



SERVICE INSTRUCTION M20-104
ISSUE DATE: 15 SEPTEMBER, 1997

SUBJECT: Landing/Taxi Light bulb rotation to re-orientate filament from horizontal to vertical.

MODELS/S/N

AFFECTED: M20J - S/N 24-3154 thru 24-3412
M20K - S/N 25-1225 thru 25-2013
M20L - S/N 26-0001 thru 26-0041
M20M - S/N 27-0001 thru 27-0240
M20R - S/N 29-0001 thru 29-0129

TIME OF

COMPLIANCE: At owners convenience.

INTRODUCTION: Landing & taxi light bulb life may be extended by the repositioning of the bulb filament in the wing mounted installation. If desired, the retrofit procedures of this service instruction may be incorporated to rotate the filament to a vertical position.

- INSTRUCTIONS:
1. Remove the access panel from the bottom of the wing, aft of the landing/taxi light mounting area. LH & RH landing/taxi light retainers will be modified.
 2. Carefully disconnect electrical connection from each of the bulbs.
 3. Identify proper screws holding retainer and bulb against plate assembly.

NOTE

Older aircraft will have AN515-8R6 Phillips Head screws installed.

4. Some type of a short 90° Phillips Head screwdriver will be required to loosen these screws (3 on each bulb) so retainer can be rotated and removed from bulb.

NOTE

Later aircraft will have Socket Head screws installed.

- 4a. Use the appropriate sized Allen wrench to loosen the 3 retainer screws on each bulb for this configuration.
5. Remove the retainers, 210204-3, two in each wing, and rework per Figure SB M20-104-1 on following page.
6. Landing/Taxi light bulbs will be loose in the wing; do not allow bulbs to fall from wing.
7. Lay retainer tabs side UP on work bench.
8. Position template so bent tab on template aligns in existing retainer slot.
9. Scribe retainer for new slot with template in proper position per Figure SI M20-104-1.
10. Cut, file or route new slot in retainer. Ensure edges and radius's of new slot are smooth.
11. When rework is completed, reposition bulbs with filament in vertical position (positioning bump on bulb in new slot in retainer) and secure with the reworked retainer.
12. If existing configuration has AN515-8R6 Phillips Head screws, replace with NAS1352 -08-6P (or acceptable alternate) Socket Head screws.

NOTE

The larger OD's of retainer positioning slots may require enlargement to allow socket head screws clearance during installation. Refer to Figure SI M20-104-1

13. Secure retainers with Allen wrench carefully. Do NOT over tighten and crack bulb.
14. Reattach electrical connections to bulbs. **MAKE SURE LANDING vs. TAXI LIGHT CONNECTIONS ARE CORRECT.**
15. Check Landing & Taxi Lights for proper operation.
16. Reposition and secure the access covers for both LH & RH light areas.
17. Enter compliance note in aircraft logbook and return aircraft to service.

WARRANTY:

Mooney Aircraft Corporation will allow 1.5 hours labor for aircraft within original warranty period if completed warranty paperwork is received by Service Parts Department within 180 days of date of this SI.

REFERENCE DATA: N/A

PARTS LIST:
 Kit Part Number -- SI M20-104-1

ITEM	PART NUMBER	DESCRIPTION	QTY
1.	SI M20-104-2	TEMPLATE	1
2.	NAS1352-08-6P	SCREW, SOCKET HEAD	12
or	90128A192	SCREW, SOCKET HEAD (ALTERNATE)	
or	63216-S-7	SCREW, SOCKET HEAD (ALTERNATE)	

FIGURES/TABLES: See Figure SI M20-104-1 below:

