

THIS SERVICE BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN

SUBJECT: A. M20K, LANDING LIGHT LENS RETROFIT TO ALLOW COOLING AIR TO CIRCULATE THROUGH CAVITY.
B. ADDITION OF SHIELD TO EXHAUST SYSTEM TO DISSIPATE HEAT.

MODELS/ S/N AFFECTED: Part A: M20K S/N 25-0001 thru 25-TBA (Mooney 231 & 252)
Part B: M20K S/N 25-1000 thru 25-TBA (Mooney 252)

TIME OF COMPLIANCE: Within next 10 hours of operation.

INTRODUCTION:
Mooney has improved the airflow in the cowl area immediately above the landing lights. Temperatures can be lowered by the installation of the components described in this Service Bulletin.

INSTRUCTIONS:

1. Remove cowling, upper and lower sections, per Service and Maintenance Manual (S & M).
2. Remove existing landing light lens from front of lower cowling.
3. Inspect engine compartment and cowling exterior and interior for evidence of any heat damage; i.e., charred paint on cowling, charred fiberglass, deteriorated cowl snubbers, deteriorated rubber engine mounts, paint flaking on steel cross-over engine mount, etc. Inspect the single aluminized shield on top of landing light cavity for condition. Repair or replace any damage per Service & Maintenance Manual and Mooney Service Instruction M20-67, 10-12-83 and S.I. M20-79, 9-1-86.
4. When repairs have been completed install new landing light lens, P/N 650213-005, to lower cowling using existing fasteners.
5. Reinstall lower and upper engine cowling per S & M manual.
6. Remove existing landing light lens from front of lower cowling.
7. Inspect engine compartment and cowling exterior and interior for evidence of heat damage, i.e., charred paint on cowling, charred fiberglass, deteriorated cowl snubber - deteriorated rubber engine mounts, paint flaking on steel cross-over engine mount, etc. Inspect the two aluminized shields in the lower cowling,
 - (1) on top of landing light cavity and
 - (2) on the side of cowling near turbocharger location for condition. Repair or replace any damaged component or area per Mooney S & M Manual and Mooney Service Instruction M20-79, dated 9-1-86.
8. Install exhaust shield assy, P/N 630122-501 using (2 ea.) P/N QS100M36S clamps to secure on engine exhaust cross-over manifold, (see Figure No. M20-235-1).
9. When all components have been installed and any repairs completed install new landing light lens, P/N 650172-003, lower cowling using existing fasteners.
10. Reinstall lower and upper engine cowling per S & M Manual.
11. Make appropriate Log Book entry and return aircraft to service.

WARRANTY DATA:

All parts and labor up to 1.0 hours will be credited to the Mooney Marketing or Service Center upon receipt of proper warranty paperwork completed by April 1, 1987.

SERVICE BULLETIN: M20-235
 DATE: 2-20-87

REFERENCE DATA: 1) SI M20-67, 10-12-83
 2) SI M20-79, 9-1-86

PARTS LIST: KIT P/N: SB M20-235-1 (25-0001 thru 25-0889 only)

ITEM	P/N	DESCRIPTION	QTY
1)	650213-005	Landing Light Lens	1

KIT P/N: SB M20-235-2 (25-1000 thru 25-TBA)

ITEM	P/N	DESCRIPTION	QTY
1)	650173-3	Landing Light Lens	1
2)	630122-501	Exhaust Shield Assy	1
3)	QS100M36S	Clamps	2

FIGURES/
 TABLES: See Figure M20-235-1.

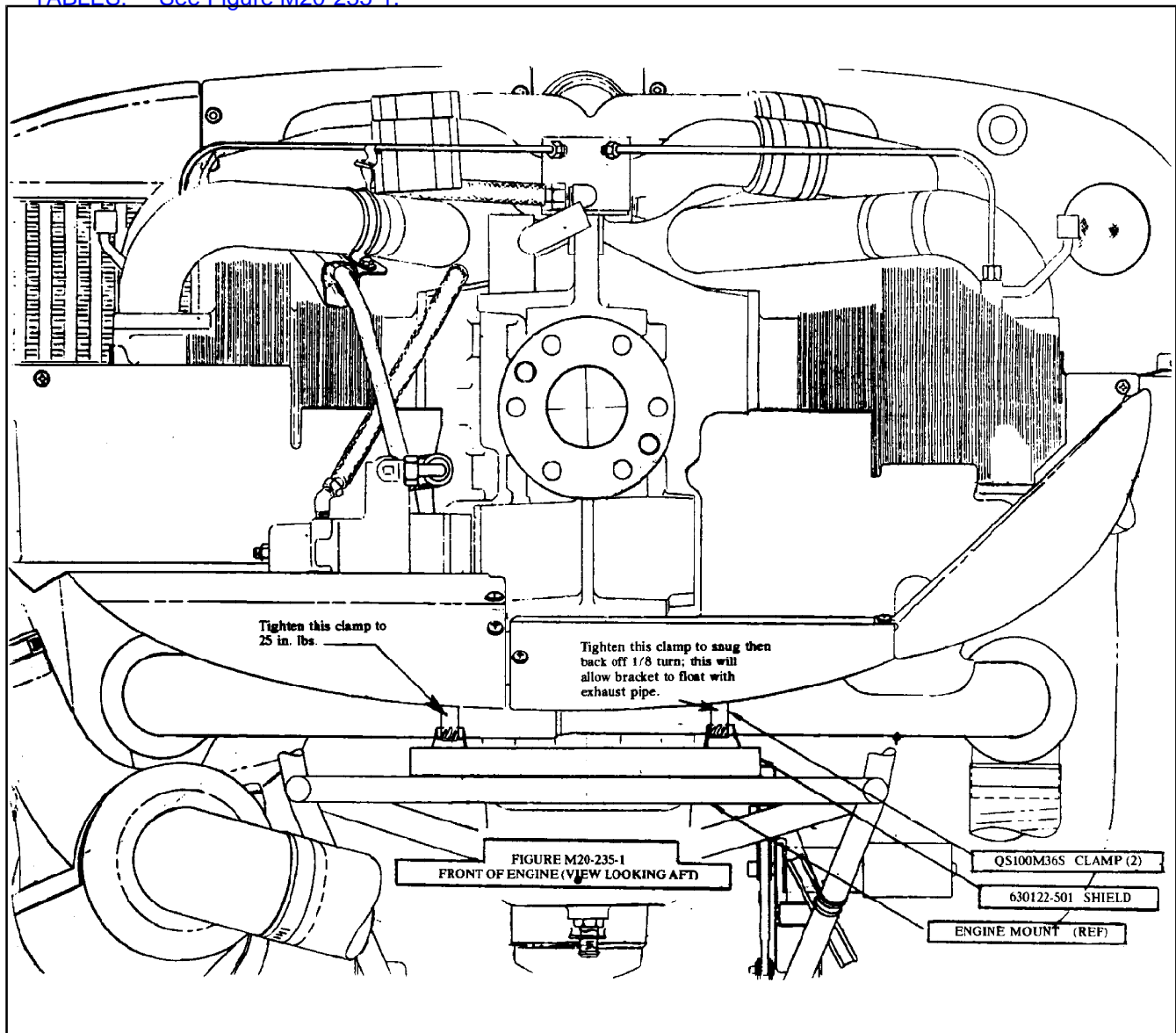


FIGURE SB M235-1