

SUBJECT: MOONEY 24 VOLT AIRCRAFT ELECTRICAL WIRING MODIFICATION,

(Revision A is applicable to M20J and M20K aircraft only and is still in effect for those model aircraft.
 - - Revision B is applicable to M20M only - -).

MODEL/S/N
 AFFECTED: MOONEY MODEL: M20M - S/N 27-0001 THRU 27-0052

TIME OF
 COMPLIANCE: AT NEXT SCHEDULED MAINTENANCE

INTRODUCTION: THE 24 VOLT ELECTRICAL SYSTEM IS WIRED IN A MANNER THAT RENDERS THE OVERVOLTAGE WARNING LIGHT IN THE ANNUNCIATOR PANEL ASSEMBLY INOPERATIVE SHOULD AN ALTERNATOR OVERVOLTAGE OCCUR. THIS S. B. PROVIDES INSTRUCTIONS TO REWIRE A PORTION OF THE CIRCUIT TO ENABLE THIS WARNING LIGHT.

INSTRUCTIONS:

1. Disconnect voltage regulator (for Alternator #1) located under the instrument panel on the co-pilot's side.
2. Locate existing wire number M-PA13A18; push wire out of pin 8 of #1 regulator main harness receptacle.
3. Cut pin from wire, M-PA13A18; cap wire end using AMP 324485 wire cap (included in kit).
4. Remove Glareshield per instructions in the appropriate S & M manual, Section 39-10-01.
5. Insert wire number M-PA13B18 (included in -1B kit) into pin 8 of voltage regulator receptacle and reconnect regulator.
6. Route wire number M-PA13B18 along existing wire bundle to annunciator panel connector (M-WT103A). Secure with lacing cord or Ty-Raps.
7. Locate wire number M-WT02A20 connected to pin 1 of annunciator panel connector, M-WT103A, and cut M-WT02A20 wire approximately 6 inches back from connector.
8. Use AMP 320559 wire splice to re-connect wire number M-WT02A20 and the unconnected end of new wire, M-PA13B18. (SEE FIGURE M20-245-1B).
9. For No. 2 Alternator: repeat Steps 1 through 5 with #2 regulator but on wire numbers M-PA33A18 (Steps 1, 2 & 3) and M-PA33B18 (Step 5). Route unconnected end of wire number M-PA33B18 to vacuum switch on back of Artificial Horizon and connect to "white" terminal.
10. Remove the 1 amp Annunciator C/B and replace with the 2 amp C/B, included in -1B kit.
11. Functionally check operation of alternator(s) per POH/AFM, Section IV, Normal Procedures, Before Takeoff.
12. Enter compliance note in aircraft logbook and return aircraft to service.

WARRANTY: This kit should be ordered from the Mooney Service Center in your area. Normal warranty billing policies will be in affect for this kit. Mooney Aircraft Corporation will allow up to 2.0 hours labor to accomplish this modification if a completed Warranty Claim is received within 180 days from the date of this Service Bulletin.

REFERENCE DATA: N/A

PARTS LIST: KIT P/N - SB-M20-245-1B (M20M only)

ITEM	P/N	DESCRIPTION	QTY
1.	M-PA13B18.	WIRE ASSEMBLY	1
2.	M-PA33B18.	WIRE ASSEMBLY	1
3.	324485.	WIRE CAP (AMP)	2
4.	320559.	WIRE SPLICE (AMP)	1
5.	7277-2-2	C/B, ANNUNCIATOR (2 AMP)	1

FIGURES/
 TABLES:

