

REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical system
RS N°:	MQR 7621-766 & 7621-798
EFFECTIVE IN PROD.:	L773 (2013NO)

APPLICATION DEADLINE: 2016MR15
CLAIM REFERENCE NUMBER: WB-3130

SUBJECT:	Electrical wiring in the RF0 panel
JUSTIFICATION:	The wiring harness routing in the RF0 panel may cause wire damage and may result in a possible short circuit with the DC-DC converter housing.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Adequately route and protect the wiring harnesses.	Nova Bus	Nova Bus	1.25 hre
2	—	—	—	—

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
300 mm	N28083-09	—	Slit convoluted tubing	—
10	G5007995	—	Cable tie	—
1	N65008	—	Cable tie mount	—
LEVEL 2				
—	—	—	—	—

Materials will be available within 21 days. To order, please contact Prevost Parts by phone at 1-800-771-6682, by fax at 1-888-668-2555 or by email at prevostparts.commandes@volvo.com. 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	2015FE16	Initial release	Bertrand Plouffe

APPROVED BY:

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Airdrie Transit - Alberta	L759	—	—	L82U0D3000928	L82U0D3000928	1
Ames Transportation Agency - Iowa	L707	660	661	S92U5C4500159	S92U1C4500160	2
Austin - CMTA - Texas	L635	5001	5001	S92U7C4500163	S92U7C4500163	1
Austin - CMTA - Texas	L636	5002	5022	S92U1D4500306	S92U0D4500328	21
BC Transit - BCT - British Columbia	L735	9435	9440	L82U4C3000848	L82U8C3000853	6
BC Transit - BCT - British Columbia	L736	9441	9446	L82U8D3000854	L82U7D3000859	6
Bow Valley Transit - Alberta	L712	5	6	L82U6C3000804	L82U8C3000805	2
Brantford - Ontario	L718	10123	10125	L82U5C3000826	L82U9C3000828	3
Calgary Transit - Alberta	L709	8181	8200	L82UXC3000806	L82U3C3000825	20
Calgary Transit - Alberta	L733	8201	8202	L82AXD3000926	L82A1D3000927	2
Central Florida Regional Transportation Authority	L725	—	—	S92Y9D4500329	S92Y5D4500330	2
Central Florida Regional Transportation Authority	L764	—	—	S92Y7D4500331	S92Y9D4500332	2
Demo US NIS	L754	—	—	L82U1D4500278	L82UXD4500408	15
Fredericton - New Brunswick	L774	8131	8131	L82U7D3000960	L82U7D3000960	1
Guelph - Ontario	L767	237	239	L82UXD3000967	L82U3D3000969	3
Halifax - Nova Scotia	L708	742	761	L92UXC3000782	S92U3C3000803	20
Halifax - Nova Scotia	L710	1160	1161	L82U7C3000780	L82U9C3000781	2
Houston - Texas	L737	1510	1510	S92U4D4500297	S92U4D4500297	1
Houston - Texas	L755	1511	1579	S92U4D4500333	S92U8D4500402	69
Krapf's Coaches - Pennsylvania (ref. L833)	L754	—	—	L82U4D4500405	L82U4D4500405	1
Minnesota Valley Transit Authority - MVTA	L706	4252	4258	L82U4C4500127	L82UXC4500133	7
Niagara Falls - Ontario	L771	1396	1397	L82U9D3000958	L82U0D3000959	2
Red Deer - Alberta	L726	—	—	L82UXC3000840	L82U1C3000841	2
Regina - Saskatchewan	L748	655	662	L82U3D3000874	L82U0D3000881	8
San Joaquin County - California	L768	—	—	S92L4D4500422	S92L3D4500427	6
Sault Ste-Marie Transit Services - Ontario (ref. L751)	L754	—	—	L82U7D4500284	L82U7D4500284	1
St. John's - Newfoundland	L731	1310	1314	L82U3C3000842	L82U2C3000847	5
Stratford - Ontario	L752	—	—	L82U9D3000863	L82U9D3000863	1
Sudbury - Ontario	L740	831	833	L82U1D3000887	L82U5D3000889	3
Thunder Bay - Ontario	L739	—	—	L82U3D3000860	L82U7D3000862	3
Timmins - Ontario	L720	12-98	12-98	L82U0C3000829	L82U0C3000829	1
Toronto Transit Commission - TTC - Ontario	L729	9000	9000	S92U9D3000905	S92U9D3000905	1
Toronto Transit Commission - TTC - Ontario	L738	9001	9026	S92J6D3001094	S92J7D3001119	26
University of Alabama - Alabama	L671	7024	7025	L82U5C4500119	L82U1C4500120	2
University of Alabama - Alabama	L727	7026	7027	L82U4D4500310	L82U6D4500311	2

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Open the RF0 electrical panel located in the driver area ceiling.
- 1.2. Locate the RF0-X0178A 78 pin connector. See Figure 1.

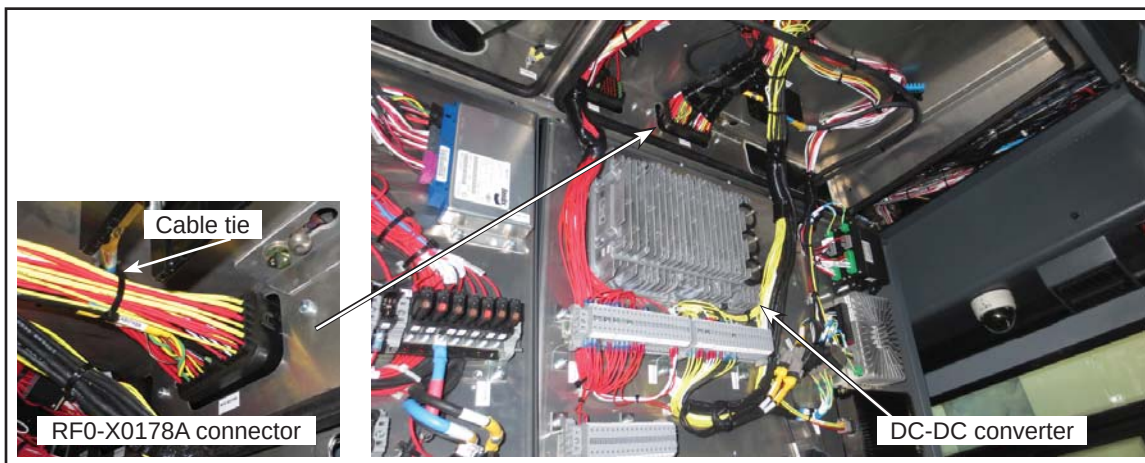


Figure 1 - Location of RF0-X0178A Connector in the RF0 Electrical Panel

- 1.3. Remove the cable tie on the wire harness of the RF0-X0178A connector. See Figure 1.
- 1.4. Remove the light panel located on the other side of the RF0 panel door hinge. Retain the hardware.
- 1.5. Remove the RF0-X0178A connector screw. Retain the hardware.
- 1.6. Disconnect the RF0-X178A connector.
- 1.7. Inspect the wires. Repair the damage as needed.
- 1.8. Divide the wire harness to two bundles from the middle of the connector. See Figure 2.

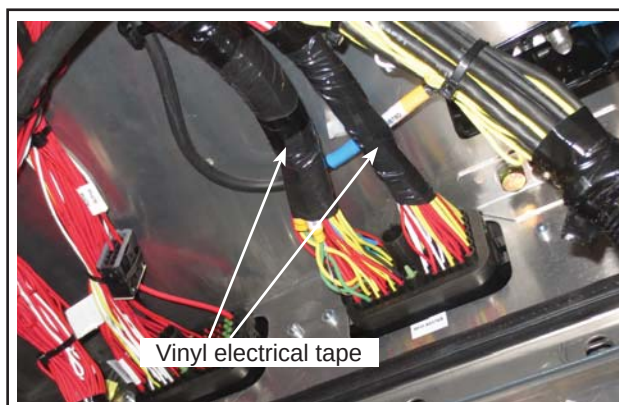


Figure 2 - RF0-X0178A Connector Harness Divided to Two Bundles

- 1.9. Apply vinyl electrical tape on both bundles individually, over 8 inches (20 cm) in length. See Figure 2.

**NOTE**

Make sure NOT to apply tension on the connector wires while taping.

- 1.10. Cut two lengths of 6 inches (150 mm) of N28083-09 slit convoluted tubing.
1.11. Install slit convoluted tubing on each harness half. See Figure 3.



Figure 3 - Split Convuluted Tubing Installation

- 1.12. Apply vinyl electrical tape over the vinyl convuluted tubing and over the wires, over 8 inches in length (20 cm), to close and hold the tubing in place. See Figure 3.

**NOTE**

Make sure NOT to apply tension on the connector wires while taping.

- 1.13. Connect the RF0-X017A connector.
1.14. Install the connector screw. Use the retained hardware.

- 1.15. Install a G5007995 cable tie around the two connector bundles and through the cable tie mount on top of the RF0 panel. See Figure 4. Tighten the cable tie to push up the two bundles toward the RF0 panel top. Make sure the harness does not touch the DC-DC converter when the door is closed.

**NOTE**

Make sure NOT to apply too much tension on the connector wires while tightening the cable tie.

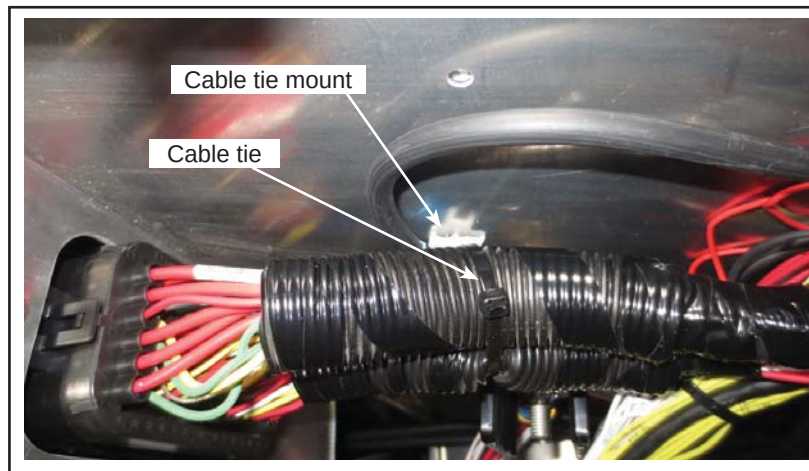


Figure 4 - RF0-X0178A Connector Harness Final Installation

- 1.16. Locate the WHA #78 wire harness. See Figure 5.

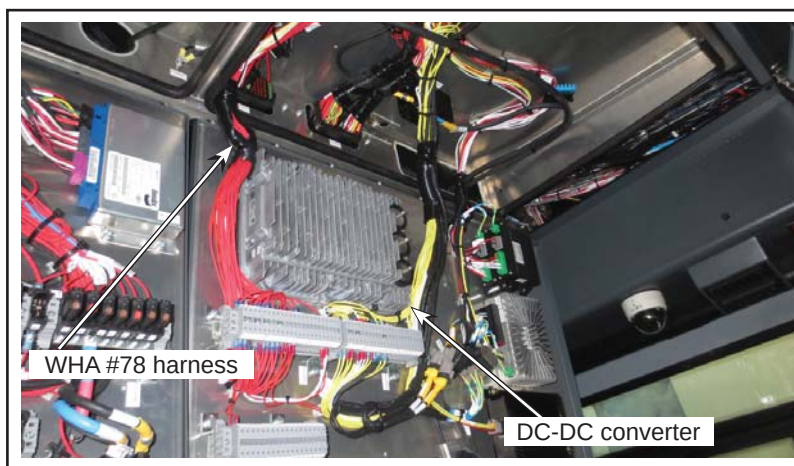


Figure 5 - WHA #78 Wire Harness Location

- 1.17. Remove the cable ties from the split convoluted tubing.
1.18. Remove the split convoluted tubing. Retain the tubing.
1.19. Inspect the wires. Repair the damage as needed.

- 1.20. Install an N65008 cable tie mount if not already in place. See Figure 6.

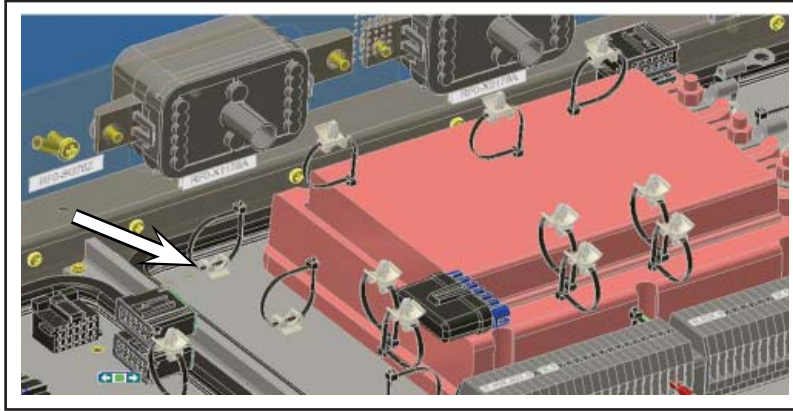


Figure 6 - Location of N65008 Cable Tie Mount to Install

- 1.21. Install the split convoluted tubing over the WHA #78 harness. Use the retained tubing. Rotate the split away from the DC-DC converter.
- 1.22. Apply vinyl electrical tape over one end of the split convoluted tubing and over the wire harness to hold the tubing in place.
- 1.23. Install four G5007995 cable ties around the split convoluted tubing with one passing through the cable tie mount. See Figure 7.

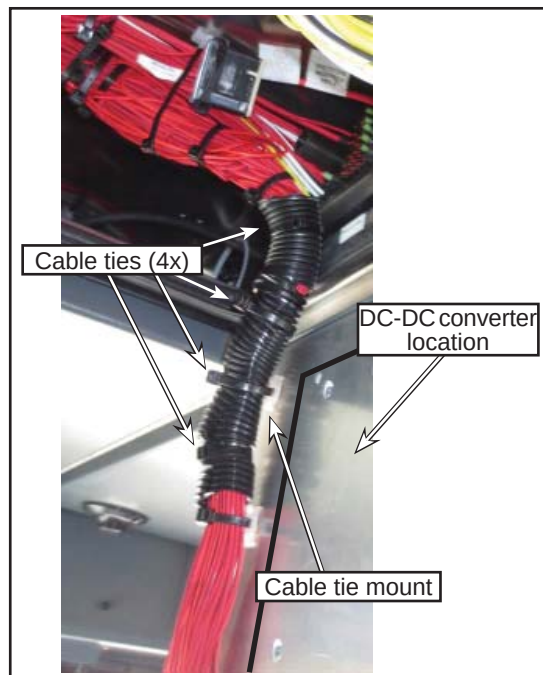


Figure 7 - Four Cable Ties on the Split Convuluted Tubing of the WHA #78 Harness

- 1.24. Install one G5007995 cable tie around the WHA #78 harness and through the cable tie mount. See Figure 8.

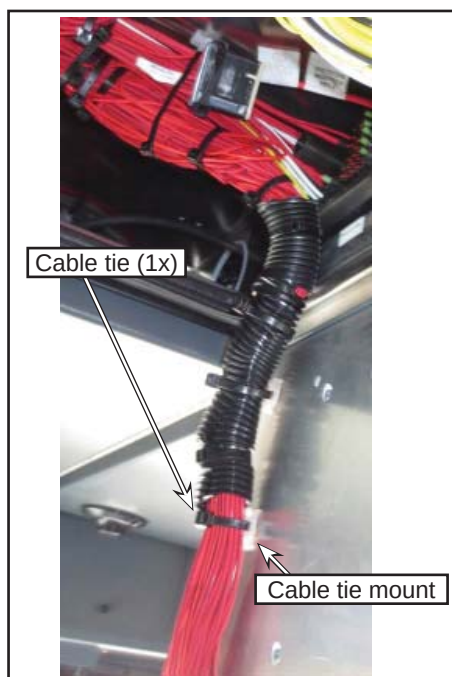


Figure 8 - One Cable Tie on the WHA #78 Harness

- 1.25. Install two G5007995 cable ties around the WHA #78 harness on the other end of the split convoluted tubing to tighten the wires. See Figure 9.

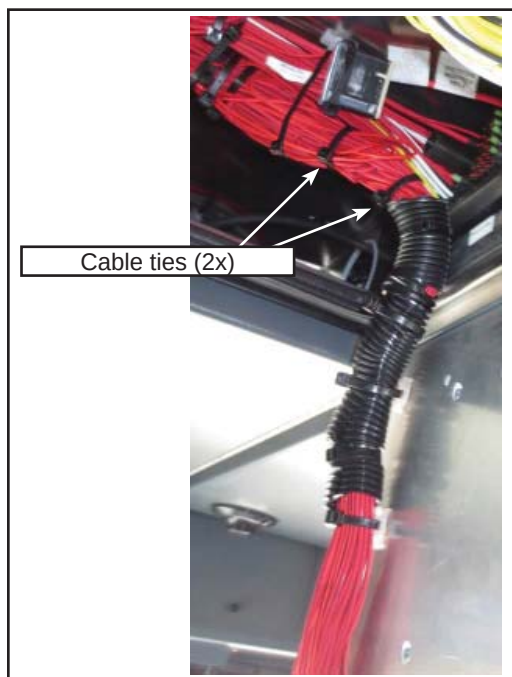


Figure 9 - Two Cable Ties on the WHA #78 Harness

- 1.26. Install two other G5007995 cable ties slightly further up than those in the previous step to attach the WHA #78 harness and the RF0-X1178A connector harness together. See Figure 10.

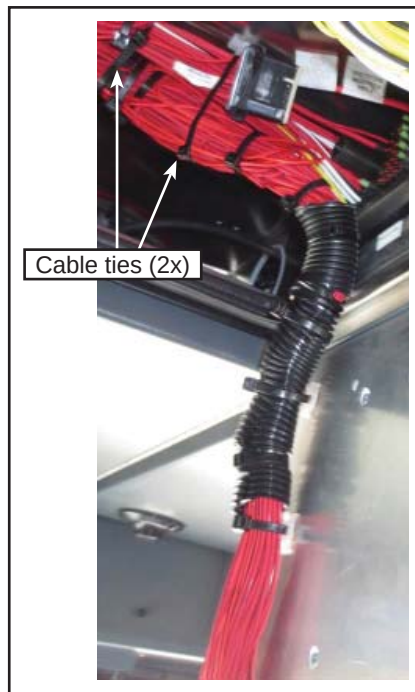


Figure 10 - Two Cable Ties on WHA #78 and RF0-X1178A Harnesses

- 1.27. Gently close the RF0 panel door. Make sure that no wires are in contact with the DC-DC converter. See Figure 11.

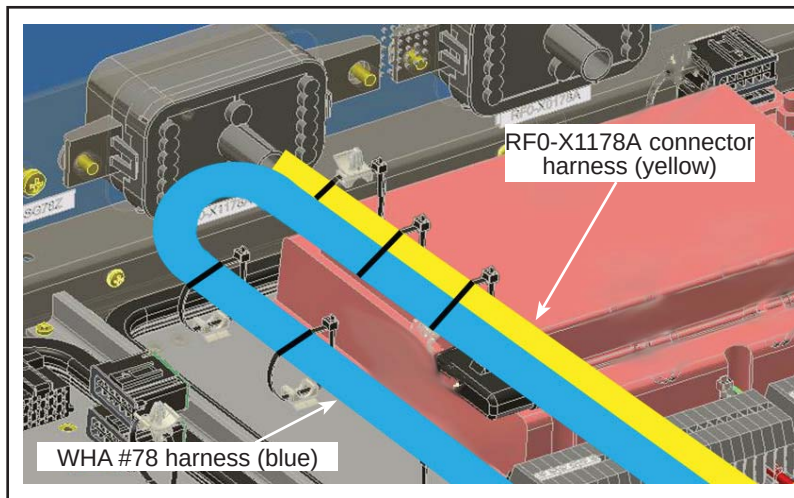


Figure 11 - Proper Harness Routing when RF0 Panel Door is Closed

- 1.28. Install the lights panel located next to the RF0 panel. Use the retained hardware.
1.29. The vehicle may be returned to service. ❖