REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine cooling system
RS N°:	MQR 7621-1960

## APPLICATION DEADLINE: 2021SE01 CLAIM REFERENCE NUMBER: WB-4840

SUBJECT:	Charge air cooler (CAC) pipings	
JUSTIFICATION:	Improved sealing of the joints of the charge air cooler piping.	

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
	DESCRIPTION	LABOUR	MATERIAL	
1	Replace the CAC clamps with the new constant-tension clamps.	Nova Bus	Nova Bus	2h
2	_	-	-	-

### MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°	
LEVEL 1					
16	N99800	_	Constant-tension clamp	—	
LEVEL 2					
-	—	-	-	-	

Materials will be available within 38 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
	Yes	_	accordance with local environmental standards in effect.

### **REVISION HISTORY**

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2020JL02	Initial release	André Pelletier



## SERVICE BULLETIN

	ORDER	ROAD NUMBER		<b>VIN</b> (2NVY/4RKY)		οτν
CLIENT		FROM	то	FROM	то	QTY
Chicago Transit Authority - CTA - Illinois	L943	8200	8324	L82JXG9775225	L82J3G9775406	125
Chicago Transit Authority - CTA - Illinois	LB58	8325	8349	L82J7J9776906	L82J8J9776946	25
Calgary Transit - Alberta	LB85	8355	8362	L82K9J9776916	L82K6J9776923	8
Calgary Transit - Alberta	LB91	8363	8394	L82K3K9777030	L82K1K9777074	32



WARNING

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.



WARNING

This vehicle contains an electrochemical power storage device and high-voltage cables that can cause serious, even fatal, physical harm from electric shock or chemical burns. It is the customer's responsibility to read the manufacturer's documentation and to be aware of the risks associated with the system. See your manual section *10: BAE Hybrid Propulsion System*. Failure to comply with these instructions and electrical safety measures may result in injury or death, as well as severe damage to the vehicle.



WARNING

The starting circuit is cut when the MODE START switch on the engine control unit is in the neutral position (center). When servicing the engine compartment, flip the switch to this position to prevent accidental starting of the engine compartment. It is also recommended to lock out the switches to prevent accidental starting.

# PROCEDURE

- 1.1. Park the vehicle on an even surface with the transmission on neutral.
- 1.2. Apply the parking brake and set the master control switch to the *stop* position.
- 1.3. Set the battery disconnect switch in the battery compartment to the *off* position.



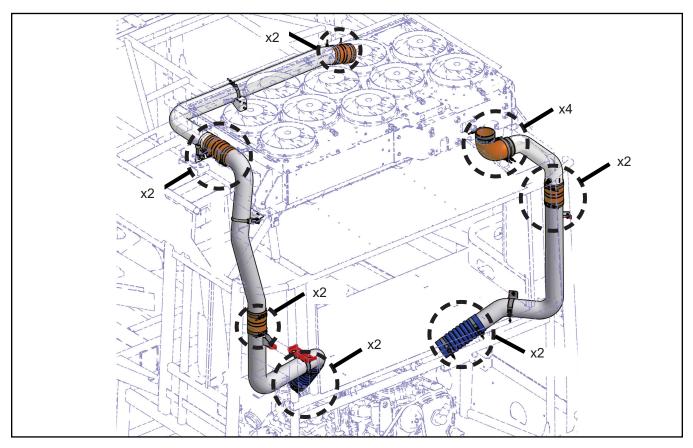


Figure 1 - CAC pipes Clamp Locations



- Never use an impact wrench to tighten the clamps.
- For the tightening process, the tightening torque (N•m) and speed (rpm) have to be controlled. Avoid high-speed tooling. Increase of tightening speed may lead to seizing/jamming.
- The constant torque hose clamp is designed to automatically adjust its diameter to compensate for the normal expansion and contraction of hose and tubing during vehicle operations and shutdown.
- If clamp is tightened above recommended tightening torque, this will not increase pull-off force and seal ability of the clamp proportionally to the applied torque.
- If the tightening torque is exceeded, there is the danger of permanent damage to the clamp or hose (e.g. failure of the clamp at reassembly or leakage).
- Strongly avoid in any case multiple retightening of the clamp (risk of hose damage).
- Strongly avoid in any case overtightening in means of torque and speed (risk of permanent damage to clamp and systems).
- Strongly avoid in any case fully opening of the clamp and remounting of the band to the housing (if opened, replacing of the clamp is recommended).

- 1.4. Remove a clamp.
- 1.5. Clean the surface of the silicone hose where the new clamp will be installed.
- 1.6. Apply a lubricant such as P-80, N74253, between the new clamp and the pipe. This will prevent the clamp from gripping the hose when tightening and applying the torque properly.
- 1.7. Orient the new clamp to facilitate maintenance and tighten it as close as possible to the raised bead. Apply a torque of 13.5 ±2 N•m (10 ±1.5 lb-ft).
- 1.8. Repeat for all clamps shown in Figure 1, for a total of 16 clamps.
- 1.9. Start the vehicle and let it run at fast-idle for 15 minutes.
- 1.10. Apply the tightening torque of  $13.5 \pm 2 \text{ N} \cdot \text{m}$  (10 ±1.5 lb-ft) again.
- 1.11. Install the removed parts to do the work.
- 1.12. Set the battery disconnect switch to the **on** position.
- 1.13. The vehicle can be returned to service.

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