to Trnbkl
2	MC1260505-47 or 147		Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170		Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172		Flap Up RH Trnbkl to Actuator

Notes:

[1] Partial model eligibility

[2] Included in both galvanized and stainless kits.

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Continued from previous page

Qty	P/N	Galv or SS	Location
Rudder Cable Kit			
P/N CCKT-30G-RUD or CCKT-30S-RUD			
1	MC1260475-5 or 105		Rudder Forward LH
1	MC1260475-6 or 106		Rudder Forward RH
1	MC1260505-319 or 419		Rudder Aft LH
1	MC1260505-12 or 112		Rudder Aft RH
P210R 1985-1986			
S/N P21000835 thru P21000874			
Complete Cable Kit P/N CCKTP210-05G (Galvanized)			
Complete Cable Kit P/N CCKTP210-05S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-82*			
Qty	**P/N**	**Galv or SS**	**Location**
1	MC1260505-317 or 417		Park Brake
Aileron Cable Kit			
P/N CCKT-44G-AIL or CCKT-44S-AIL			
1	MC1260078-11 or 111		Aileron Yoke LH
1	MC1260078-12 or 112		Aileron Yoke RH
1	MC1260078-10 or 110		Aileron Yoke Carry Thru
2	MC1260208-1 [2]		Aileron/Rudder Int Lower
1	MC1260505-174 [2]		Aileron/Rudder Int Upper
1	MC1260505-187 [2]		Ail/Rud Int Upper w/Tube
2	MC1260078-14 or 114		Aileron Direct Yoke
2	MC1260505-321 or 421		Aileron Direct Bellcrank
1	MC1260505-323 or 423		Aileron Return LH
1	MC1260505-322 or 422		Aileron Return RH

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Elevator Cable Kit		
P/N CCKT-61G-ELE or CCKT-61S-ELE		
1	MC1260475-12 or 112	Elevator Up
1	MC1260475-13 or 113	Elevator Down
1	MCS2295A25-111	Chain Elevator Trim Fwd Up
1	MCS2295P25-159	Chain Elevator Trim Fwd Low
1	MC1260475-1 or 101	Elevator Trim Forward LH
1	MC1260475-2 or 102	Elevator Trim Forward RH
1	MCS2295P25-59	Chain Elevator Trim Actuator
1	MC1260505-325 or 425	Elevator Trim Aft LH
1	MC1260505-326 or 426	Elevator Trim Aft RH
6	MCS2294-25	Chain Connecting Link
Flap Cable Kit		
P/N CCKT-20G-FLP or CCKT-20S-FLP		
1	MC1260505-73 or 173	Flap Down LH Trnbkl to Actuator
2	MC1260505-48 or 148	Flap Up Bellcrank to Trnbkl
2	MC1260505-47 or 147	Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-71 or 171	Flap Down RH Trnbkl to Actuator
1	MC1260505-70 or 170	Flap Up LH Trnbkl to Actuator
1	MC1260505-72 or 172	Flap Up RH Trnbkl to Actuator
Rudder Cable Kit		
P/N CCKT-31G-RUD or CCKT-31S-RUD		
1	MC1260475-5 or 105	Rudder Forward LH
1	MC1260475-6 or 106	Rudder Forward RH
1	MC1260505-329 or 429	Rudder Aft LH
1	MC1260505-330 or 430	Rudder Aft RH

Notes:
[2] Included in both galvanized and stainless kits.

Adjustable Elevator Neutral Rigging Tool for Cessna Aircraft

Save time, you'll always have the correct tool!
P/N TOOL126

Proper elevator rigging is necessary for full range of motion and maneuverability of the airplane. Many Cessna maintenance manuals require the fabrication of a tool to hold the yoke in the neutral position while the mechanic rigs the elevator control system. These tools utilize the holes for the control gust lock. At least 17 different sizes of rigging tools are required to cover the various Cessna aircraft. Now there is one tool to replace them all.

Our Elevator Neutral Rigging Tool is adjustable from 0.4" to 2.5" and universal in design, consisting of six different pin sizes to fit your application. This tool may also be used to properly rig other makes of aircraft with similar elevator neutral rigging requirements.



Features and Benefits

- Replaces 17 costly tools
- Quick setup and adjustment
- Simple to use instructions
- Includes compact storage box
- Replacement parts available separately
- Stainless steel components

Note:
Refer to your Cessna maintenance manual to determine if your model requires the use of the elevator neutral rigging tool and follow its guidelines for proper pin selection and adjustment guidelines.



Fits most Cessna 150 thru 425 aircraft!

Elevator Neutral Rigging Tool Replacement Parts	
Part Number	**Description**
6409	0.050"/1.3mm Hex Wrench
6870	Square Nut
6868-4	Pin, 0.188, Short
6868-3	Pin, 0.188, Long
6868-1	Pin, 0.209, Short
6868-2	Pin, 0.209, Long
6869-1	Pin, 0.250, Short
6869-2	Pin, 0.250, Long

PA28-140
S/N 28-20002 thru 28-20656
Complete Kit P/N PCKT140-01

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 1		
1	MC62701-010 1	Stabilator Forward LH
1	MC62701-011 1	Stabilator Forward RH
1	MC62701-012 1	Stabilator Aft Bottom
1	MC62701-013 1	Stabilator Aft Top

PA28-140
S/N 28-20002 thru 28-20656 w/ kit 756-896 or 756-930 installed, 28-20657 thru 28-26956, 28-7125001 thru 28-7225612 with kit 756-896 or kit #756-930 installed
Complete Kit P/N PCKT140-02 (Manual Trim)
Complete Kit P/N PCKT140-05 (Electric Trim)

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-047	Stabilator Trim Aft
1	MC62701-045 2	Stabilator Trim Forward (Manual)
1	MC62701-044 3	Stabilator Trim Forward (Electric)
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 1		
1	MC62701-010 1	Stabilator Forward LH
1	MC62701-011 1	Stabilator Forward RH
1	MC62701-012 1	Stabilator Aft Bottom
1	MC62701-013 1	Stabilator Aft Top

PA28-140
S/N 28-7325001 thru 28-7625234, 28-7725001 thru 28-7725290
Complete Kit P/N PCKT140-03 (Manual Trim)
Complete Kit P/N PCKT140-04 (Electric Trim)

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-047	Stabilator Trim Aft
1	MC62701-016	Stabilator Trim Indicator Aft
2	MC62701-056 4	Stab Trim Fwd LH & RH (Manual)
1	MC62701-057 3	Stab Trim Fwd LH (Electric)
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 1		
1	MC62701-010 1	Stabilator Forward LH
1	MC62701-011 1	Stabilator Forward RH
1	MC62701-012 1	Stabilator Aft Bottom
1	MC62701-013 1	Stabilator Aft Top

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PA28-150
S/N 28-1 thru 28-1410
Complete Kit P/N PCKT150-01

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-015	Stabilator Trim Forward
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 1		
1	MC62701-010 1	Stabilator Forward LH
1	MC62701-011 1	Stabilator Forward RH
1	MC62701-012 1	Stabilator Aft Bottom
1	MC62701-013 1	Stabilator Aft Top

PA28-150
S/N 28-1 thru 28-2171 with kit #756-896 or kit #756-930 installed
Complete Kit P/N PCKT150-02

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward
1	MC62701-047	Stabilator Trim Aft
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 1		
1	MC62701-010 1	Stabilator Forward LH
1	MC62701-011 1	Stabilator Forward RH
1	MC62701-012 1	Stabilator Aft Bottom
1	MC62701-013 1	Stabilator Aft Top

PA28-150
S/N 28-1411 thru 28-2171
Complete Kit P/N PCKT150-03

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 1		
1	MC62701-010 1	Stabilator Forward LH
1	MC62701-011 1	Stabilator Forward RH
1	MC62701-012 1	Stabilator Aft Bottom
1	MC62701-013 1	Stabilator Aft Top

Notes:

1 Stabilator Cable Kits to assist with Piper AD2013-02-13 include cables designated with this P/N, plus (2) each MS21251-B5S Barrels and (10) each MS21256-1 Locking Clips

2 Included in kits for manual trim aircraft only

3 Included in kits for electric trim aircraft only

4 Kits for electric trim aircraft include only one of this part number

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PA28-150
S/N 28-2172 thru 28-4377
Complete Kit P/N PCKT150-04 (Manual Trim)
Complete Kit P/N PCKT150-05 (Electric Trim)

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-047	Stabilator Trim Aft
1	MC62701-045 [2]	Stab Trim Forward (Manual)
1	MC62701-044 [3]	Stab Trim Forward (Electric)
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-151
S/N 28-7415001 thru 28-7715314
Complete Kit P/N PCKT151-01 (Manual Trim)
Complete Kit P/N PCKT151-02 (Electric Trim)

Qty	Part Number	Location
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 [4]	Stab Trim Fwd LH & RH (Manual)
1	MC62701-111 [3]	Stab Trim Forward LH (Electric)
Aileron Cable Kit P/N PCKT-02-AIL		
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
Rudder Cable Kit P/N PCKT-02-RUD		
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-03 [1]		
1	MC62701-113 [1]	Stabilator Forward LH
1	MC62701-114 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-160
S/N 28-1 thru 28-1410
Complete Kit P/N PCKT160-01

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-015	Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

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PA28-160
S/N 28-1 thru 28-2171 with kit 756-896 or kit 756-930 installed
Complete Kit P/N PCKT160-02

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward
1	MC62701-047	Stabilator Trim Aft
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-160
S/N 28-1411 thru 28-2171
Complete Kit P/N PCKT160-03

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-160
S/N 28-2172 thru 28-4377
Complete Kit P/N PKCT160-04 (Manual Trim)
Complete Kit P/N PKCT160-05 (Electric Trim)

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045 [2]	Stab Trim Forward (Manual)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-044 [3]	Stab Trim Forward (Electric)
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH

Notes:

[1] Stabilator Cable Kits to assist with Piper AD2013-02-13 include cables designated with this P/N, plus (2) each MS21251-B5S Barrels and (10) each MS21256-1 Locking Clips

[2] Included in kits for manual trim aircraft only

[3] Included in kits for electric trim aircraft only

[4] Kits for electric trim aircraft include only one of this part number

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Qty	Part Number	Location
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top
PA28-161		
S/N 28-7716002 thru 28-8616057, 2816001 thru 2816065, 2816067 thru 2816119, 2841001 thru 2841365, 2842001 thru 2842999		
Complete Kit P/N PCKT161-01 (Manual Trim)		
Complete Kit P/N PCKT161-02 (Electric Trim)		
Qty	**Part Number**	**Location**
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 [4]	Stab Trim Fwd LH & RH (Manual)
1	MC62701-111 [3]	Stab Trim Fwd LH (Electric)
Aileron Cable Kit P/N PCKT-02-AIL		
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
Rudder Cable Kit P/N PCKT-02-RUD		
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-03 [1]		
1	MC62701-113 [1]	Stabilator Forward LH
1	MC62701-114 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top
PA28-180		
S/N 28-725 thru 28-1410		
Complete Kit P/N PCKT180-01		
Qty	**Part Number**	**Location**
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-015	Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top
PA28-180		
S/N 28-725 thru 28-2171 with kit 756-896 or kit 756-930 installed		
Complete Kit P/N PCKT180-02		
Qty	**Part Number**	**Location**
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward
1	MC62701-047	Stabilator Trim Aft
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH

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Qty	P/N	Galv or SS	Location
Stabilator Cable Kit P/N PCKT-STAB-01 [1]			
1	MC62701-010 [1]		Stabilator Forward LH
1	MC62701-011 [1]		Stabilator Forward RH
1	MC62701-012 [1]		Stabilator Aft Bottom
1	MC62701-013 [1]		Stabilator Aft Top
PA28-180			
S/N 28-1411 thru 28-2171			
Complete Kit P/N PCKT180-03			
Qty	**Part Number**		**Location**
1	MC62701-014		Flap
1	MC62701-016		Stabilator Trim Indicator Aft
1	MC62701-032		Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL			
2	MC62701-002		Aileron Forward LH and RH
2	MC62701-003		Aileron Wing LH and RH
1	MC62701-004		Aileron Balance LH
1	MC62701-005		Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD			
2	MC62701-006		Rudder Forward LH and RH
2	MC62701-008		Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]			
1	MC62701-010 [1]		Stabilator Forward LH
1	MC62701-011 [1]		Stabilator Forward RH
1	MC62701-012 [1]		Stabilator Aft Bottom
1	MC62701-013 [1]		Stabilator Aft Top
PA28-180			
S/N 28-2172 thru 28-4377			
Complete Kit P/N PCKT180-04 (Manual Trim)			
Complete Kit P/N PCKT180-09 (Electric Trim)			
Qty	**Part Number**		**Location**
1	MC62701-014		Flap
1	MC62701-016		Stabilator Indicator Aft
1	MC62701-047		Stabilator Trim Aft
1	MC62701-045 [2]		Stabilator Trim Forward (Manual)
1	MC62701-044 [3]		Stabilator Trim Forward (Electric)
Aileron Cable Kit P/N PCKT-01-AIL			
2	MC62701-002		Aileron Forward LH and RH
2	MC62701-003		Aileron Wing LH and RH
1	MC62701-004		Aileron Balance LH
1	MC62701-005		Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD			
2	MC62701-006		Rudder Forward LH and RH
2	MC62701-008		Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]			
1	MC62701-010 [1]		Stabilator Forward LH
1	MC62701-011 [1]		Stabilator Forward RH
1	MC62701-012 [1]		Stabilator Aft Bottom
1	MC62701-013 [1]		Stabilator Aft Top
PA28-180			
S/N 28-4378 thru 28-5869, 28-7105001 thru 28-7205328			
Complete Kit P/N PCKT180-05 (Manual Trim)			
Complete Kit P/N PCKT180-06 (Electric Trim)			
Qty	**Part Number**		**Location**
1	MC62701-014		Flap
1	MC62701-047		Stabilator Trim Aft
2	MC62701-056 [4]		Stab Trim Fwd LH & RH (Manual)
1	MC62701-057 [3]		Stab Trim Forward LH (Electric)

Notes:

[1] Stabilator Cable Kits to assist with Piper AD2013-02-13 include cables designated with this P/N, plus (2) each MS21251-B5S Barrels and (10) each MS21256-1 Locking Clips

[2] Included in kits for manual trim aircraft only

[3] Included in kits for electric trim aircraft only

[4] Kits for electric trim aircraft include only one of this part number

Piper cables are coated with a modified MIL-PRF-16173 compound, which provides additional corrosion protection beyond the standard MIL-SPEC rust preventive oil.

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Qty	Part Number	Location
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-180
S/N 28-7305001 thru 28-7505261
Complete Kit P/N PCKT180-07 (Manual Trim)
Complete Kit P/N PCKT180-08 (Electric Trim)

Qty	Part Number	Location
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 [4]	Stab Trim Fwd LH & RH (Manual)
1	MC62701-111 [3]	Stab Trim Forward LH (Electric)
Aileron Cable Kit P/N PCKT-03-AIL		
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-02-RUD		
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-03 [1]		
1	MC62701-113 [1]	Stabilator Forward LH
1	MC62701-114 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-181
S/N 28-7690001 thru 28-8690062, 2843001 thru 2843999, 2890001 thru 2890231
Complete Kit P/N PCKT181-01 (Manual Trim)
Complete Kit P/N PCKT181-02 (Electric Trim)

Qty	Part Number	Location
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 [4]	Stab Trim Fwd LH & RH (Manual)
1	MC62701-111 [3]	Stab Trim Forward LH (Electric)
Aileron Cable Kit P/N PCKT-02-AIL		
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
Rudder Cable Kit P/N PCKT-02-RUD		
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-03 [1]		
1	MC62701-113 [1]	Stabilator Forward LH
1	MC62701-114 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-201T
S/N 28-7921001 thru 28-7921095
Complete Kit P/N PCKT201T-01 (Manual Trim)
Complete Kit P/N PCKT201T-02 (Electric Trim)

Qty	Part Number	Location
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 [4]	Stab Trim Fwd LH & RH (Manual)
1	MC62701-111 [3]	Stab Trim Forward LH (Electric)

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Qty	Part Number	Location
Aileron Cable Kit P/N PCKT-02-AIL		
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
Rudder Cable Kit P/N PCKT-02-RUD		
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-03 [1]		
1	MC62701-113 [1]	Stabilator Forward LH
1	MC62701-114 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-235
S/N 28-10003 thru 28-10605
Complete Kit P/N PCKT235-01

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Indicator Aft
1	MC62701-032	Stabilator Trim
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

PA28-235
S/N 28-10003 thru 28-10605 with kit 756-896 or 756-930 installed
Complete Kit P/N PCKT235-02

Qty	Part Number	Location
1	MC62701-014	Flap
1	MC62701-016	Stabilator Indicator Aft
1	MC62701-045	Stabilator Trim Forward (Manual)
1	MC62701-047	Stabilator Trim Aft
Aileron Cable Kit P/N PCKT-01-AIL		
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
Rudder Cable Kit P/N PCKT-01-RUD		
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
Stabilator Cable Kit P/N PCKT-STAB-01 [1]		
1	MC62701-010 [1]	Stabilator Forward LH
1	MC62701-011 [1]	Stabilator Forward RH
1	MC62701-012 [1]	Stabilator Aft Bottom
1	MC62701-013 [1]	Stabilator Aft Top

Notes:
[1] Stabilator Cable Kits to assist with Piper AD2013-02-13 include cables designated with this P/N, plus (2) each MS21251-B5S Barrels and (10) each MS21256-1 Locking Clips
[2] Included in kits for manual trim aircraft only
[3] Included in kits for electric trim aircraft only
[4] Kits for electric trim aircraft include only one of this part number

All Piper cables are coated with a modified MIL-PRF-16173 compound, which provides additional corrosion protection beyond the standard MIL-SPEC rust preventive oil.

This provides both exceptional wear resistance and corrosion protection for many years.

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