



THIS BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN

SERVICE BULLETIN M20-287

Date: July 06, 2005

SUBJECT: FUEL SELECTOR KNOB ASSEMBLY

MODELS/ SN

AFFECTED: MOONEY M20M, S/N 27-0002 through 27-0339
MOONEY M20R, S/N 29-0001 through 29-0373
MOONEY M20S, S/N 30-0001 and ON

TIME OF

COMPLIANCE: AT NEXT SCHEDULED ANNUAL INSPECTION, BUT WITHIN NEXT 100 FLIGHT HOURS

INTRODUCTION: The fuel selector knob's (Fig. M20-287-1) valve stem mounting hole "flat" (Fig. M20-287-2) may be sufficiently rounded to allow fuel selector knob to rotate excessively on fuel selector valve stem should selector knob set screw loosen.

The fuel selector knob is designed with a "flat" machined into the valve stem mounting hole to align with a corresponding "flat" machined into the fuel selector valve stem. A set screw secures the fuel selector knob to the fuel selector valve stem.

The fuel selector knob should be inspected, per instructions provided below, for snug fit onto fuel selector valve stem with sufficient clearance to avoid excessive looseness (with set screw loosened).

The fuel selector knob should be inspected for looseness (with the set screw loosened) when rotating the knob through the fuel valve select range. If fuel selector knob displays excessive looseness during rotation through fuel selector settings, replace fuel selector knob per instructions below.

INSTRUCTIONS: Read entire procedure before beginning work.

1. Turn master switch - OFF
2. Remove center cover from cabin floor (Fig. M20-287-1) to allow access to set screw on the fuel selector valve knob.
3. Loosen set screw with an Allen wrench.
4. With fuel selector knob remaining affixed to fuel valve stem and set screw loosened, rotate fuel selector knob through fuel valve select range and check for looseness.

If fuel selector knob fit assures positive valve selection through full rotation range on fuel valve stem during steps 3 and 4:

5. Re-tighten set screw.
6. Re-install center cover removed in step 2 above.
7. Complete logbook entry.
8. Return aircraft to service.

If fuel selector knob exhibits looseness:

9. Discard existing fuel selector knob assembly.
10. Install replacement fuel selector knob assembly, 610175-501, supplied with kit number M20-287-000.
11. Install and tighten set screw, M71-1032x1/4LG, supplied with kit number M20-287-000.
12. Check fuel selector knob for positive valve selection while rotating through fuel valve select range.
13. Re-install center cover removed in step 2 above.
14. Complete logbook entry.
15. Return aircraft to service.

WARRANTY: For Mooney Aircraft under warranty, Mooney Airplane Company, Inc. will warrant labor (1 hour) and parts (ref. Kit below) required for the installation of subject fuel selector knob assembly when done in accordance with procedures of this Service Bulletin.

REFERENCE
DATA:

MAC Service and Maintenance Manuals (applicable A/C) Chapter 28.

PARTS LIST:

Mooney Airplane Company, Inc., Parts Kit: M20-287-000

<u>Item</u>	<u>P/N</u>	<u>Description</u>	<u>Qty.</u>
1.	610175-501	Knob Assembly	1
2.	M71-1032x1/4LG	.@Set Screw, Nylok	1

FIGURES:

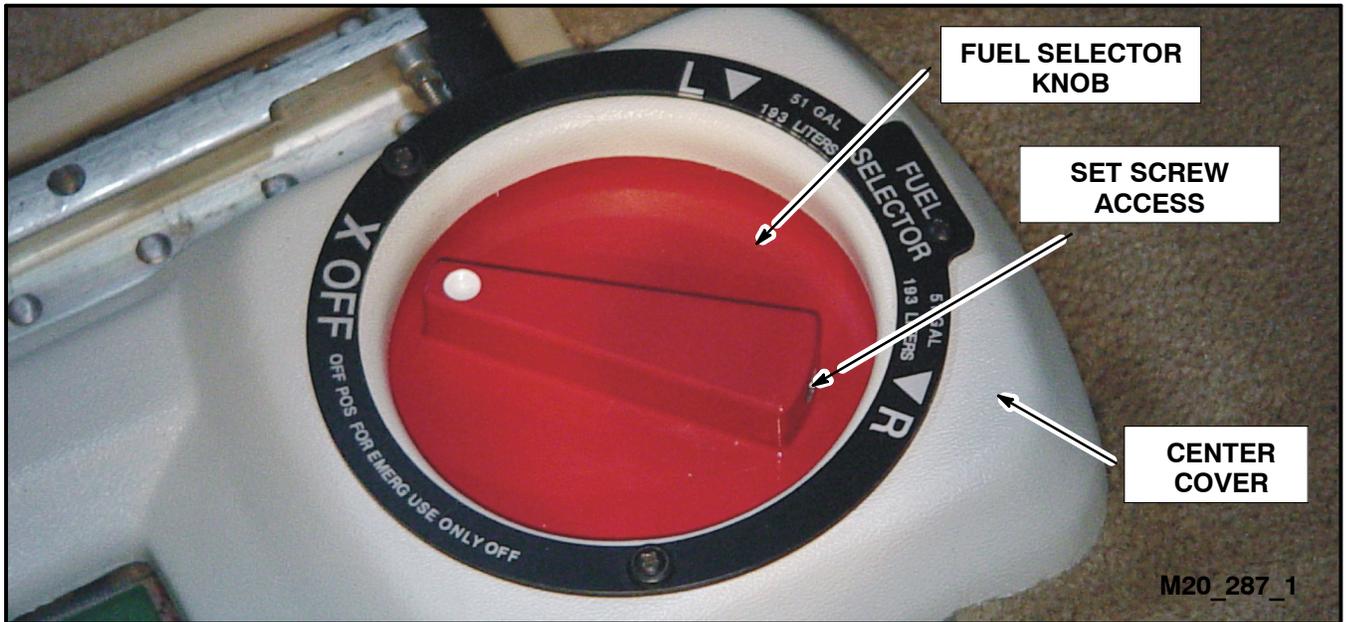


Figure SB M20-287-1

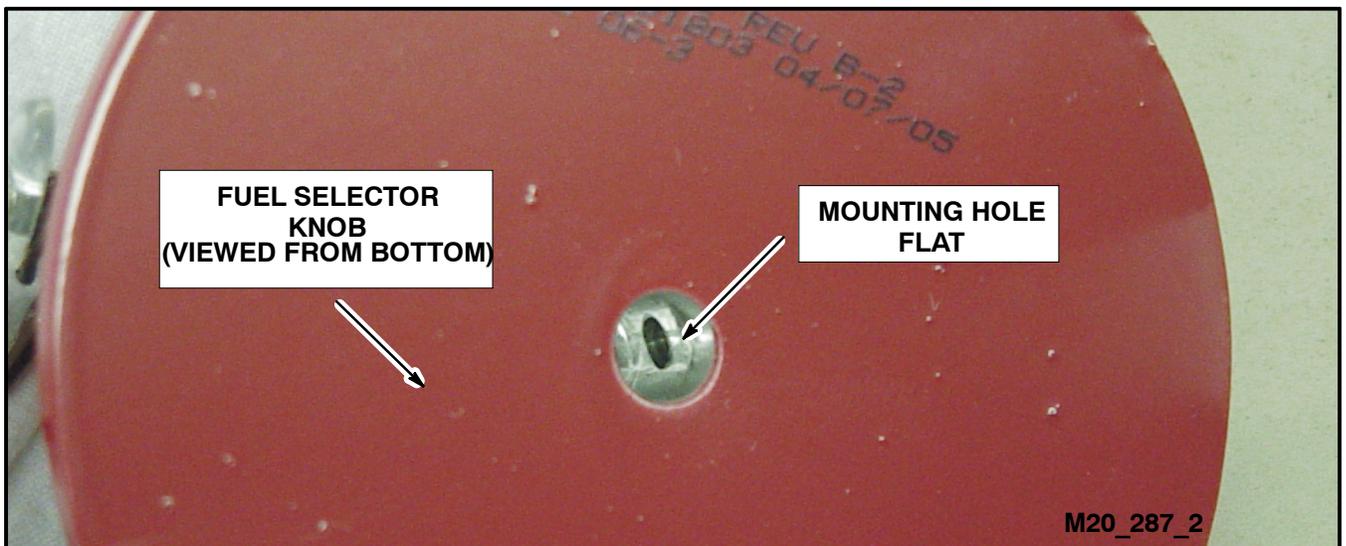


Figure SB M20-287-2