



INSTRUCTION TO SERVICE

ITS61168		October 4, 2024
SECTION:	292-Electrical Harnesses	
SUBJECT:	Condenser Fuse Rework	
ISSUE:	Four condenser fan fuses grouped together with thin gauge wires is heating up the circuit and damaging fuses	
SUMMARY:	This bulletin outlines steps to replace the existing harness for the condenser fans with a new harness and fuses designed to withstand the heat in the circuit.	

ITS61168

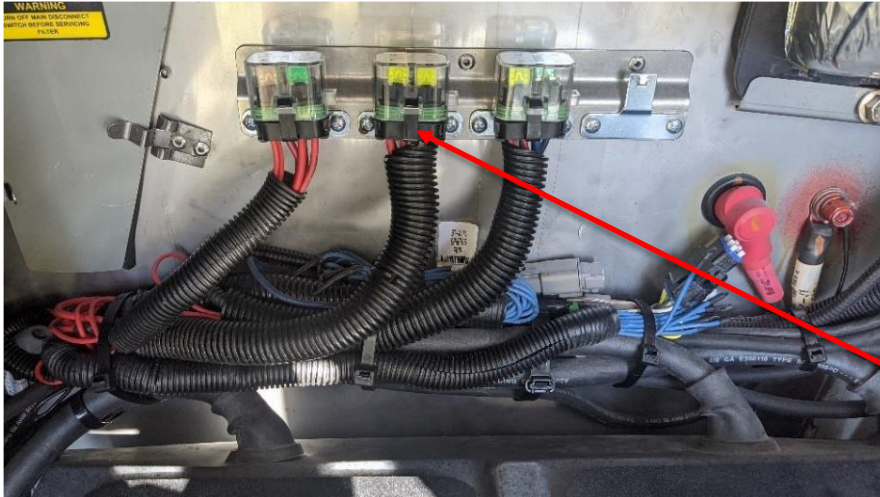
Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

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.

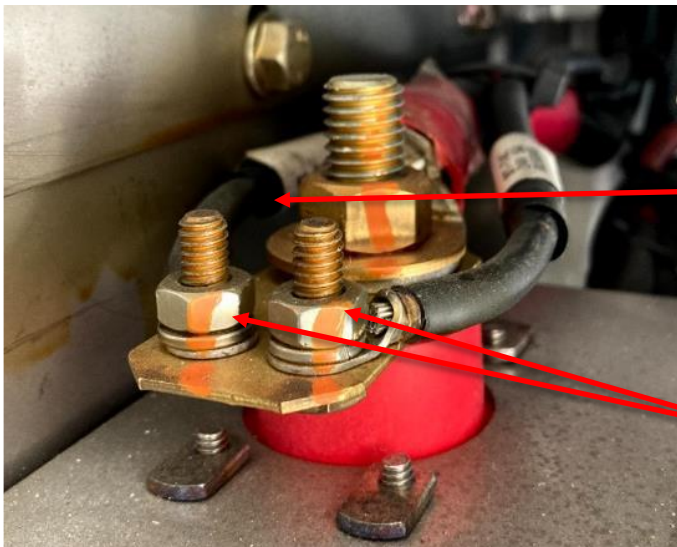
PROCEDURE:

1. Set park brake and chock wheels.
2. Turn the main battery disconnect switch to the "OFF" position.
3. Open the battery compartment door.
4. Remove second fuse holder BT-FBB from the back wall.

☞ **NOTE:** For coaches (SR-6025) equipped with USB port wires, remove the fourth fuse holder too.



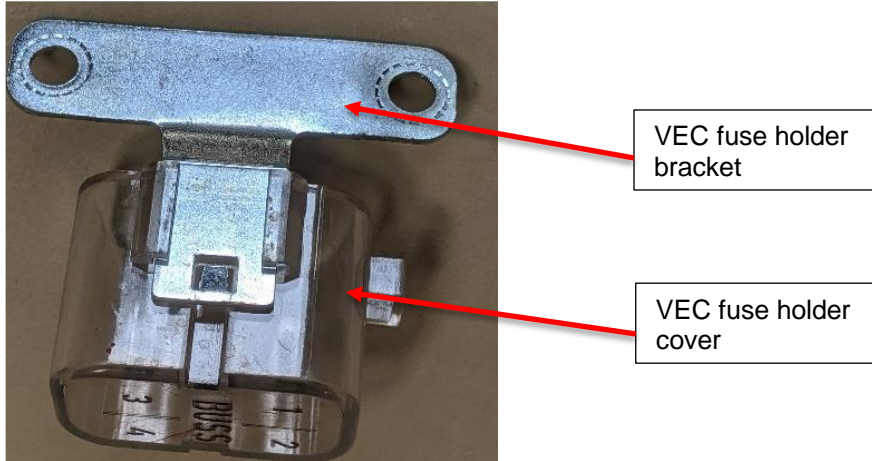
5. Remove and save the nuts and washers securing the cables on the 24V SW busbar. Remove the BT-T4B cable from the busbar.



6. Tie back the harness using zip ties, MCI P/N: 19-11-258.

☞ **NOTE:** Skip steps 7 and 8 on coaches equipped with USB port wires.

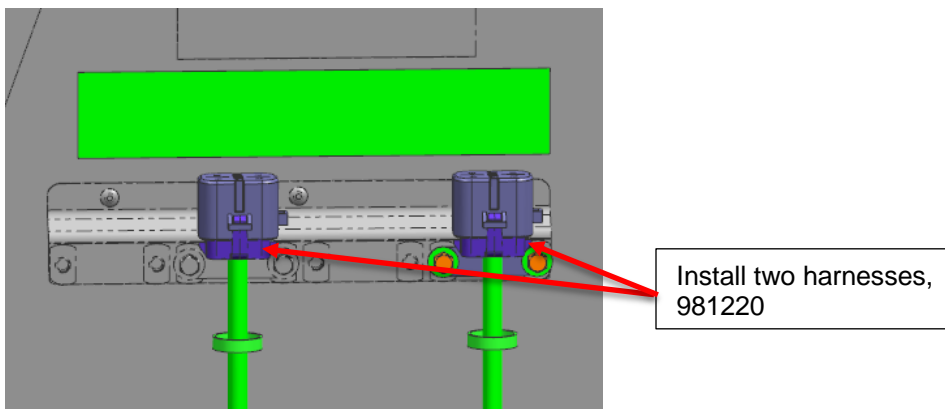
7. From the kit, locate the VEC fuse holder cover, MCI P/N: 07-08-5651, bracket, MCI P/N: 07-08-5652, and assemble them as shown below.



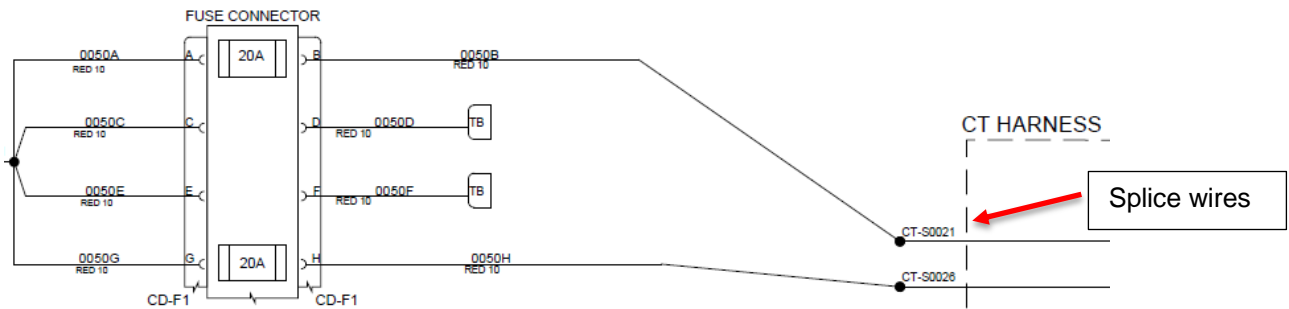
8. Install the assembled VEC fuse holder cap bracket using 2 screws, MCI P/N:19-1-386, 2 flat washers, MCI P/N:19-2-23.



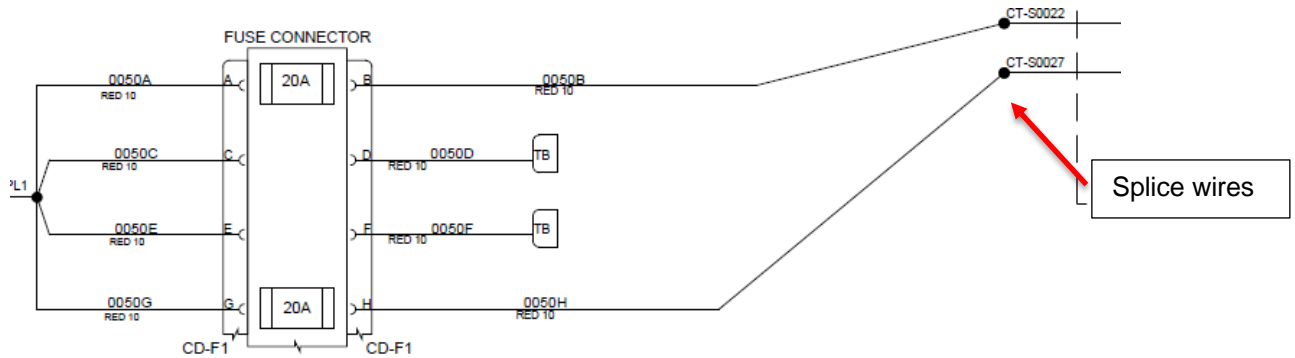
9. Install 20A fuses from the existing fuse holder on A-B and G-H slots of the two jumper harnesses, MCI P/N: 981220.
10. Install two new condenser fan harnesses, MCI P/N: 981220, to the two open VEC fuse holders.



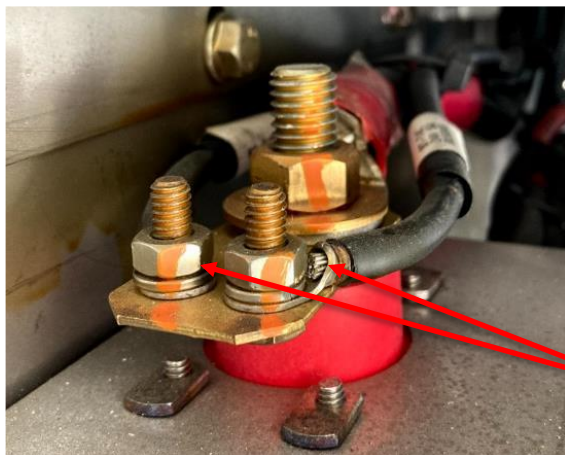
11. Locate the 4 condenser fan splices (CT-S0021, CT-S0026, CT-S0022, CT-S0027) joining the 12/14 AWG wires from the fuse holder to the 10 AWG wires in the condenser harness. Remove the 12/14 AWG portion and the splice.
12. Using splice, solder and heat shrink, splice wire IDs CT-S0021A and CT-S0026A to one jumper harness wire IDs 0050B and 0050H respectively.



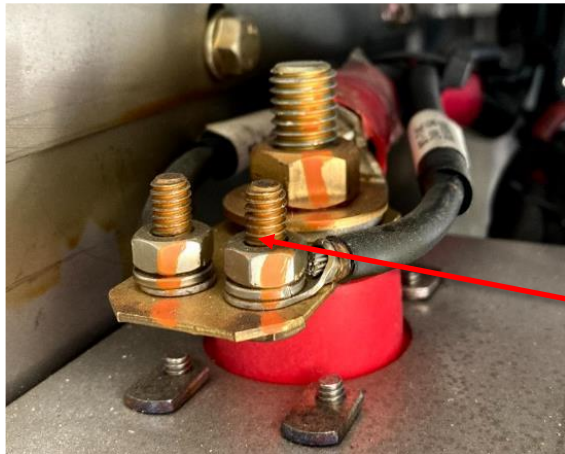
13. Using splice, solder and heat shrink, splice wire IDs CT-S0022A and CT-S0027A to the second jumper harness wire IDs 0050B and 0050H respectively



14. Connect the ring terminals of the jumper harnesses to the 24V SW stud (BT-T4B) on the circuit breaker busbar, MCI P/N: 7L-8-5055, using lock washer, MCI P/N:19-2-37, and nut, MCI P/N: 19-3-32. Torque nut to 65 IN-LBS.

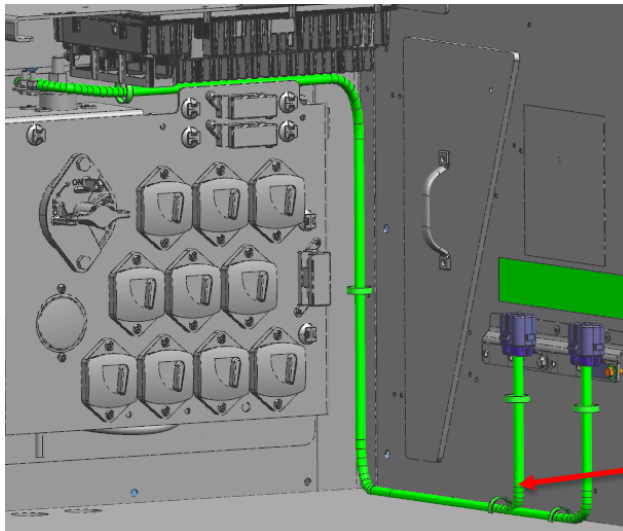


15. Spray corrosion inhibitor, MCI P/N: 23-02-0119, on the busbar studs.



Spray corrosion inhibitor

16. Use zip ties, MCI P/N: 19-11-258, to secure the harnesses to the existing harness in battery compartment.



Secure harness using zip ties

17. Perform steps 18 and 19 only on coaches with USB port wires.
18. Unpin the USB power ports LH from the existing fuse connector and pin them to the C-D slots of the new jumper harness installed to the fourth fuse connector. Install 20A fuse.
19. Unpin the USB power ports LH from the existing fuse connector and pin them to the E-F slots of the new jumper harness installed to the fourth fuse connector. Install 20A fuse.

20. Remove and discard the fuse layout decal above the VEC fuse bracket.

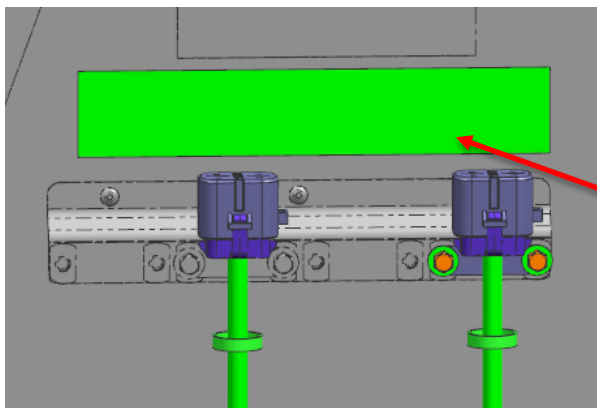


Remove and discard the decal

21. Clean the surface with isopropyl alcohol and allow 5-10 minute flash off time.

22. Install the new decal, MCI P/N: 1100612, in place of the old decal.

🔑 **NOTE:** Write "30A" on empty D2 and D3 slots on coaches equipped with USB port wires with a marker.



Install new decal, 1100612



LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Condenser Fuse Rework	1	2	2

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	07-08-5651	Cover - VEC connector fuse holder	1	EA	
2	07-08-5652	Bracket - VEC connector fuse holder	1	EA	
3	19-1-386	Screw-cap,hex,1/4-20unc x 1/2 SST 18-8	2	EA	
4	19-11-1465	Heat shrink-4-1	1	FT	
5	19-11-258	Tyrap-7.31" long,black	6	EA	
6	19-11-431	Splice	4	EA	
7	19-2-23	Washer-flat,1/4 ID,SST	2	EA	
8	23-02-0119	Sealant-corrosion inhibitor	1	EA	
9	908519	Solder-splice 60% tin 40% lead	1	EA	
10	981220	Harness-condenser fan jumper	2	EA	
11	1100658	Schematic-condenser fan jumper	1	EA	
12	1100612	Decal-fuse layout batt compt HVAC	1	EA	

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty.	Units	Notes
1					