

SUBJECT: MOONEY 24 VOLT AIRCRAFT ELECTRICAL WIRING MODIFICATION,
(Revision A modifies basic S.B. instructions).

MODEL/S/N AFFECTED: MOONEY MODELS: M20J - S/N 24-3000 THRU 24-3122
M20K - S/N 25-1000 THRU 25-1213

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 VR-802 voltage regulator (for Alternator #1) located under the instrument panel on the co-pilot's side.
2. Locate existing wire number JK-PA12A18; push wire out of pin 8 of #1 regulator main harness receptacle.
3. Cut pin from wire, JK-PA12A18; 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 JK-PA12B18 (included in kit) into pin 8 of voltage regulator receptacle and reconnect regulator.
6. Route wire number JK-PA12B18 along existing wire bundle to annunciator panel connector (JK-WT104A). Secure with lacing cord or Ty-Raps.
7. Locate wire number JK-WT02A22 connected to pin 1 of annunciator panel connector, JK-WT104A, and cut JK-WT02A22 wire approximately 6 inches back from connector.
8. Use AMP 320559 wire splice to re-connect wire number JK-WT02A22 and the unconnected end of new wire JK-PA12B18 (SEE FIGURE M20-245-1).
9. If **Dual Alternators** are installed, repeat Steps 1 through 5 with #2 regulator but on wire numbers JK-PA30A18 (Steps 1, 2 & 3) and JK-PA30C18 (Step 5). Route unconnected end of wire number JK-PA30C18 to vacuum switch on back of Artificial Horizon and connect to "white" terminal.
10. Remove the 1 amp Annunciator C/B and replace with a 2 amp C/B, included in Rev. A 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 1 year from the date of this Service Bulletin.

REFERENCE DATA: N/A

PARTS LIST: KIT P/N - SB-M20-245-1A (M20J & M20K only)

ITEM	P/N	DESCRIPTION	QTY
1.	JK-PA12B18	WIRE ASSEMBLY	1
2.	JK-PA30C18	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:

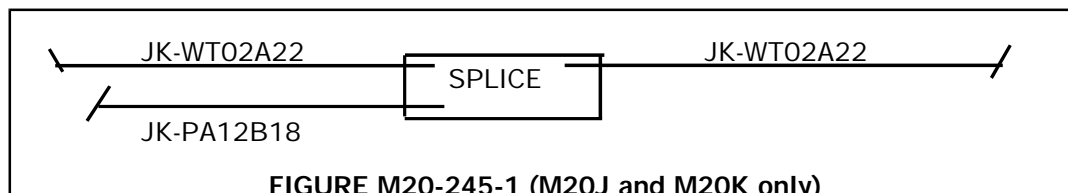


FIGURE M20-245-1 (M20J and M20K only)