

Service Bulletin No. SB-AG-14
August 10, 1978

EFFECTIVITY: MODEL S-2 R S/N 1416R thru 2452R with Pratt & Whitney PT6A-34AG engine installed per STC SA3237 We amended 08-29-77 and STC SA3238 We amended 08-29-77, MODEL S2R-T34 S/N 6000 thru 6002

SUBJECT: FUEL SYSTEM MODIFICATION

COMPLIANCE: WITHIN NEXT TEN (10) HOURS TIME IN SERVICE

APPROVAL: FAA

PURPOSE: Service reports have revealed bearing failures in the fuel control unit due to fuel back pressure in the fuel drain lines forcing fuel thru the fuel control unit bearing and washing out bearing lubricant. This service bulletin is issued to:

1. Advise the operator of this problem and
2. A modification to prevent future failures.

SPECIAL TOOLS: None

**ESTIMATED
MANHOURS:** (1) ONE HOUR

**BY WHOM WORK
WILL BE
ACCOMPLISHED:** A & P Mechanic or equivalent

INSTRUCTIONS:

1. Remove existing SF111-312-312-4-0056 hose assy. from the Pesco Pump No. 025323-101 and AN824-4D fuel drain line tee and discard.
2. Remove existing AN824-4D tee fitting in the fuel drain line for the starting flow control unit and Pesco Pump and discard.
3. Replace AN824-4D tee fitting removed in (2.) above with AN815-4D union supplied in kit.

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4. Drill .437 hole in right hand shin cowl located as shown in Figure 1 view A-A and install AN837-4D elbow (modified) supplied in kit.
5. Install SF111-312-312-4-0266 hose assy. supplied in kit from the Pesco Pump to the AN837-4D elbow (modified) in right hand shin cowl. Position AN 837-4D elbow (modified) to prevent sharp bends in hose assembly. Clamp hose assy. to battery plate and TY wrap to engine mount tube as shown in Figure 1.
6. Refer to Figure 1 for steps (1) thru (5).
7. Fill out and mail compliance card.

SUPPLY DATA: The following parts are supplied with this service bulletin:

<u>QTY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1 EA.	SF111-312-312-4-0266	Hose Assy.
1 EA.	MS21919DG8	Clamp
1 EA.	MS20365-1032	Nut
1 EA.	AN960-716	Washer
1 EA.	AN960-10	Washer
1 EA.	AN924-4D	Nut
1 EA.	AN837-4D (modified)	Elbow
1 EA.	AN526-1032-12	Screw
1 EA.	SST4M	TY Wrap
2 EA.		Compliance Card
1 EA.	AN815-4D	Union

ELECTRICAL
LOAD: Not Applicable

WEIGHT AND
BALANCE DATA: Negligible

AIRCRAFT
RECORDS: Make appropriate entry in aircraft permanent records as follows:

Service Bulletin No. SB-AG-14 dated August 10, 1978, entitled "Fuel System Modification" accomplished _____ (Date)_____.

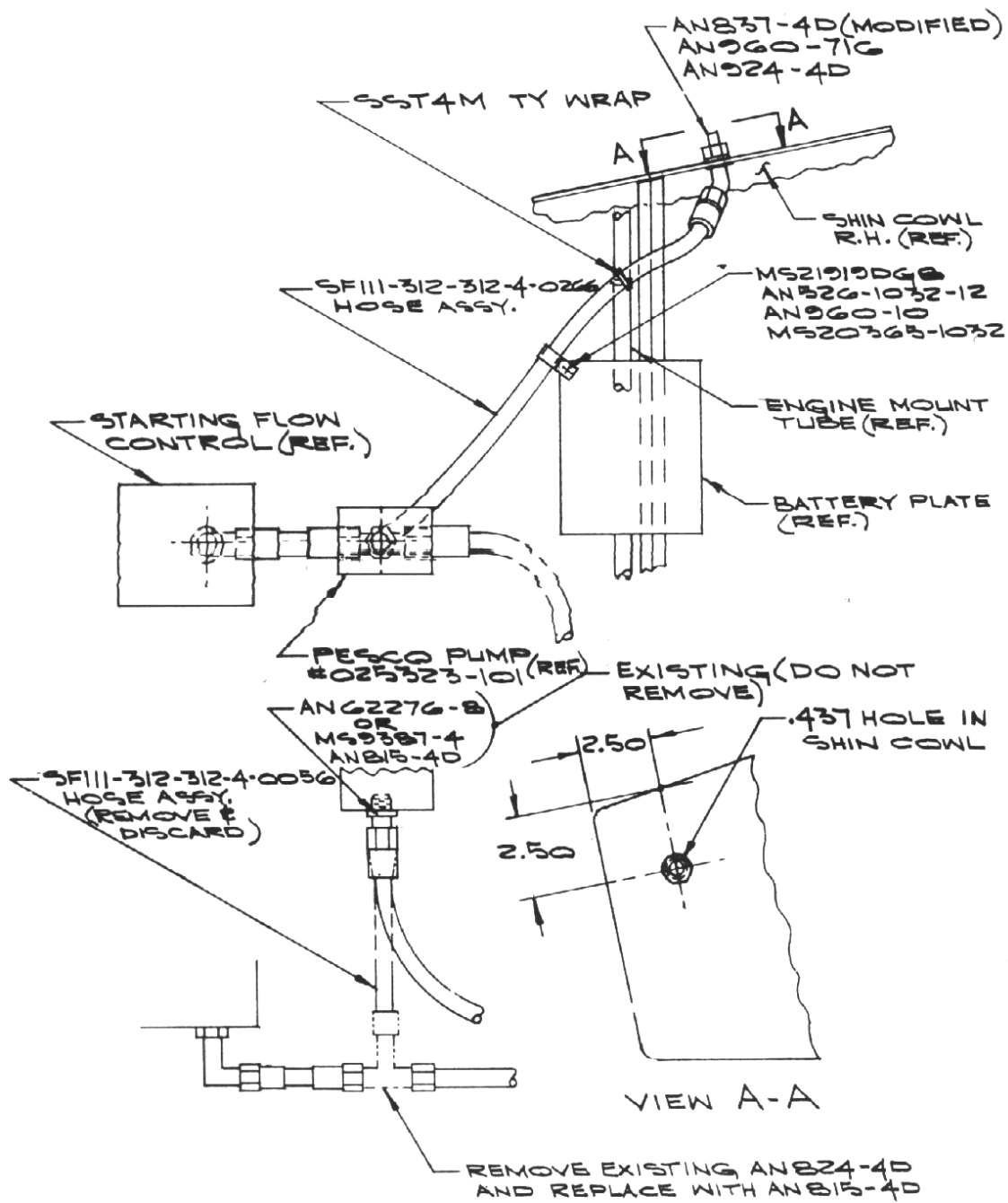


FIGURE 1