



SERVICE LETTER

No. 874

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA/DOA SO-2 Approved

October 19, 1979 M

Subject:

Low Fuel Warning Sensor Sealing

Models Affected:

PA-31 Navajo
PA-31-325 Navajo C/R
PA-31-350 Chieftain

Serial Numbers Affected:

31-7512013 through 31-7912034
31-7400990, 31-7512006 through 31-7912034
31-7552024 through 31-7952064

Compliance Time:

Recommended within the next one hundred (100) hours of operation or at the next scheduled inspection, whichever occurs first.

Purpose:

Field reports indicate that the possibility exists of fuel seepage from the area of the low fuel warning sensor attachment to the fuel cell. Such a condition, if left unattended, could allow fuel to streak the wing upper surface aft of the fuel warning sensor cover plate.

This Service Release provides instructions for the installation of a more effective seal in the areas presently susceptible to seepage.

Instructions:

1. De-fuel the aircraft to obtain fuel level below low fuel warning sensor probe.
2. Remove MS24693-S49 screws and cover plates (Piper Part No. 40545-04) on left and right wings (See Figures 1 and 2).
3. Disconnect sender wire knife splice (See Figure 3.)
4. Remove AN4-4A hold-down bolts and AN936-A416 Washers, and lift sensor (Piper Part No. 54751-02) out of tank (Figure 3).
5. Remove cotter pin and castle nut. Disassemble sensor from fuel cell cover, and remove and discard gasket and AN960-816L washer (Figure 3).
6. Apply MIL-5-8802 B 1/2 sealant (or equivalent) between plate and mounting surface of sensor.
7. Assemble plate on sensor per details shown in Figure 3. It is acceptable to use a combination of light and regular washers to obtain alignment between the cotter pin hole and castellation. Do not exceed 45 in-lbs of torque.

(over)

Instructions: (continued)

8. Replace 2F1-2-14523 gasket and install sensor using original hardware. Place ground wire terminal under one of the bolt heads. Torque AN4-4A bolts to 35 ± 5 in-lbs.
9. Fuel airplane and check for leaks.
10. Connect sender wire knife splice.
11. Apply zinc chromate tape or equivalent to cover plate mounting flange (Figure 3).
12. Install cover plate with MS24693-S49 screws.
13. Remove excess zinc chromate tape from edges of plates.
14. Make appropriate logbook entry of compliance with this service release.

Material Required:

Sealant, MIL-S-8802 B 1/2 or equivalent.

Availability of Parts:

Your Piper Field Service Facility or a local supplier.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to arrange for compliance with the provisions of this Service Release in accordance with Compliance Time, above.

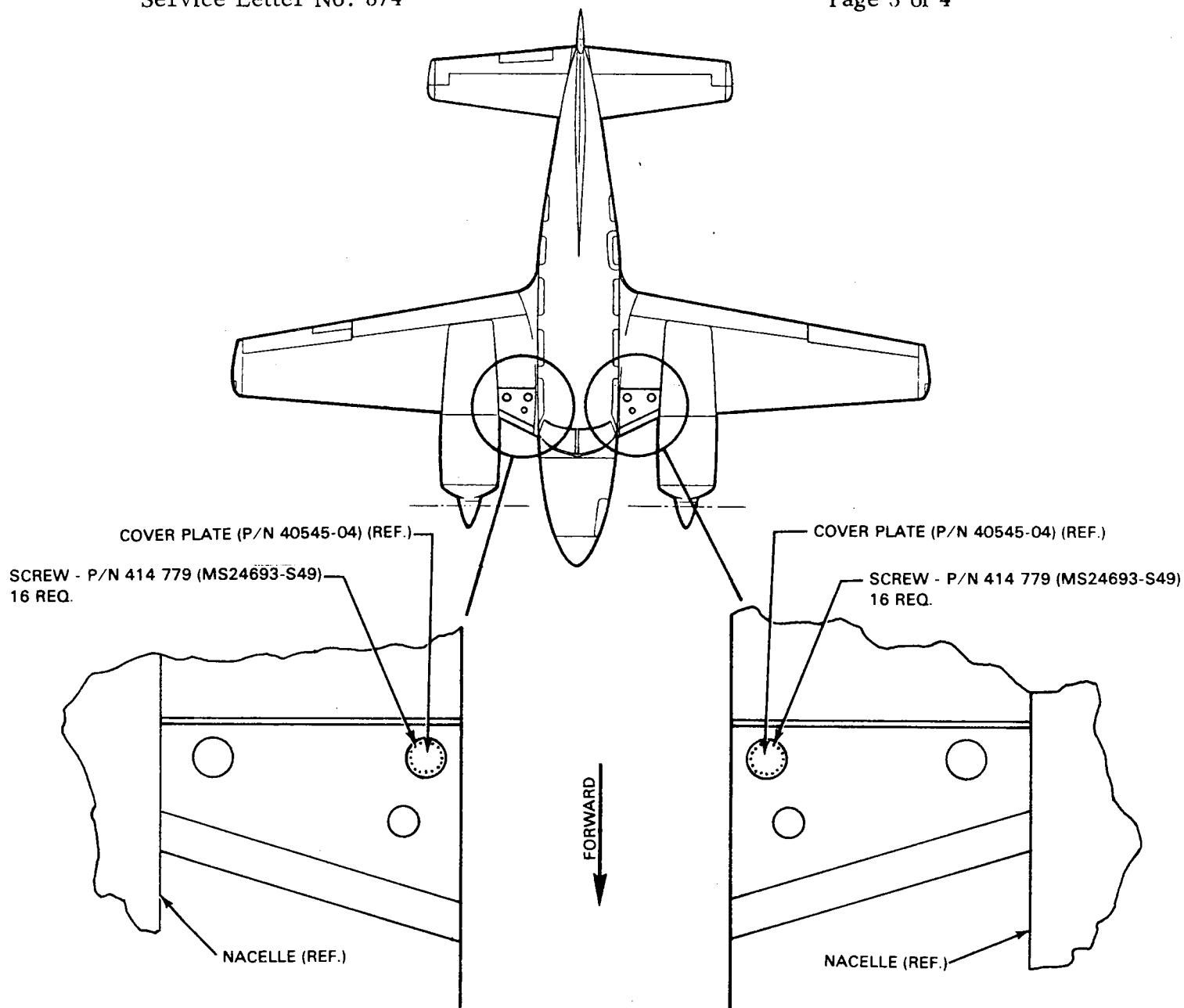


FIGURE 1

FIGURE 2

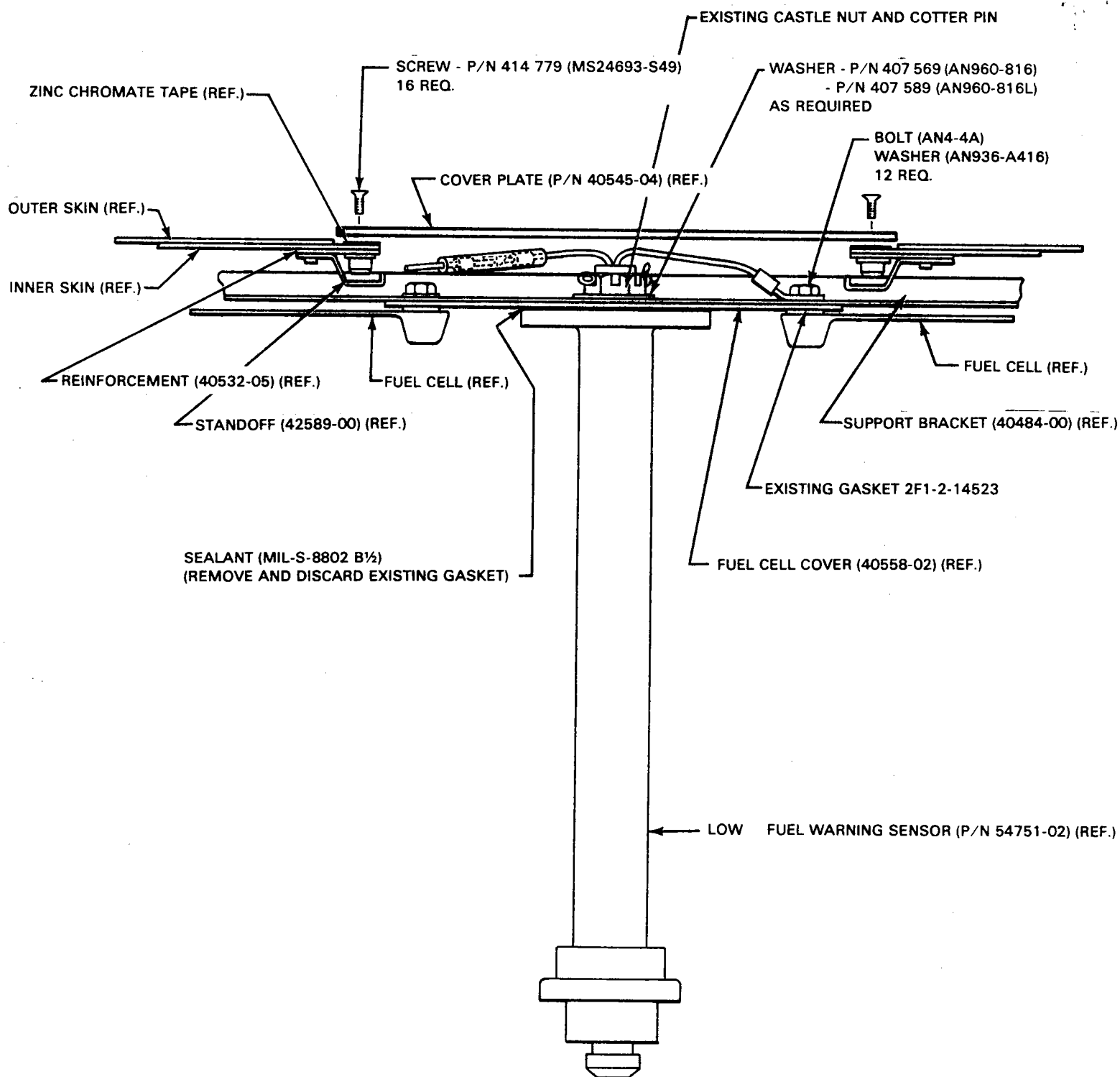


FIGURE 3 (VIEW LOOKING AFT)