



Louis Schreiner Field  
Kerrville, Texas 78028

### THIS BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN

SERVICE BULLETIN M20-297

Date: June 14, 2007

**SUBJECT:** Charging system diode removal on BATT #1 wire.

**MODELS/ SN** **M20R:** 29-0475 thru 29-TBA

**AFFECTED:** **M20TN:** 31-0001 thru 31-TBA

**TIME OF COMPLIANCE:** AT NEXT SCHEDULED ANNUAL INSPECTION, BUT WITHIN NEXT 100 FLIGHT HOURS.

**INTRODUCTION:** The charging system has been revised to remove the specified diode in this Service Bulletin according to Mooney Engineering Group. The removed diode will allow the charging system to correctly trickle charge BATT #1 when BATT #2 is selected.

**INSTRUCTIONS:** **Read entire procedures before beginning work.**

- 1-1. Turn master switch - OFF.
- 1-2. Remove LH Tailcone access panel.
- 1-3. Locate Master Relay #1, remove necessary cable ties to access diode on wire #PB28D18 (approx 3-4" between relay and BATT #1 inline fuse connector) (ref. Figure SB M20-297-1).
- 1-4. Cut and remove diode (ref. Figure SB M20-297-1).
- 1-5. Crimp Butt Splice (P/N D-436-37) to wire, use a heat gun to shrink butt splice to wire (heat shrink tubing is not necessary). Install Cable Ties as required to stow and secure wire (ref. Figure SB M20-297-2).
- 1-6. Turn master switch - ON.
- 1-7. Verify proper operation of electrical equipment and charging system (also refer to Chapter 24 MAC Service & Maintenance Manual).
- 1-8. Complete log book entry for procedure.
- 1-9. Return aircraft to service.

**WARRANTY:** Mooney Airplane Company, Inc. will warrant labor (approximately 1/2 hour), when done in accordance with the procedures of this Service Bulletin for aircraft currently covered under the Mooney Airplane Company, Inc. factory warranty program.

**REFERENCE**

**DATA:** MAC Service & Maintenance Manual (applicable A/C)

**PARTS LIST:** Mooney Airplane Company, Inc., Parts Kit: M20-297-001

<u>Item</u>	<u>P/N</u>	<u>Description</u>	<u>Qty</u>
1.	D-436-37	Butt Splice (Blue)	1
2.	T50R9M4	Cable Ties	4

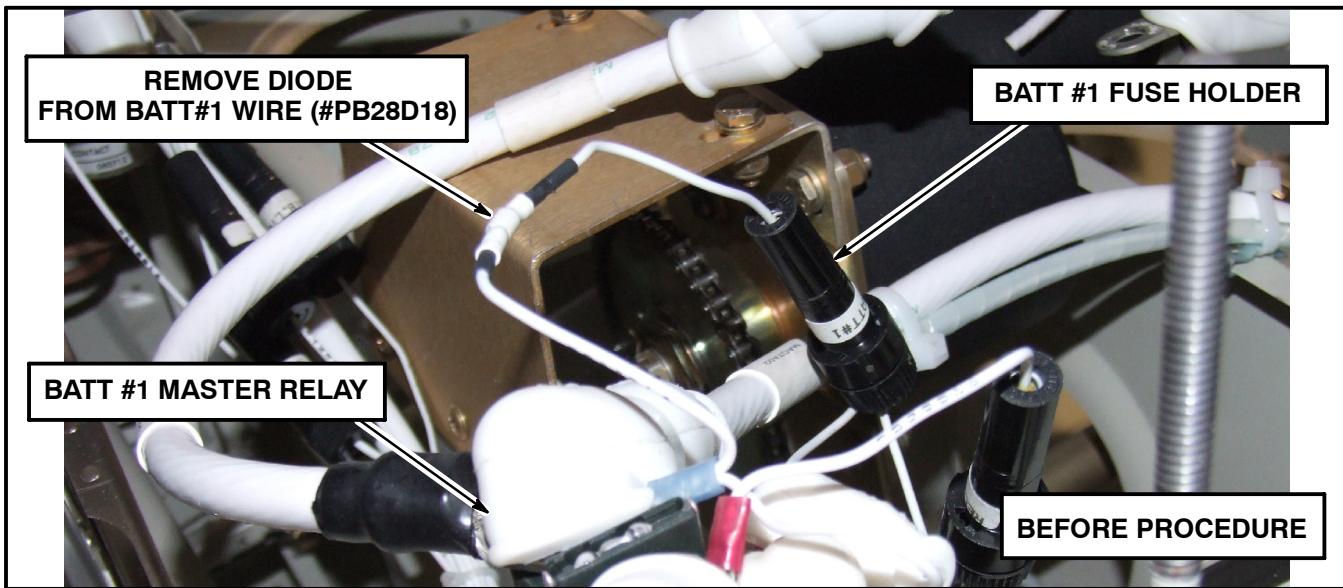


Figure SB M20-297-1 - REMOVE DIODE

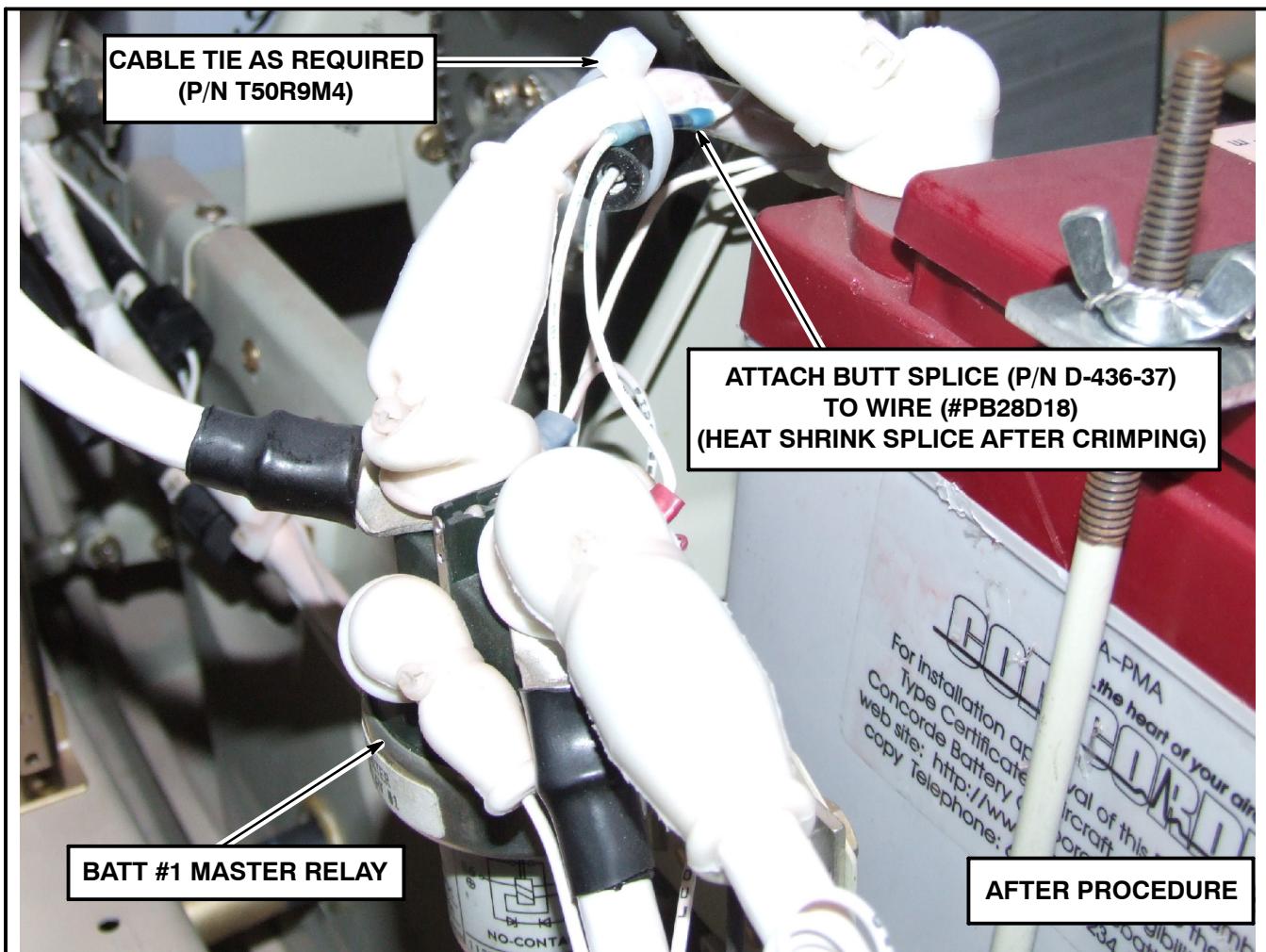


Figure SB M20-297-2 - INSTALL BUTT SPLICE AND STOW WIRE