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西新宿1-7-2 (スバルビル)

NO : FAS-066B

DATE: May 20, 1972

REV. "A", November 14, 1972

Rev. "B", September 15, 1974

SUBJECT : Installation of Oil Separator (Engine Breather).

2. AIRCRAFT AFFECTED : All FA-200-180 Series Aircraft.

3. PRIORITY : Desirable.

REASON : To prevent excessive oil loss from the engine breather when a negative g is maintained during acrobatic flight.

5. DESCRIPTION : This modification includes rework of the firewall, installation of an oil separator and change of the

engine breather tubing.

6. ACCOMPLISHMENT : Optional.

7. APPROVAL : JCAB Approval (NO-TOKYO-077) July 16, 1974.

This modification will be a minor alteration and subject to the Aircraft Administration rework in-

spection.

8. PARTS REQUIRED .: The following parts are required to perform the modification.

PART NO.	PART NAME	, QTY
AN833-12D	ELBOW	ı
AN924-12D	NUT	1
MS28778-12	"O" RING	1
203-914146-051	OIL SEPARATOR	1



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	PART NO.	PART NAME	QTY		
	AN3-3A	BOLT	4	en.	
	AN960D10	WASHER	L ₊		
	AN919-15D	REDUCER	1	В	
••	MS28778-8	"O" RING	1		
	SRC79-10-0230	HOSE	ı		
	MS20822-10D	ELBOW	1		
	MS21919DG8	CLAMP	1	В	
	AN960D8	WASHER	1		
	AN737RM-38	CLAMP	2		•
	F-0454-12050	HOSE	. 2		•
٠	200-914131-129	TUBE ASSY	1		
	200-914131-127	TUBE ASSY	1		
	MS21919DG12	CLAMP	. 2		
	MS35206-246	SCREW	2 .	В	,
	. nas679a08w	NUT	2		
	AN837-4D	ELBOW	1	•	•
	203-914145-003	BRACKET	1		. ۔۔۔ ،
	203-914145-005	BRACKET	<u>1</u>		

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9. SPECIAL TOOL : None required.

CEMEDINE #540

MS20470AD4

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10. WEIGHT AND BALANCE: Installation of the oil separator results in a weight change as follows:

Change in weight: Plus 0.8 Kg

Arm:

STA1370 (mm)

11. REFERENCE

: Not applicable.

12. MANHOUR REQUIRED

: 4.0 Manhours required.

- 13. DETAILED INSTRUCTIONS:
 - (1) Remove the upper cowling in accordance with Service Manual, para. 4-3-1.
 - (2) Remove the co-pilot seat in accordance with Service Manual, para. 7-1.
 - (3) Modify the front side of the firewall as shown in Figure 1. Remove insulation sufficiently to obtain access to the work area. Remove bolt (A) AN5-7A, and reinstall the bolt to secure the bracket, 203-914145-005.
 - (4) Loosen two clamps, MS21919DG12, and two clamps, AN737RM38, and remove engine breather tube, 200-914131-003, and hose, F-0454-12038. (See Figure 2, Area B.)
 - (5) Using four bolts, AN3-3A, and four washers, AN960D10, attach oil separator, 203-914146-051, to the brackets installed in the above step (3).
 - (6) Install elbow, AN833-12D, on the top of the oil separator with "O" ring, MS28778-12, and nut, AN924-12D.
 - (7) Install reducer, AN919-15D, on the bottom of the oil separator with "O" ring, MS28778-8.
 - (8) For aircraft with manifold pressure gage installed, remove tee, AN804-4D, and cap, AN929-4, from the firewall, and install elbow, AN837-4D, in place. (See Figure 2, Area E.)
 - (9) Connect tube, 200-914131-127, to the elbow on the top of the oil separator. Drill out the existing rivet on the firewall at indicated C area, and, after enlarging the hole to 170/174 inch diameter, install clamp, MS21919DG12, with screw, MS35206-246, and nut, NAS679A08W.
 - (10) Connect the above tube, 200-914131-127, and the breather fitting with hose, F-0454-12050, and secure with the two clamps, AN737RM38, removed in the previous step (4).

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- (11) Replace plug, SII-351, at R/H oil sump drain port (Figure 2, Area D) with elbow, MS20822-10D.
- (12) Install hose, SRC79-10-0230 between the reducer attached in step (7) and the above elbow.
- (13) Attach hose, F-0454-12050, to the oil separator fitting, connect tube, 200-914131-129, and then secure with two clamps, AN737RM38.
- (14) Install tube, 200-914131-129, with the two clamps, MS21919DG12, removed in the previous step (4).
- (15) Attach tube, 200-914131-129, to the vacuum pump drain tube with clamps, MS21919DG12 and MS21919DG8, screw, MS35206-246, nut, NAS679A08W, and washer, AN960D8 (See Figure 2, Area E).
- (16) Bond the stripped insulation to the firewall with Cemedine #540.

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- (17) Reinstall the co-pilot seat.
- (18) Reinstall the engine upper cowling.

14. INSPECTION OF OIL SEPARATOR SYSTEM

Every 50 hours, inspect oil separator system as follows:

- (1) Inspect oil separator for damage and security.
- (2) Inspect oil separator line for damage and security.
- (3) Check system for leakage.

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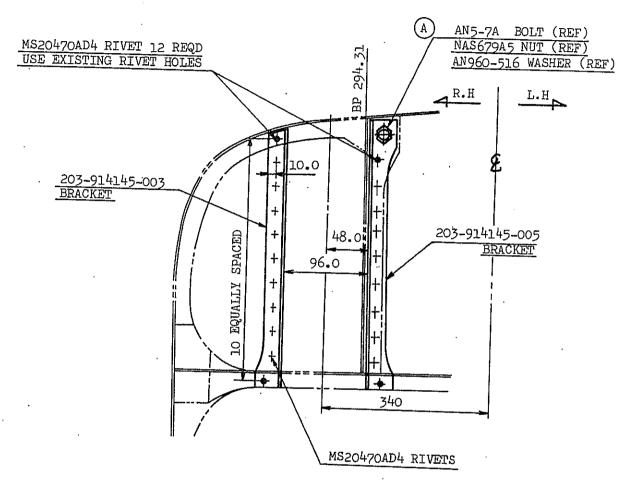
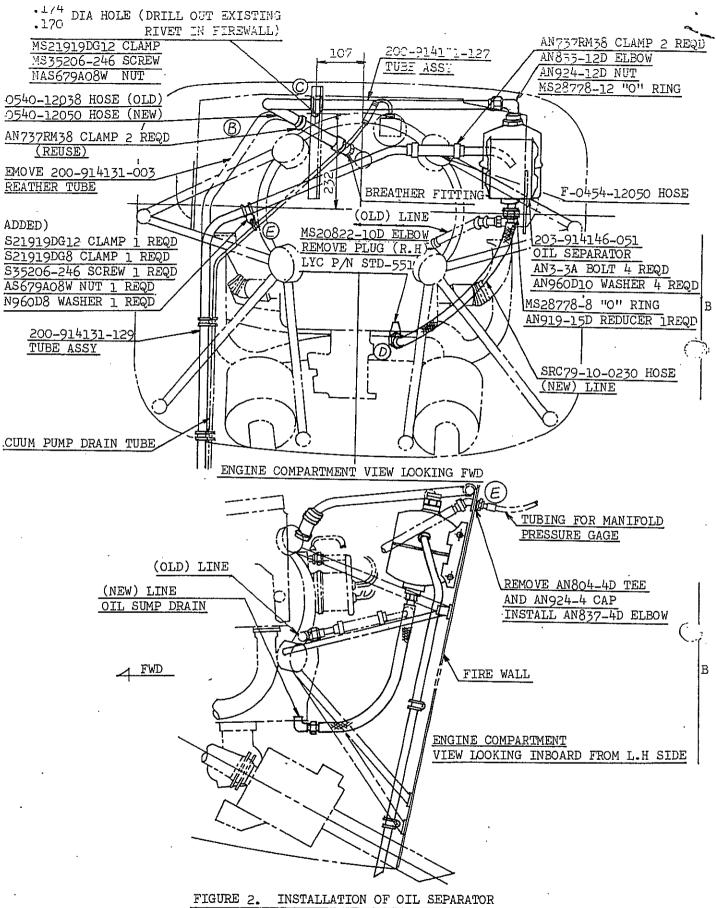


FIGURE 1. INSTALLATION OF BRACKETS ON FIRE WALL
(VIEW LOOKING AFT)



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