NOVA BUS

SERVICE BULLETIN BS3933E

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine and Cooling
RS Nº:	MQR 7621-1065
EFFECTIVE IN PROD.:	LB38-01 (2017DE)

APPLICATION DEADLINE: 2019JA19
CLAIM REFERENCE NUMBER: WB-3933

SUBJECT:	Brake Circuit Voltage Out of Range
JUSTIFICATION:	Sporadic illumination of check engine light and transmission light on the dashboard.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Re-routing of wiring harness.	Nova Bus	Nova Bus	6 hr
2	–	–	–	–

MATERIAL

QTY	PART Nº	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N632000549	B	KIT WIRE BRAKE & ACCEL	–
20	G5007996	–	TIE WRAP	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 49 days once your order has been placed. 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	2017SE28	Initial release	Kumaraswamy K S

APPROVED BY: Daniel Theriault

Digitally signed by Daniel Theriault
DN: cn=Daniel Theriault, o=Nova Bus, ou, email=daniel.theriault@volvo.com, c=CA
Date: 2017.09.28 15:01:30 -04'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
SEPTA - Pennsylvania	L724	7300	7301	S92Y1D4500275	S92Y3D4500276	2
SEPTA - Pennsylvania	L728	8600	8600	L82W7D4500335	L82W7D4500335	1
SEPTA - Pennsylvania	L741	7370	7370	S92L4E4500504	S92L4E4500504	1
SEPTA - Pennsylvania	L742	7371	7414	S92L6E4500729	S92L7E4500772	44
SEPTA - Pennsylvania	L743	7355	7369	S92L1E4500489	S92L2E4500503	15
SEPTA - Pennsylvania	L744	8601	8689	L82L7E4500570	L82LXE4500661	89
SEPTA - Pennsylvania	L745	7415	7415	S92L0F4500873	S92L0F4500873	1
SEPTA - Pennsylvania	L746	7416	7454	S92L7F4500952	S92L8F4501012	39
SEPTA - Pennsylvania	L749	7302	7354	S92Y7D4500409	S92L2E4500470	53
SEPTA - Pennsylvania	L861	7300	7484	S92L5G9775188	S92L8G9775220	32

WARNING

Follow your internal safety procedures.

PROCEDURE

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

1.2. Turn the ignition switch to OFF position and engage the parking brake.

1.3. Set the Master control switch in the STOP position (see Figure 1).

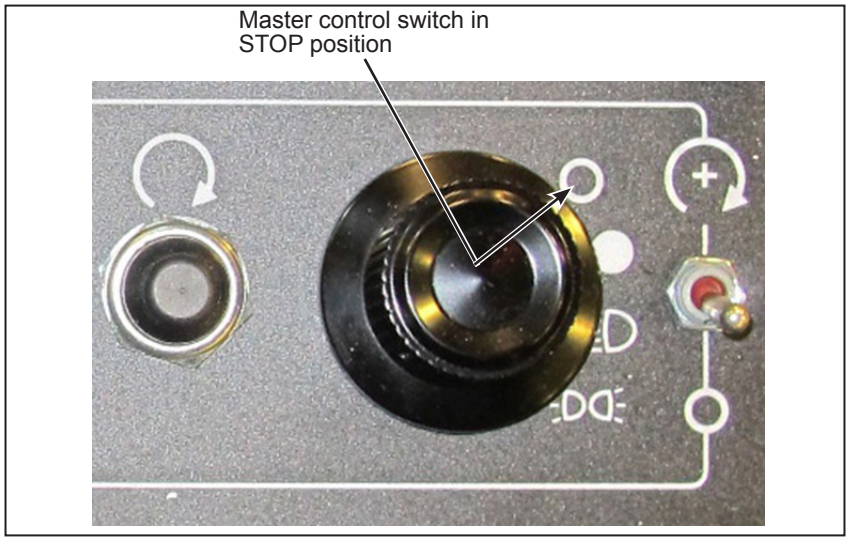


Figure 1 - Master Control Switch in STOP Position

WARNING

Before starting any work on the vehicle, make sure the vehicle is completely and securely stationary. Disconnect the starting circuit on the control box at the rear of the vehicle and place the battery disconnect switches in the off position.

1.4. Disconnect the battery ground cable. Insulate the terminals to avoid accidental grounding.

WARNING

Disconnect the batteries prior to starting any work on the vehicle. See your maintenance manual section *16: BATTERIES* for the procedure.

NOTE

See the manufacturer's manual, supplied by Nova Bus, for additional details and information.

CAUTION

Before removing, dismantling or maintaining any electrical component, the qualified personnal should take the necessary precautions to avoid any risk of personal injury or damage to the equipment. If necessary, mark all wiring prior to disconnecting, to facilitate reconnection. See the COACH WIRING DIAGRAM for further details on electrical circuit power cut-off points.

1.5. Remove and retain the foot guard driver panel and open the dash access doors (see Figure 2).

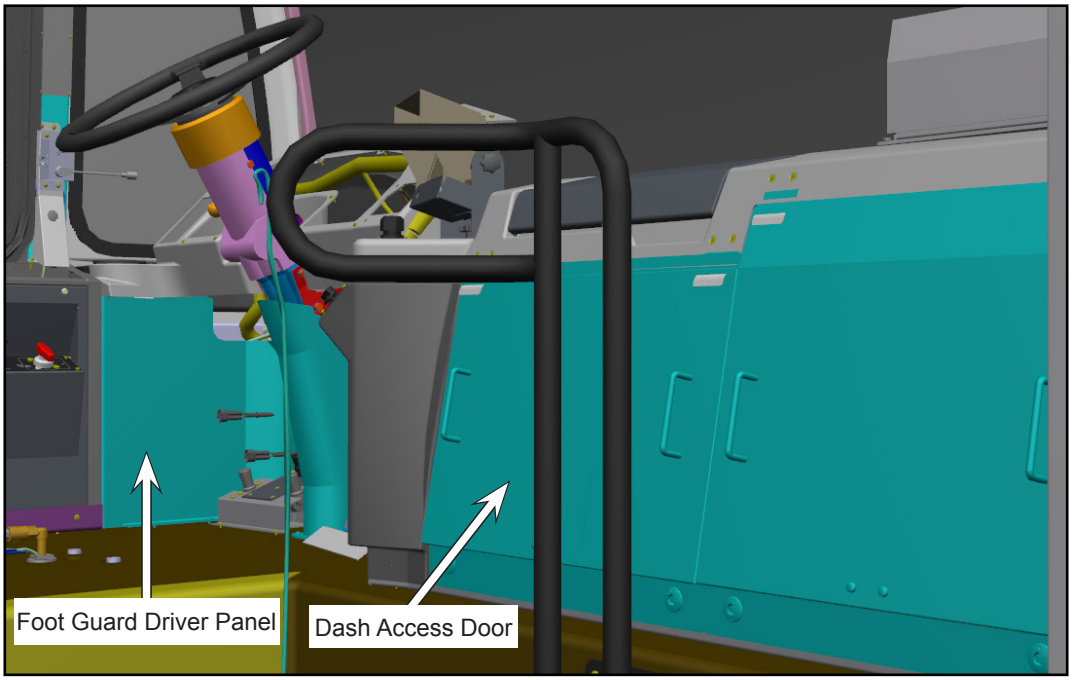


Figure 2 - Typical View of Foot Guard Driver Panel and Dash Access Doors

1.6. Install the cables CAB062VL and CAB062VM (see Figure 3).

1.7. Disconnect the existing connectors in place at positions (+DH-X62DA and +DH-X62D) and secure them on the harness bundle and cable ties.

1.8. Connect the CAB062VL connector at +DH-X62DA position and the CAB062VM connector at +DH-X62D position (see Figure 3).

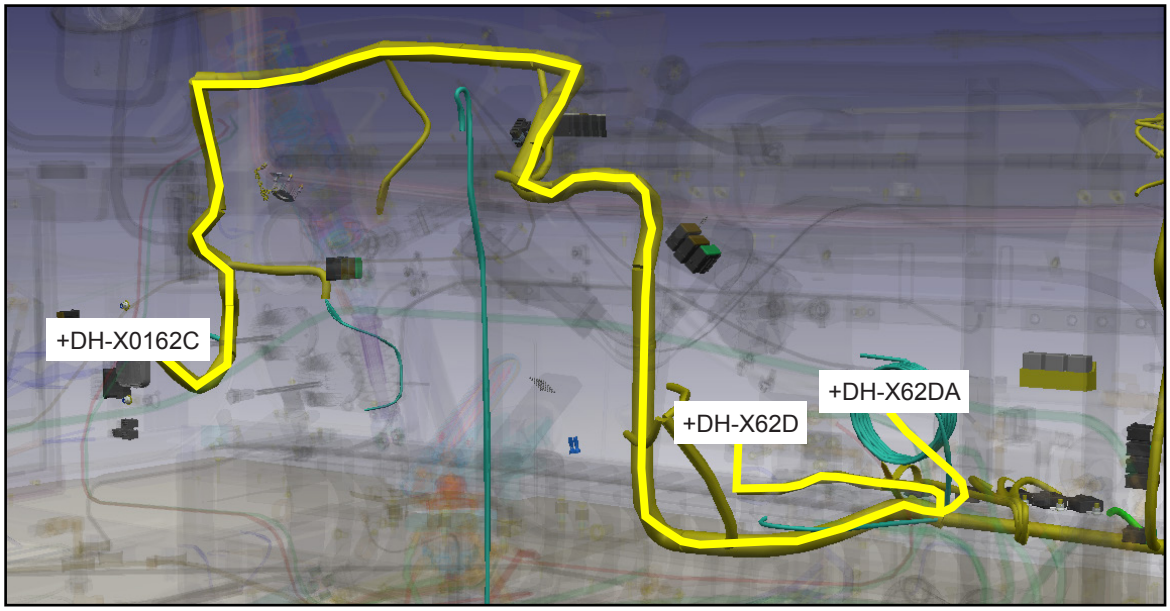


Figure 3 - Typical View of WHA 62 Routing

NOTE

Secure the wires correctly with cable tie. Respect the method described in section 99: GENERAL PRACTICE of the Nova Bus maintenance manual for the attachment of the electrical harness.

1.9. Locate the mating connectors pair +DH-X62W1 / W2, disconnect it and secure the existing connectors on the harness bundle with cable ties (see Figure 4).

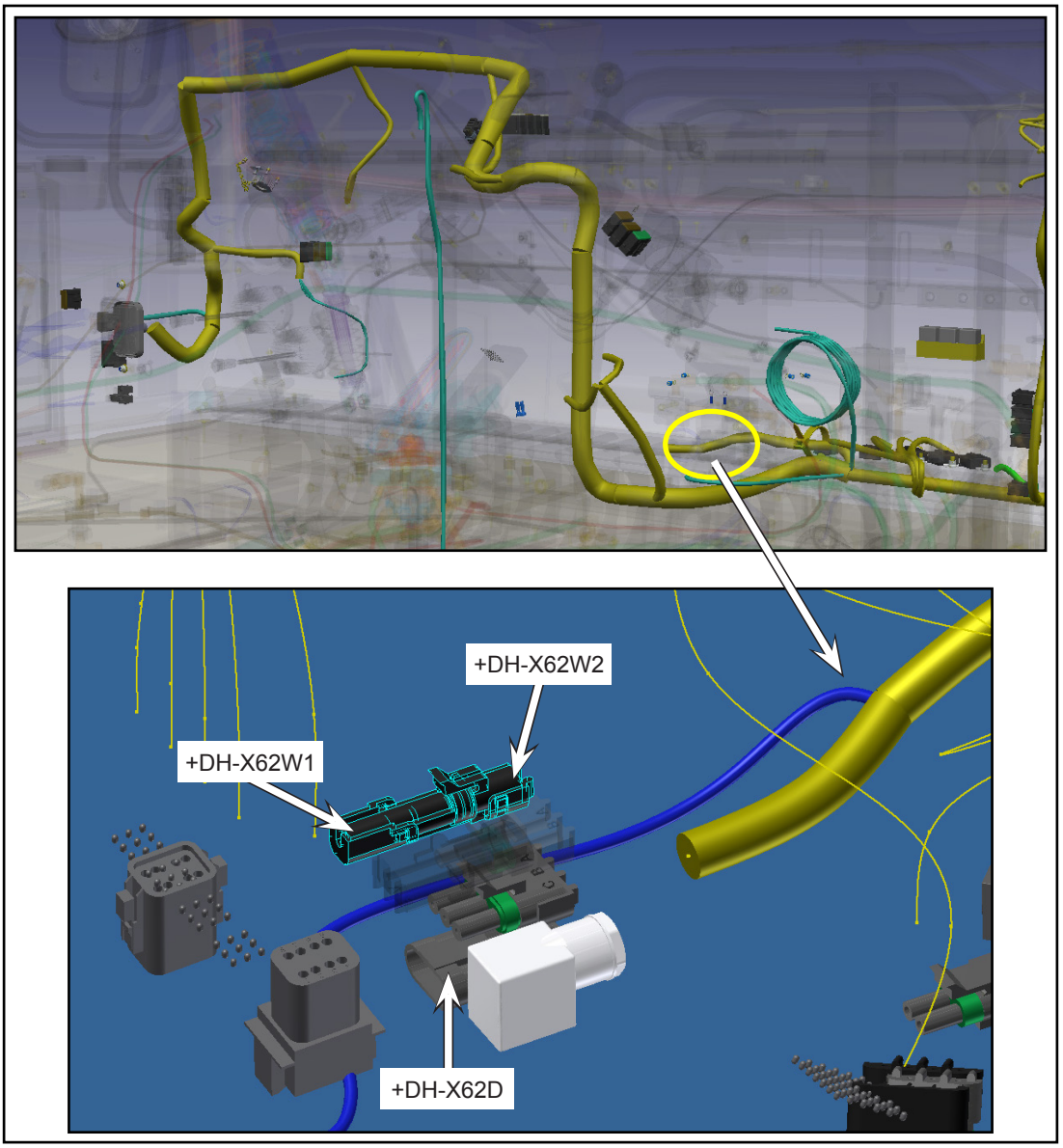


Figure 4 - Location of +DH-X62W1 / W2 Connector Pair

1.10. Disconnect the existing terminals in place at positions (see Table 1),cut the terminals and secure them on the harness bundle with cable ties.

CAB062VL		CAB062VM	
+DH-X0162C	POSITION	+DH-X0162C	POSITION
DRAIN	10	DRAIN	11
RED	1	RED	4
WHITE	2	WHITE	5
BLACK	3	BLACK	6

Table 1 - Connectors Terminal Positions

1.11. Connect the cables CAB062VL and CAB062VM into +DH-X0162C (see Table 1 and Figure 5).

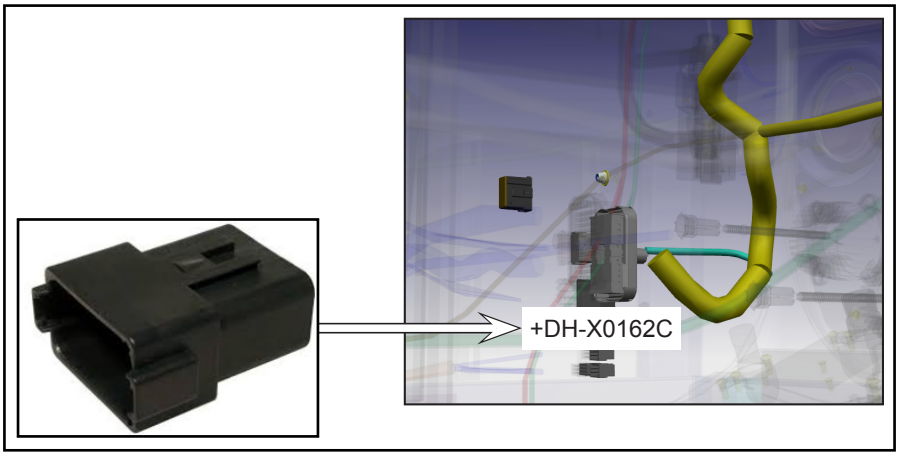


Figure 5 - Connector +DH-X0162C Positioning

1.12. Install the cables CAB001VAA, CAB001VAB and CAB001VAC by following the routing (see Figure 6).

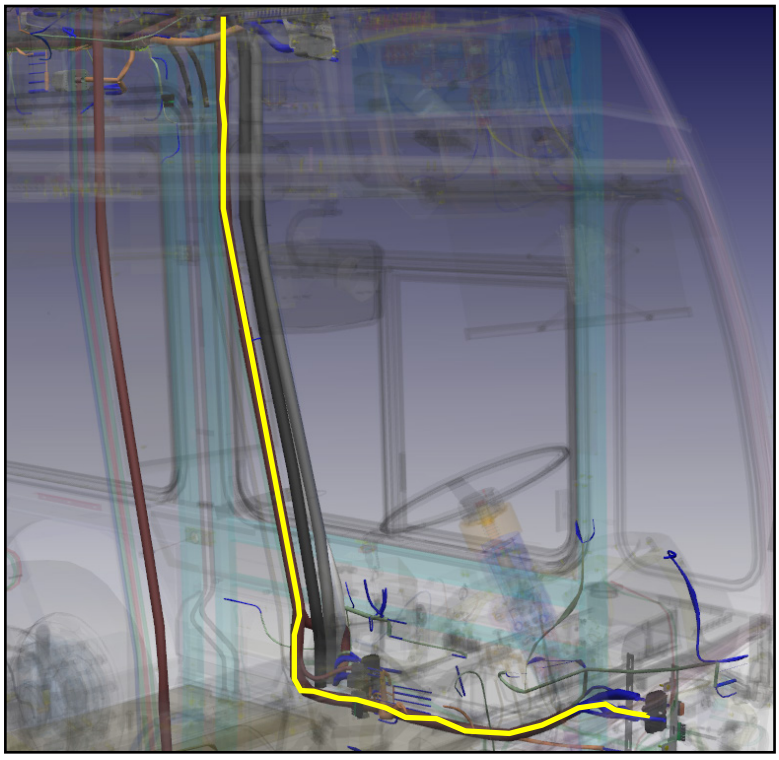


Figure 6 - WHA 01 Routing

1.13. To install cables through the driver partition, remove the driver panel or the baselight panel +BL1 and use a "wire fish tape" through the rear base light compartment (see Figure 7).

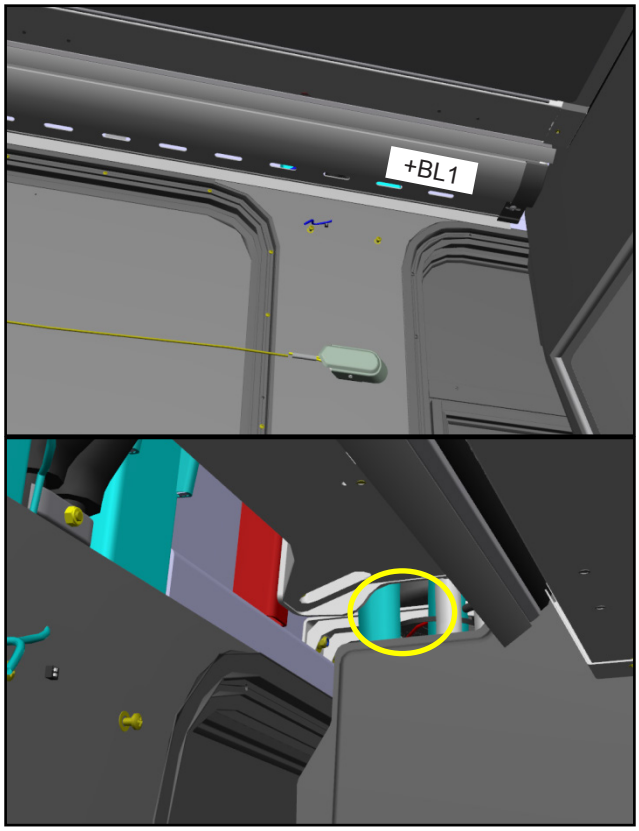


Figure 7 - Rear Base Light Access

1.14. Disconnect the existing terminals in place at positions (see Table 2),cut the terminals and secure them on the harness bundle with cable ties.

1.15. Connect the cables CAB001VAA and CAB001VAB into +DH-X0162C. Also, connect cable CAB001VAC into +DH-X0162A (see Figure 8 and Table 2).

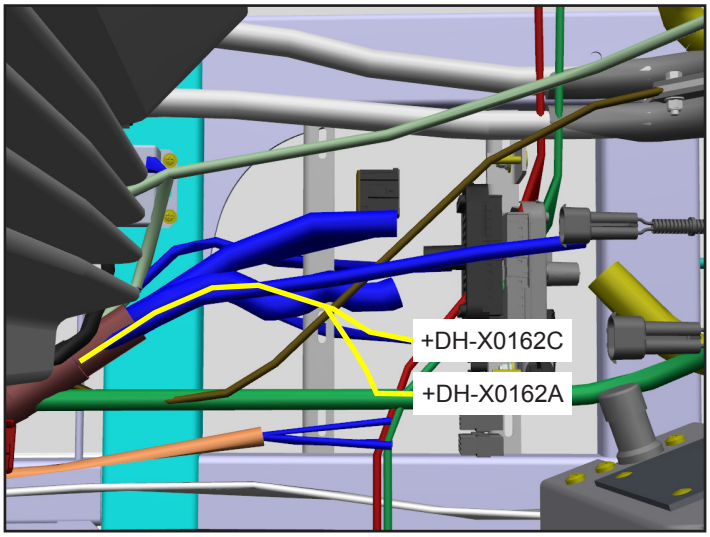


Figure 8 - Connector +DH-X0162C / +DH-X0162A Positioning

CAB001VAA		CAB001VAB		CAB001VAC	
+DH-X0162C	POSITION	+DH-X0162C	POSITION	+DH-X0162A	POSITION
DRAIN	10	DRAIN	11	DRAIN	F1
RED	1	RED	4	RED	F3
WHITE	2	WHITE	5	WHITE	F4
BLACK	3	BLACK	6	BLACK	F2

Table 2 - Connector +DH-X0162C / +DH-X0162A Terminals Positions

1.16. Disconnect the existing terminals in place at positions (see Table 3),cut the terminals and secure them on the harness bundle with cable ties.

CAB001VAC	
+RF0-X0178D	POSITION
DRAIN	J1
RED	C1
WHITE	C3
BLACK	C5

Table 3 - Connector +RF0-X0178D Terminals Positions

1.17. Connect the cable CAB001VAC to +RF0-X0178D (see Table 3 and Figure 9).

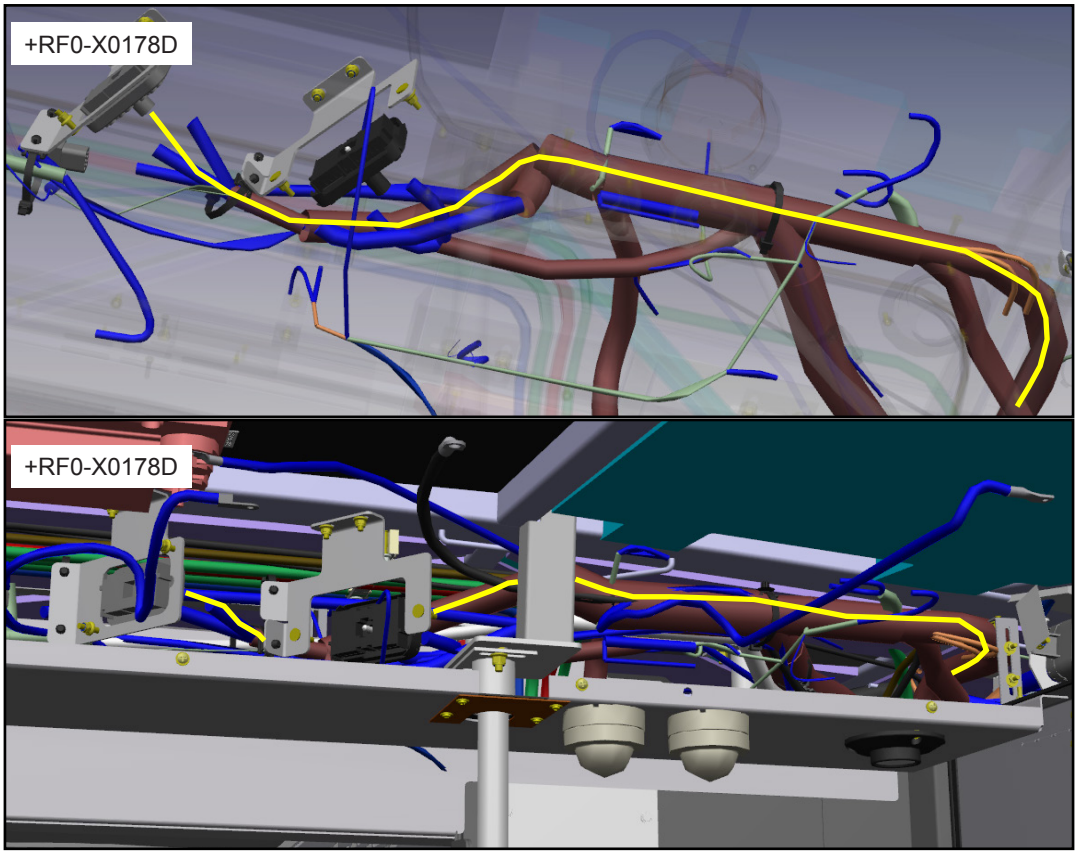


Figure 9 - WHA 01 Routing

1.18. Install the cables CAB001VAA and CAB001VAB by following the routing (see Figure 10).

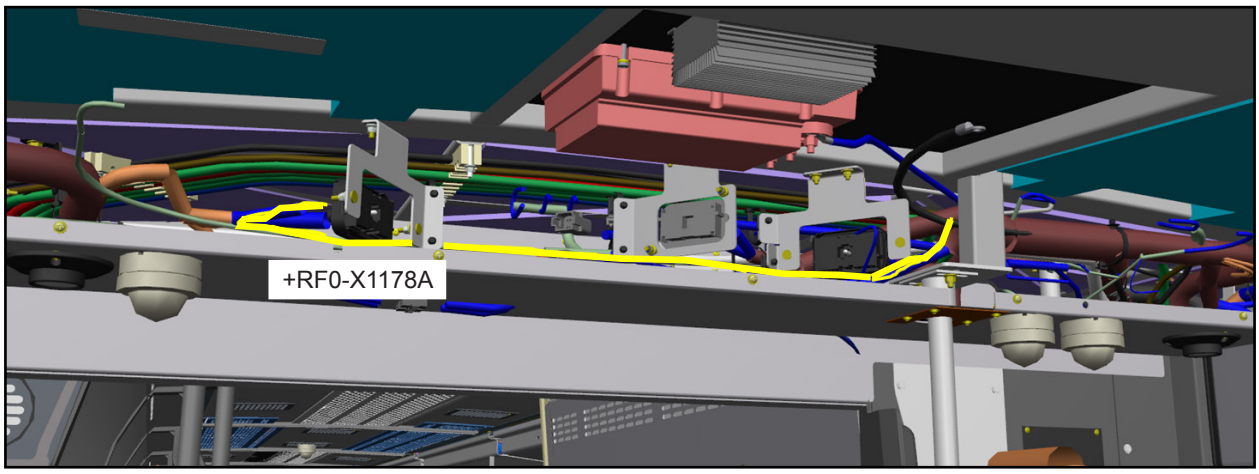


Figure 10 - WHA 01 Routing

1.19. Disconnect the existing terminals in place at positions (see Table 4), cut the terminals and secure the same on the harness bundle with cable ties.

CAB001VAA		CAB001VAB	
+RF0-X1178A	POSITION	+RF0-X1178A	POSITION
DRAIN	L2	DRAIN	L3
RED	E1	RED	E6
WHITE	E2	WHITE	B6
BLACK	E3	BLACK	E5

Table 4 - Connector +RF0-X1178A Terminals Positions

1.20. Connect the cables CAB001VAA and CAB001VAB to +RF0-X1178A (see Table 4 and Figure 11).

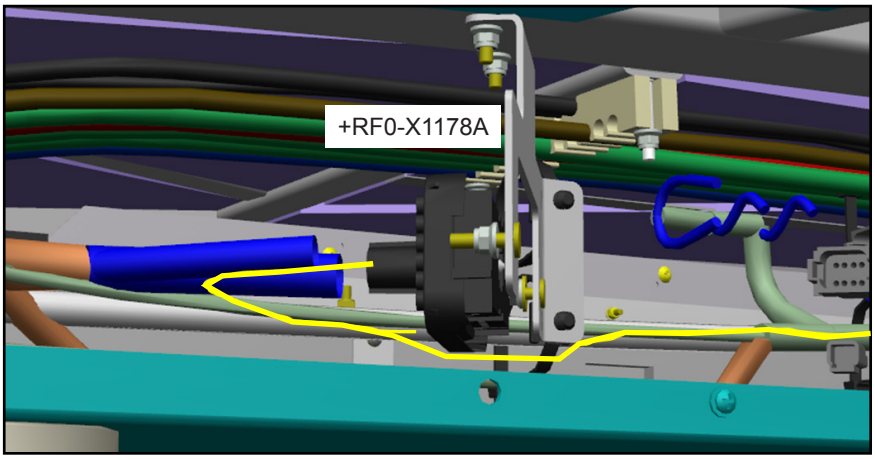
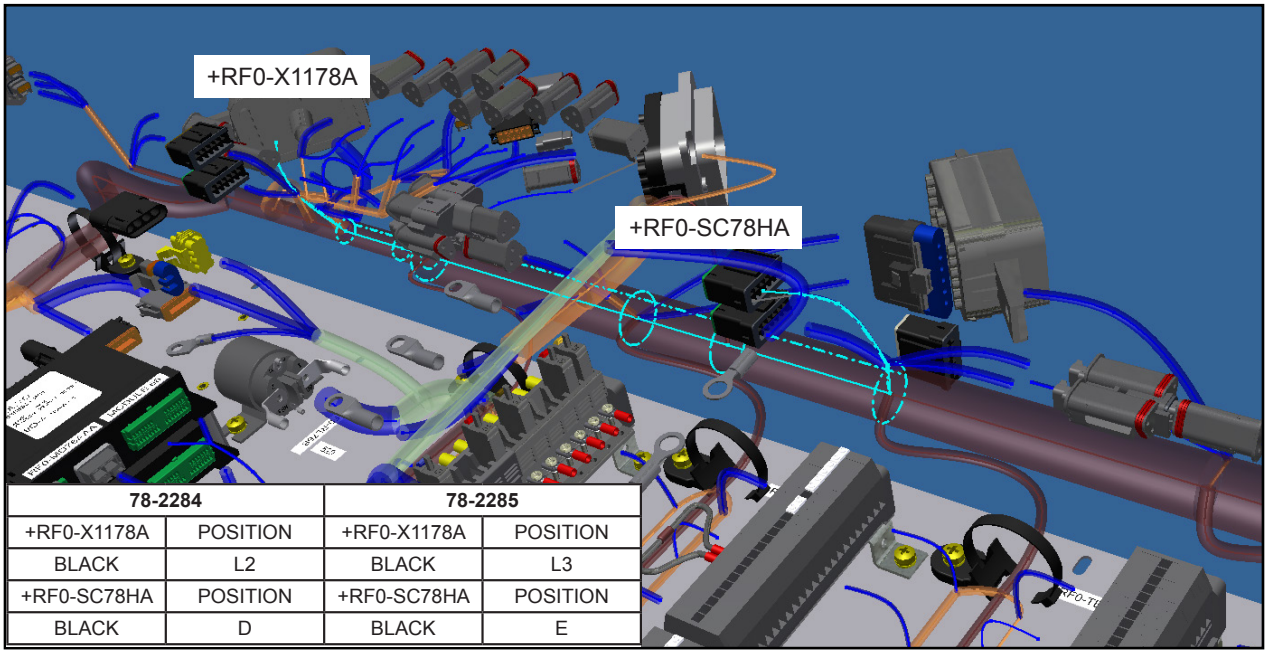


Figure 11 - Connector +RF0-X1178A Positioning

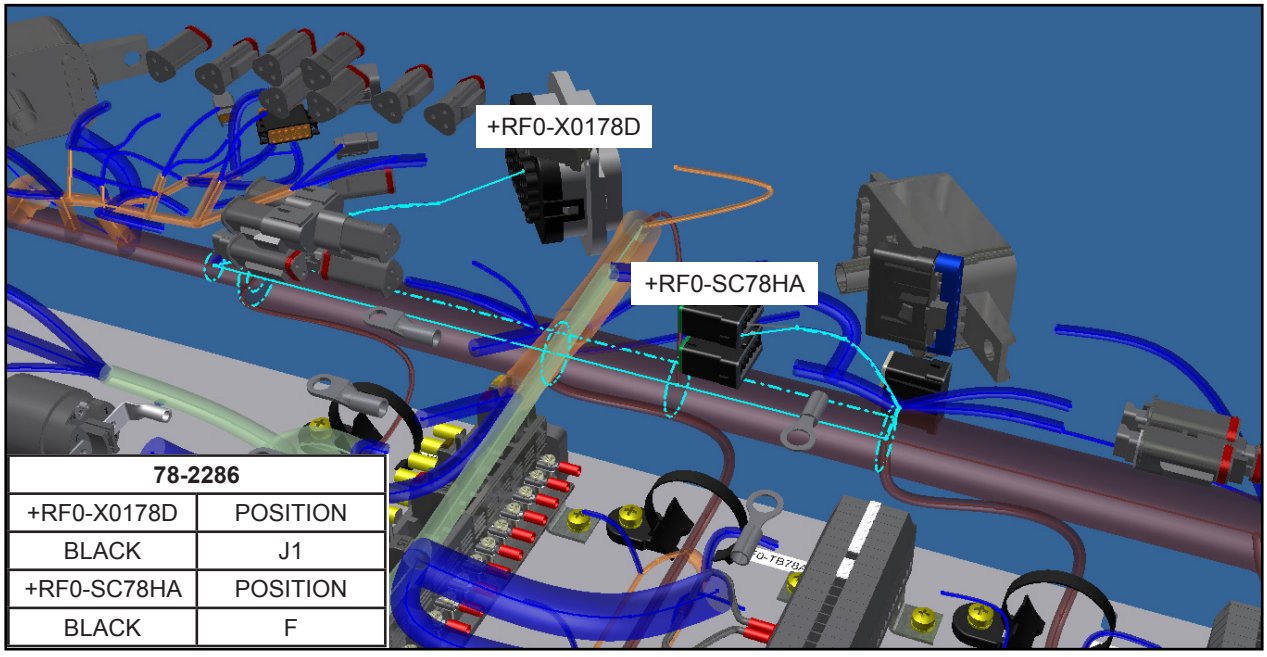
1.21. Inside the +RF0 panel, connect the wires 78-2284 to +RF0-X1178A and 78-2285 to +RF0-SC78HA (see Figure 12).



78-2284		78-2285	
+RF0-X1178A	POSITION	+RF0-X1178A	POSITION
BLACK	L2	BLACK	L3
+RF0-SC78HA	POSITION	+RF0-SC78HA	POSITION
BLACK	D	BLACK	E

Figure 12 - Connectors and Terminals Positions

1.22. Connect the wire 78-2286 to +RF0-X0178D and +RF0-SC78HA (see Figure 13).



78-2286	
+RF0-X0178D	POSITION
BLACK	J1
+RF0-SC78HA	POSITION
BLACK	F

Figure 13 - Connectors and Terminals Positions

NOTE

Make sure that all the routing is proper and are functional before closing the panels.

1.23. Connect the battery ground cable.
1.24. Set the Master control switch in the ON position.
1.25. Start the engine. With the engine running, listen for noises and check for any vibrations.
1.26. Check for proper functioning of the vehicle.
1.27. Close all the panels opened during routing.
1.28. Close the dash access doors.
1.29. Install the foot guard driver panel.
1.30. The vehicle may be returned to service.❖