



SERVICE BULLETIN

No. 441

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"FAA DOA EA-1 Approved"

January 2, 1975

Subject: Clamping of Manifold Pressure Hose

Models Affected: Serial Numbers Affected:

Only Aircraft Listed Below with Normally Aspirated Engines are affected.

PA-23-250 (Six Place) Aztec 27-2505 to 27-7405448 incl.

NOTE: Only normally aspirated aircraft within this group with a certain type of manifold pressure hoses installed are affected; refer to Purpose and Instructions sections below, for further details.

Compliance Time: At the next regularly scheduled inspection period (100 hour, annual or programmed inspection event), not to exceed the next 100 hours of operation.

Purpose: The right engine manifold pressure hose assembly, Piper part number 17766-77, has, in recent production configurations of the above referenced aircraft, been changed from a rubber composition shielded (i.e., external covering) to a braided metal outer shielding. It has been found that the metal shielded manifold pressure hose assembly - in the right engine compartment only - may contact a section of the adjacent engine mount tubing. Left unattended, this condition may cause wear of the engine mount tubing resulting from prolonged chafing of the tubing by the metal (stainless steel) covered manifold pressure hose.

This service release provides instructions to inspect the above referenced aircraft to (1) determine the type (i.e., rubber composition or metallic braid covered) manifold pressure hose installed, (2) if manifold pressure hose is metallic braided, determine if the engine mount tube is chafed or worn, (3) repair engine mount tube if chafing/wear has occurred as described above, and (4) install clamps to isolate the right engine manifold pressure hose from the adjacent engine mount tube.

Please refer to attached sketch / instruction sheet for an illustrated description of the affected area.

Instructions: Please refer to attached sketch / instruction sheet.

Instructions: (continued)

1. Locate manifold pressure hose (right engine), Piper part number 17766-77, and determine the type of outer covering.
 - a. If the hose is covered with a rubber composition shielding, no further action is required.
 - b. If the hose outer shielding is metallic braid, proceed to Step 2, below.
2. Visually inspect adjacent engine mount tube for indications of excessive chafing and/or wear.
 - a. If no indication of chafing and/or wear is evident, proceed to Step 3, below.
 - b. Engine mount tube wear up to 10% of wall thickness (.007 inch) may be tolerated; any wear in excess of this amount will require either a welded patch or an outside sleeve repair per FAR43.13 - 1.
3. Locate and install clamps and related hardware as shown on the attached sketch / instruction sheet.
4. Make appropriate log book entry.

Material Required:

One (1) each per aircraft Piper part number 760-904, manifold pressure hose clamping installation kit (right engine only).

NOTE: Kit is to be installed only if the manifold pressure hose assembly Piper part number 17766-77, is metallic braid covered.

Availability of Parts:

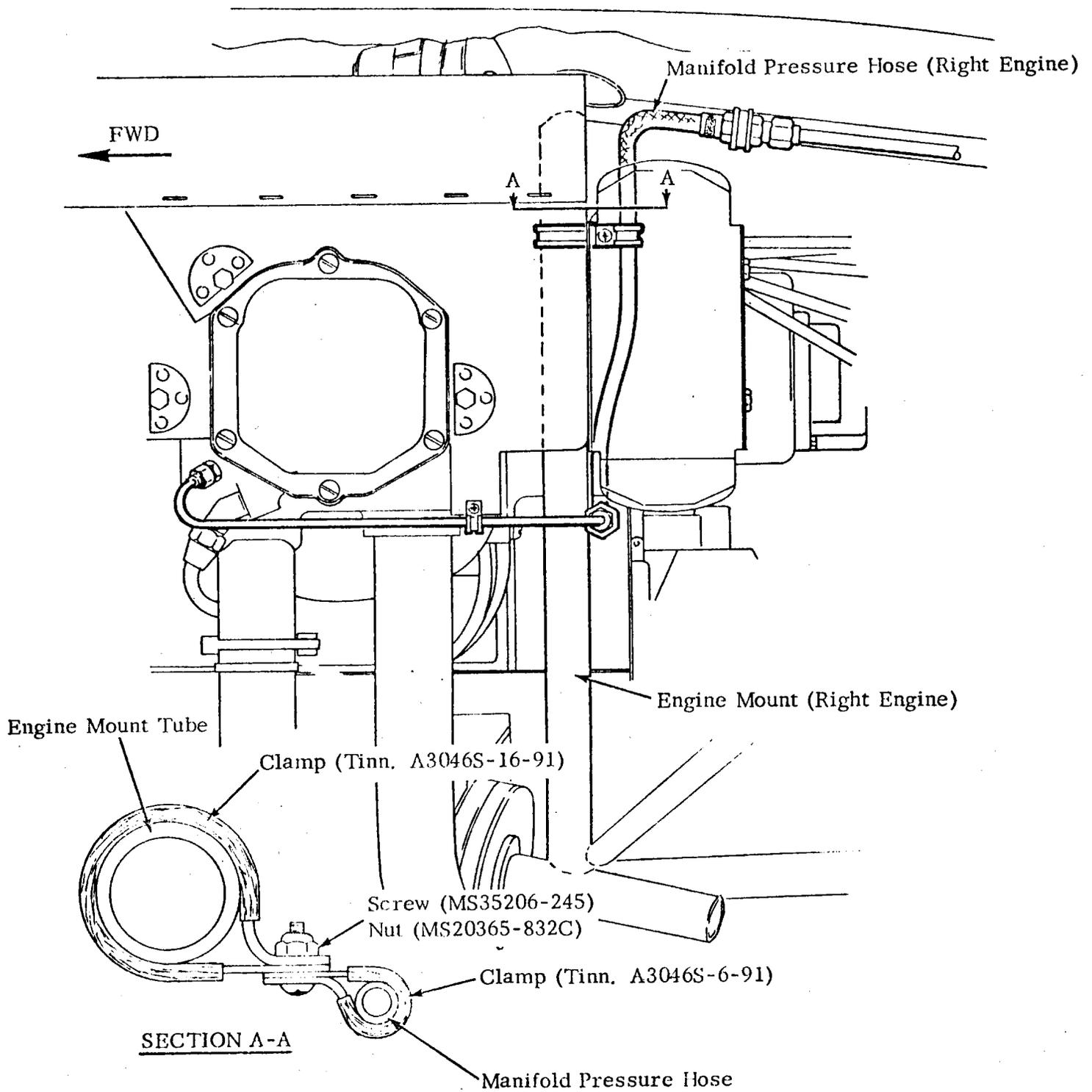
Your Piper Field Service Facility.

Effectivity Date:

This Service Bulletin is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to make arrangements for compliance with the service release in accordance with the provisions of compliance time above. The modification material described above, if necessary for installation will be provided through your Piper Field Services Facility free of charge.



INSTRUCTIONS

Locate and install clamps to right engine manifold pressure hose and engine mount tube as shown above. Locate clamps to insure sufficient clearance between the manifold pressure hose and engine mount tube and between the hose and magneto.