

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

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

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](mailto: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	2016MR28	Clients list revised. Order removed from the client list are equipped with Allison transmission and therefore, need to be repaired under CR3596E	Luc Carignan
R2	2016MA02	Text corrected with part number N83719-02 on p.5	André Pelletier

APPROVED BY:

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	
-	CT Transit - Connecticut	L814	1462	1473	S92LXE4500717	S92L4E4500728	12
-	CT Transit - Connecticut	L815	1426	1426	S92L0E4500709	S92L0E4500712	4
	Houston - Texas	L737	1510	1510	S92U4D4500297	S92U4D4500297	1
	Houston - Texas	L755	1511	1579	S92U4D4500333	S92U8D4500402	69
-	MTD - Santa Barbara, California	L730	—	—	S92J8E4500567	S92J1E4500569	3
-	San Joaquin County - California	L768	—	—	S92L4D4500422	S92L3D4500427	6
-	SEPTA - Pennsylvania	L724	7300	7301	S92Y1D4500275	S92Y3D4500276	2
-	SEPTA - Pennsylvania	L741	—	—	S92L4E4500504	S92L4E4500504	1
-	SEPTA - Pennsylvania	L742	7371	7414	S92L6E4500729	S92L7E4500772	44
-	SEPTA - Pennsylvania	L743	—	—	S92L1E4500489	S92L2E4500503	15
-	SEPTA - Pennsylvania	L745	7415	7415	S92L0F4500873	S92L0F4500873	1
-	SEPTA - Pennsylvania	L746	7416	7454	S92L7F4500952	S92L8F4501012	39
-	SEPTA - Pennsylvania	L749	7302	7354	S92Y7D4500409	S92L2E4500470	53
-	Toronto Transit Commission - TTC - Ontario	L729	9000	9000	S92U9D3000905	S92U9D3000905	1
-	Toronto Transit Commission - TTC - Ontario	L738	9001	9026	S92J6D3001094	S92J7D3001119	26
-	Toronto Transit Commission - TTC - Ontario	L777	9027	9152	S92J7E3001123	S92J6E3001372	126
-	Walt Disney World - Florida	L763	—	—	S92U0D3001019	S92U4D3001024	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).

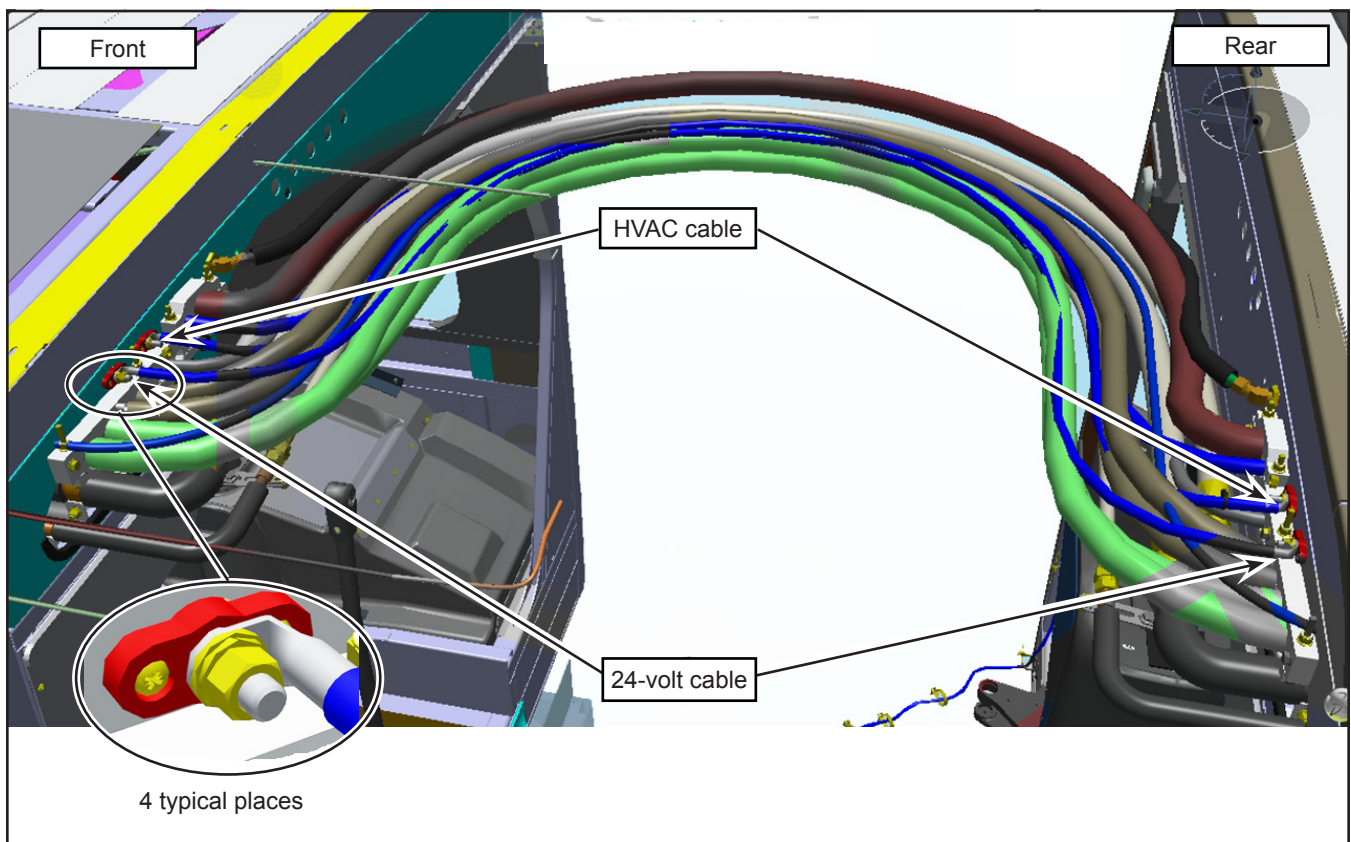


Figure 2 - Remove Cables

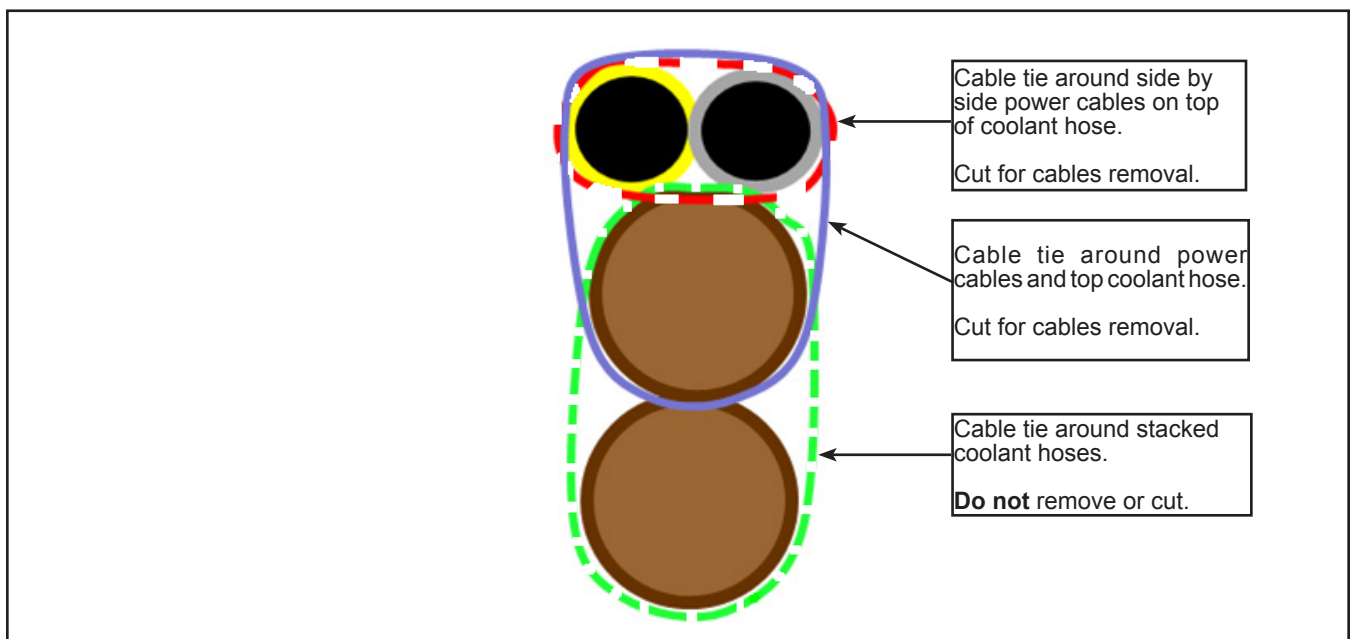


Figure 3 - Cable Tie Positions

- 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.

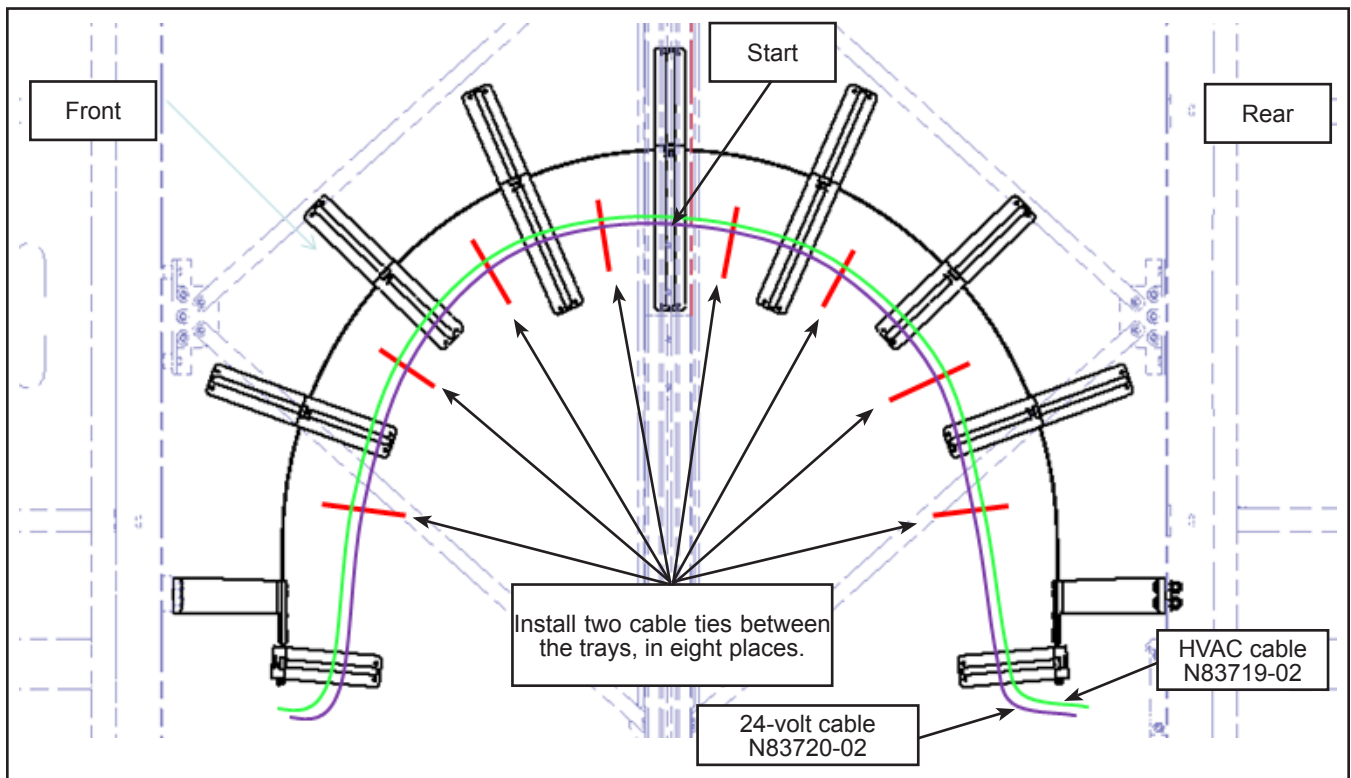


Figure 4 - Install the New Cables

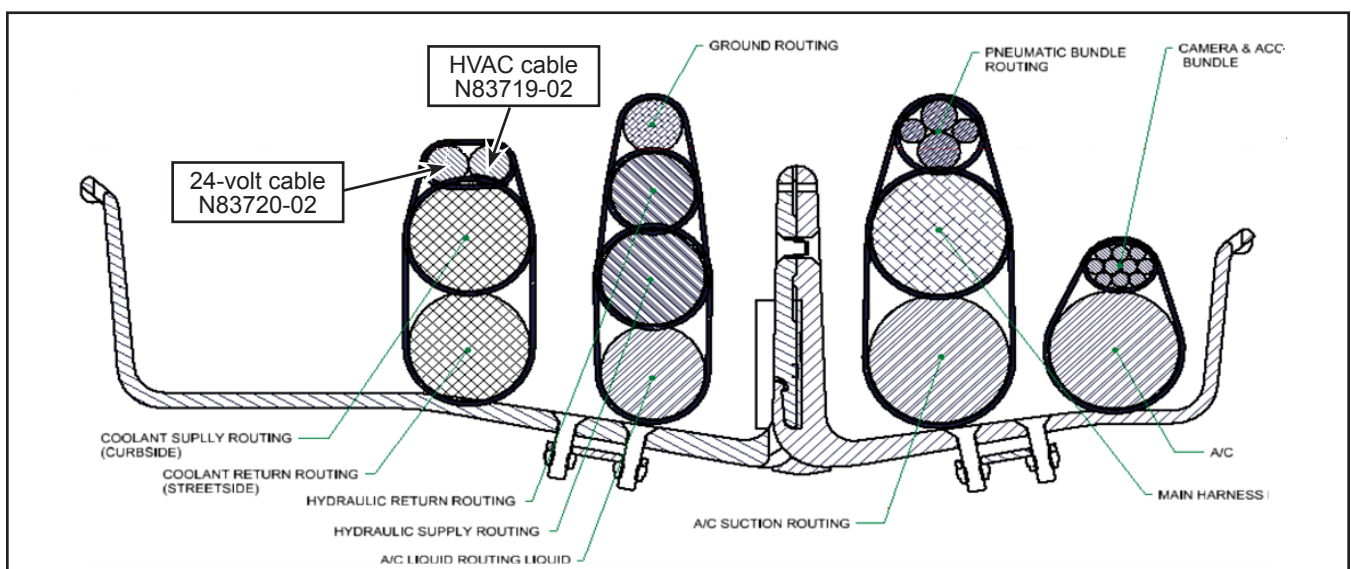


Figure 5 - Cable Positions

- 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. ❖