

- THIS SERVICE BULLETIN IS APPROVED FOR ENGINEERING DESIGN -

SUBJECT: Mooney M20J and M20K 28 volt aircraft, addition of second ground wire to voltage regulator(s). Revision A is to correct a transposition of wire numbers in the steps below.

MODELS/S/N

AFFECTED: M20J S/N 24-3000 thru 24-3129 and M20K S/N 25-1000 thru 25-1216

TIME OF

COMPLIANCE: At next scheduled maintenance action.

INTRODUCTION:

A broken alternator field ground wire may cause improper control of alternator output by the voltage regulator. To prevent this it is recommended that an additional ground be added to the wire harness close to the voltage regulator(s).

INSTRUCTIONS:

1. Locate voltage regulator(s), co-pilot side of center console and forward of instrument panel face .
2. Cut nylon cable ties to allow working accessibility to voltage regulator connector(s).
3. Locate ground wire, pin 9, wire number JK-PA14A18 (and pin 9, wire number JK-PA32A18 (on other voltage regulator) on M20K aircraft with dual alternators).
4. Cut wire number JK-PA14A18 approximately 4 inches from connector and strip ends. Splice back together with wire number JK-PA14B18 added to splice (routed away from connector) as shown in Figure SB M20-247-1. Repeat this procedure on second regulator with wire numbers JK-PA32A18 and JK-PA32B18 on M20K aircraft with dual alternators.
5. Clean paint from around hole in end of control cable support bracket and connect ground wire(s) to bracket using AN3-4A bolt, AN960-10 washers (2) and MS21045-L3, self locking nut.
6. Re-secure regulator wires with nylon cable ties.
7. Check alternators for proper operation per POH/AFM and/or Service and Maintenance manual.
8. Enter compliance note into aircraft logbook and return aircraft to service.

WARRANTY: Order repair parts kit through any current Mooney Service Center. Mooney Aircraft Corporation will allow up to 0.75 hours labor (1.0 hour labor on dual alternator aircraft) to accomplish this SB if warranty claim is received within 180 days from issue date of this bulletin.

REFERENCE

DATA: N/A

PARTS LIST: KIT P/N — SBM20-247-1

ITEM	P/N	DESCRIPTION	QTY
1.	JK-PA14B18	WIRE ASSEMBLY	1
2.	JK-PA32B18	WIRE ASSEMBLY	1
3.	AN3-4A	BOLT	1
4.	MS21045-L3	NUT.	1
5.	AN960-10	WASHER	2

FIGURE/  
TABLES: SEE BELOW

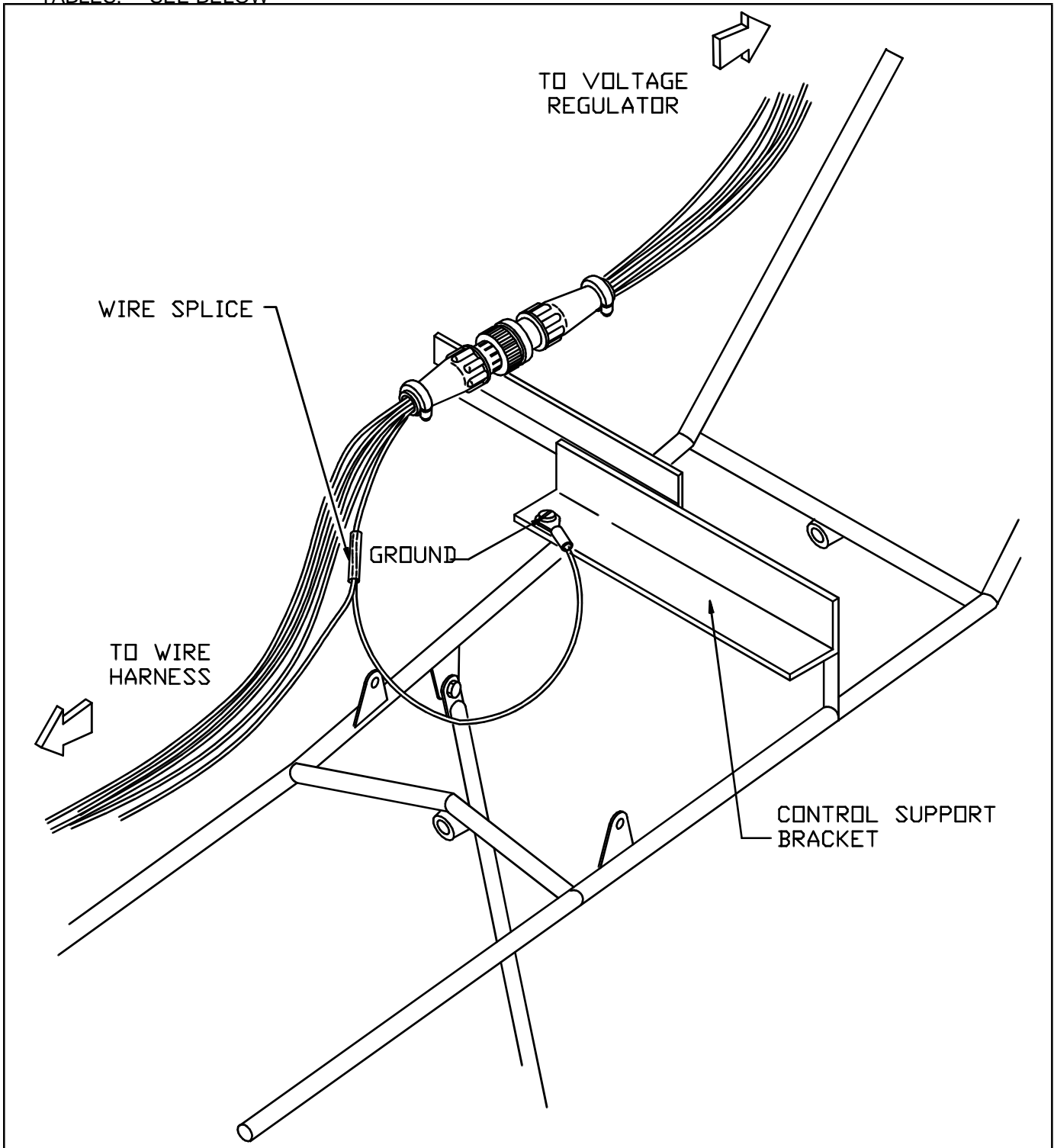


FIGURE SBM20-247-1