



The New Piper Aircraft, Inc.  
2926 Piper Drive  
Vero Beach, Florida, U.S.A. 32960

# SERVICE *No. 1033* LETTER

Date: July 9, 2001 (S)

**SUBJECT:** REPLACEMENT OF AIR CONDITIONING HOSE

**MODELS AFFECTED:**

PA-28-181 Archer III  
PA-32R-301 Saratoga II HP  
PA-32R-301T Saratoga II TC

**SERIAL NUMBERS AFFECTED:**

2843202 through 2843414  
3246130 through 3246181  
3257081 through 3257193

**COMPLIANCE TIME:** At the next scheduled maintenance event, but not to exceed the next one hundred (100) hours time in service.

**APPROVAL:** The alteration as specified in the instructions section has been shown to comply with the applicable Federal Aviation Regulations and is FAA approved.

**PURPOSE:** In order to eliminate an installation preload on the condenser hose fitting, a more flexible hose must be installed on air conditioning units which use R134A air conditioning refrigerant.  
This Service Letter provides instructions for removing the existing hose assembly and replacing it with a longer, more flexible hose assembly. Installation of this flexible hose will alleviate possible cracking of the condenser in the area of the hose attach fittings.

**INSTRUCTIONS:**

**CAUTION:** When servicing the air conditioning system, pay particular attention to the Warnings, Cautions, and Notes as stated in Chapter 21 of the maintenance manual.

1. Evacuate the R134A refrigerant from the air conditioning system in accordance with the instructions contained in Chapter 21 of the appropriate maintenance manual.
2. Remove the access cover on the aft baggage closeout panel and locate the existing hose assembly which is located on the floor ahead of and attached to the condenser. Refer to Figure 1 for location of the hose and associated attachments.
3. Refer to Figure 2. Loosen the "B" nut attaching the hose to the condenser adapter fitting and remove the hose end from the fitting.
4. Refer to Figure 1. Remove the hose clamp attaching the hose to the floor of the aircraft and remove the clamp from the hose. Save this hardware for use when installing the replacement hose assembly and clamp.
5. Remove the clamp attaching the right end of the hose assembly to the fuselage stringer near the closeout bulkhead. Save this clamp and hardware for use when installing the replacement hose assembly. (To gain access to this area, it may be necessary to remove the aft baggage closeout bulkhead.)

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**INSTRUCTIONS:** continued

6. Loosen the "B" nut at the right end of the hose and remove the hose.
7. Lubricate the hose end fitting o-rings with compressor oil, then install the replacement hose assembly by first attaching the end with the 90° bend fitting to the condenser adapter fitting on the left side of the aft fuselage floor as shown in Figure 1. Torque to 36 to 39 ft. lb.
8. Install the supplied clamp over the replacement hose assembly and position it on the spacer where the previous clamp was attached to the floor of the aft fuselage. Use the previously removed hardware to attach the replacement hose and clamp to the fuselage floor.
9. Reinstall the previously removed clamp over the replacement hose and route the hose as shown in Figure 1 to enable the clamp to be reattached to the fuselage stringer near the closeout bulkhead on the right side using the previously removed hardware.
10. Attach the right end of the replacement hose assembly to the fitting located on the right side of the fuselage bulkhead and torque the "B" nut to 36 to 39 ft. lb.
11. Recharge the system with R134A air conditioning refrigerant in accordance with the recharging instructions found in Chapter 21 of the appropriate maintenance manual.
12. Perform the post charging operational check.
13. After completing the post charging operational check, reinstall the aft baggage closeout bulkhead and access panel.
14. Make a logbook entry indicating compliance with this Service Bulletin.

**MATERIAL REQUIRED:** One (1) each, Hose Assembly, Piper part number 566-419, and one (1) each, Clamp, Piper part number, 454-868, per aircraft.

**AVAILABILITY OF PARTS:** Your Piper Field Service Facility.

**EFFECTIVITY DATE:** This Service Letter is effective upon receipt.

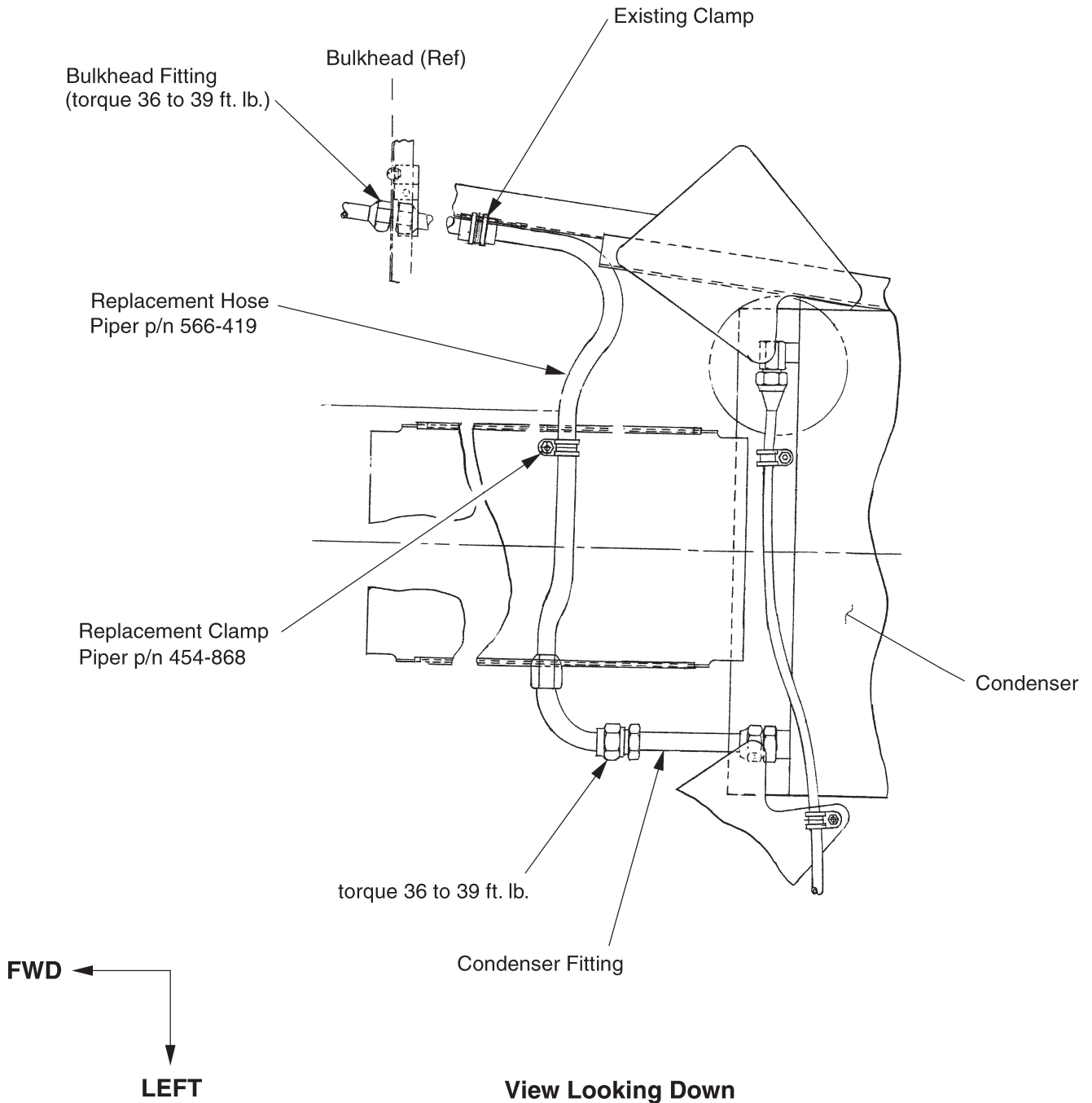
**SUMMARY:** Applicable Factory Participation is limited to new aircraft in warranty at the time of compliance. Factory Participation will remain in effect for a period of time **not to exceed 180 days** from the date of this Service Letter.

Please contact your Factory Authorized Piper Service Facility to make arrangements for compliance with this Service Letter in accordance with the compliance time indicated.

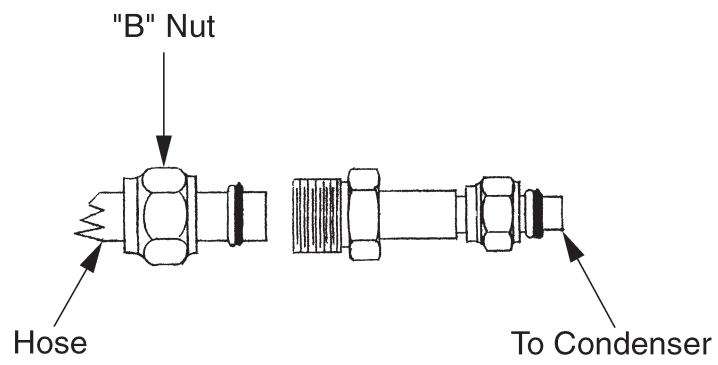
**NOTE:** If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify the factory of address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections/changes should be directed to:

THE NEW PIPER AIRCRAFT, INC.  
Attn: Customer Care  
2926 Piper Drive  
Vero Beach, FL 32960



**Figure 1**  
Replacement Hose Installation



**Figure 2**  
Attachment of Hose to Condenser