



# SERVICE BULLETIN

No. 641

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA/DOA SO-2 Approved

April 5, 1979

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Subject: Heater Fuel Drain Hose Modification

Models Affected:

PA-31, PA-31-300, PA-31-325  
Navajo  
PA-31-350 Chieftain

Serial Numbers Affected:

31-2 through 31-7912036  
31-5001 through 31-7952061

Compliance Time:

Within the next twenty-five (25) hours of operation or at the next scheduled inspection, whichever occurs first.

Purpose:

It has been determined that in the above-referenced aircraft, the Heater Fuel Regulator Drain Hose may contact the Heater Air Distribution Box. Constant contact of the Fuel Drain Hose with the Heater Air Distribution Box could cause the Fuel Drain Hose to deteriorate. A leaking Heater Fuel Regulator in combination with a deteriorated, leaking Fuel Drain Hose could allow fuel to contact the Heater Exhaust and create a fire hazard.

As a precaution against such an occurrence, this Service Bulletin provides instructions for the installation of a new, longer Fuel Drain Hose and a clamp to assure proper clearance between the Fuel Drain Hose and the Heater Distribution Box.

Instructions:

1. Refer to attached Sketch.
2. Remove the access panel on the right side of the fuselage to gain access to the Heater compartment.
3. The Heater Fuel Drain Hose is located on the aft bulkhead of the Heater compartment (Sta. 57 on PA-31, PA-31-300 and PA-31-325; Sta. 81 on PA-31-350).
4. Remove the clamp attaching the Fuel Drain Hose to the Regulator Valve Shroud (Avoid damaging the clamp so that it may be reused), and remove the Fuel Drain Hose from the aircraft.

(over)

Instructions: (continued)

5. Replace the Fuel Drain Hose with a new Hose as specified in Material Required, below, or fabricate a suitable replacement hose from 3/8" ID x 1/2" OD SAE 80 Clear Taproid (Soft PVC). For PA-31, PA-31-300 and PA-31-325 aircraft, use a 14-inch length of hose. For PA-31-350 aircraft, use a 21-inch length of hose.
6. Per the attached Sketch, drill a .164 inch hole in the channel two inches forward of the bulkhead, and install clamp, screw, and nut as shown. Refer to Material Required, below.
7. Reroute the Heater Fuel Regulator Drain Hose through the clamp as shown on the attached Sketch, assuring proper clearance from the Heater Distribution Box.
8. Reinstall access panel and make appropriate Logbook entry of compliance with this Service Release.

Material Required:

1. One (1) each per aircraft:
  - A. PA-31, PA-31-300 and PA-31-325 Drain Hose, Piper Part No. 56976-07 (14 inch) at a suggested list price of \$.35 each.
  - B. PA-31-350  
Drain Hose, Piper Part No. 56976-06 (21 inch) at a suggested list price of \$.35 each.

NOTE:

Above Drain Hose may be  
fabricated per Instruction 5.

2. One (1) each per aircraft:  
Clamp (PS10017-14-8/MS9024-07) Piper Part No. 554 621.  
Screw (MS35206-243) Piper Part No. 515 713.  
Nut (MS20365-832C) Piper Part No. 404 910.

Availability of Parts:

Your Piper Field Service Facility, or obtain locally.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your local Piper Field Service Facility to make arrangements for compliance with this Service Release in accordance with the provisions of Compliance Time, above. For aircraft within their warranty period only, reimbursement is available for up to one (1) hour labor for Fuel Drain Hose Modification. Comply with the respective labor allowance procedure of your Piper Field Service Facility.

