



(This Service Letter Is FAA Approved)

This Service Letter reidentified as
Service Bulletin M 20-95
per Service Instruction M20-15.

SUBJECT: Inspection and Replacement of Micro BZ-7RQ1T Landing Gear Warning Switch

MODELS AFFECTED: M20, M20A, M20B, Serial Numbers 1002-1851, 1853-1939

TIME OF COMPLIANCE: At every 100 Hour Inspection

INTRODUCTION:

The "gear-down" warning system is essential to the safety of the aircraft and a malfunction of this switch would cause the system to become inoperative. Several instances have occurred on Mooney airplanes involving failure of the Micro BZ-7RQ1T Landing Gear Warning Switch. The failure of this switch is caused by either vibration or oil impregnation. It is therefore necessary to inspect this switch every 100 hours as outlined in the instructions below.

INSTRUCTIONS:

1. Remove the right side cowl. The switch is located on the firewall just aft of the throttle control as shown in Figure 1.
2. Inspect the plunger of the switch for wear as shown in Figure 1, Detail A. This can be done by moving the plunger from side to side and from top to bottom. Total movement in either direction should not exceed 1/32 inch. If movement is excessive, replace it with Micro 101HS6 switch and MBH 2731 actuator.
3. Actuate the switch by hand several times. The plunger should have a smooth positive feel and the actuator should have a clean metallic click when engaged. If the plunger feels spongy or rough or the click sounds muffled or non-metallic, the switch has been damaged by oil or dirt and should be replaced with 101HS6 switch and MBH 2731 actuator.
4. If the switch is replaced, no further inspection is necessary. However, it will be necessary to re-adjust the switch. Start the engine and set the throttle for a power setting of 10 to 10½ inches manifold pressure. Stop the engine without moving the throttle control and adjust the switch to make contact at this throttle setting.

COMPLIANCE:

After this Service Letter has been completed, please return the enclosed compliance card to Mooney Aircraft for our records. When ordering switch, please include the registration and serial number of your aircraft.

S.L. KIT 20-95:

This kit is available from Mooney Aircraft, Inc., Spare Parts Department, P. O. Box 72, Kerrville, Texas, at a cost of \$15.00.

PARTS LIST:

No.	Re'qd.	Item
1		101HS6 Switch
1		MBH 2731 Actuator
2		AN515-6R-20 Screw
2		AN960-6L Washer
2		AN970-3 Washer
2		AN365-632 Nut

