

REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical System
RS N°:	MQR 7621-838
EFFECTIVE IN PROD.:	2016FEB

APPLICATION DEADLINE: 2017JA27
CLAIM REFERENCE NUMBER: WB-3517

SUBJECT:	Replacement of 24-volt and HVAC cables in EGS
JUSTIFICATION:	Cable lugs may break.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Install new flexible cables with heavy duty lugs.	Nova Bus	Nova Bus	90 min
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N83720-02	–	24-volt CABLE ASM C817 0 AWG BK-RD	N69598
1	N83719-02		HVAC CABLE ASM C818 0 AWG BK-RD	N69579
16	G5007996	–	CABLE TIE	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 42 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	2015DEC15	Initial release	André Pelletier
R1	2016AL04	Order removed from the client list are equipped with Allison transmission and, therefore, need to be repaired under CR3597E	Luc Carignan
R2	2016MA02	Text corrected with part number N83719-02 on p.5	André Pelletier

Symbol	Meaning
Empty Field	No changes, the procedure applies
+	Contract added, the procedure applies
-	Contract removed, the procedure does not apply

	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
			FROM	TO	FROM	TO	
	Clemson Area Transit - South Carolina	L769	—	—	S92U1D4500418	S92U1D4500418	1
-	LYNX - Florida	L725	—	—	S92Y9D4500329	S92Y5D4500330	2
-	LYNX - Florida	L764	—	—	S92Y7D4500331	S92Y9D4500332	2
-	LYNX - Florida	L785	—	—	S92L6E4500505	S92L8E4500506	2

**WARNING**

Follow your internal safety procedures.

**WARNING**

Before starting any work, make sure the vehicle is completely and securely stationary. Place the battery disconnect switch in the off position. The 24-volt and HVAC cables are continuously live. Ask for a qualified electrician to disconnect the battery.

PROCEDURE

- 1.1. Remove the articulation ceiling cover curtains from the inside of the bus in order to access Energy Guidance System (EGS) components. Retain parts for re-installation.



*Figure 1 - EGS Cable Location
(some items removed for clarity)*

- 1.2. Push back the red protective boots and remove the 24-volt and HVAC power cables. Do not cut the cable ties holding the coolant hoses together. See Figures 2 and 3 (some parts removed for clarity).

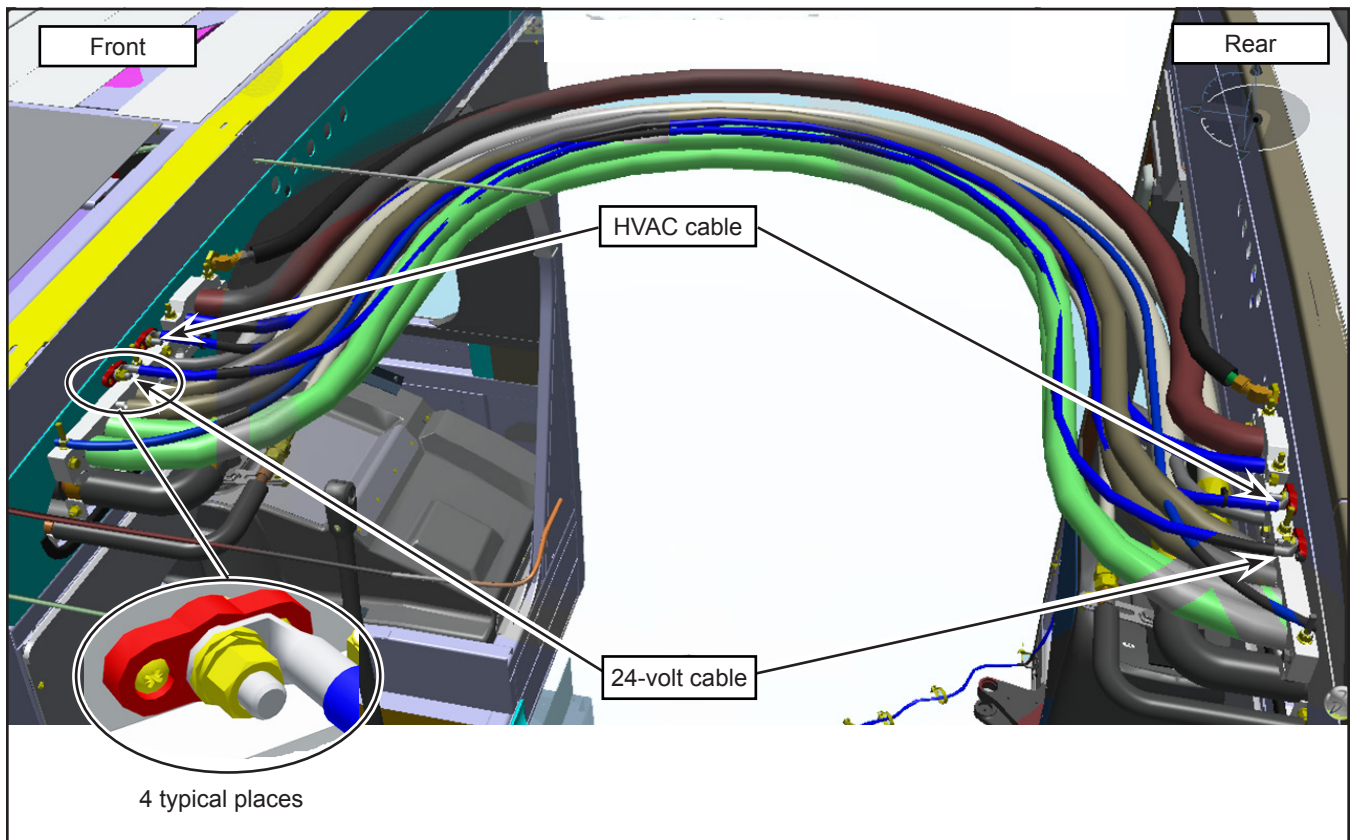


Figure 2 - Remove Cables

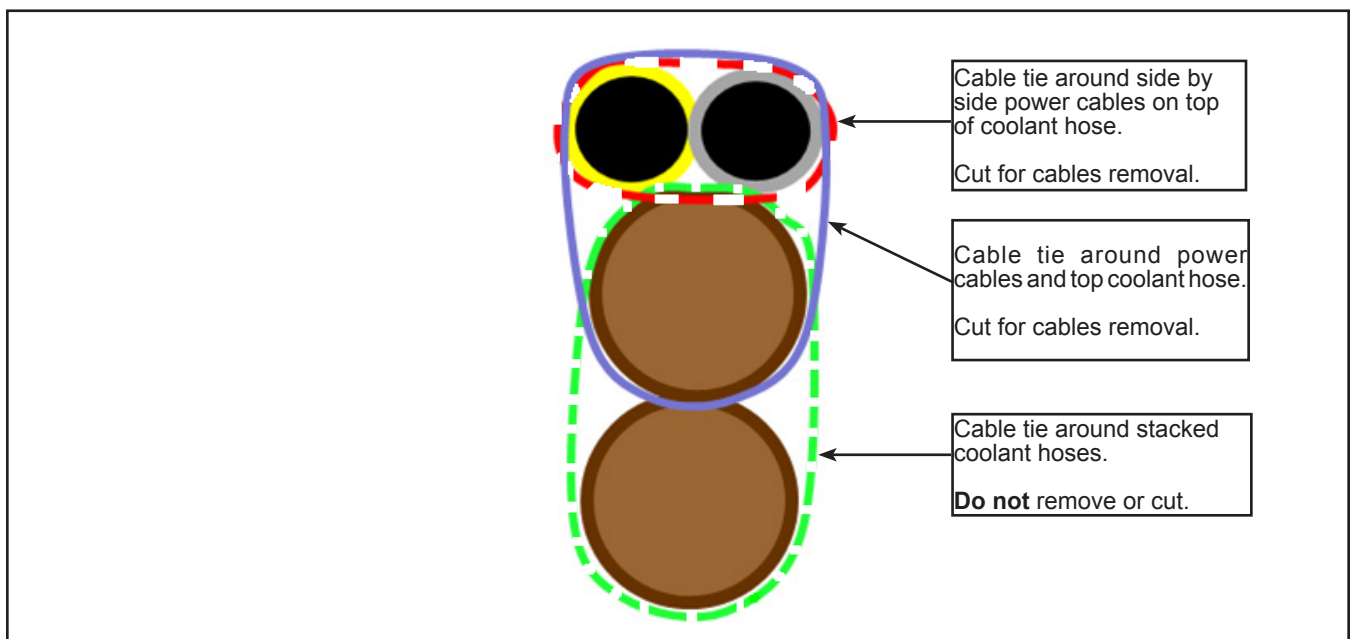


Figure 3 - Cable Tie Positions

- 1.3. Position the new HVAC cable N83719-02 and 24-volt cable N83720-02 per Figures 4 and 5. Add cable ties to keep the cables in place but do not tighten them yet. Using the middle of the EGS system as the starting point, route the 2 cables evenly towards the front and the rear.

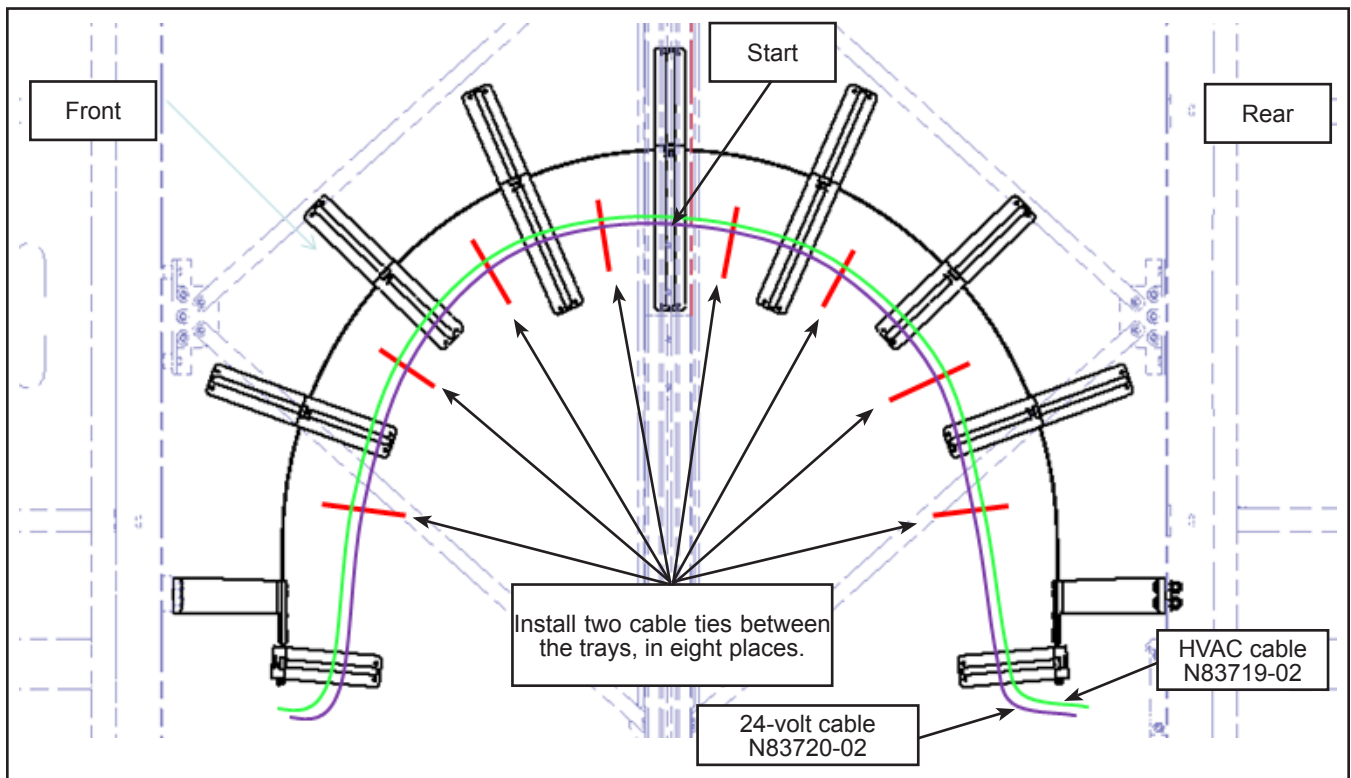


Figure 4 - Install the New Cables

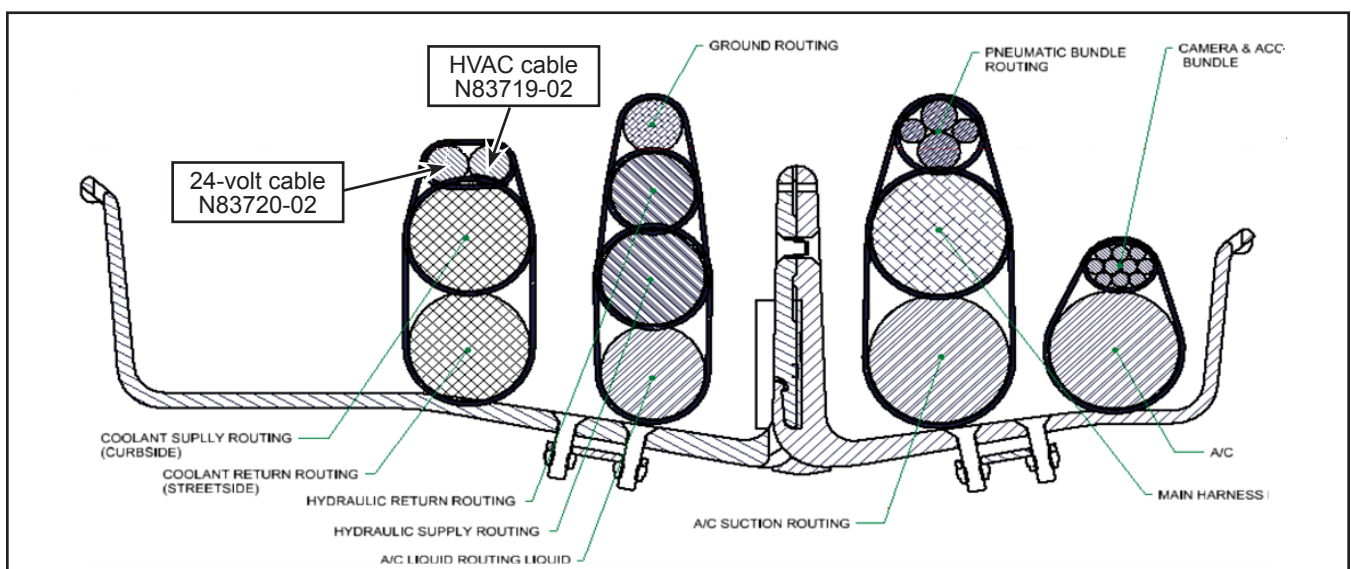


Figure 5 - Cable Positions

- 1.4. Fix each cable lug on the appropriate terminal block. Torque the nut to 11 lb-ft (15 N•m).
- 1.5. Apply anti-tamper seal.
- 1.6. Apply a corrosion protector such as Loctite Maxi-Coat N35450 or equivalent.
- 1.7. Push the red protective boots over the lugs.
- 1.8. Cable ties must be installed as shown in Figure 3. Tighten the cable ties starting from the center of the EGS and make sure that the cables are routed side by side over the top coolant hose.
- 1.9. Install the ceiling curtains and the parts removed for access. ❖