



**Service Information Letter**

**Doc No. LSI-008**

Issued 02/25/04

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Rev. B

**SUBJECT: Service Information for Master Control Unit, Part Number MC01-XXXXX. Removal/Replacement of AC2101 Alternator Control Module**

**PURPOSE:**

To provide instructions for removal and replacement of the AC2101 Alternator Control Module on MC01 Master Control Units (MCU).

**EFFECTIVITY:**

This service information letter is applicable to all Master Control Units Part Number MC01-XXXXX (any model of the MC01), containing AC2101 modules falling between the serial numbers 195601 to 205400.

**REASON:**

To prevent the occurrence of alternator field circuit breaker tripping during engine start.

**DESCRIPTION:**

The following instructions detail the procedure to remove and install the AC2101 Alternator Control Unit on the MC01.

**PARTS REQUIRED:**

Part No.	Description	Qty
AC2101	Alternator Control Unit Revision I.C. 4 or above	1
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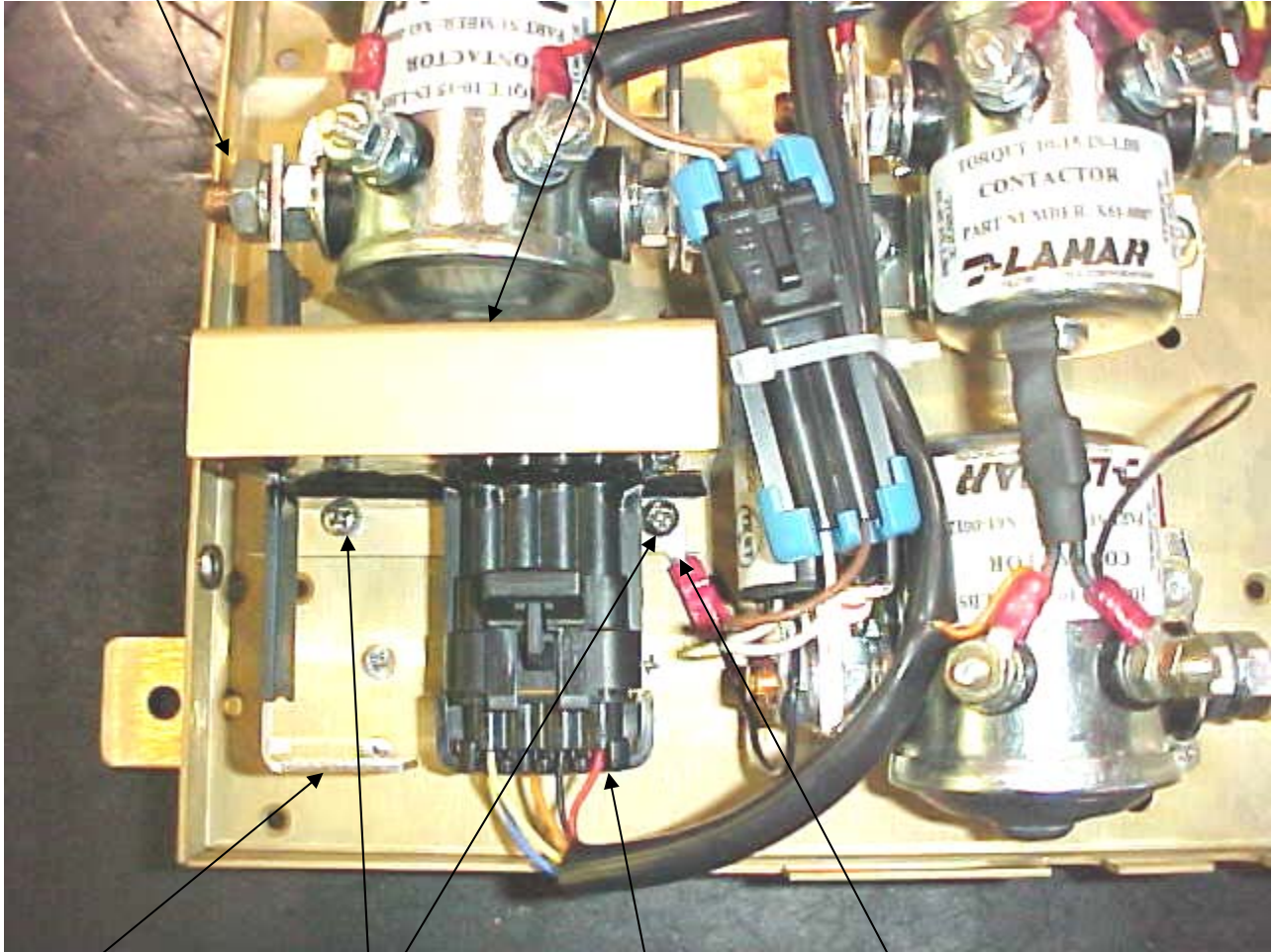
**PROCEDURE:**

Note: The following procedure can be accomplished with the MCU mounted on the aircraft, or with the MCU removed.

- 1.) Remove cover from MCU.
- 2.) Inspect the label on the alternator control module (A). If the part number on the module is AC2101 and the serial number of the module falls between 195601 and 205400, it should be replaced with a new AC2101, revision I.C. 4 or above, per this procedure. If the part number is AC2100 or the serial number falls outside this range, no upgrade is necessary.
- 3.) If MCU is on aircraft, disconnect the alternator power cable from the AC2101 bus bar by removing the nut and bolt (B).
- 4.) Disconnect the cable plug from the AC2101 (C). The plug latch must be lifted to disengage.
- 5.) Remove the nut and washer securing the AC2101 bus bar to the alternator contactor (D).
- 6.) Loosen and remove the two screws securing the AC2101 to the base (E).
- 7.) Remove the AC2101 from the MCU
- 8.) Install new AC2101 (revision I.C. 4 or above) over the alternator contactor post and onto MCU base.
- 9.) Install two screws to secure AC2101 to base (E). Assure that ground wire lug is under one screw (F). Tighten screws to 12 in-lb.
- 10.) Install nut and lock washer securing AC2101 bus bar to alternator contactor (D). Tighten nut to 35 – 45 in-lb.
- 11.) Reconnect the cable plug to the AC2101 connector (C). Assure plug is fully seated by observing latch engagement.
- 12.) If MCU is on aircraft, reconnect the alternator power cable to the AC2101 bus bar (B) with nut, bolt and washer. Tighten nut to 35-45 in-lb.
- 13.) Replace the cover on the MCU and secure in place with the screws.
- 14.) Assure that aircraft log book entry is made identifying that MCU has been upgraded per this procedure.

(D) Alternator  
contactor connection

(A) AC2101 label  
(back side)



(B) Alternator  
cable connection

(E) AC2101  
base screws

(C) Cable plug

(F) Ground  
wire lug