



S.A. 31T-13

MODIFICATION FAA APPROVED

November 15, 1983

TO: Piper Corporate Aircraft Centers  
and T-1040 Owners

SUBJECT: Pneumatic Intercooler Drain Fitting  
Installation.

MODEL AFFECTED: PA-31T3 T-1040

SERIAL NUMBERS AFFECTED: 31T-8275001 through 31T-8275003,  
31T-8275005 through 31T-8275012, and  
31T-8275014 through 31T-8375006.

COMPLIANCE TIME: Within the next fifty (50) hours of operation or  
next scheduled event whichever occurs first.

PURPOSE: Field reports have indicated that water has been  
accumulating in the pneumatic intercoolers and freezing when temperatures at  
the intercooler go below 32°F. If left unattended, an ice build-up could  
occur, resulting in the loss of one or both sides of the pneumatic system.

This Service Release provides instructions for installing a Drain Fitting  
Assembly (Piper P/N 02142-02) in the Pneumatic Intercooler Inlet line from  
each engine.

INSTRUCTIONS:

1. Remove the lower cowl from each engine.
2. Disconnect the inlet line from each intercooler and remove the existing inlet fittings.
3. Using a thread chasing tool or a small drill operated wire brush, clean out the threads of each intercooler inlet port. Take precautions to prevent particles from entering intercooler.
4. On each intercooler, install a new inlet fitting (P/N 02142-04) using a thread lubricant (MIL-F-4343 or equivalent) with a new O-ring (P/N 484 816) and tighten the fitting. Mark the bottom-most flat and remove the fitting. Refer to Sketch A.
5. After removing the inlet fitting, use a No. 55 drill and drill a hole through the center of the marked flat into the center of the fitting. Deburr both ends of the hole.
6. Reinstall the fitting and O-ring into each intercooler using additional lubricant if necessary.
7. Insert the Orifice Tube, P/N 02142-03, into the fitting of each intercooler with discharge hole down.
8. Connect the bleed air line to the fitting of each intercooler.
9. Make an appropriate entry in the aircraft logbook indicating compliance with this Service Release.

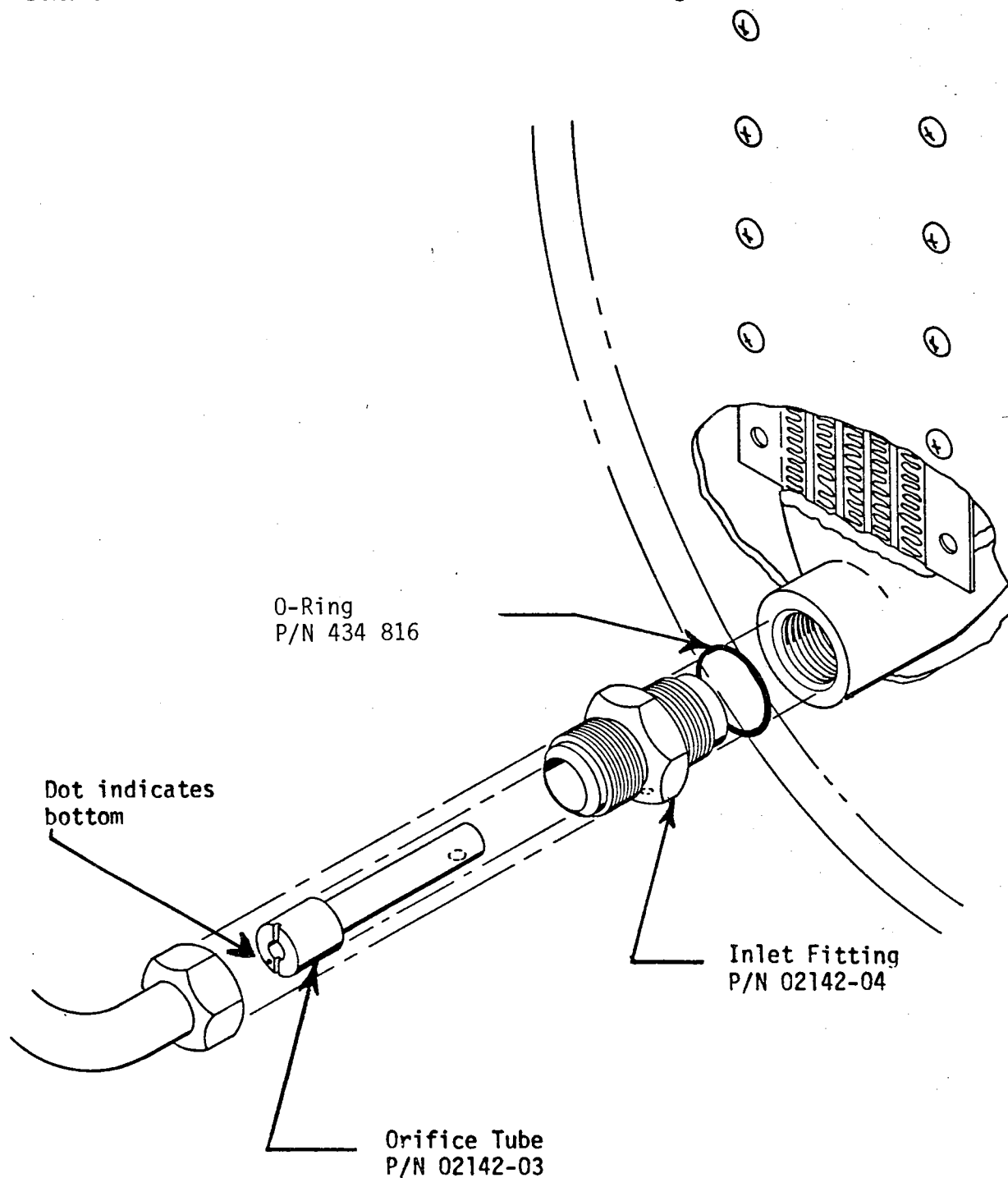
ATA: 3710  
(over)

MATERIAL REQUIRED: Two (2) per aircraft, Heat Exchanger Drain Fittings, Piper Part Number 02142-02. Two (2) per aircraft, O-rings, Piper Part Number 484 816.

AVAILABILITY OF PARTS: Your Cheyenne Sales Center Service Facility or Piper Airline Support Center.

EFFECTIVITY DATE: This Service Release is effective upon receipt.

SUMMARY: Please arrange compliance with this release in accordance with the compliance time above. Credit is available for material and for up to four (4) hours labor. Comply with Product Condition/ Compliance Report procedure. The factory participation remains in effect for a period of time not to exceed 180 days from the date of this Service Release.



NOTE  
Refer to Chapter 36 of the Maintenance  
Manual for special installation instruc-  
tions.

SKETCH A. Installation of P/N 02142-02  
Intercooler Drain Fitting Assembly