

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

APPLICATION DEADLINE: 2017JA27  
CLAIM REFERENCE NUMBER: WB-3515E

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	75 min
2	–	–	–	–

**MATERIAL**

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
<b>LEVEL 1</b>				
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	–
<b>LEVEL 2</b>				
–	–	–	–	–

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

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
CT Transit - Connecticut	L814	1462	1473	S92LXE4 [REDACTED]	S92L4E4 [REDACTED]	12
CT Transit - Connecticut	L815	1426	1426	S92L0E4 [REDACTED]	S92L0E4 [REDACTED]	4
Houston - Texas	L737	1510	1510	S92U4D4 [REDACTED]	S92U4D4 [REDACTED]	1
Houston - Texas	L755	1511	1579	S92U4D4 [REDACTED]	S92U8D4 [REDACTED]	69
MTD - Santa Barbara, California	L730	—	—	S92J8E4 [REDACTED]	S92J1E4 [REDACTED]	3
San Joaquin County - California	L768	—	—	S92L4D4 [REDACTED]	S92L3D4 [REDACTED]	6
SEPTA - Pennsylvania	L724	7300	7301	S92Y1D4 [REDACTED]	S92Y3D4 [REDACTED]	2
SEPTA - Pennsylvania	L741	—	—	S92L4E4 [REDACTED]	S92L4E4 [REDACTED]	1
SEPTA - Pennsylvania	L742	7371	7414	S92L6E4 [REDACTED]	S92L7E4 [REDACTED]	44
SEPTA - Pennsylvania	L743	—	—	S92L1E4 [REDACTED]	S92L2E4 [REDACTED]	15
SEPTA - Pennsylvania	L745	7415	7415	S92L0F4 [REDACTED]	S92L0F4 [REDACTED]	1
SEPTA - Pennsylvania	L746	7416	7454	S92L7F4 [REDACTED]	S92L8F4 [REDACTED]	39
SEPTA - Pennsylvania	L749	7302	7354	S92Y7D4 [REDACTED]	S92L2E4 [REDACTED]	53
Toronto Transit Commission - TTC - Ontario	L729	9000	9000	S92U9D3 [REDACTED]	S92U9D [REDACTED]	1
Toronto Transit Commission - TTC - Ontario	L738	9001	9026	S92J6D3 [REDACTED]	S92J7D3 [REDACTED]	26
Toronto Transit Commission - TTC - Ontario	L777	9027	9152	S92J7E3 [REDACTED]	S92J6E3 [REDACTED]	126
Walt Disney World - Florida	L763	—	—	S92U0D3 [REDACTED]	S92U4D3 [REDACTED]	6

**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).

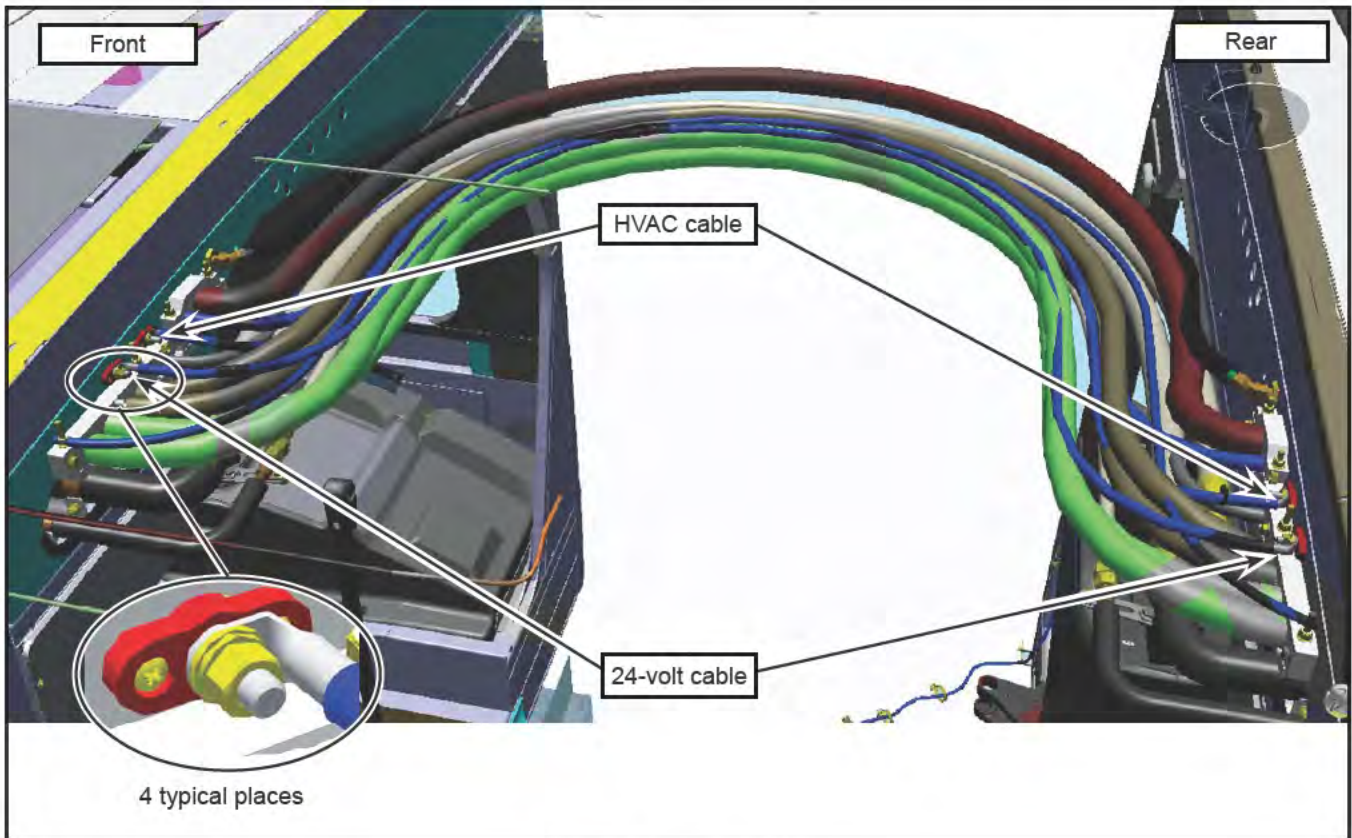


Figure 2 - Remove Cables

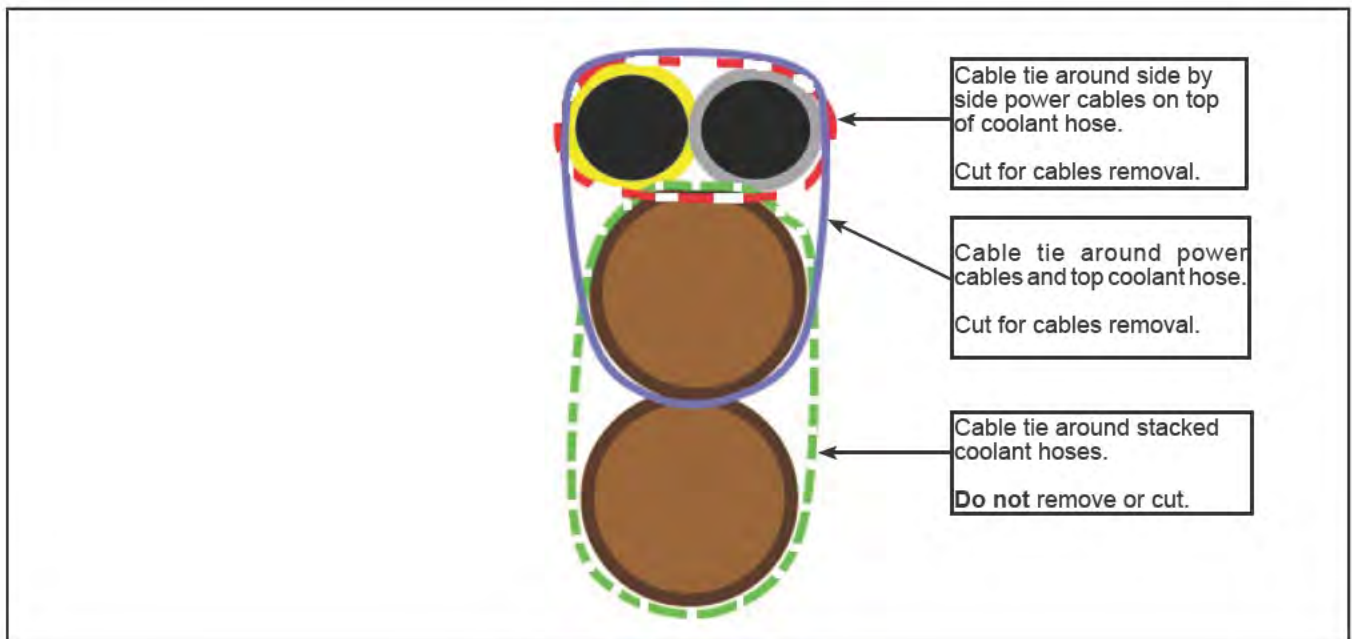


Figure 3 - Cable Tie Positions

- 1.3. Position the new HVAC cable N83721-02 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.

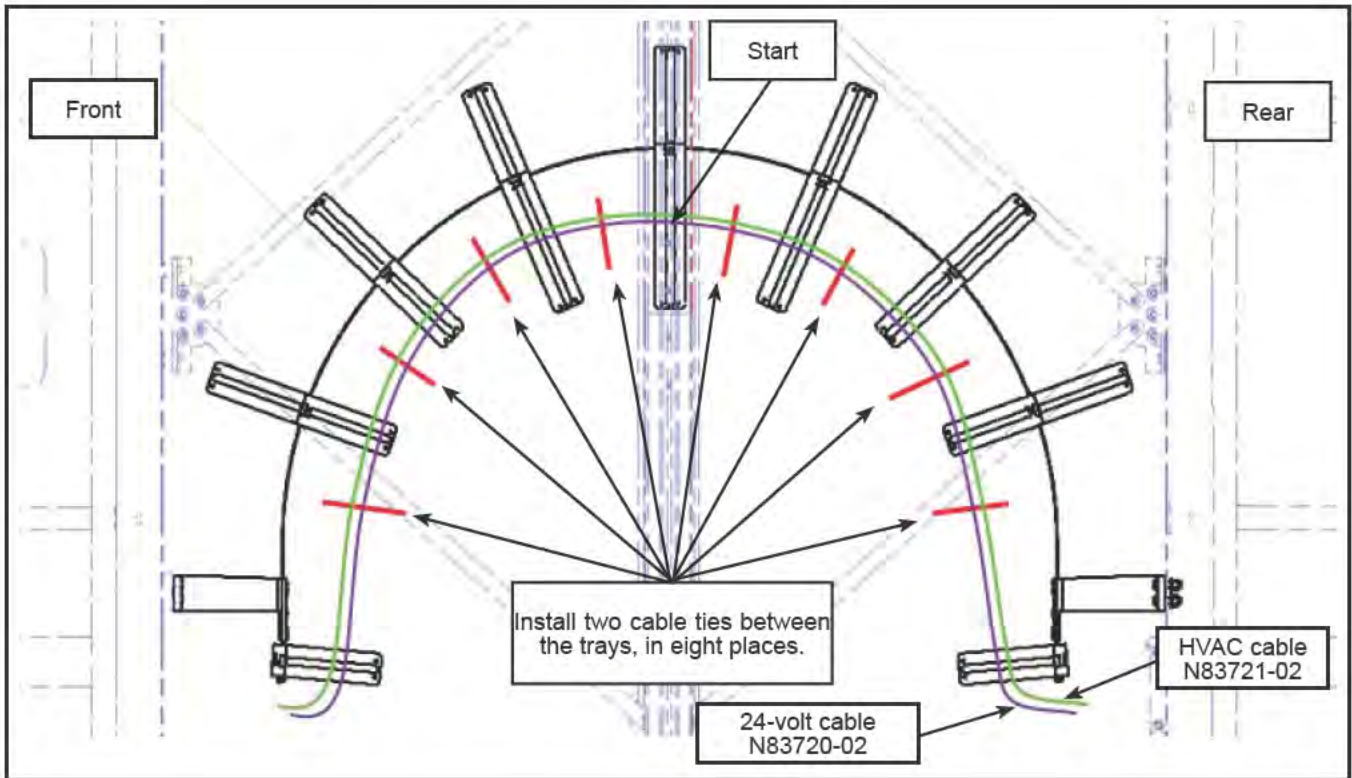


Figure 4 - Install the New Cables

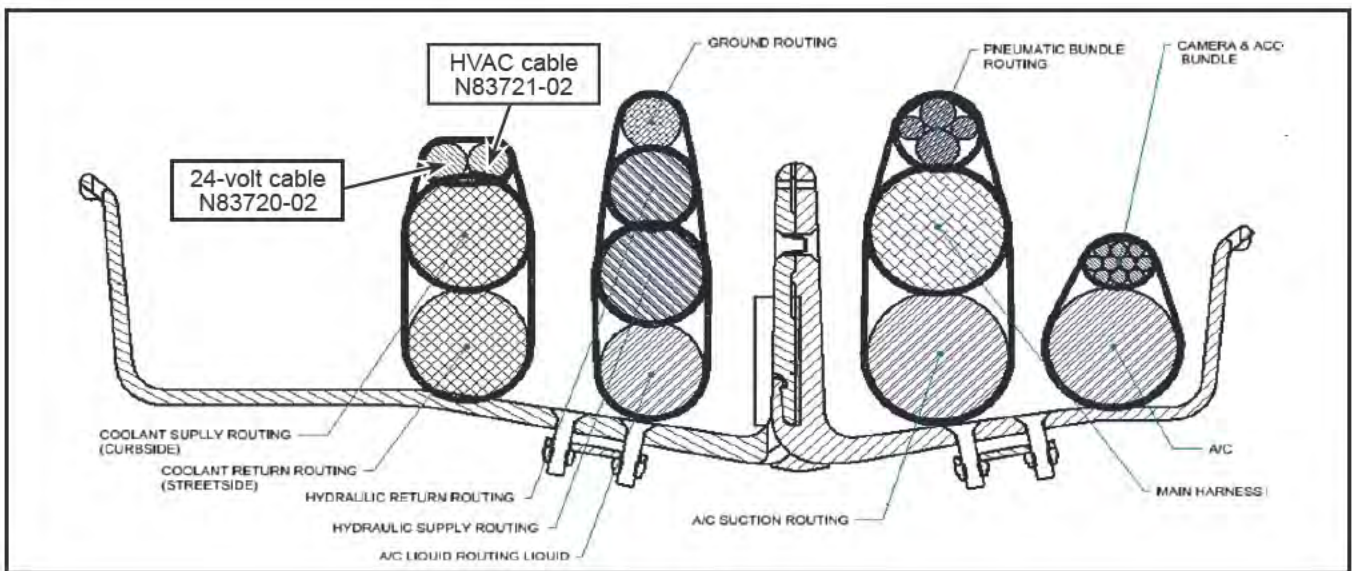


Figure 5 - Cable Positions

- 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. ❖