



# INSTRUCTION TO SERVICE

ITS61307		May 13, 2025
<b>SECTION:</b>	292-Electrical Harnesses	
<b>SUBJECT:</b>	Battery Compartment Fuse Rework- D Model	
<b>ISSUE:</b>	The mini fuses in the battery compartment for the condenser may not be enough for certain load conditions and could damage the fuses	
<b>SUMMARY:</b>	This bulletin outlines steps to replace the existing harness with mini fuses to a more robust design and heavier duty fuses	

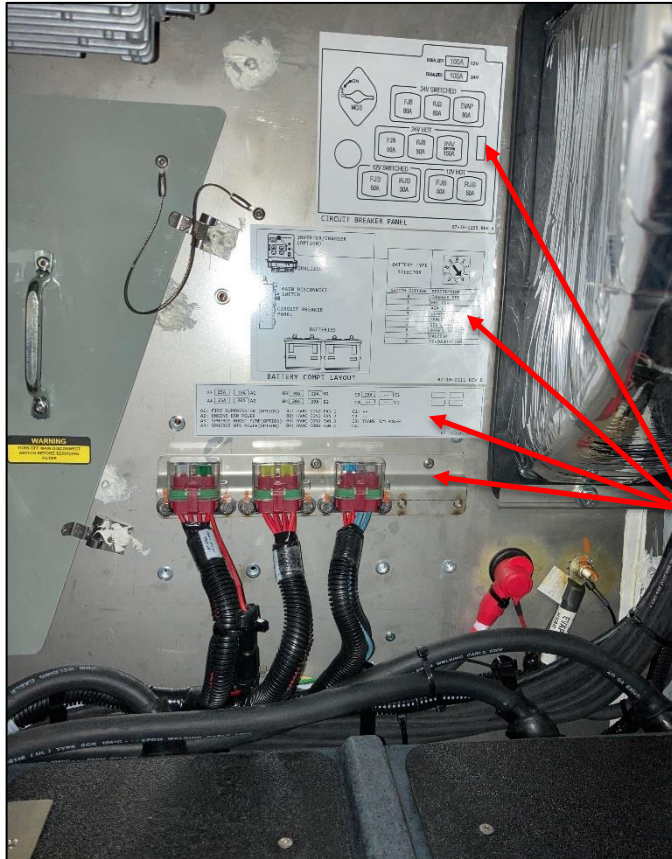
# ITS61307

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

**THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.**

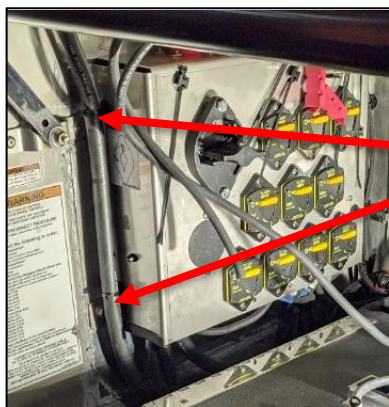
**PROCEDURE:**

1. Set park brake and chock wheels.
2. Turn the main battery disconnect switch to the "OFF" position.
3. Remove and discard the fuse layout decals, and VEC fuse bracket.



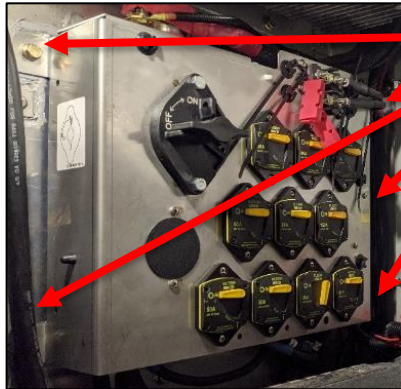
Remove and discard the decal and bracket

4. Cut the zip ties securing the ground cable.



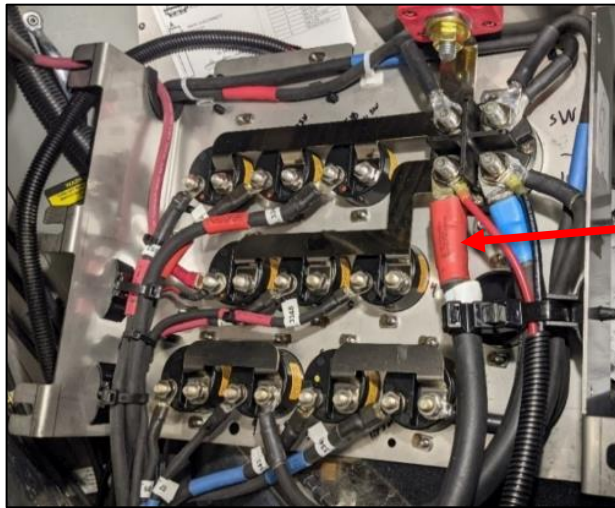
Cut ground cable tyrap

5. Remove and save the five screws securing the circuit breaker assembly.



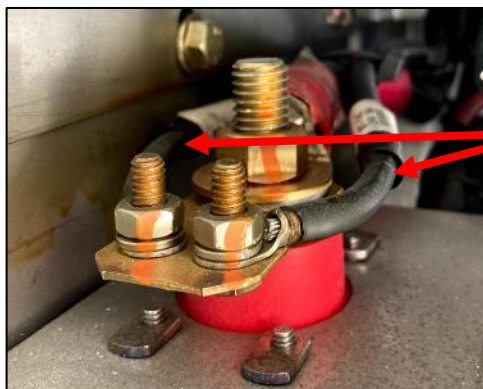
Remove and save screws  
securing the CB assembly

6. Remove and discard the fuse block harnesses connected to 24V Hot stud behind the MDS.



Remove and discard 24V  
fuse block harness

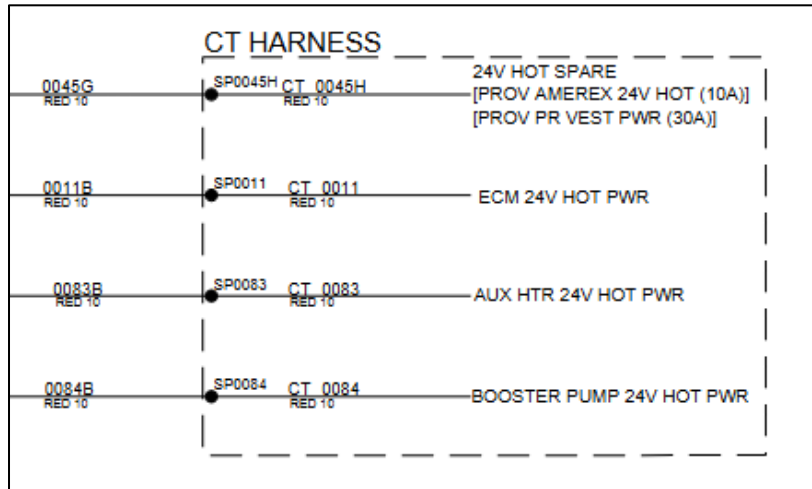
7. Install 24V Hot jumper harness (PN: 1108662) to the 24V Hot stud and torque the nut to 150 In-Lbs.  
8. Remove and discard the 24V SW harness connected to the EC Power Busbar.



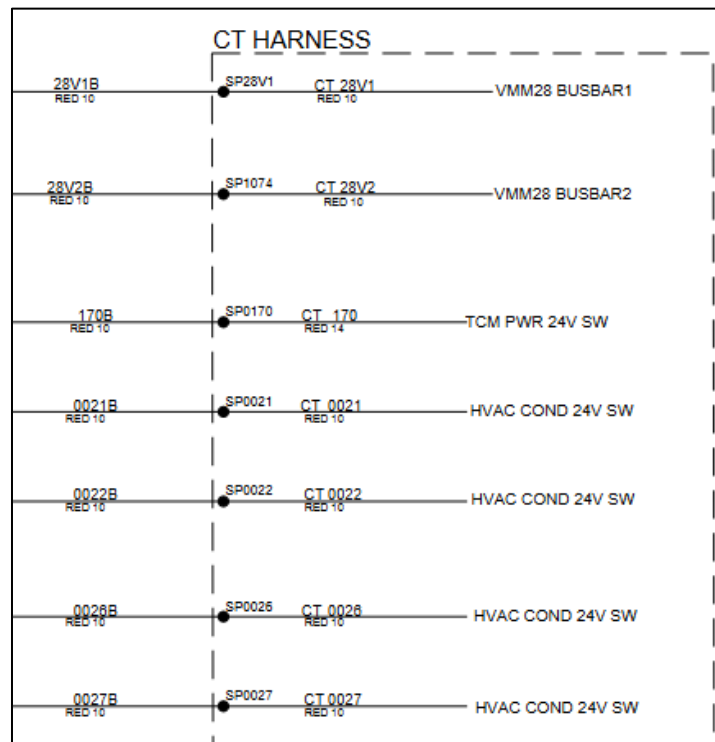
Remove and discard  
24V SW harness

9. Install 24V SW jumper harness (PN: 1108652), & 24V SW VMM28 jumper harness (PN: 1114268), to the EC power busbar and torque to 65 In-Lbs.

10. Using splice, solder and heat shrink, splice wire IDs as shown below between spliced wires and 24V HOT jumper harness.



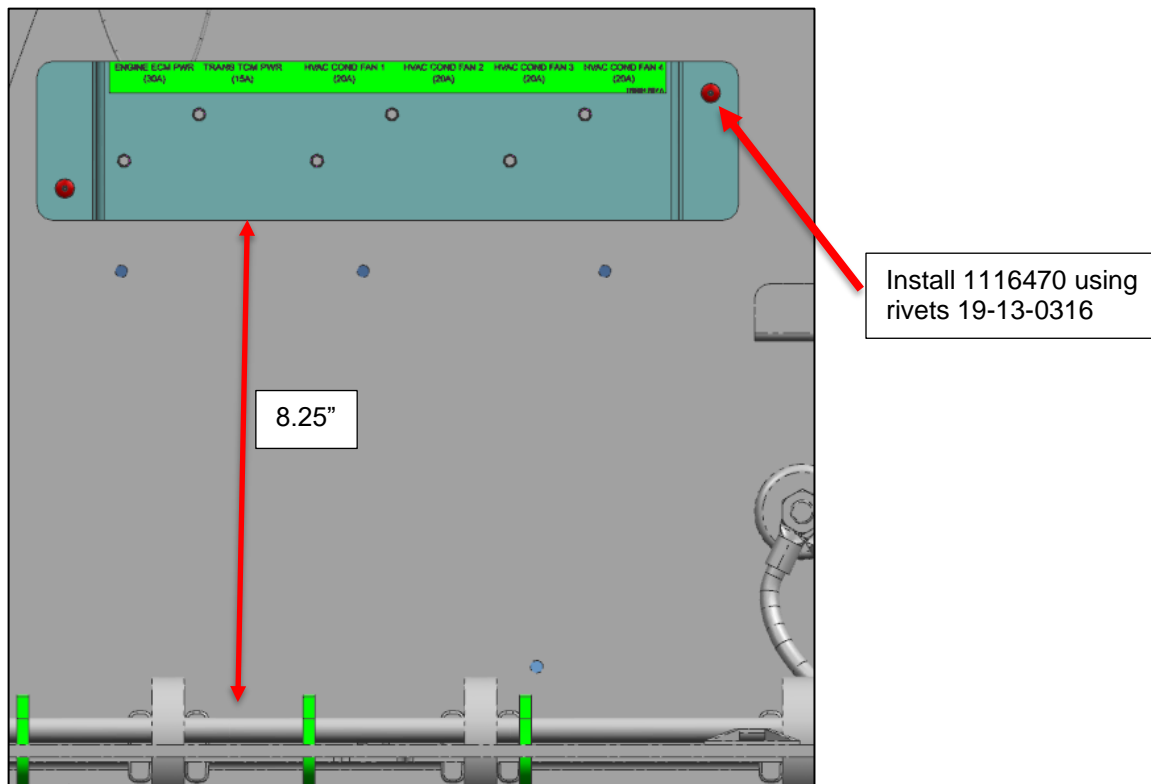
11. Using splice, solder and heat shrink, splice wire IDs as shown below between spliced wires and 24V SW jumper harness.



12. If the coach is equipped with X12 engine and line heater, follow this step. Otherwise, skip to step 13. Using splice, solder and heat shrink, splice wire ID 0050F to the 24V SW jumper harness spare 0050G shown below.

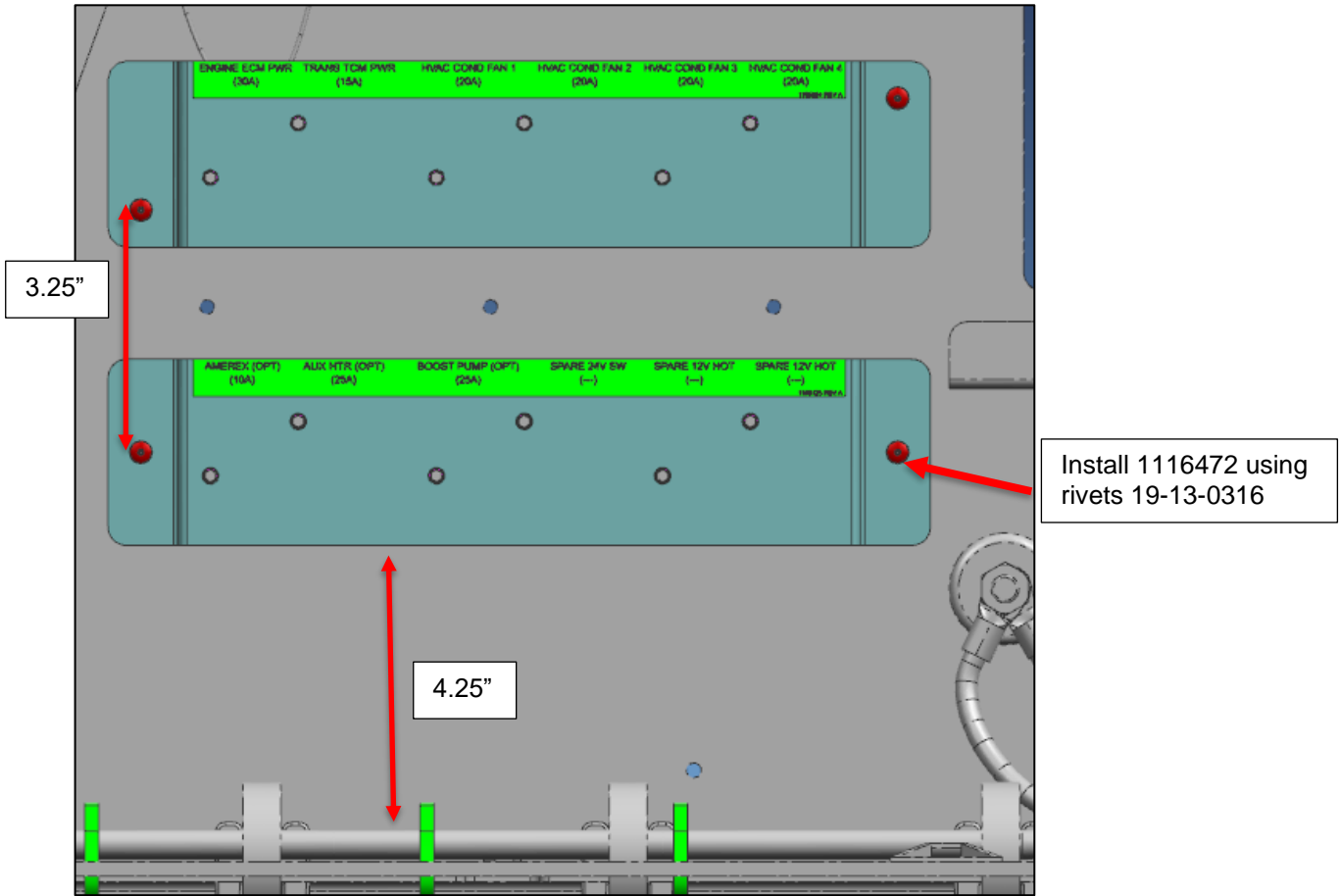


13. Using top fuse mounting bracket (PN: 1116470) as template at the location shown below, drill 0.164" holes for mounting and install the bracket using rivets (PN: 19-13-0316).

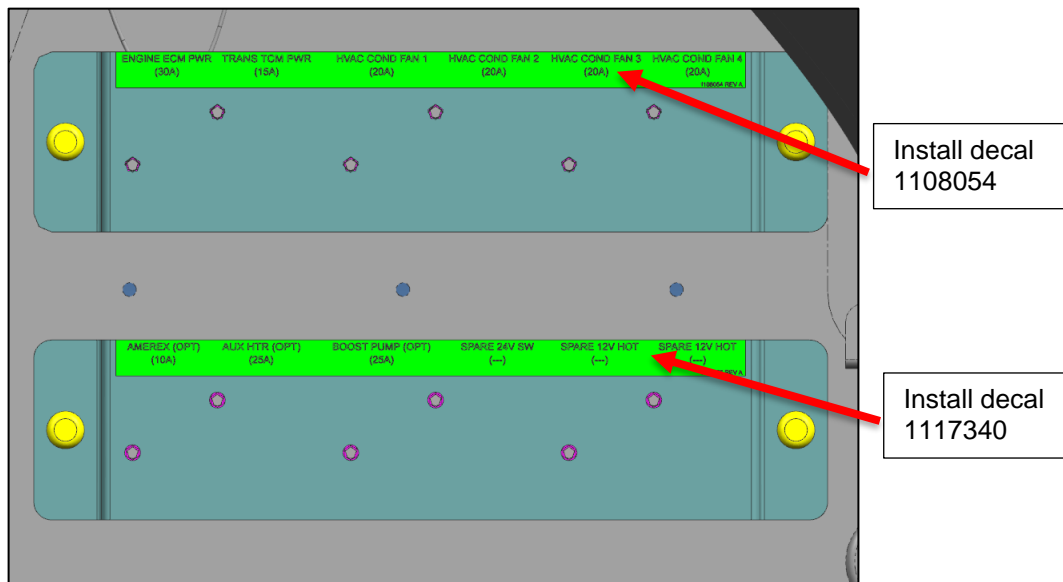


**⚠ WARNING: Maintain extreme caution while drilling the holes to avoid damaging the evap coils.**

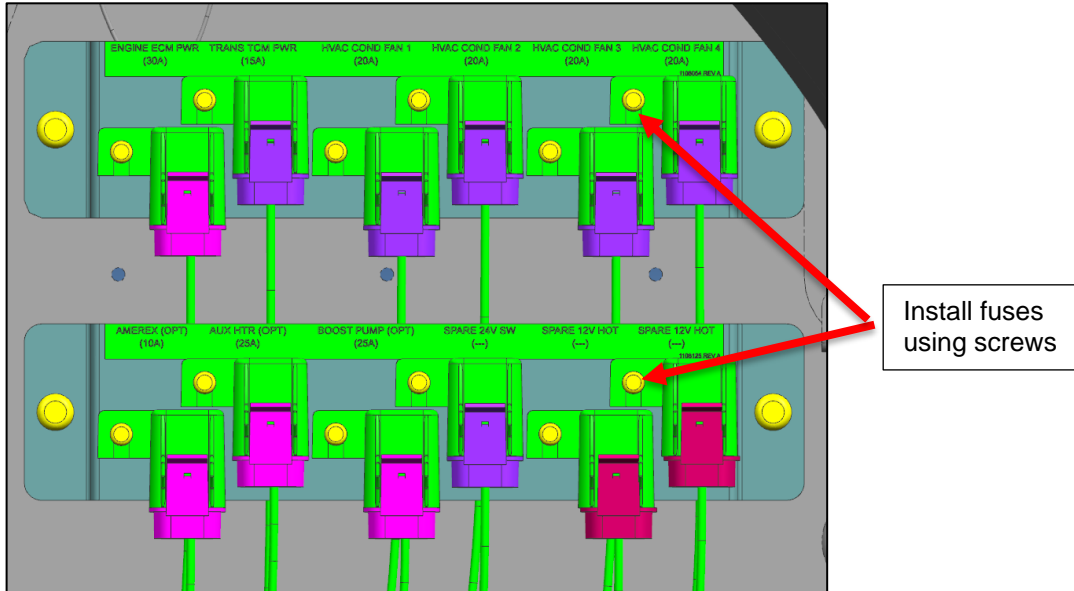
14. Using bottom fuse mounting bracket (PN: 1116472) as template at the location shown below, drill 0.164" holes for mounting and install the bracket using rivets (PN: 19-13-0316).



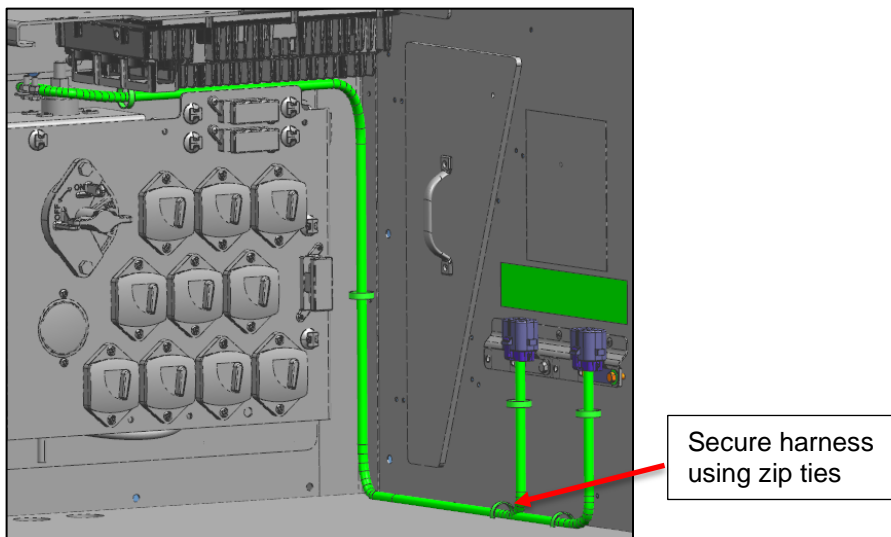
15. Clean the brackets with isopropyl alcohol and allow 5 min flash off time. Install decal (PN: 1108054) on the top bracket and decal (PN: 1117340) on the bottom bracket.



16. Follow the decals to install the fuse holders to the brackets and install fuses accordingly using screws (PN: 14S98006).



- 17. For electric D-coaches, install 10A fuse for LV BMS PWR and tie back wires 0011B, 0083B, and 0045G. Also scrap two 30A fuses, two 25A fuses, one 20A fuse, and one 10A fuse.
- 18. For coaches that went through MDP rework, scrap two 10A fuses. Note amerex wire is connected with inline fuse at CB6
- 19. For coaches with circuit breaker assemblies from production, tie back wire 0050G and scrap one 20A, one 10A, and 30A fuse.
- 20. Use zip ties (PN: 5958112) to secure the harnesses to the existing harness in battery compartment.

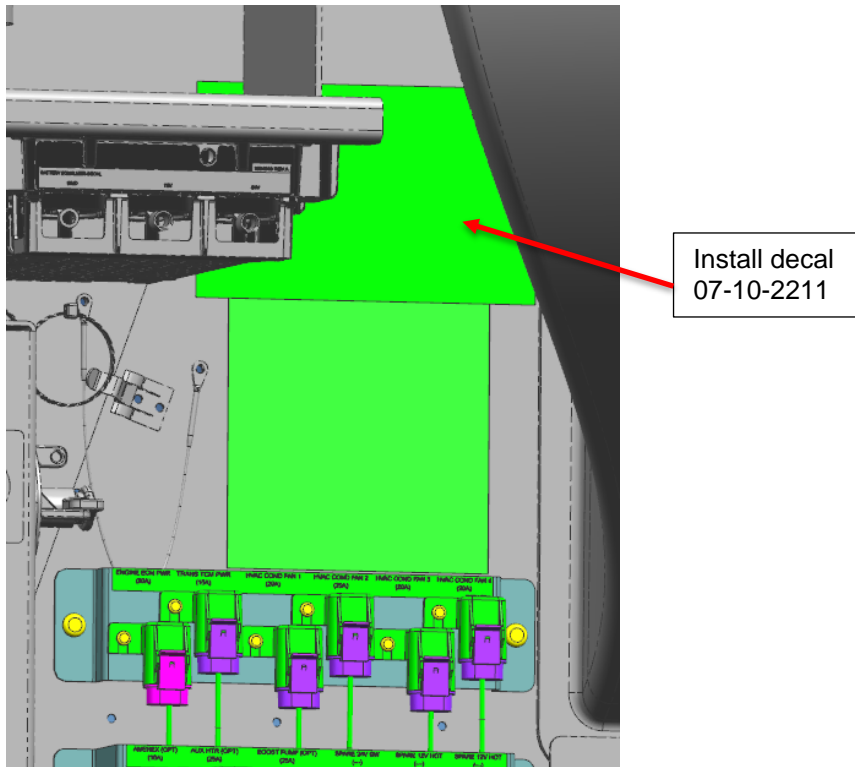


21. Clean the surface of the battery compartment wall above the fuse holder brackets with isopropyl alcohol and allow 5 min flash off time.

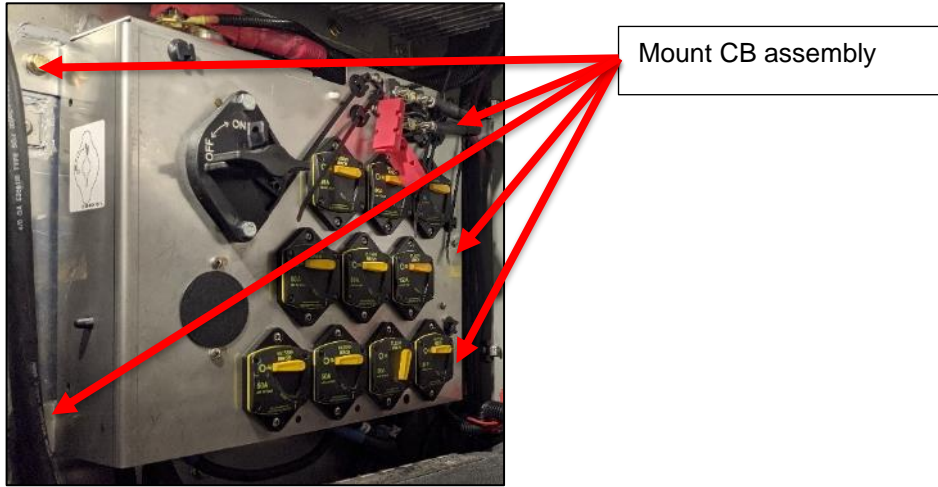
22. Install circuit breaker panel decal (PN: 07-10-2283) above the fuse holder bracket.



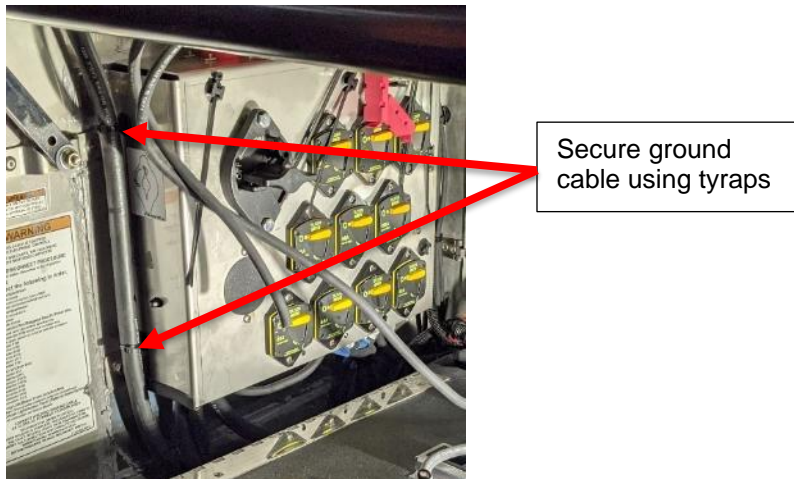
23. Install battery compartment layout decal (PN: 07-10-2211) above the circuit breaker panel decal.



24. Mount the circuit breaker assembly to the adapter plate using the saved cap screws. Torque cap screws to 9 FT-LBS.



25. Using cable ties (PN: 5955945) secure the battery ground to the left side of the circuit breaker assembly.





<b>LABOUR ESTIMATE</b>				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Battery Compartment Fuse Rework- D	1	3	3

<b>PARTS REQUIRED</b>					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	1108662	HRNS-BATT FH 24V HOT JMPR	1	EA	
2	1114268	HRNS-BATT FH 12V HOT JMPR	1	EA	
3	1108652	HRNS-BATT FH 24V SW JMPR	1	EA	
4	1116472	ASSY-BRACKET FUSE HOLDER	1	EA	
5	1116470	ASSY-BRACKET FUSE HOLDER	1	EA	
6	19-13-0316	RIVET-1/4 SS .08-.575GP	4	EA	
7	1108054	DECAL-BATT COMPT FUSES	1	EA	
8	1117340	DECAL-BATT COMPT FUSES	1	EA	
9	14S98006	SCREW MACHINE NO.8-32 3/8	12	EA	
10	07-10-2283	DECAL-CIRCUIT BREAKER PANEL, J4500	1	EA	
11	07-10-2211	DECAL-BATTERY COMPT. LAYOUT	1	EA	
12	5955945	TYRAP-14.5 BLACK	10	EA	
13	8112224	PLUG FUSE IN 10A	2	EA	
14	8112225	FUSE PLUG IN 15A	1	EA	
15	8112226	FUSE PLUG IN 20A	5	EA	
16	8112227	FUSE PLUG IN 25A	2	EA	
17	8112228	FUSE PLUG IN 30A	4	EA	
18	19-11-2441	HEAT SHRINK-4-1	3	FT	
19	1122073	SPLICE	12	EA	
20	115540	FUSE HOLDER CAP	12	EA	

<b>SPECIAL TOOLS REQUIRED</b>					
Item	Part Number	Description	Qty.	Units	Notes