

Make(s): GALLERIA

Model(s): AGM BATTERY MODELS/NON Li3

Model Year(s): 2018 - 2024

Concern

In the event the battery boost wire shorts, or fails, it may shut down or damage the power steering of the vehicle. This condition may lead to a crash.

Repair Code: RC-093-09-00-004514

Allotted Time: 1.50 HRS. Inspection Code: N/A Allotted Time: N/A

Photo(s) Required: YES, POST REMEDY Prior Authorization Required: YES Part(s) Kit Number: F100503422

Part(s) Return: N/A

Turn off LP Gas at LPG Tank(s). Disconnect the vehicles' battery Positive and Negative, disconnect any House battery(s) Positive and Negative, if equipped with a generator ensure it is off and lastly, ensure the vehicle is disconnected from shore power. Block any tires/wheels to prevent the vehicle from rolling. Failure to do so may result in electrocution, fire or other personal injury, property damage and/or death.

### (AGM ONLY) - REMOVE BIM 160 - INSTALL REDARC 1240

PARTS NEEDED: BELL CAPS, (x2) 5/16 TERMINAL STUD, P-CLAMPS, ELECTRICAL TAPE, ZIP TIES & REDARC 1240

TOOLS NEEDED: SCREW GUN, WIRE STRIPPERS AND CRIMPERS, HEAT GUN, 9/16" & 11/16" SOCKETS

STEP 1: LOCATE AND ACCESS BIM 160 IN MAIN ELECTRICAL COMPARTMENT (FIGURE 1);

STEP 2: REMOVE ANY ZIP TIES RESTRICTING REMOVAL OF BIM 160;

STEP 3: USING A 1/2" SOCKET DISCONNECT THE RED 6 AWG CABLE AND IN-LINE FUSE HOLDERS FROM BATTERY A TERMINAL ON BIM 160

(FIGURE 2);

STEP 4: CONNECT *RED* 6 AWG AND IN-LINE FUSE HOLDERS TO HOUSE 5/16 TERMINAL STUD (FIGURE 3); 4A. SECURELY MOUNT HOUSE 5/16" TERMINAL STUD;

STEP 5: USING A 1/2" SOCKET REMOVE THE RED 2 AWG CABLE ON BATTERY B SIDE OF BIM 160 ((FIGURE 4);

STEP 6: CUT / DISCONNECT BIM 160 *GREY* 16 AWG WIRE - (CAP OFF *GREY* WIRE) (FIGURE 5); 6A. CUT / DISCONNECT BIM 160 *WHITE* 16 AWG WIRE - (CAP OFF *WHITE* WIRE) (FIGURE 6); 6B. CUT / DISCONNECT BIM 160 *RED* 16 AWG WIRE;

STEP 7: MOUNT THE REDARC CHARGER ONTO COMPONENT BOARD;

STEP 8: INSTALL (BROWN) 8 AWG TO THE HOT BUSS BAR OR HOT TERMINAL STUD

STEP 9: SECURELY MOUNT CHASSIS 5/16" TERMINAL STUD (FIGURE 7);

9A. INSTALL (RED) 8 AWG AND THE (RED) 2 AWG FROM BIM160 TO CHASSIS TERMINAL STUD TORQUE TO 90 IN-LBS;

9B. CONNECT (BLUE) 18 AWG WIRE TO BIM 160 RED 16 AWG WIRE (FIGURE 8);

9C. CAP OFF REMAINING (ORANGE) 18AWG WIRE AND (GREEN) 18AWG WIRES ON REDARC (FIGURE 9);

9D. CONNECT BLACK 8 AWG WIRE FROM REDARC TO THE GROUND BUSS BAR (FIGURE 10);

STEP 10: USING ELECTRICAL TAPE AND ZIP TIES RESECURE ANY REMAINING LOOSE WIRES (FIGURE 11);



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FIGURE 4



FIGURE 5



FIGURE 6



FIGURE 7





FIGURE 10



FIGURE 11



FIGURE 9



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#### (AGM ONLY) CHARGE CABLE TO DIRECT BATTERY HOOK UP

PARTS NEEDED: RED 8 AWG CABLE A, RED 8AWG CABLE B, MIDI 60A FUSE AND HOLDER, P-CLAMPS, ELECTRICAL TAP, ZIP TIES & 4
NEW SEAT BOLTS

TOOLS NEEDED: SCREW GUN, 9/16" SOCKET, 10MM SOCKET, 11/16 SOCKET, E11 SOCKET, 6" EXTENSION, T25 BIT, T30 BIT

#### **IMPORTANT NOTES:**

- 1. TO AVOID AIRBAG CODES THE GROUND ON THE CHASSIS BATTERY MUST BE DISCONNECTED BEFORE THE DRIVER CHAIR IS REMOVED;
- 2. BE SURE COACH WORK AREAS CAN BE SAFELY ACCESSED INSIDE AND UNDERNEATH DURING WORK PROGRESSION;
- 3. DO NOT REMOVE OR DISTURB ANY WIRING, SECUREMENT, OR COMPONENTS NOT MENTIONED IN THESE INSTRUCTIONS

### **REMOVE BATTERY GROUND AND CHAIR**

- STEP 1: LOCATE THE CHASSIS BATTERY UNDER THE DRIVER FLOOR PANEL;
  - 1A. REMOVE DRIVER STEP WELL PANEL USING T25 BIT (FIGURE 1);
- 1B. REMOVE FLOOR MATS TO ACCESS THE CHASSIS BATTERY COVER PLATE, THEN REMOVE THE PLATE USING THE T30 BIT (FIGURE 2);
  - 1C. REMOVE GROUND FROM CHASSIS BATTERY WITH 10MM (FIGURE 3);
- STEP 2: REMOVE DRIVER CHAIR (4 BOLTS, 1 AT EACH CORNER) USING E11 (ROTATE CHAIR FOR BETTER ACCESS TO BOLTS) (FIGURE 4):
  - 2A. REMOVE BOTH HARNESS PLUGS CONNECTION TO CHAIR (FIGURE 5);
  - 2B. REMOVE CHAIR FROM VEHICLE (MAY REQUIRE SECOND PERSON);
- STEP 3: REMOVE BOTH 10MM NUTS RETAINING THE COMPONENT HOUSING BRACKET IN THE SEAT PEDESTAL (FIGURE 6);
  - 3A. TAKE *RED* 8AWG CABLE "A" AND ROUTE THROUGH FLOOR ACCESS IN THE SEAT PEDESTAL TO THE UNDER-CARRIAGE (FIGURE 7);
  - 3B. (IF NEEDED) CUT ZIP TIE ON BLACK RUBBER BOOT UNDERCARRIAGE FOR BETTER WIRE CLEARANCE:
- STEP 4: LOCATE AND ACCESS 150 AMP BREAKER (FRONT DRIVER SIDE UNDER CARRIAGE OF UNIT) (FIGURE 8);
- STEP 5: REMOVE THE RED 2 AWG CABLE CONNECTED TO THE "BATTERY" SIDE OF THE BREAKER USING A 9/16" SOCKET (FIGURE 9);
  - 5A. REMOVE ANY ZIP TIES OR CLAMPS RESTRICTING THE REMOVAL OF THE RED 2AWG CABLE
  - 5B. REMOVE *RED* 2 AWG CABLE FROM POST, LEAVING OEM WIRING UNDISTURBED THEN TORQUE TO 141.62 IN-LBS (FIGURE 10);
- STEP 6: INSTALL RED 8 AWG CABLE "A" TO "BATTERY" TERMINAL ON 150 A BREAKER TORQUE TO 80 IN-LBS. (FIGURE 11);
- STEP 7: SECURE ANY DISTURBED WIRING UNDER THE CHASSIS AND PLACE A ZIP TIE ON THE RUBBER BOOT;
- STEP 8: INSIDE THE SEAT PEDESTAL CONTINUE ROUTING *RED* 8AWG CABLE "A" THROUGH WIRE CHANNEL TO THE CHASSIS BATTERY BOX (FIGURE 12);
- STEP 9: INSTALL MIDI FUSE HOLDER IN BATTERY BOX (FIGURE 13);
  - 9A. INSTALL RED 8 AWG CABLE "B" TO BUSS BAR LUG ON CHASSIS BATTERY (FIGURE 14);
  - 9B. INSTALL RED 8 AWG CABLE "B" TO MIDI FUSE HOLDER TERMINAL;
  - 9C. INSTALL RED 8 AWG CABLE "A" TO MIDI FUSE HOLDER TERMINAL;
  - 9D. INSTALL 60 AMP MIDI FUSE TO FUSE HOLDER AND TORQUE EACH POST TO 40 IN-LBS.;



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### RE-INSTALL THE DRIVER SEAT BEFORE PLACING THE GROUND BACK ONTO THE BATTERY

STEP 10: ORGANIZE WIRING AND ALIGN COMPONENT HOUSING BRACKET MOUNTING HOLES ONTO STUDS;

STEP 11: RE-INSTALL THE COMPONENT BRACKET USING BOTH 10MM NUTS AND PLACE THE COVER OVER THE SEAT PEDESTAL (FIGURE 15);

STEP 12: PLACE CHAIR ONTO SEAT PEDESTAL AND ROUTE SEAT HARNESS THROUGH CENTER OF SEAT SWIVEL TO AVOID ANY MOVING PARTS (FIGURE 16);

12A. RE-CONNECT SEAT HARNESS PLUGS BACK INTO CORRECT LOCATIONS AND ENSURE A FIRM CONNECTION IS MADE (FIGURE 17);

12B: ALIGN SEAT MOUNTING HOLES WITH SEAT PEDESTAL, USE ALL 4 NEW SEAT BOLTS AND HAND TIGHTEN ALL 4 SEAT PEDESTAL BOLTS BEFORE TORQUING ALL 4 BOLTS TO 27.3 FT-LBS.;

STEP 13: RECONNECT THE GROUND TO THE CHASSIS BATTERY USING 10 MM SOCKET (FIGURE 18)

STEP 14: RE-INSTALL BATTERY COVER (T30), FLOORMATS, AND TRIM COVER (T25) TO ORIGINAL POSITION;



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FIGURE 1



FIGURE 2 FIGURE 3





FIGURE 4



FIGURE 5



FIGURE 6



FIGURE 7

FIGURE 8

FIGURE 9

FIGURE 10



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FIGURE 13



FIGURE 14



FIGURE 15



FIGURE 16



FIGURE 17 FIGURE 18



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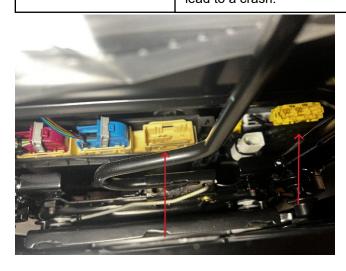
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### **EMERGENCY/BOOST SWITCH REMOVAL PROCEDURE**

PARTS NEEDED: SNAP-IN PLUG & BELL CAPS

TOOLS NEEDED: WIRE STRIPPERS AND CRIMPERS, PRY TOOL & ELECTRICAL TAPE

STEP 1: LOCATE AND ACCESS BOOSTER SWITCH (FRONT DRIVER DASH) (FIGURE 1);

STEP 2: USING THE PRY TOOL, PULL THE SWITCH OUT FROM THE DASH AND DISCONNECT THE SWITCH FROM THE GREY 16 AWG WIRES (FIGURE 2);

STEP 3: CAP OFF BOTH GREY 16 AWG WIRES AND TAPE TOGETHER (FIGURE 3);

STEP 4: TUCK WIRES INTO THE DASH AND INSERT THE SNAP-IN PLUG (FIGURE 4);

STEP 5: REMOVE EMERGENCY START LABEL (FIGURE 5);

STEP 6: UPON WORK COMPLETION, RECONNECT ANY GROUNDS REMOVED AND VERIFY FUNCTIONALITY OF SYSTEMS;

STEP 7: CLAIM REPAIR CODE.





FIGURE 2

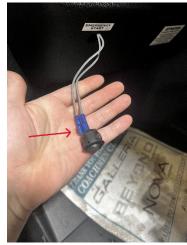


FIGURE 3

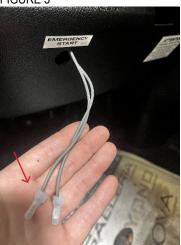


FIGURE 4 FIGURE 5



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