

REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical system
RS N°:	MQR 7621-619
EFFECTIVE IN PROD.:	N/A

APPLICATION DEADLINE: 2017SE01
CLAIM REFERENCE NUMBER: WB-3046

SUBJECT:	N22759 cable protective sheathing
JUSTIFICATION:	The protective sheathing may be damaged and cause error codes on the diagnostic network.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Cut and insulate damaged wires, install connector sealing plugs and wire kit.	Nova Bus	Nova Bus	2.67 hrs
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N632000381	–	Wire kit	–
5	G5007996	–	Cable tie	–
0.01 RL	N27548-18	–	Heat shrink tubing	–
4	562288	–	Sealing plug Deutsch connector	N11681
LEVEL 2				
–	–	–	–	–

Materials will be available within 35 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	2016JL20	Initial release	Bertrand Plouffe

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
CT Transit - Connecticut	L554	1041	1065	S92U1A4000139	S92U0A4000164	25
CT Transit - Connecticut	L571	1101	1110	S92YXB4000144	S92Y4B4000169	10

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Open the battery compartment.
- 1.2. Disable the vehicle's electrical system by selecting the OFF position at the battery main switch.
- 1.3. Open the engine compartment.
- 1.4. Locate the hydraulic fan control manifold in the engine compartment. See Figure 1.



Figure 1 - Location of the Hydraulic Fan Control Manifold

- 1.5. Locate the +EN-X64AN electrical connector on the hydraulic fan control manifold. See Figure 2.

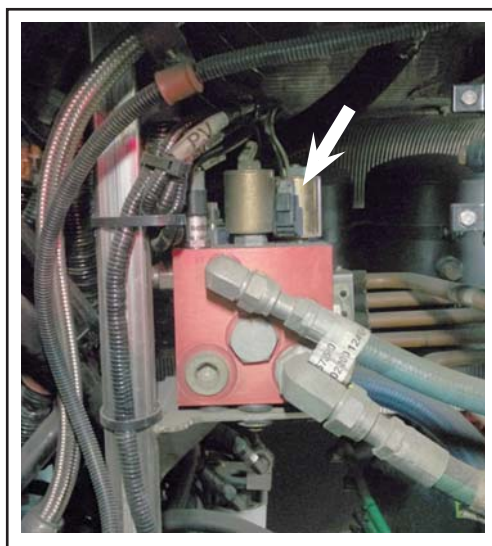


Figure 2 - Location of the +EN-X64AN Connector

- 1.6. Disconnect the +EN-X64AN electrical connector and cut the two wires from the CAB064BB cable close to the connector shell. See Figure 3. Discard the connector.

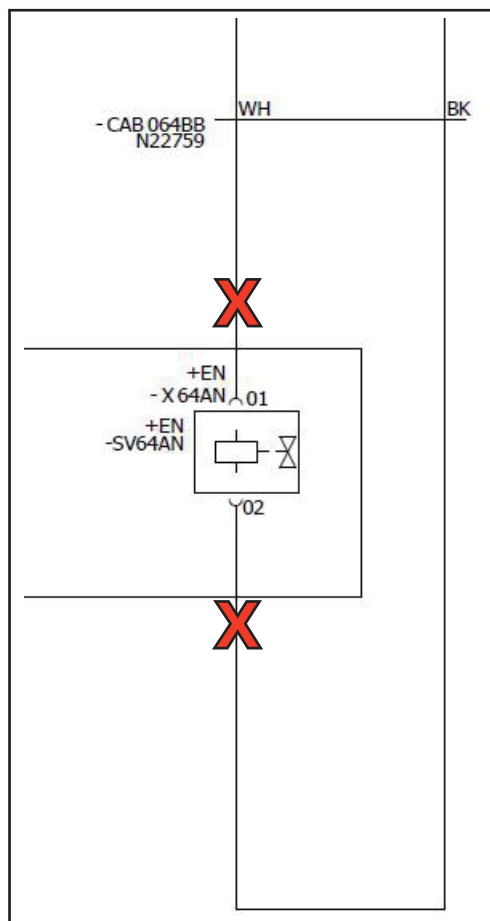


Figure 3 - Wires to be Cutted and Insulated on the +EN-X64AN Connector

- 1.7. Cut two pieces of N27548-18 heat shrink tubing and install a piece on both cut wires to insulate them properly. See Figures 3 & 4.



Figure 4 - Typical Installation of Heat Shrink Tubing on a Cut Wire End

- 1.8. Connect the +EN-X64AN connector from the N632000381 wire kit to the hydraulic manifold.
- 1.9. Locate the +MT-X95K (ECM) electrical connector in the engine compartment. See Figure 5.

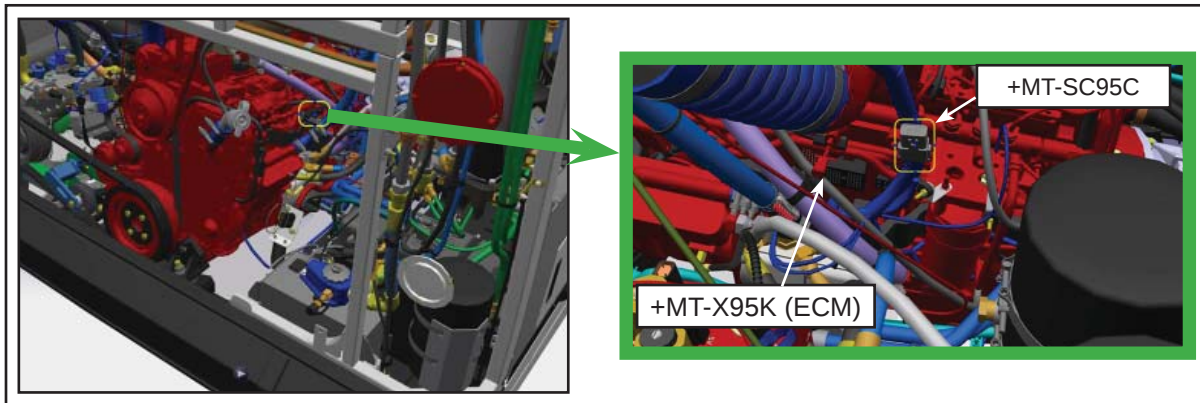


Figure 5 - Location of the +MT-X95K (ECM) and +MT-SC95C Connectors in the Engine Compartment

- 1.10. Remove the CAB095Z cable's 16 WH wire from the +MT-X95K connector (position #15) using the 682256 extractor tool or equivalent. See Figures 6 & 10.

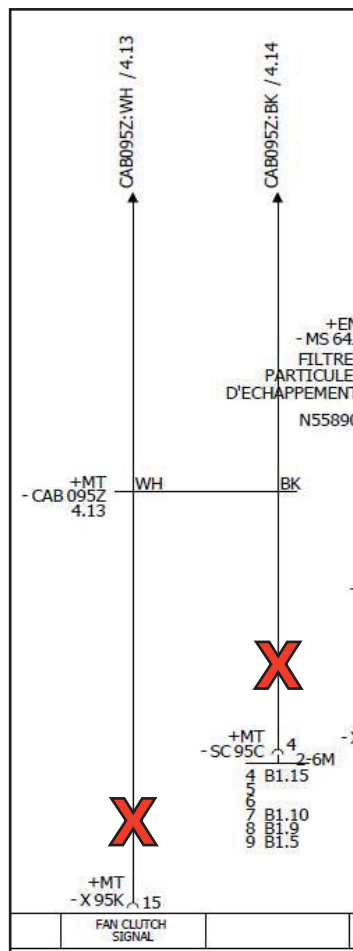


Figure 6 - Wires to be Removed and Insulated on +MT-X95K and +MT-SC95C Connectors

- 1.11. Cut one piece of N27548-18 heat shrink tubing and install it on the cut wire to insulate it properly. See Figures 4 & 6.
- 1.12. Locate the +MT-SC95C (splice connector) in the engine compartment. See Figure 5.
- 1.13. Remove the CAB095Z cable's 16 BK wire from the +MT-SC95C connector (position #4) using the N8904487 extractor tool or equivalent. See Figures 6 & 10.
- 1.14. Cut one piece of N27548-18 heat shrink tubing and install it on the cut wire to insulate it properly. See Figures 4 & 6.
- 1.15. Route the new N632000381 wire kit with a loop. Attach it to the metal structure, go under the +MT-X9564A/61A connector and follow the other vehicle wiring up to the +MT-SC95C connector. See Figure 7. Secure the wire kit with G5007996 cable ties.

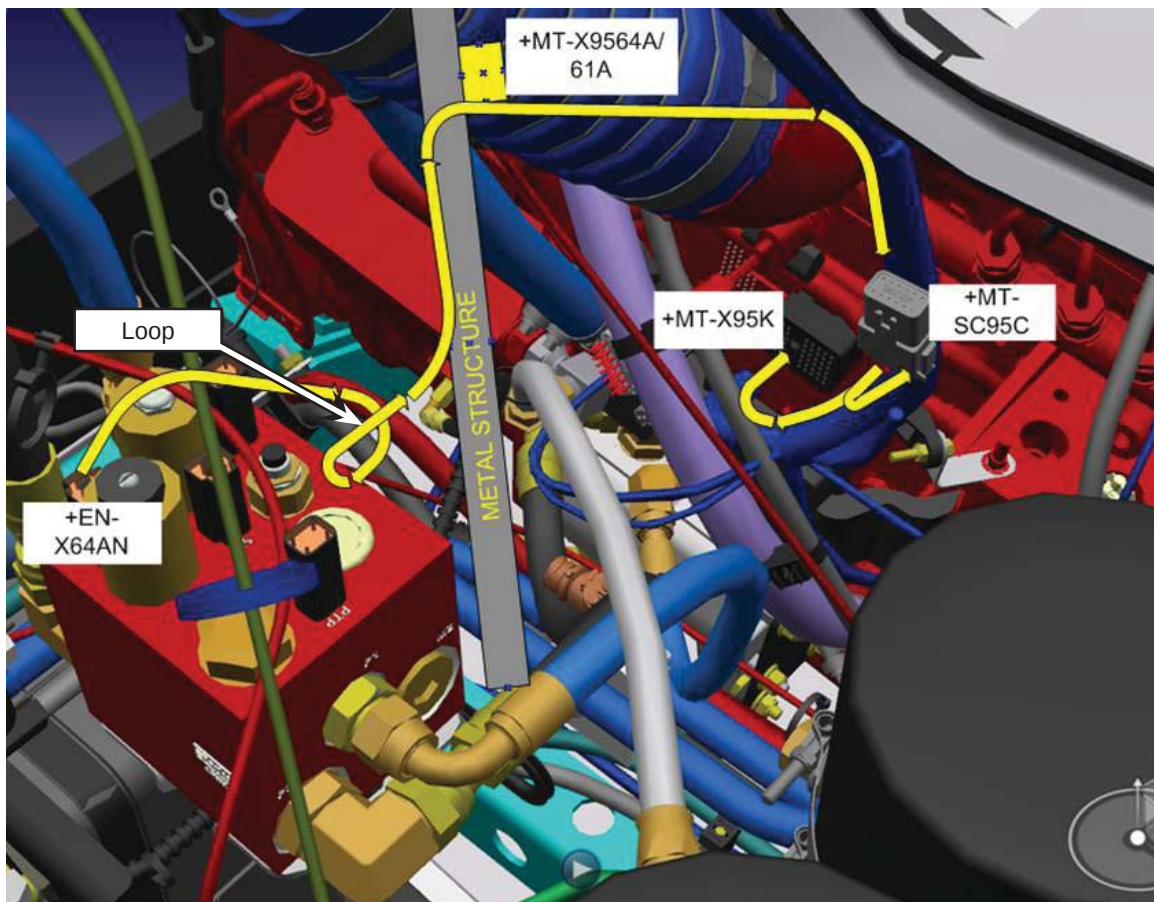


Figure 7 - Routing of the New N632000381 Wire Kit

- 1.16. Install the new N632000381 cable's 16 BK wire in +MT-SC95C connector position #4.
- 1.17. Route the N632000381 cable's last wire (16 WH) by following the other vehicle wiring up to the +MT-X95K connector. See Figure 7.
- 1.18. Install the new N632000381 cable's 16 WH wire in +MT-X95K connector position #15.

- 1.19. Locate the +IB-X6499A connector in the engine compartment. See Figure 8.



Figure 8 - Location of the +IB-X6499A Connector

- 1.20. Remove the pins in positions 40 and 41 of the +IB-X6499A connector using the N8904487 extractor tool or equivalent. See Figures 9 & 10.

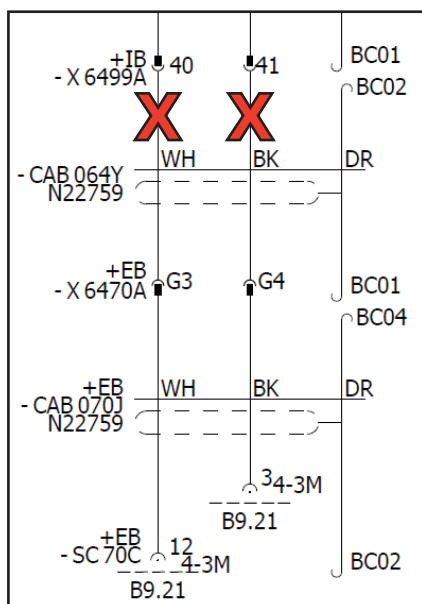


Figure 9 - Wires to be Cut and Insulated, and Sealing Plugs to be Installed on +IB-X6499A Connector

- 1.21. Install a 562288 sealing plug in positions 40 & 41 of the +IB-X6499A connector. See Figure 9.

- 1.22. Cut the pins on the two removed wires (positions 40 & 41 of the +IB-X6499A connector). See Figure 9.
- 1.23. Cut two pieces of N27548-18 heat shrink tubing and install a piece on both wire ends to insulate them properly. See Figures 4 & 9.

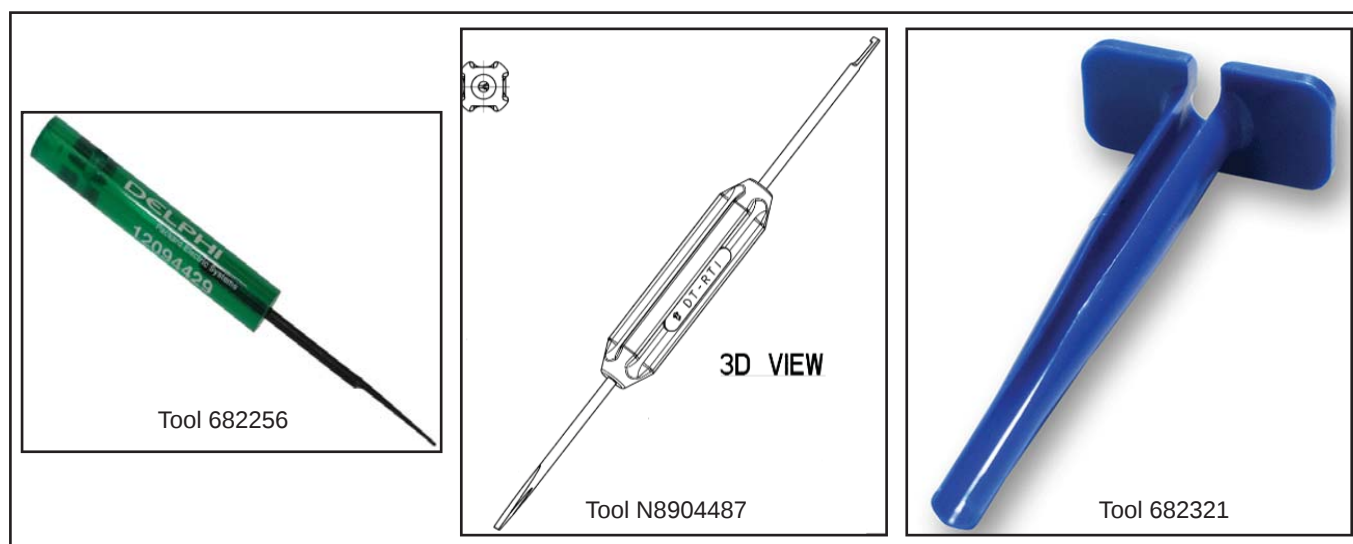


Figure 10 - Typical Connector Pin Extractor Tools

- 1.24. Locate the +EB-X70A connector in the engine compartment. See Figure 11.



Figure 11 - Location of the +EB-X70A Connector on the Engine Control Module

- 1.25. Remove the pins in positions F & G of the +EB-X70A connector using the 682321 extractor tool or equivalent. See Figures 10 & 12.

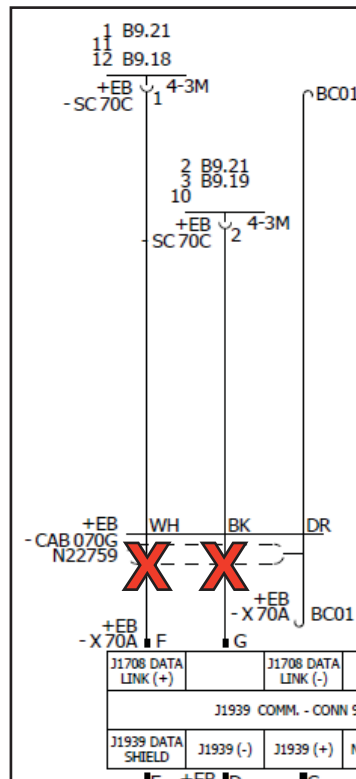


Figure 12 - Wires to be Cut and Insulated, and Sealing Plugs to be Installed on the +EB-X70A Connector

- 1.26. Install a 562288 sealing plug in positions F & G of the +EB-X70A connector. See Figure 12.
- 1.27. Cut the pins on the two removed wires (positions F & G of the +EB-X70A connector). See Figure 12.
- 1.28. Cut two pieces of N27548-18 heat shrink tubing and install a piece on both wire ends to insulate them properly. See Figures 4 & 12.
- 1.29. Close the engine compartment.
- 1.30. Enable the vehicle's electrical system by selecting the ON position at the battery main switch.
- 1.31. The vehicle may be returned to service. ❖