NOVA BUS RECALL CAMPAIGN CR5882E

REFERENCE:	Nova Bus Manuals
SECTION:	16 : Electrical System
RS Nº:	MQR 7621-3045, 3114, 2921, 2946
EFFECTIVE IN PROD.:	LF64 (2024JA)
TC RECALL Nº:	2026-425
NHTSA RECALL Nº:	26V-275

APPLICATION DEADLINES: N/A
CLAIM REFERENCE NUMBER: CR5882

SUBJECT:	Networks for the Intelligent Transportation System (ITS) and the Telematics Control Unit (TCU) and/or MC43 software.
JUSTIFICATION:	The subject vehicles have been manufactured with Nova Bus telemetry control unit combined with a customer-specific vehicle monitoring system installed in parallel and/ or MC43 software revision before P.05. This configuration may create a data overload to the MC43 control unit and cause it to shut down. A MC43 controller shut down can cause a loss of drive power, increasing the risk of a crash.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME (HOURS)
		LABOUR	MATERIAL	
1	Modify the network wiring PHD and MC43 software update	Nova Bus	Nova Bus	0.66
2	PHD parameters update	Nova Bus	Nova Bus	0.16

MATERIAL REQUIRED PER VEHICLE

QTY	PART Nº	REV.	DESCRIPTION
LEVEL 1 = KIT CR5882			
1	N632001550	–	Wire Kit MQR3045
LEVEL 2 (only if required)**			
		–	

Materials will be available within 91 days once your order has been placed.

To order, please contact novabus.parts@volvo.com

Or by phone for CANADA 1-800-771-6682, for USA 1-877-999-8808

Specify document number, quantity of parts required and shipping address.

**The material identified in Level 2 is to be ordered only for vehicles that meet the criteria defined in Level 1.

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED *	RETAINED	* Dispose of the unused parts and the defective parts in accordance with local environmental standards in effect.
	Yes	–	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2026OC05	Initial release	Frederic Cloutier

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
CMBC - Translink	LE13	[redacted]				1
CMBC - Translink	LE14					14
Ames Iowa - Transit Agency	LE52					2
Calgary Transit Alberta	LE70					1
Calgary Transit Alberta (Ref LF20-004)	LG73					1
Demo	LE75					2
Grand River Transit Ontario - GRT	LE71					6
Grand River Transit Ontario - GRT	LF56					5
Guelph Ontario	LE69					4
Guelph Ontario	LF45					7
Houston Texas - Metro	LE77					20
Milwaukee Wisconsin - MCTS	LE16					1
Milwaukee Wisconsin - MCTS	LE17					10
Milwaukee Wisconsin - MCTS	LF12					4
San Francisco Municipal Transportation Agency - SFMTA	LE39					1
San Francisco Municipal Transportation Agency - SFMTA	LE72					2

WARNING

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

PROCEDURE

LEVEL 1:

1.1. Park the vehicle on an even surface with the transmission on neutral (N).

1.2. Apply the parking brake and set the master control switch to the ***stop*** position.

1.3. Set the battery disconnect switch in the battery compartment to the ***off*** position.

1.4. Locate and open the RF0 panel (figure 1).

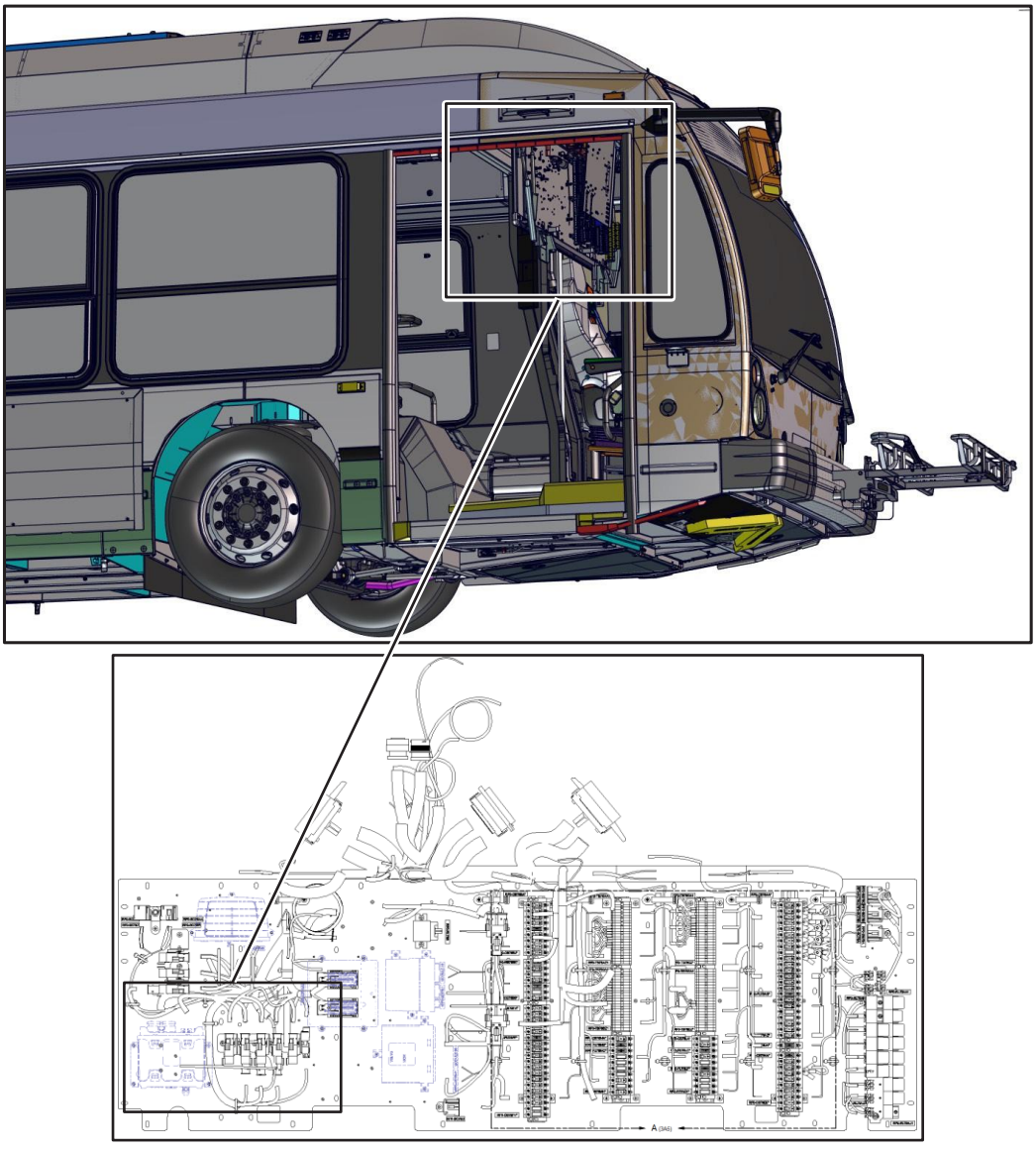


Figure 1 - RF0 panel

1.5. Locate the Y-connectors: **X78BL** and **X78BW** (figure 2).

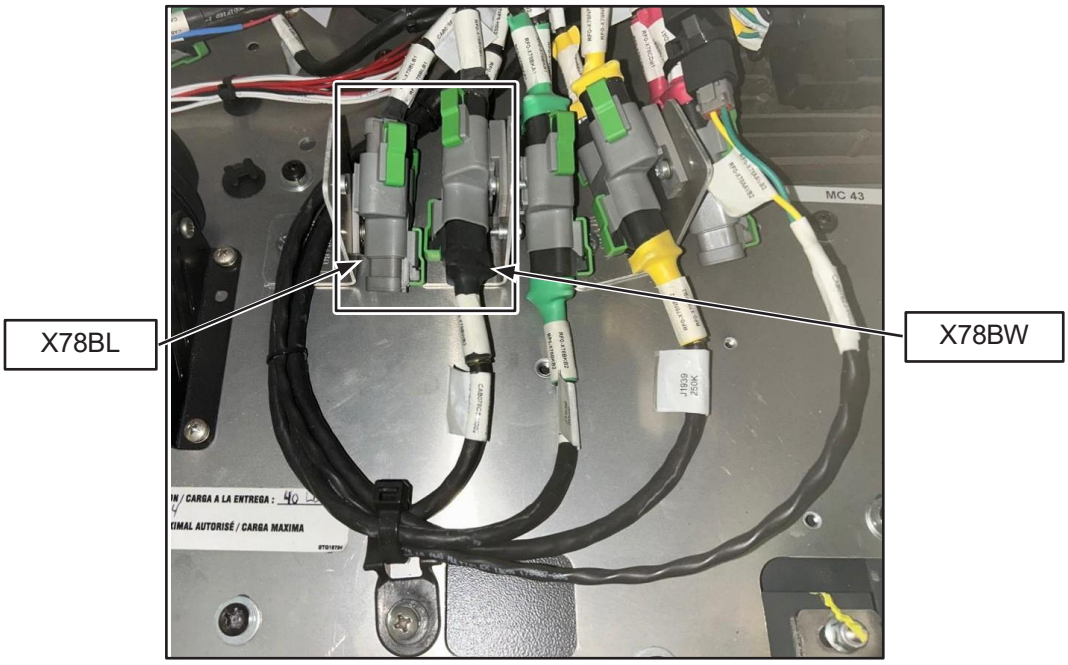


Figure 2 - Connector X78BL and X78BW

1.6. Depending on the vehicle configuration, check whether steps A, B, and C (Configuration A), or steps D and E (Configuration B), apply to your vehicle (Table 1)

Configuration A	*Connfiguration B*	
LE14	LE13	LE69
LE71	LE16	LE70
LF12	LE17	LE72
LF45	LE39	LE75
LF56	LE52	LE77

Table 1 - Vehicle Configuration

Configuration A:

a. Remove the end cap from the **X78BLA1** splitter.

b. Remove the end-of-line resistor from **X78BLB2**.

c. Remove the blue lock (keying device) from the end-of-line resistor and the orange lock from the end cap. Install the orange lock on the end-of-line resistor and connect the resistor to **X78BLA1**. Discard the blue lock and the end cap (Figure 3).

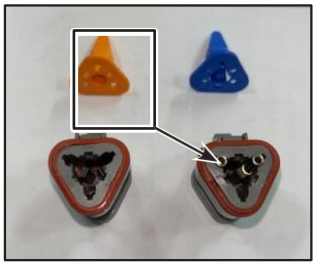


Figure 3 - Dispositif anti-erreur et résistance de fin de ligne

Configuration B:

d. Remove the end-of-line resistor from **X78BLB2**.

e. Connect the previously removed end-of-line resistor to **X78BLB1**.

1.8. Disconnect the cable from **X78BWB2** and connect it to **X78BLB2**. Depending on the vehicle configuration, refer to Table 2 to identify the cable (Figure 4)

CAB078GS	*CAB078HW*	*CAB078FV*	*CAB078WP*
LE39	LF56	LE13	LG73
LE71	LE14	LE16	-
LE72	-	LE17	-
LF12	-	LE52	-
LF45	-	LE69	-
-	-	LE70	-
-	-	LE75	-
-	-	LE77	-

Table 2 - Cable identification based on vehicle configuration

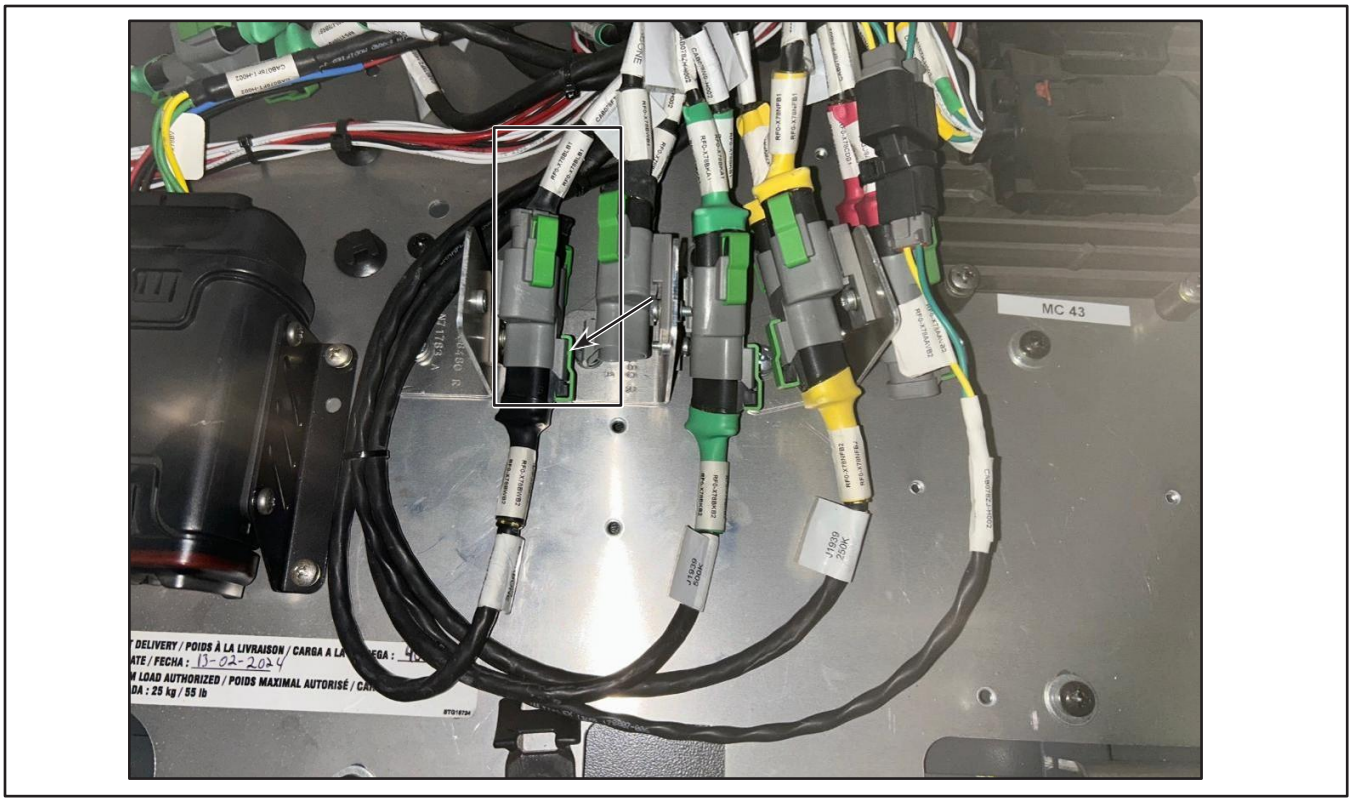


Figure 4 - Connection of the Intelligent Transportation System (ITS) network cable.

1.9. Take connector **X78FNB1** from wire kit **N632001550** and connect it to **X78BWB2** of the **X78BW** Y-connector in the RF0 panel (Figure 6).

1.10. Take the ground cable from the new wire kit **N632001550** and secure it to the screw to the left of the **X78BL** Y-connector bracket in the RF0 panel (Figure 6)

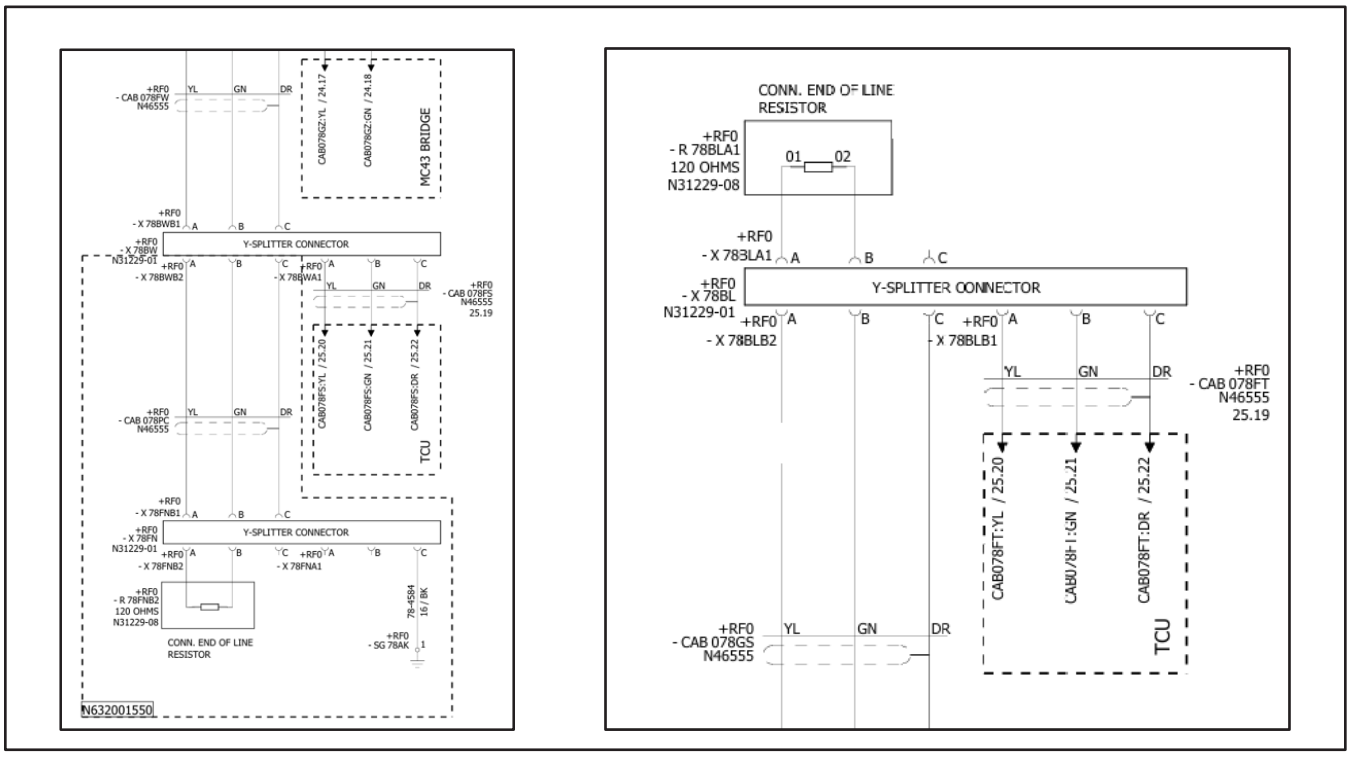


Figure 5 - Coach Wiring Diagram (Depending on the configuration, cable numbers may vary.)

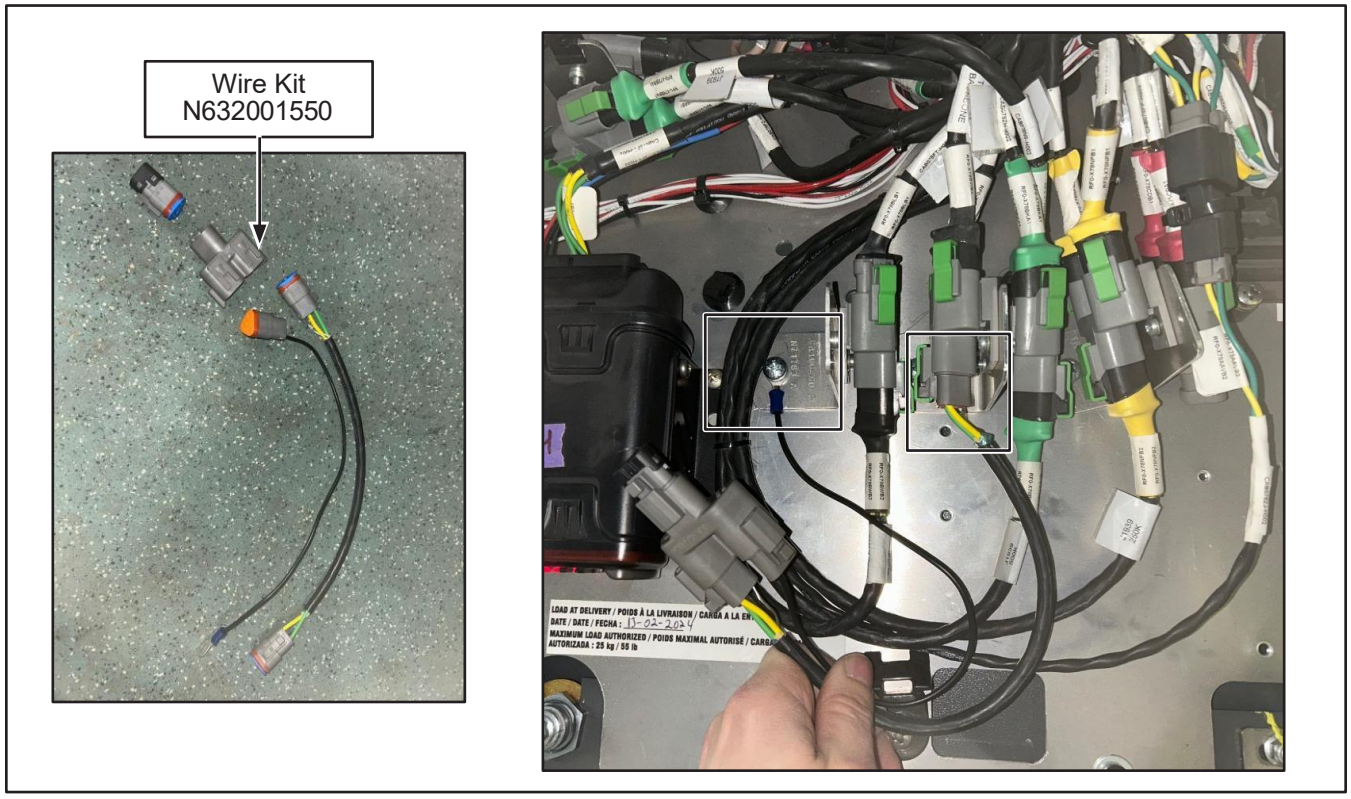


Figure 6 - N632001550 Wire Kit Connection

1.11. Secure the cable routing using cable ties (Figure 7).

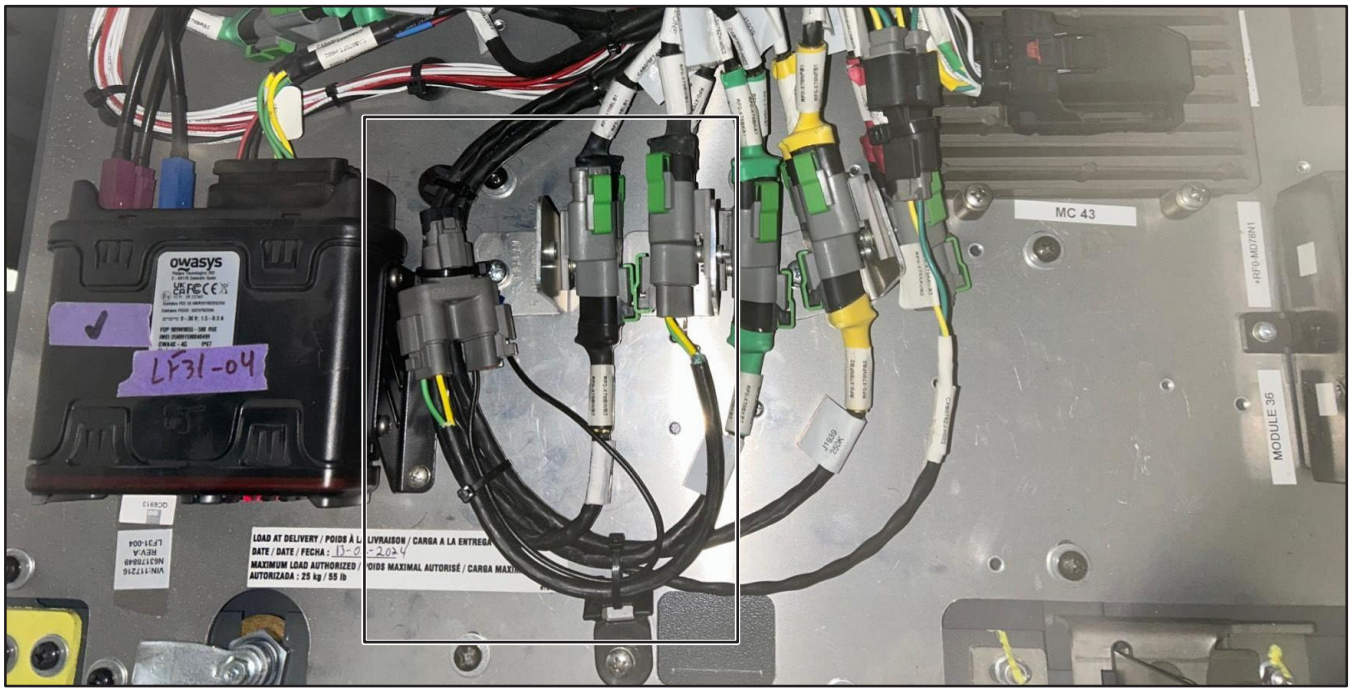


Figure 7 - Exemple of the final routing.

NOTE

Program the PHD system using *NovaScreen_LFSeP_V1.02.056_500K* or a later version, and the MC43 system using *IQ_GEN4E__00 REVP.05* or a later version. Contact your Customer Support Manager to obtain the required programs or their later versions. See section 16 of the Maintenance Manual for the programming procedure.

NOTE

After updating the PHD software, verify that the "Propulsion Battery System" icon is displayed on the screen. If the icon is displayed, no further action is required. If the icon is not displayed, see Level 2

NOTE

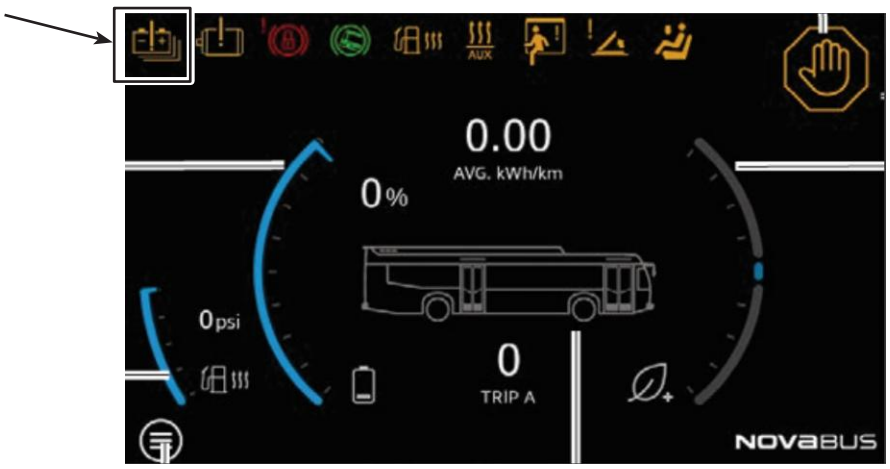
The firmware updates will solve the MQR 7621-3114 LFSe+ impact with pantograph while deployed and also the MQR 7621-2921 LFSe+ Door master switch preventing charging and also the MQR 7621-2946 incorrect message displayed on the PHD while waiting for sequential charging.

1.12. The vehicle can be returned to service

LEVEL 2:

NOTE

After updating the PHD software, verify that the “Propulsion Battery System” icon is displayed on the screen. If the icon is displayed, no further action is required. If the icon is not displayed, update the PHD parameter file in accordance with the procedure provided in the section 16 of the Maintenance Manual (16-762).



❖