

<b>REFERENCE:</b>	Nova Bus Manuals
<b>SECTION:</b>	02: Doors and Mechanism
<b>RS N°:</b>	MQR 7621-2396
<b>EFFECTIVE IN PROD.:</b>	2021NO
<b>TC RECALL N°:</b>	N/A
<b>NHTSA RECALL N°:</b>	21V929

**APPLICATION DEADLINE:** N/A  
**CLAIM REFERENCE NUMBER:** SR-5220

<b>SUBJECT:</b>	Rear Plug-Type Door Opening with No Driver Request When Bus Comes to a Stop.
<b>JUSTIFICATION:</b>	Implementation of a hardwired, active high, door open control signal between the VBEA multiplex system and the vDEC rear door controller to replace the original J1939 network door open control signal.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Installation of the N632001060 wire kit.	Nova Bus	Nova Bus	0.33 h
2	–	–	–	–

**MATERIAL**

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
<b>LEVEL 1</b>				
1	N632001060	–	Kit Wire Rear Plug Door NYCT	–
5	G5007994	–	Tie Wrap Nylon Black	–
<b>LEVEL 2</b>				
–	–	–	–	–

Materials will be available within 42 days once your order has been placed. To order, please contact [novabus.parts@volvo.com](mailto: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.

**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	2021NO30	Initial release	Devanand

**APPROVED BY:**

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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
New York City Transit New York - NYCT	LC79	9624	9628	L82L3M977783	L82L0M977787	5
New York City Transit New York - NYCT	LC79	9636	9637	L82LXM977795	L82L1M977796	2
New York City Transit New York - NYCT	LC79	9639	9639	L82L5M977798	L82L5M977798	1
New York City Transit New York - NYCT	LC79	9644	9644	L82L5M977803	L82L5M977803	1
New York City Transit New York - NYCT	LC79	9648	9648	L82L2M977807	L82L2M977807	1
New York City Transit New York - NYCT	LC79	9650	9650	L82L6M977809	L82L6M977809	1
New York City Transit New York - NYCT	LC79	9652	9654	L82L4M977811	L82L8M977813	3
New York City Transit New York - NYCT	LC79	9656	9674	L82L1M977815	L82L3M977833	19
New York City Transit New York - NYCT	LC79	9676	9676	L82L7M977835	L82L7M977835	1
New York City Transit New York - NYCT	LC79	9678	9678	L82L0M977837	L82L0M977837	1
New York City Transit New York - NYCT	LC79	9680	9680	L82L4M977839	L82L4M977839	1
New York City Transit New York - NYCT	LC79	9682	9683	L82L2M977841	L82L4M977842	2
New York City Transit New York - NYCT	LC79	9691	9691	L82L3M977850	L82L3M977850	1
New York City Transit New York - NYCT	LC79	9694	9694	L82L9M977853	L82L9M977853	1
New York City Transit New York - NYCT	LC79	9698	9702	L82L6M977857	L82L8M977861	5
New York City Transit New York - NYCT	LC79	9707	9707	L82L7M977866	L82L7M977866	1
New York City Transit New York - NYCT	LC79	9710	9715	L82L2M977869	L82L8M977875	6
New York City Transit New York - NYCT	LC79	9717	9721	L82L1M977877	L82L3M977881	5
New York City Transit New York - NYCT	LC79	9723	9724	L82L7M977883	L82L9M977884	2
New York City Transit New York - NYCT	LC79	9727	9728	L82L4M977887	L82L6M977888	2
New York City Transit New York - NYCT	LC79	9730	9736	L82L4M977890	L82L9M977903	7
New York City Transit New York - NYCT	LC79	9738	9740	L82L2M977905	L82L6M977907	3
New York City Transit New York - NYCT	LC79	9742	9742	L82LXM977909	L82LXM977909	1
New York City Transit New York - NYCT	LC79	9745	9746	L82LXM977912	L82L1M977913	2
New York City Transit New York - NYCT	LC79	9748	9780	L82L5M977915	L82L7M977950	33
New York City Transit New York - NYCT	LC79	9782	9784	L82L0M977952	L82L4M977954	3
New York City Transit New York - NYCT	LD64	9787	9787	L82L8M977956	L82L8M977956	1
New York City Transit New York - NYCT	LD64	9796	9796	L82L4M977971	L82L4M977971	1
New York City Transit New York - NYCT	LD64	9800	9800	L82L1M977975	L82L1M977975	1
New York City Transit New York - NYCT	LD64	9802	9803	L82L5M977977	L82L7M977978	2
New York City Transit New York - NYCT	LD64	9805	9806	L82L5M977980	L82L7M977981	2
New York City Transit New York - NYCT	LD64	9810	9810	L82LXM977991	L82LXM977991	1
New York City Transit New York - NYCT	LD64	9812	9812	L82L3M977993	L82L3M977993	1
New York City Transit New York - NYCT	LD64	9829	9832	L82L4M9778022	L82LXM9778025	4
New York City Transit New York - NYCT	LD64	9841	9841	L82L6M9778040	L82L6M9778040	1
New York City Transit New York - NYCT	LD64	9844	9844	L82L1M9778043	L82L1M9778043	1

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

**PROCEDURE**

- 1.1. Park the vehicle on an even surface with transmission on neutral (N).
- 1.2. Apply the parking brake.
- 1.3. Set the master control switch to the STOP position (see figure 1).

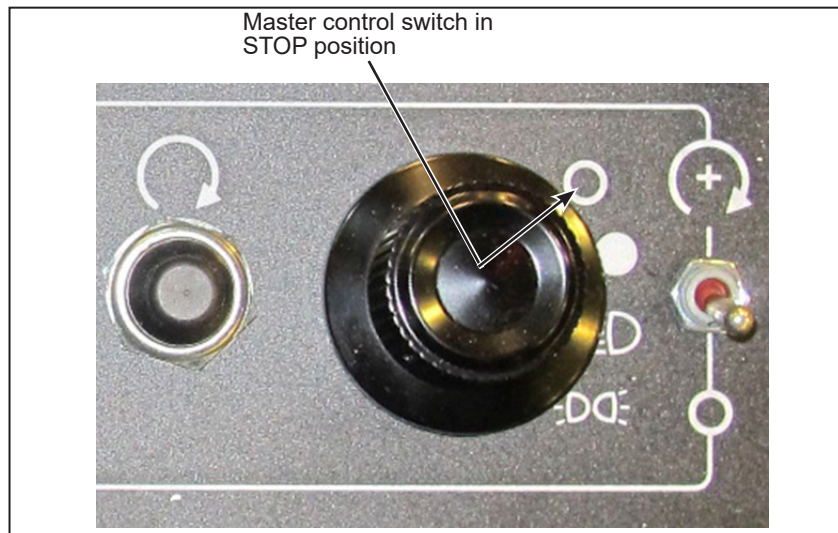


Figure 1 - Master Control Switch in STOP Position

- 1.4. Set the battery disconnect switch in the battery compartment to the OFF position (see figure 2).

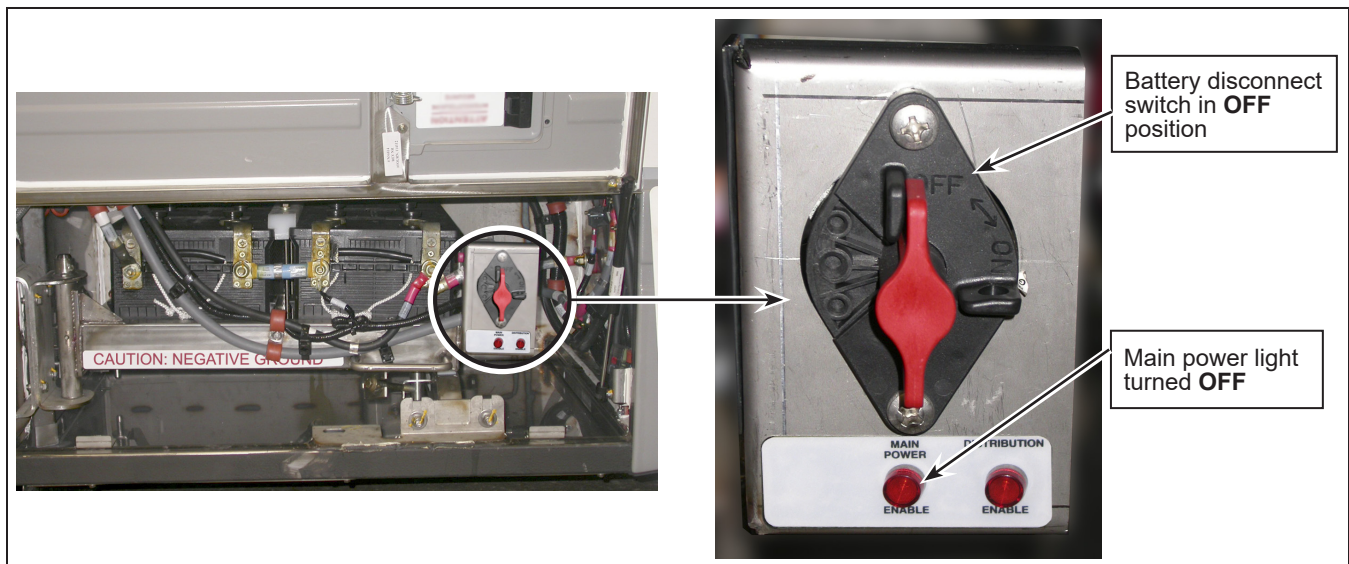


Figure 2 - View of Battery Disconnect Switch

- 1.5. Locate and access the RF4 panel (panel 79) to proceed with the installation of the N632001060 wire kit.

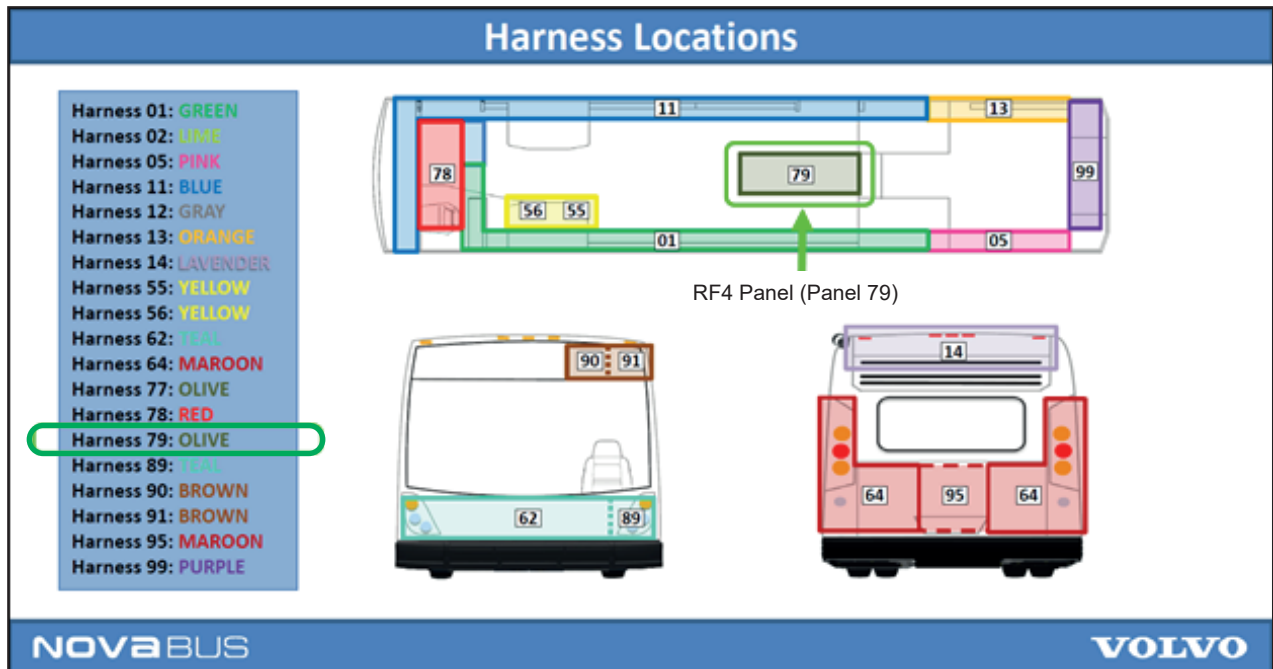


Figure 3 - Location of RF4 Panel (Panel 79)

- 1.6. Open the RF4 panel to access the Volvo IOA 50 module (lower left hand side corner) and the VBI vDEC module (upper right hand side corner).

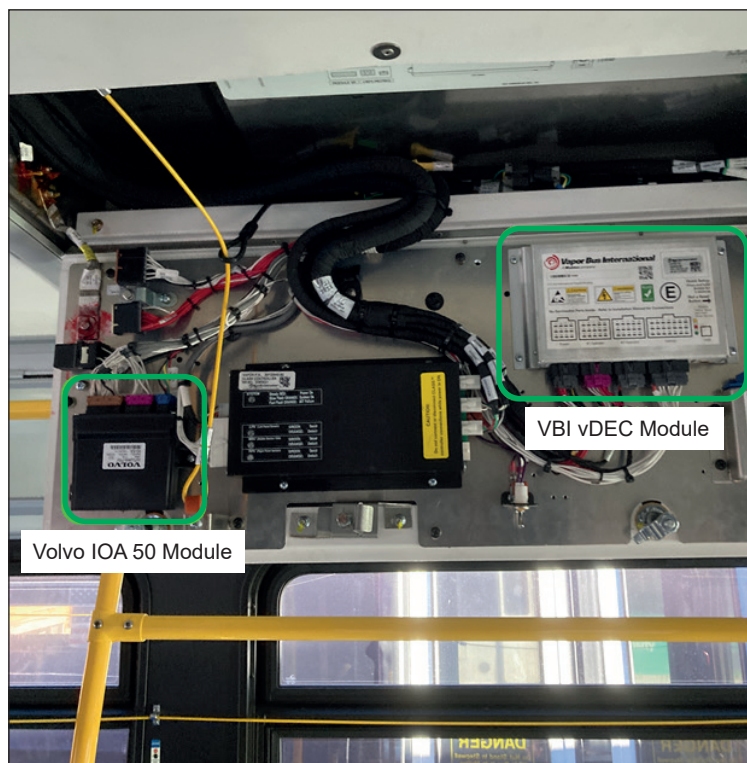


Figure 4 - View of Volvo IOA 50 Module and VBI vDEC Module inside the RF4 Panel

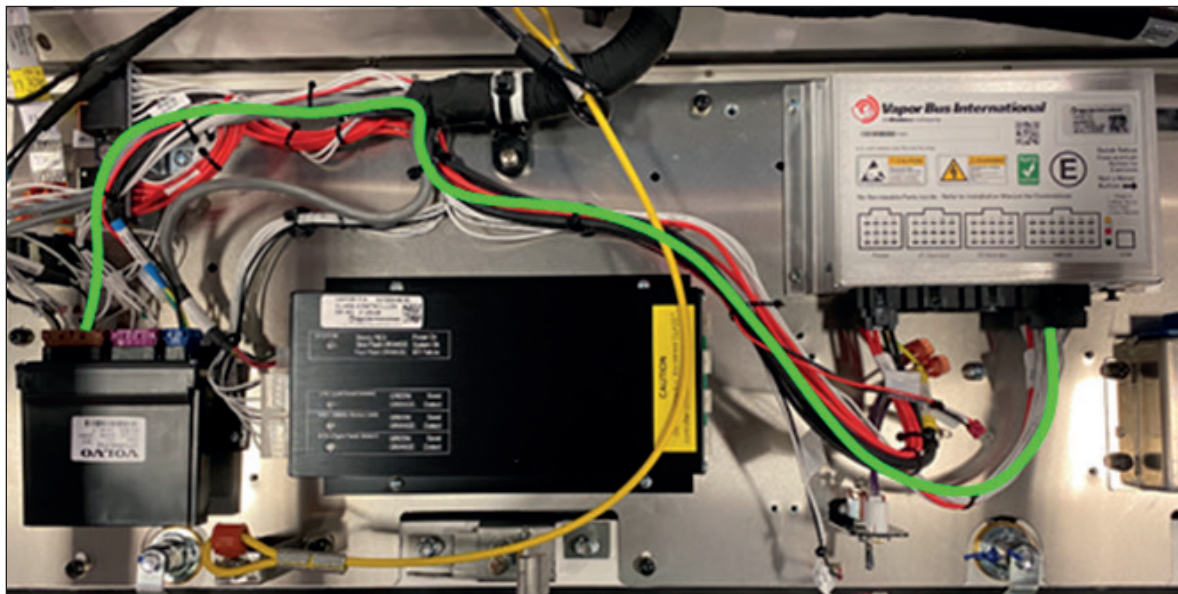


- 1.7. Get N632001060 wire kit and prepare to insert wire 79-167 terminals into connector housings in accordance with the following From To List (see FTL highlighted indications) while running this wire along the routing path shown in the picture below.

**N632001060 Wire Kit FTL Table Showing Wire 79-167**

Origin (1st Record)   
 Destination (2nd Record)

Wire ID		Wire Specs				Breakout ID		Termination Specs		
Prefix	Middle	AWG	Color	Nova P/N	Cut Lt	Loc	Device	Terminal	Seal	Pos
79-	167	18	WH	N25832-15	1000 mm	RF4	X79AC3	N92756	NO SEAL	14
79-	167	18	WH	N25832-15	1000 mm	RF4	X79H1	N37235-02	NO SEAL	13



*Figure 5 - Installation of the N632001060 Wire Kit*

- 1.8. Start the connection by inserting the 79-167 wire terminal N92756 (TE Connectivity p/n 927771-3) into position 14 of the vDEC module "Vehicle" connector housing (WHA 79, breakout RF4-X79AC3/14).

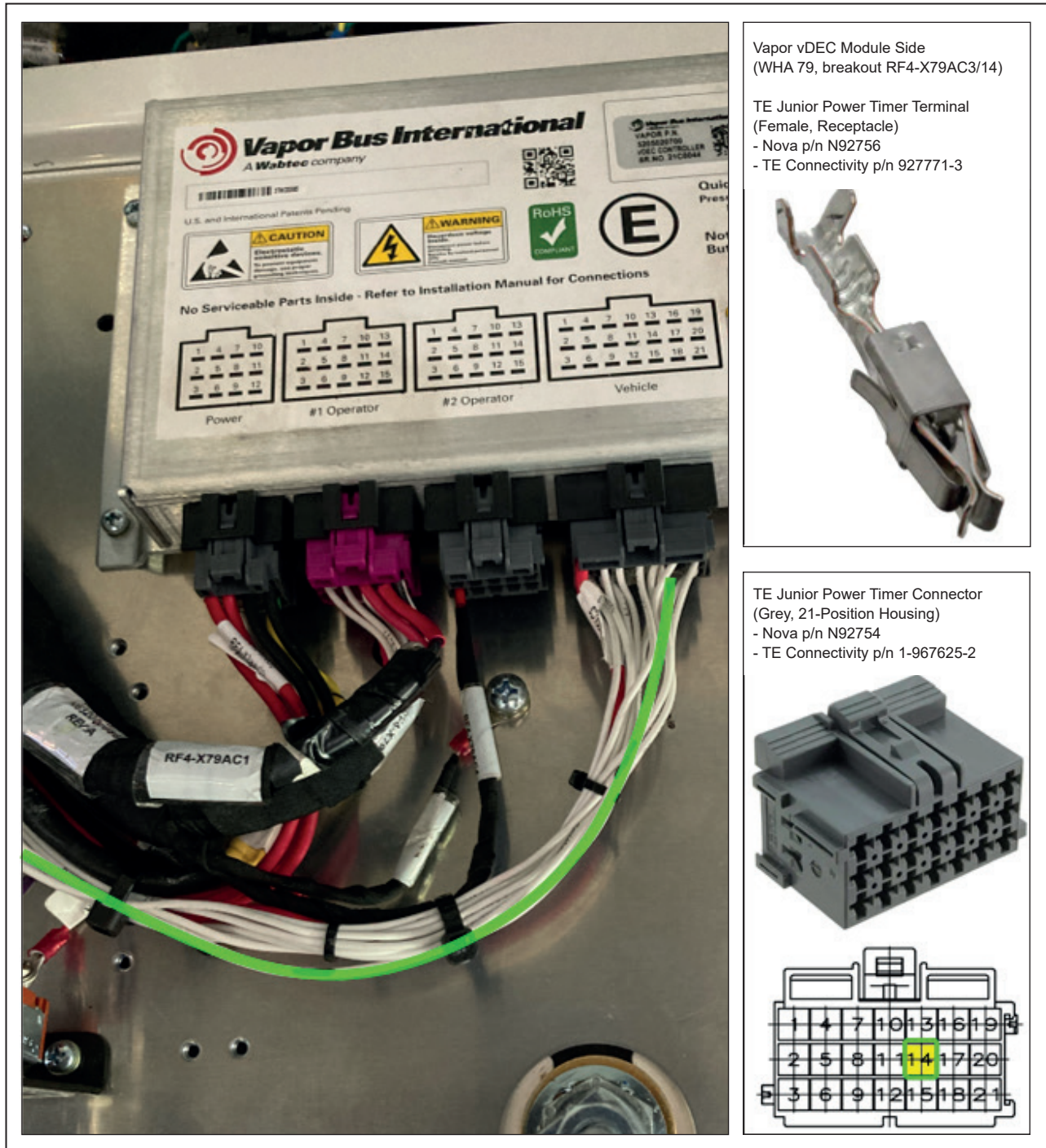


Figure 6 - Insertion of Wire Terminal N92756 into vDEC Module "Vehicle" Connector Position 14 (RF4-X79AC3/14)



- 1.9. Complete the connection of wire 79-167 terminal N37235-02 (TE Connectivity p/n 1-968849-1) into position 13 of the IOA 50 module "J1" connector housing (WHA 79, breakout RF4-X79H1/13).

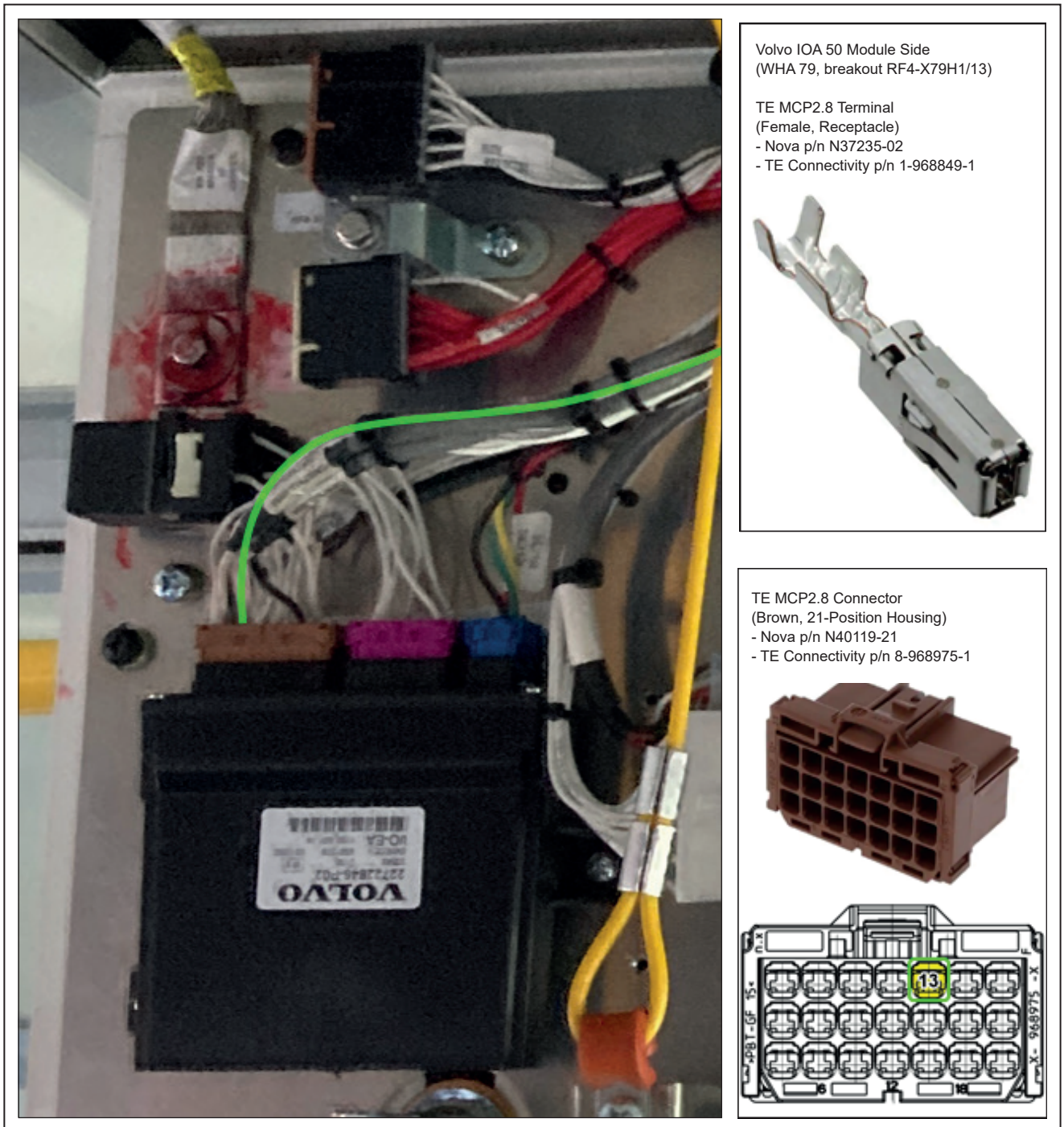
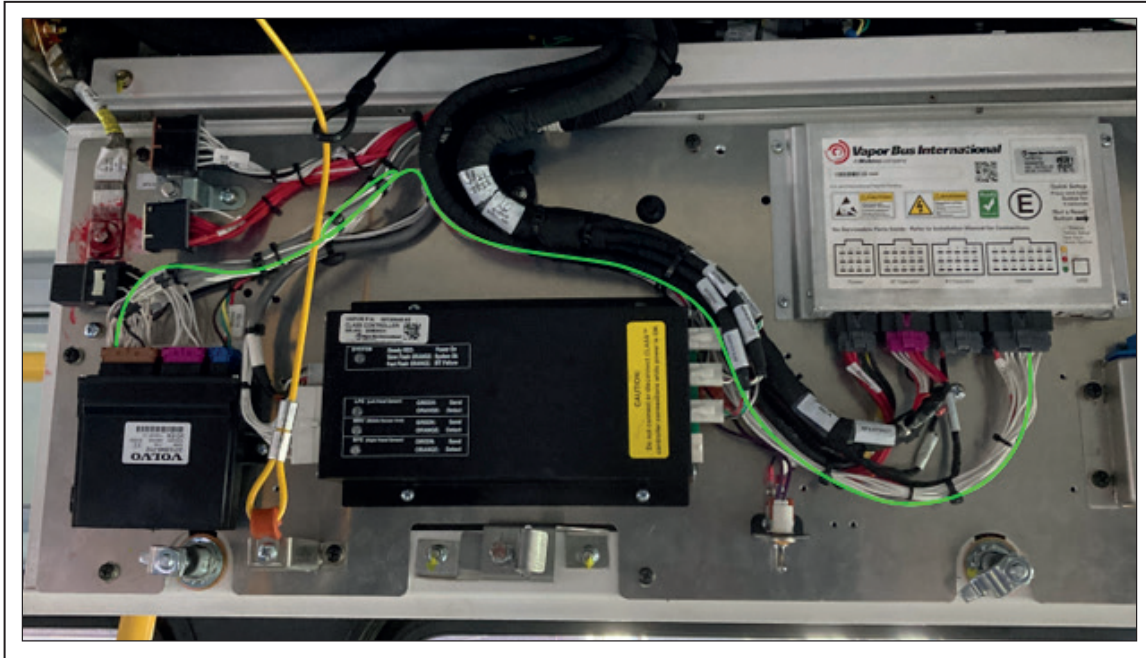


Figure 7 - Insertion of Wire Terminal N37235-02 into IOA 50 Module "J1" Connector Position 13 (RF4-X79H1/13)

- 1.10. Once the terminals have been properly inserted and locked into the connector housings of both modules, proceed to secure wire 79-167 with the provided G5007994 tie wraps, in accordance with Nova's STD 0268 standard requirements.



*Figure 8 - Mount Tie Wraps to Secure Wire 79-167*

- 1.11. Set the battery disconnect switch in the battery compartment to the ON position.
- 1.12. Proceed with CR5221E to update the VBEA multiplex system software.
- 1.13. Finally proceed with CR5222E to check if the vDEC firmware has been properly updated and to perform the abbreviated MRDI check list needed to validate rear door operation before returning the bus into service.❖