REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical System
RS Nº:	MQR 7621-1749
EFFECTIVE IN PROD.:	LB63 (2018JN)

APPLICATION DEADLINE:N/A

SUBJECT:	Wire Harness Assembly 64
JUSTIFICATION:	High ambient temperature on exhaust side (after-treatment area) may cause Wiring Harness Assembly 64 wires and connectors to become brittle and fail.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace the Wiring Harness Assembly 64 section going in the after-treatment system area with a new wire kit with thermal protection.	Client	Client	1.5 h
2	–	–	–	–

***MATERIAL LIST ON NEXT PAGE**

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	2020JL17	Initial release	Annie St-Jacques

APPROVED BY: Jean-Nicolas Fournier

Digitally signed by Jean-Nicolas Fournier
DN: cn=Jean-Nicolas Fournier, o=Nova Bus, email=jean-nicolas.fournier@volvo.com, c=CA
Date: 2020.07.17 08:53:22 -04'00'

MATERIAL

QTY	PART Nº	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N632000763	A	KIT WIRE - AFTERTREATMENT #1	–
1	N98386	–	CONNECTOR - HDP24 14 POS RECEPTACLE	–
14	G5900714	B	SOCKET CONTACT	–
1	N11681	A	PLUG, SEALING DEUTSCH CONNECTOR (562288)	–
1	N47411-01	–	PANEL NUT PLASTIC DEUTSCH	–
1	N47411-02	–	LOCK WASHER STEEL DEUTSCH	–
1	N98377	–	BRACKET	–
2	N31595	A	RIVET 3/16"X.0690" SS 0"-0.5"	–
1	N37749	B	DUAL CLAMP TIE	–
LEVEL 1 – SHOP SUPPLY				
25 in	N74787	A	TAPE ELEC CLOTH 19 X 0.27 THK (25 M)	–
Please order the quantities required according to your number of vehicles to rework.				
LEVEL 2				
–	–	–	–	–

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.

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Austin - CMTA - Texas	L635	5001	5001	S92U7C4500163	S92U7C4500163	1
Austin - CMTA - Texas	L636	5002	5022	S92U1D4500306	S92U0D4500328	21
Houston - Texas	L737	1510	1510	S92U4D4500297	S92U4D4500297	1
Houston - Texas	L755	1511	1579	S92U4D4500333	S92U8D4500402	69
Marketing Sales Demo - MSD 6 Houston	L628	—	—	L82U8C4500003	L82UXC4500004	2

WARNING

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

PROCEDURE

1.1. Park the vehicle on a leveled surface and set the transmission shift selector to **NEUTRAL** (**N**).
1.2. Apply the parking brake.
1.3. Set the master control switch to the **ENG STOP** position (**O**).
1.4. Disconnect the starting circuit on the control box at the rear of the vehicle.
1.5. Set the battery disconnect switch to the **DISABLE** position (**OFF**) in the battery compartment.
1.6. Lift the vehicle.

CAUTION

For information on hoisting and towing of the vehicle, see section *18: HOISTING AND TOWING* in the Nova Bus maintenance manual. Use appropriate hoisting equipment for your protection and to prevent damage to the vehicle.

1.7. In the battery compartment, release the anchor bolt holding the battery tray in close position. With the handle, pull out and pivot the tray out of the vehicle. Insert tray's pin in plate's hole to secure the battery tray in open position (Figure 1).

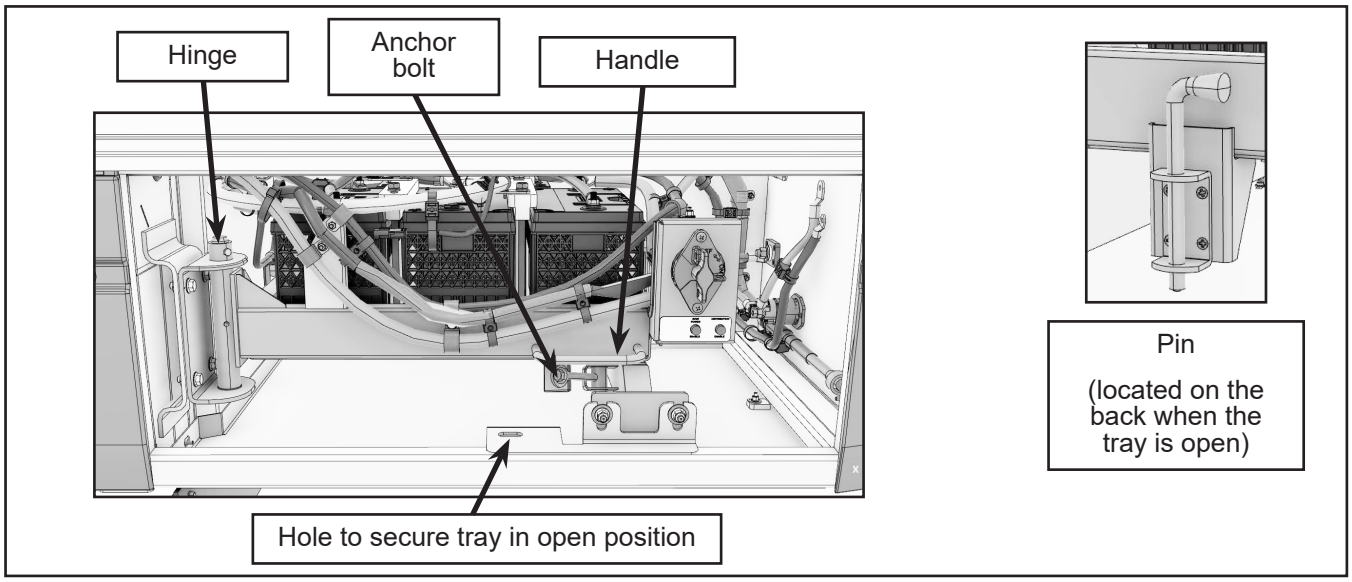

Figure 1 - Battery Tray Opening Overview

1.8. Locate the Wire Harness Assembly (WHA) 64 inside the battery compartment.

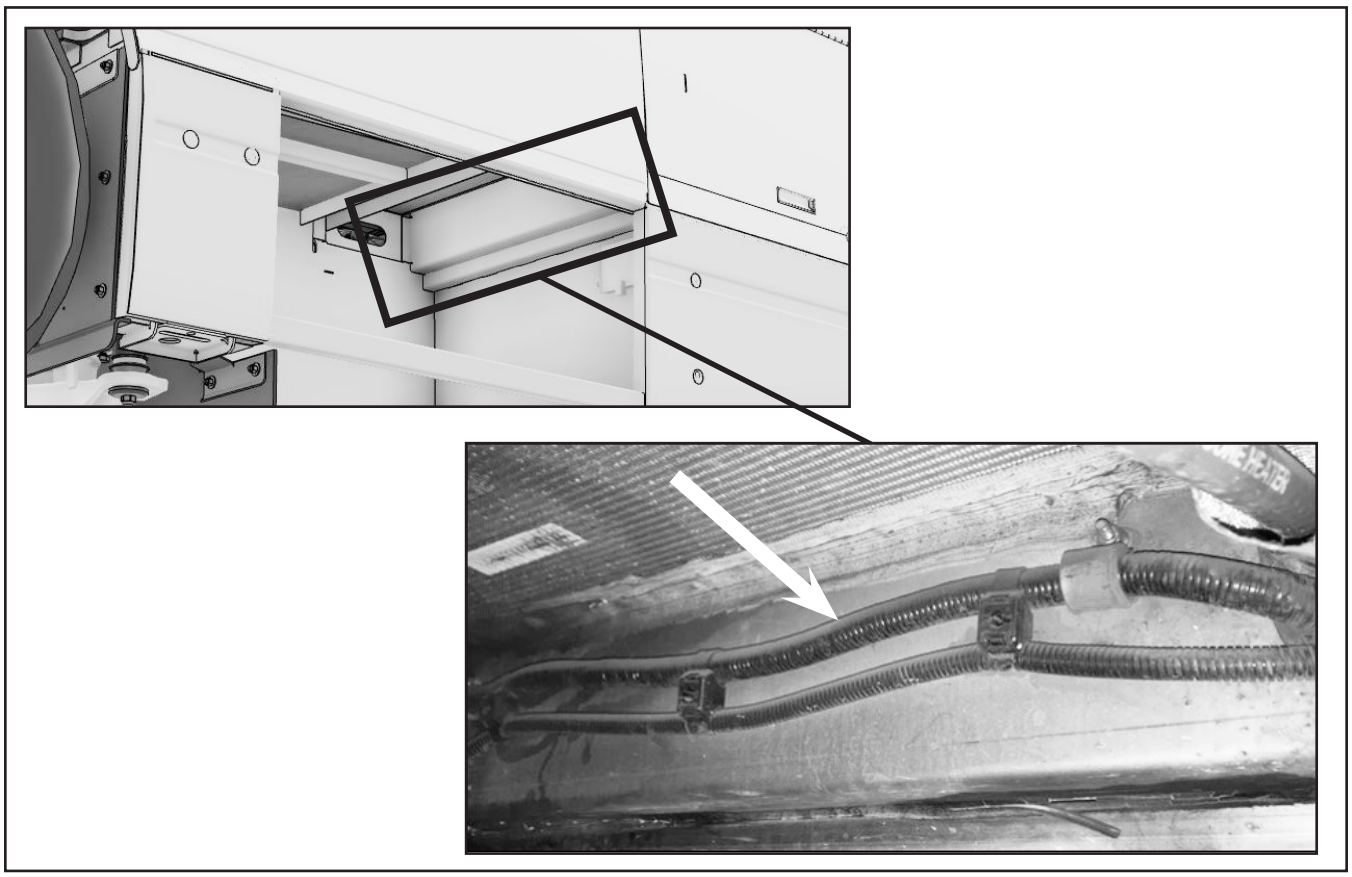

Figure 2 - Location of WHA 64 in Battery Compartment
(Typical Installation — Some Components Removed for Clarity)

CUT AND INSTALL A NEW CONNECTOR ON WHA 64

1.9. From the left side, cut all wires of the breakout of the harness 64 **approximately** at the dimension shown in Figure 3.

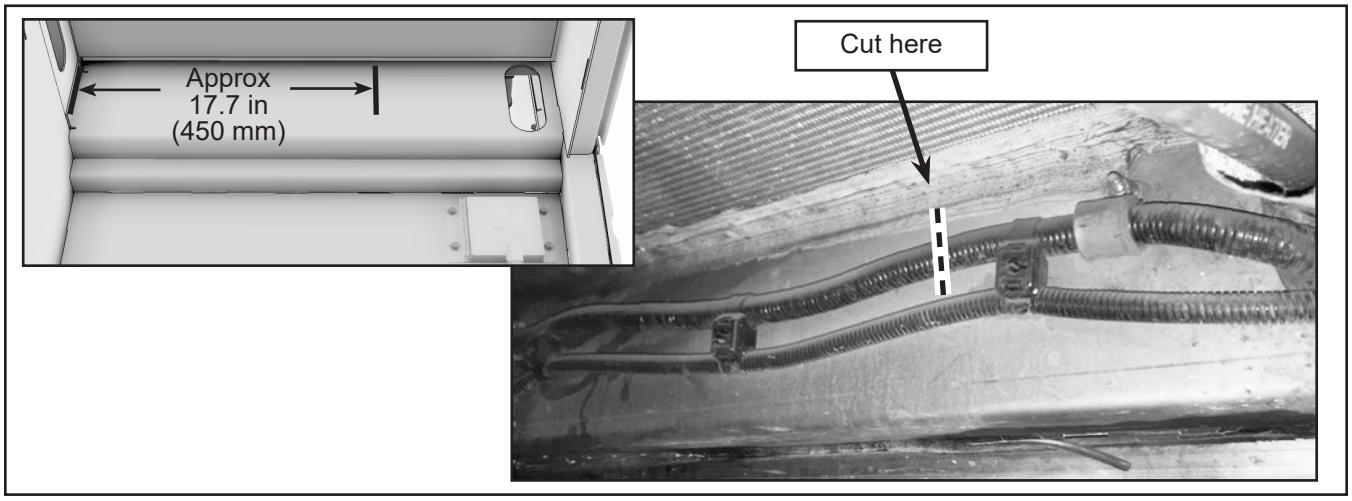

Figure 3 - Cut WHA 64 (Typical Installation)

1.10. For the left section of the WHA 64 (section going towards the center of the vehicle), remove the wires from the convoluted tubing up to the dual clamp tie (the tape and the convoluted tubing can be removed) (Figure 4).

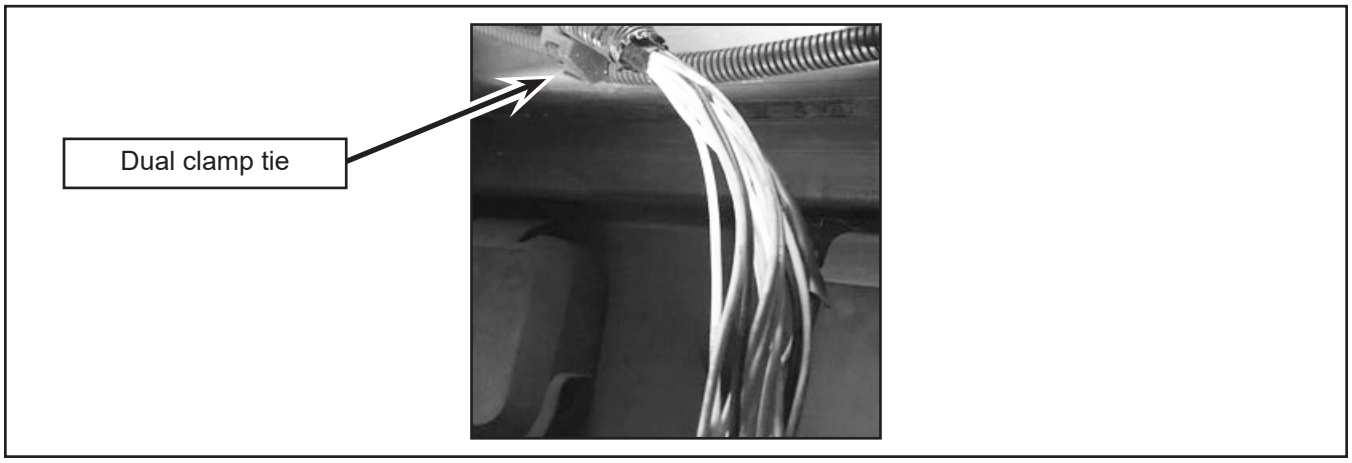

Figure 4 - View of the Cut Section of WHA 64 Removed from the Convoluted Tubing

1.11. On each wire crimp a socket terminal G5900714.

1.12. Insert all wires in the new connector N98386 following the pinout shown in Table 1.

PIN #	WIRE# (GAUGE / COLOR)	PIN #	WIRE# (GAUGE / COLOR)
A	64-221 (16 / WH)	H	—
B	64-224 (16 / WH)	J	64-225 (16 / BK)
C	64-947 (16 / WH)	K	64-223 (16 / WH)
D	64-219 (16 / WH)	L	64-1102 (16 / WH)
E	64-220 (16 / BK)	M	64-946 (16 / WH)
F	64-222 (16 / WH)	N	CAB064FG (YL)
G	64-906 (16 / WH)	P	CAB064FG (GN)

Table 1 - Pinout for New Connector

1.13. Insert a cavity plug N11681 position H of the connector.

1.14. Insert all wires back into the convoluted tubing and wrap with Coroplast tape N74787 up to the new connector.

INSTALL CONNECTOR BRACKET

1.15. Position the new connector bracket N98377 as shown in Figure 5 and mark the two mounting holes position.

1.16. Drill the two holes at the dimension shown in Figure 5 and install the bracket with the two rivets N31595.

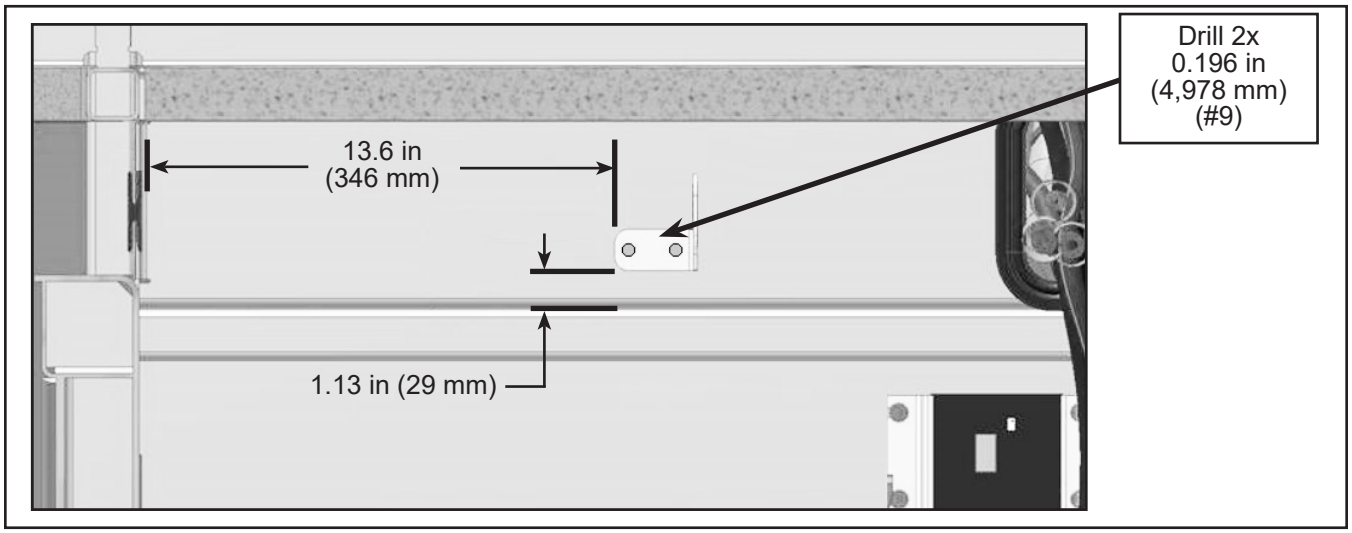

Figure 5 - New Connector Bracket Position and Holes Dimension

1.17. Insert connector into connector bracket and secure with lock washer N47411-02 and nut N47411-01 (Figure 6).

Figure 6 - Connector Installation on Connector Bracket

REPLACEMENT OF THE DAMAGED SECTION OF WHA 64

1.18. Remove and discard the cut section of the WHA 64 going into the engine compartment, around the after-treatment system (Figure 7).

NOTE

Please note the original installation since the new wire kit will follow the same route and use the same securement points.

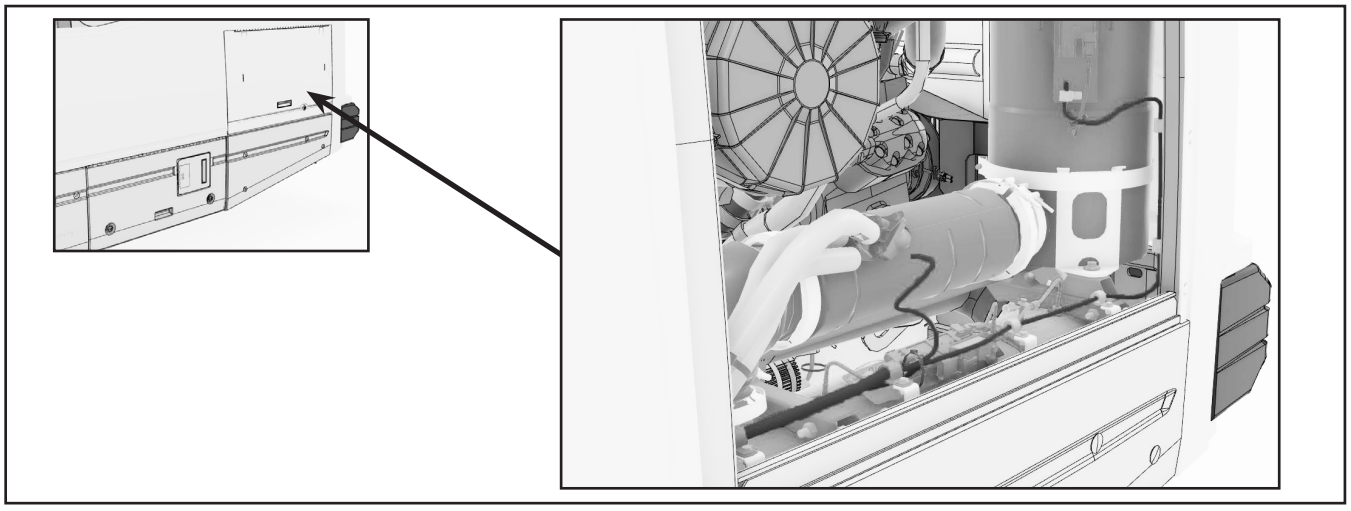

Figure 7 - Section of WHA 64 in Engine Compartment (Typical Installation)

1.19. Connect the new wire kit N632000763 to the connector installed on the connector bracket (Figure 8).

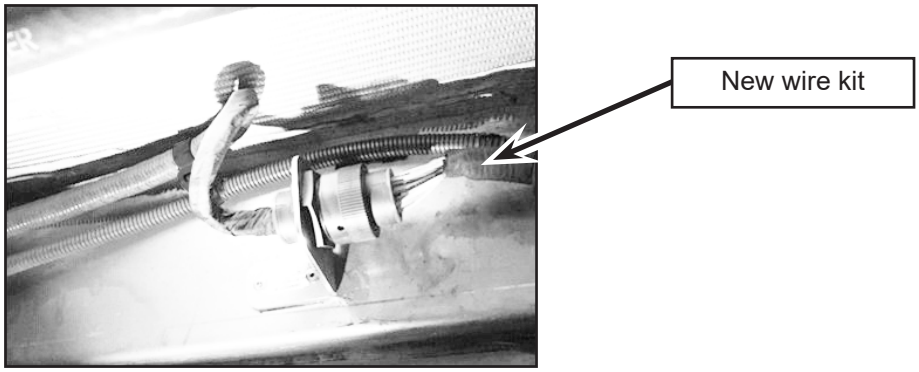

Figure 8 - Connect New Wire Kit

1.20. Secure the wire kit with the harness bundle using a dual cable tie N37749 where needed (not shown).

1.21. Route the wire kit in the engine compartment like the removed old section of the WHA 64. Connect all connectors and secure (ref. Figure 7).

RETURN VEHICLE IN SERVICE

1.22. In the batteries compartment, lift the pin securing the battery tray in open position. Pivot and push the battery tray to slide it in the battery compartment. Tight the anchor bolt to secure the tray in close position.

1.23. Lower the vehicle.

1.24. Set the battery disconnect switch to the **ENABLE** position (**ON**).

1.25. Connect the starting circuit on the control box at the rear of the vehicle.

1.26. The vehicle can return in service. ❖