This Service Letter reidentified as Service Bulletin M 20-120 per Service Instruction M20-15.

SUBJECT:

Installation of New Fuel Pump Bracket

**MODELS AFFECTED:** 

M20C, Serials 2623-2690 M20D, Serials 201-226 M20E, Serials 101-263

TIME OF COMPLIANCE:

Within the next 100 hours of operation

### INTRODUCTION

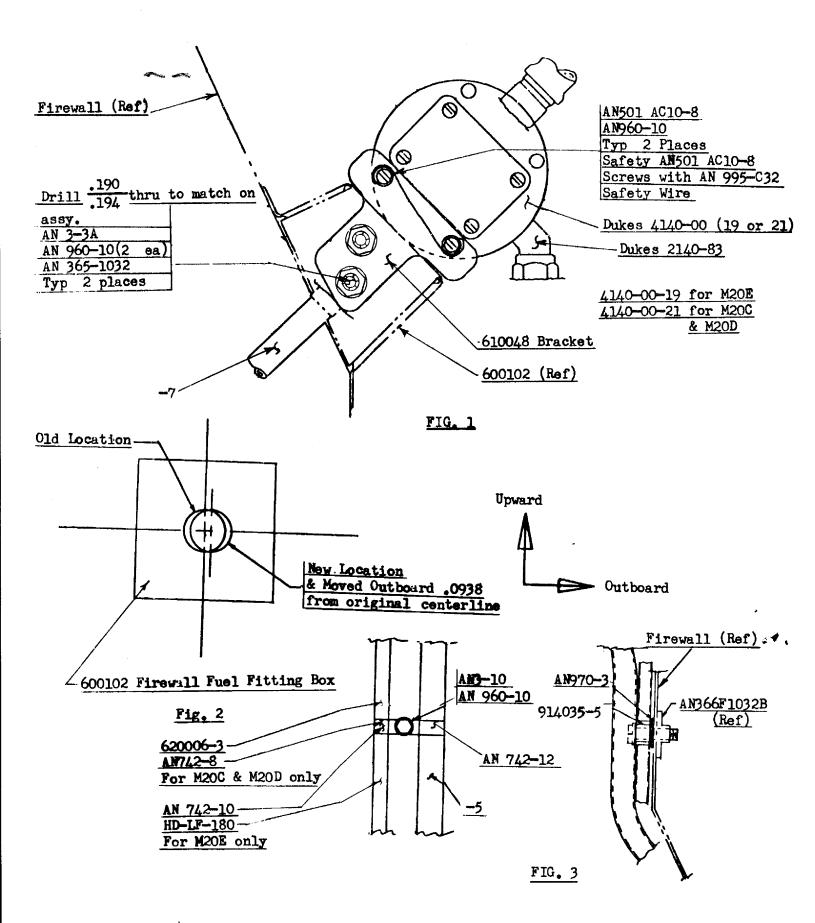
To increase service life of the Dukes electric pump, we recommend the supporting bracket be changed.

#### **INSTRUCTIONS**

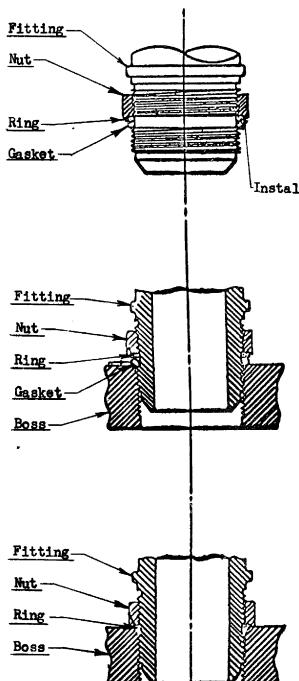
- 1. Remove left side cowling.
- 2. Remove left side 310010 augmenter cavity fairing.
- 3. Disconnect all lines from fuel pump.
- 4. Use care in keeping open fuel lines clear of foreign particles.
- 5. Remove fuel pump.
- 6. Remove breather line and grommets from fuel pump bracket.
- 7. Remove existing bracket.
- 8. For M20E only remove clamp holding HD-LF-180 oil quick drain to side of 600102 firewall fuel fitting box. Retain clamp.
- 9. Plug the six holes with AN435 M-4 rivets.
- 10. Attach the new bracket (610048) to the fuel pump using two AN960-10 washers. Safety wire the two screws. (See Fig. 1).
- 11. Ream the hole in the 600102 firewall fuel fitting box. (See Fig. 2).
- 12. After reaming the hole, place the fuel pump in position and mark the two pilot hole locations on the side of the firewall fuel fitting box.
- 13. Drill the two holes .190/.194. (Drill #11).
- 14. For M20C and M20D clamp 620013-5 breather tube at same place battery box drain line is clamped. Use existing hole with AN3-10 bolt, AN 960-10 washer, AN 742-12 clamp, 914035-5 bushing, and AN 970-3 washer. (See Fig. 3). For M20E clamp 620013-5 breather tube and HD-LF-180 oil quick drain together using existing hole with AN 3-10 bolt, AN 742-12 clamp, 914035-5 bushing, and AN 970-3 washer (See Fig. 3).
- 15. Place fuel pump in position and tighten fuel fitting box lock nut.
- 16. Attach the bracket to the side of the fuel fitting box using two AN3-3 bolts, two AN365-1032 nuts, and four AN9 60-10 washers. (See Fig. 1).
- 17. Reconnect all lines. (See Fig. 4).
- 18. Pressure check fuel system for possible leaks.
- 19. Replace 310010 augmenter cavity fairing.
- 20. Replace cowling.

### PARTS LIST - S.L. 20-120 KIT

No. Req'd	Item		
1	AN435 M-4 rivets	.7	AN960-10 washers
2	AN501AC10-8 screws	1	AN970-3 washer
1	610048 bracket	1	AN742-12 clamp
1 *	AN3-10 bolt	1	914035-5 bushing
2	AN3-3 bolts	4 in.	AN995-C32 safety wire
2	AN365-1032 nuts	,	in the second second with



# Procedure for Reconnecting Fuel Outlet Fitting



## Step 1

Coat male threads of fitting, ring and gasket, sparingly with petrolatum, Spec. AM-P-51 (vaseline), or hydraulic fluid and assemble as shown. Work the ring into the counterbore of the mut; then turn the nut down until the gasket is pushed firmly against the lower threaded section of the fitting.

Install ring with smooth (hair) side toward the 0 ring

### Step 2

Install the fitting into the boss and, at the same time, keep the nut turning with the fitting until the gasket contacts the boss. This point can be determined by a sudden increase in torque. With the fitting in this position, put a wrench on the nut to prevent its turning and, at the same time, turn the fitting in 1½ turns. Position fitting by turning in not more than one additional turn.

## Step 3

Hold the fitting and turn the mut down tightly against the boss. Slight extrusion of the ring is not detrimental