



THIS BULLETIN DOES NOT CHANGE AIRCRAFT TYPE DESIGN

SUBJECT: M20V ALTERNATOR WIRING, MOUNTING AND SECURITY
[Chapter 24 - ELECTRICAL POWER]

MODELS/ SN Mooney M20V - 33-0001 THRU 33-0018
AFFECTED:

TIME OF **Before Next Flight**
COMPLIANCE:

INTRODUCTION: There was a report in the field, of an M20V Acclaim Ultra with an alternator wire damaged on the RH exhaust crossover tube. Mooney Engineering has determined the wire was incorrectly positioned. This allowed the wire to contact the RH exhaust crossover tube causing a short circuit to the alternator. This resulted in damage to the wire and crossover tube. This requires mandatory compliance by owners. **The attached compliance card needs to be filled out and returned to Mooney International Corporation upon completion of this Service Bulletin M20- 340A.**

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

- 1.1. Turn master switch - OFF.
- 1.2. Remove top and bottom cowling, refer to Mooney Service and Maintenance Manual.
- 1.3. Locate upper alternator wire (refer to Figure SBM20-340-1). Inspect wire for any signs of damage; chafing, cracks in shielding, burnt spots, etc., if wire is damaged, contact MOONEY TECHNICAL SUPPORT support@mooney.com for a replacement wire.
- 1.4. Locate RH exhaust crossover tube. Inspect for damage; holes, cracks, etc., if damaged contact MOONEY TECHNICAL SUPPORT support@mooney.com for a replacement crossover tube, refer to Figure SBM20-340-1.
- 1.5. From RH engine mount mounting boss, measure along engine mount tube approx 16" to locate DG clamps mounting alternator field sensor wires to engine mount, refer to Figure SBM20-340-2.
- 1.6. Remove (1 qty) mounting bolt AN3-5A, (1 qty) NAS1149F0363P Washer, (1 qty) MS21045L3 Nut, connecting the large and small DG clamps together, refer to Figure SBM20-340-3.
- 1.7. Insert alternator wire into new MS21912WCJ6 Clamp, mount to existing DG clamps with new hardware; (1 qty) AN3-6A Bolt, (1 qty) NAS1149F0363P Washer, (1 qty) MS21045L3 Nut, stack clamps as shown in Figure SBM20-340-3.
- 1.8. Tighten stacked clamp assembly together and torque to 20-25 In. Lbs. Make sure slack in alternator wire stays taut along engine mount and keep minimum clamp height clearance as shown in Figure SBM20-340-3.
- 1.9. Install top and bottom cowling, refer to Mooney Service and Maintenance Manual.

NOTE:

Fill out compliance card and send by MAIL or FAX to Mooney International Corporation as indicated on the attached Compliance Card.

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- 1.10. Return aircraft to service.
- 1.11. Procedure complete.

WARRANTY: Mooney International Corporation, will warrant labor 1 hour when corrective action is done in accordance with procedures of this Service Bulletin for aircraft currently covered under the Mooney International Corporation factory warranty program.

REFERENCE DATA: 1. Mooney M20V Service and Maintenance Manual

PARTS LIST: Mooney International Corporation, Service Bulletin Parts Kit(s): Not Ordered As Kit
Order parts as required below (Standard Shop Supplies):

<u>Item</u>	<u>P/N</u>	<u>Description</u>	<u>Qty</u>
1.	MS21912WCJ6	CLAMP	1
2.	AN3-6A	BOLT	1
3.	NAS1149F0363P	WASHER	1
4.	MS21045L3	NUT	1



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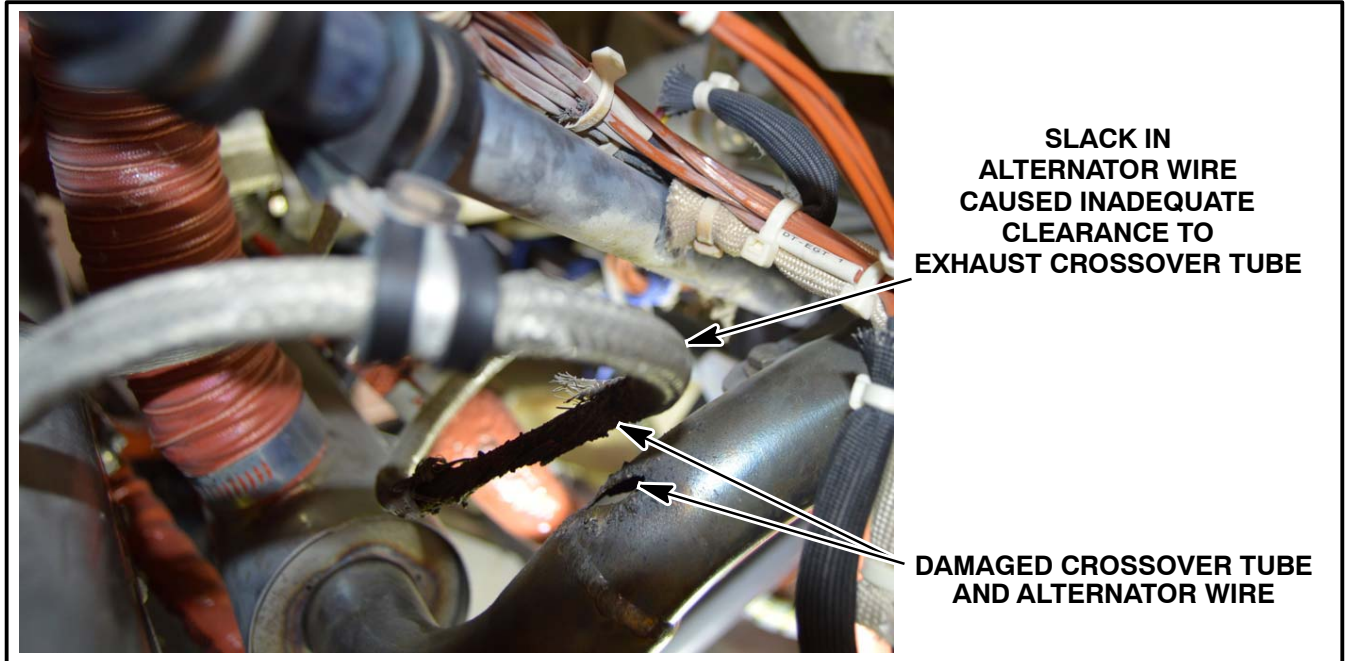


Figure SB M20-340-1 - EXISTING ALTERNATOR WIRE ROUTING

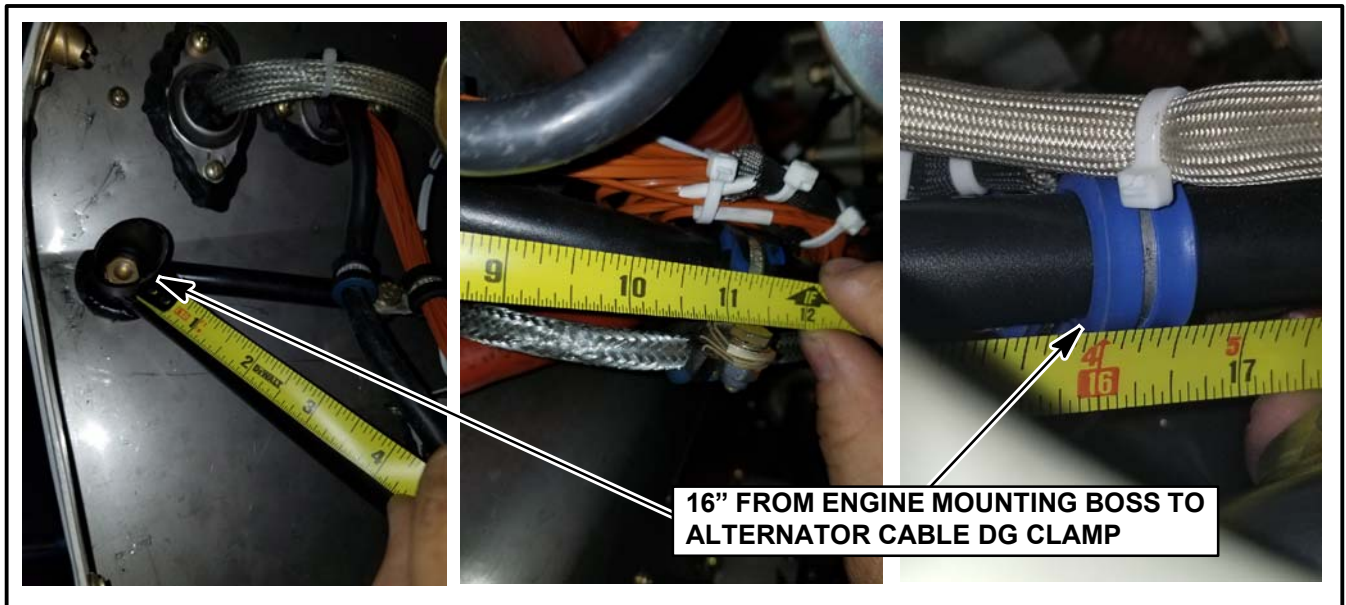
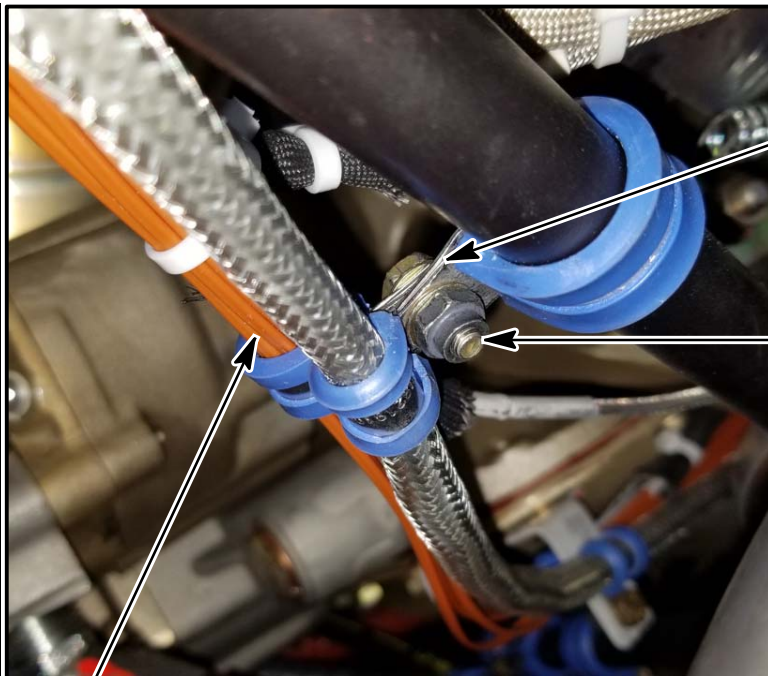


Figure SB M20-340-2 - ALTERNATOR WIRE ROUTING LOCATION (RH ENGINE MOUNT)



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REF:
STACK CLAMPS AS SHOWN

AN3-6A BOLT (1 QTY)
NAS1149F0363P WASHER (1 QTY)
MS21912WCJ6 CLAMP (1 QTY)
MS21045L3 NUT (1 QTY)
(TORQUE TO 20-25 In. Lbs)

NOTE:
KEEP ALTERNATOR WIRE TAUT
WHILE CLAMP IS TORQUED.

REF:
ALTERNATOR FIELD SENSOR
WIRES

CAUTION:
ALLOW MINIMUM 2" SPACE
BETWEEN EXHAUST TUBE
AND MS21912WCJ6 CLAMP



Figure SB M20-340-3 - NEW ALTERNATOR WIRE MOUNTING



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MOONEY INTERNATIONAL CORPORATION
KERRVILLE, TEXAS 78028 - FAX 830-257-4635

SERVICE (BULLETIN) (INSTRUCTION) NO. _____ HAS BEEN COMPLIED
WITH ON AIRCRAFT MODEL _____ SERIAL NUMBER _____

Tach. Time: _____ N-Number _____ (Reg. No.)
Owner: _____ Date of Compliance: _____
_____ Complied By: _____

Inspection Report: _____

Form 07-0001

PLACE
STAMP
HERE

MOONEY INTERNATIONAL CORPORATION
ATT'N: TECHNICAL SUPPORT
165 Al Mooney Road North
Kerrville, Texas 78028

SEND ALL COMPLIANCE CARDS TO:
Mooney International Corporation ATTN:Tech Pubs Dept.
165 Al Mooney Road North
Kerrville, TX 78028
FAX: (830) 257-4635 or EMAIL TO: techpubs@mooney.com

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<https://www.mooney.com/service>
or email a request to: techpubs@mooney.com