

APPLICATION SHEET

**ENGINE VIBRATION ISOLATORS
 TYPE 94011-20**

Hutchinson Aerospace designs and manufactures engine vibration isolation systems to meet the exacting standards of the aircraft industry. These systems are designed to reduce the magnitude of vibration transmitted from the propeller/powerplant to the airframe. Isolation provides: reduced pilot fatigue, passenger comfort, and maximum protection of the aircraft structure and systems from the damaging effects of vibration. To maintain maximum performance and protection from the isolation system, replacement is recommended at every engine overhaul.

Hutchinson Aerospace has been granted Parts Manufacturers Approval (PMA) for vibration isolation assembly type number 94011-20 installed on the aircraft listed below. For complete product definition, some systems require two 94011-20 and two 94011-02 or two 94011-20 and two J-9613-72HA. **Hutchinson Aerospace** holds PMA for these isolation systems as well. Each isolator consists of: two molded assemblies, a spacer, and a washer. The spacer located between the two molded assemblies provides proper installation positioning and pre-compression.

APPLICATIONS

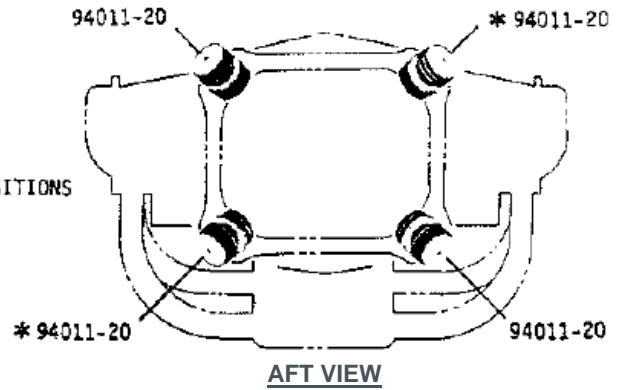
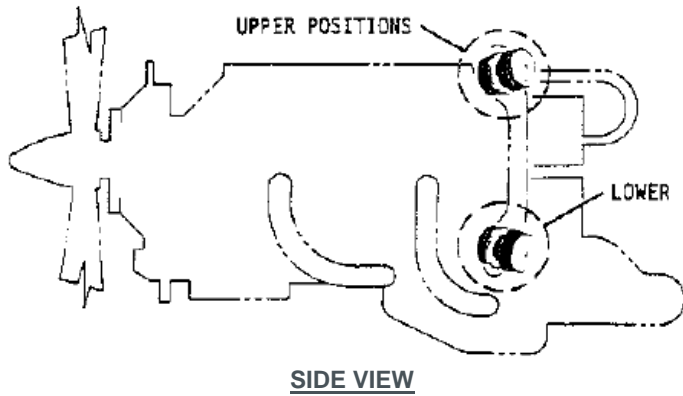
| AIRCRAFT MANUFACTURER | POPULAR NAME | AIRCRAFT MODEL | ENGINE TYPE | ISOLATORS PER ENGINE | ISOLATORS PER AIRCRAFT |
|-----------------------|----------------------|----------------------------------------|-------------------------------------------------------|---------------------------------|---------------------------------|
| Air Plains | 172 180HP Conversion | Cessna 172B thru P | LYC O-360-A4M | (4) 94011-20 | (4) 94011-20 |
| Beech | Duchess | 76 | LYC O-360-A1G6D LYC LO-360-A1G6D | (2) 94011-20 (2) J-9613-72HA | (4) 94011-20 (4) J-9613-72HA |
| Cessna Textron | Skyhawk | 172I, 172K, 172L, 172M | LYC O-320-E2D | (4) 94011-20 | (4) 94011-20 |
| | | 172N | LYC O-320-H2AD | (4) 94011-20 | (4) 94011-20 |
| | | 172P | LYC O-320-D2J | (4) 94011-20 | (4) 94011-20 |
| | | 172R, 172S | LYC IO-360-L2A | (2) 94011-20 (2) J-9613-72HA | (2) 94011-20 (2) J-9613-72HA |
| | Cutlass | 172Q | LYC O-360-A4N | (2) 94011-20 (2) J-9613-72HA | (2) 94011-20 (2) J-9613-72HA |
| | | 172RG | LYC O-360-F1A6 | (2) 94011-20 (2) J-9613-72HA | (2) 94011-20 (2) J-9613-72HA |
| | Cardinal | 177 | LYC O-320-E2D | (4) 94011-20 | (4) 94011-20 |
| | | 177A | LYC O-360-A2F | (4) 94011-20 | (4) 94011-20 |
| 177B | | LYC O-360-A1F6 or -A1F6D | (4) 94011-20 | (4) 94011-20 | |
| Gulfstream Aerospace | Tiger | AA-5B | LYC O-360-A4K | (4) 94011-20 | (4) 94011-20 |
| | Cougar | GA-7 | LYC O-320-D1D | (4) 94011-20 | (4) 94011-20 |
| | Commander | 111 | LYC O-360-A1G6 or -A4G | (2) 94011-20 (2) 94011-02 | (2) 94011-20 (2) 94011-02 |
| | | 112, 112B | LYC O-360-C1D6 | (2) 94011-20 (2) 94011-02 | (2) 94011-20 (2) 94011-02 |
| | | 112TC, 112TCA | LYC TO-360-C1A6D | (2) 94011-20 (2) 94011-02 | (2) 94011-20 (2) 94011-02 |
| Mooney | Mark 201 | M20J | LYC IO-360-A1B6D or -A3B6D | (4) 94011-20 | (4) 94011-20 |
| Partenavia | Victor | P68 | LYC IO-360-A1B or A1B6 | (4) 94011-20 | (8) 94011-20 |
| Piper | Cherokee Cruiser | PA-28-140 (S/N 75-25001 and up) | LYC O-320-E2A | (2) 94011-20 (2) 94011-02 | (2) 94011-20 (2) 94011-02 |
| | Cherokee Warrior | PA-28-151 | LYC O-320-E3D | (2) 94011-20 (2) 94011-02 | (2) 94011-20 (2) 94011-02 |
| | Warrior II | PA-28-161 | LYC O-320-D2A or -D3G | (2) 94011-20 (2) 94011-02 | (2) 94011-20 (2) 94011-02 |
| | Cherokee | PA-28-180 (S/N 5151 and up) | LYC O-320-A3A or -A4A | (4) 94011-20 | (4) 94011-20 |
| | Arrow | PA-28R-200 | LYC IO-360-C1C or C1C6 | (4) 94011-20 | (4) 94011-20 |
| | | PA-28R-180 (S/N 30001 and up) | LYC O-360-B1E | (4) 94011-20 | (4) 94011-20 |
| | Archer II | PA-28-181 | LYC O-360-A4A or -A4M | (4) 94011-20 | (4) 94011-20 |
| | Arrow III | PA-28R-201 (S/N 28R-7737002 and up) | LYC IO-360-C1C6 | (4) 94011-20 | (4) 94011-20 |
| | Seneca | PA-34-200 | LYC IO-360-C1E6 or LIO-360-C1E6 | (4) 94011-20 | (8) 94011-20 |
| | Seminole | PA-44-180 | LYC O-360-E1A6D or -A1H6 LYC LO-360-E1A6D or -A1H6 | (4) 94011-20 | (8) 94011-20 |
| Turbo Seminole | PA-44-180T | LYC TO-360-E1A6D LYC LTO-360-E1A6D | (4) 94011-20 | (8) 94011-20 | |
| Socata | Rallye | 235C, 235E | LYC O-540-B4B5 | (4) 94011-20 | (4) 94011-20 |

APPLICATION SHEET



FAA REPAIR STATION UT3R905L
 JAA JAR 145.10
 FAA-PMA PARTS MANUFACTURING APPROVED

Hutchinson Aerospace vibration isolators are sold as assemblies. The illustrated parts breakdown and part number list as provided for reference only. For additional information, applications assistance, and technical support, please contact our customer service department.

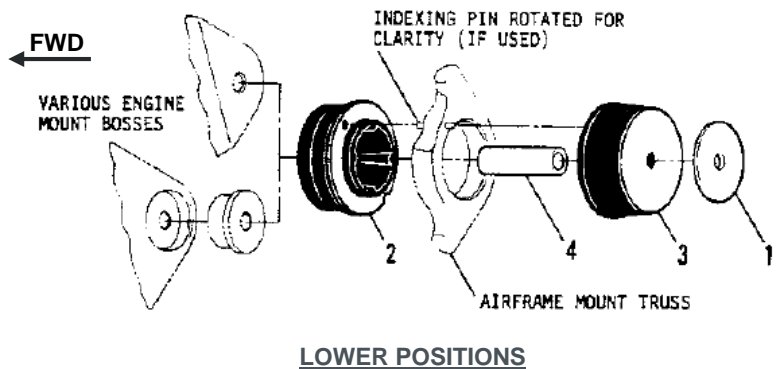
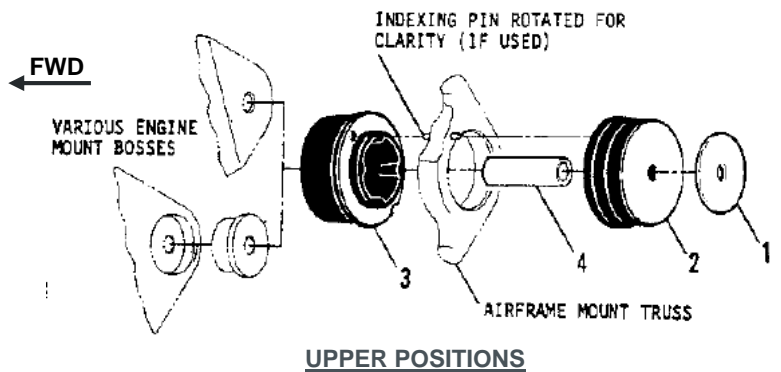


*NOTE: When 94011-20 is used with 94011-02 or J-9613-72HA Isolators, install 94011-02 or J-9613-72HA at these specified locations.

| TYPE 94011-20 | | | |
|---------------|----------------------------|-------------|--------------------|
| ITEM | DESCRIPTION | PART NUMBER | UNITS PER ASSEMBLY |
| 1 | Washer | 98-9074-11 | 1 |
| 2 | Molded Assembly, Shimmed | 00-11901-73 | 1 |
| 3 | Molded Assembly, Unshimmed | 00-11900-71 | 1 |
| 4 | Spacer | 85-9217-02 | 1 |

**NOTE: Some aircraft applications may require zero, one, or two washers in from of the isolator. This washer is not a Hutchinson manufactured part.

Type 94011-20 is designed and approved for installation without the use of a "damper-bag" center spacer.



Please refer to the aircraft's Illustrated Parts Catalog and Maintenance Manual for proper installation instructions.