REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine Cooling
RS Nº:	MQR 7621-2692
EFFECTIVE IN PROD.:	LF53 (2024FE)

APPLICATION DEADLINES: 2025MA06
CLAIM REFERENCE NUMBER:WB5511

SUBJECT:	Cooling System
JUSTIFICATION:	The EGR cooling hose N95062-48 is not rated for the engine compartment temperature. Under certain conditions the EGR cooling hose may crack and cause coolant leak.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace the EGR cooling hose N95062-48 with the new N95060- 249 cooling hose. If the old EGR coolant hose burst or cause a coolant leak in service leading to a road call due to low coolant proceed with level 2.	Nova Bus	–	2.5h
2	Fill the cooling system if the old EGR coolant hose burst or cause a coolant leak in service.	Nova Bus	Client*	0.75h

* The cost of the material will be reimbursed when claiming for this service document.

MATERIAL REQUIRED PER VEHICLE

QTY	PART Nº	REV.	DESCRIPTION
LEVEL 1			
1	N95060-249	–	EGR coolant hose 5/16 ID X 125"
2	2494772	–	Hose clamp
10	N93464-15	–	Split Block
2	N56339	–	Cable tie (tefzel)
LEVEL 2 (only if required)**			
–	–	–	–

Materials will be available within 106 days once your order has been placed.
To order, please contact novabus.parts@volvo.com
Or by phone for CANADA 1-800-771-6682, for USA 1-877-999-8808
Specify document number, quantity of parts required and shipping address.

**The material identified in Level 2 is to be ordered only for vehicles that meet the criteria defined in Level 1.

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	2023DE21	Initial release	Luc Carignan

APPROVED BY:

NQF772001 version 5

Irina Negoescu
Signature numérique de Irina Negoescu
Date : 2023.12.21 13:57:42 -05'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Chicago Transit Authority - CTA - Illinois	LD76	8350	8449	L82J0N977[redacted]	L82J8N977[redacted]	100
Chicago Transit Authority - CTA - Illinois	LE87	8450	8549	L82J5N977[redacted]	L82J2P977[redacted]	100
Chicago Transit Authority - CTA - Illinois	LF11	8550	8649	L82JXP977[redacted]	L82J3P977[redacted]	100
Chicago Transit Authority - CTA - Illinois	LF52	8650	8687	L82J1P977[redacted]	L82J0P977[redacted]	38
New York City Transit - NYCT - New York	LD08	8759	8963	L82J5M977[redacted]	L82J8N977[redacted]	205
New York City Transit - NYCT - New York	LE84	8964	9098	L82J7N977[redacted]	L82J9P997[redacted]	135
New York City Transit - NYCT - New York	LF51	9099	9180	L82J4P977[redacted]	L82J2P977[redacted]	82

WARNING

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

PROCEDURE

CAUTION

It is highly recommended to wait until the engine is cold before starting this procedure.

WARNING

Before starting any work on the radiator, make sure the vehicle is stationary. Isolate the engine cooling circuit from the control box located at the rear of the vehicle.

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.
1.4. Open the radiator canopy. See Figure 1.
1.5. Remove the street side light panel. See Figure 1.

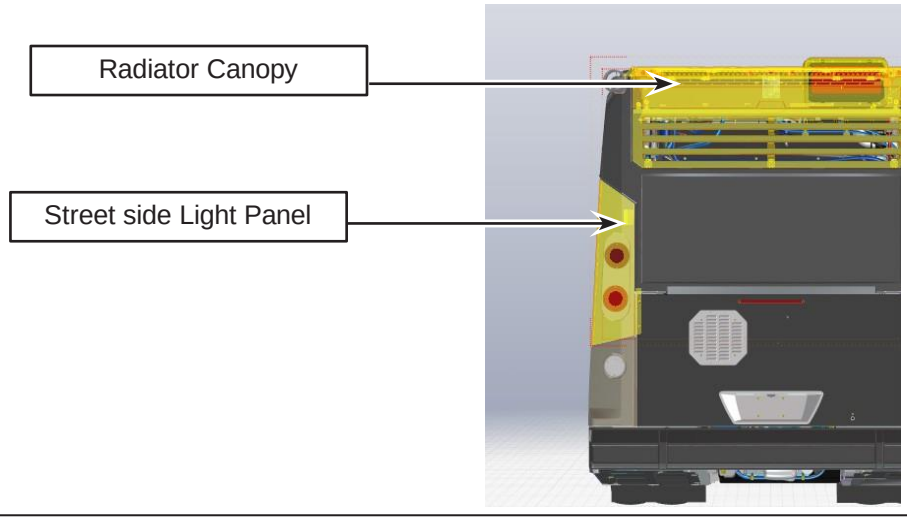

Figure 1 - Radiator Canopy and Street Side Light Panel

1.6. Turn the lock and open the radiator grid. Retain the grid and hardware. See Figure 2.

1.7. If required to access the EGR coolant hose split block remove the cover located between the radiator and the surge tank. A double face foam affix a portion of the cover. Retain the cover and hardware. See Figure 2.

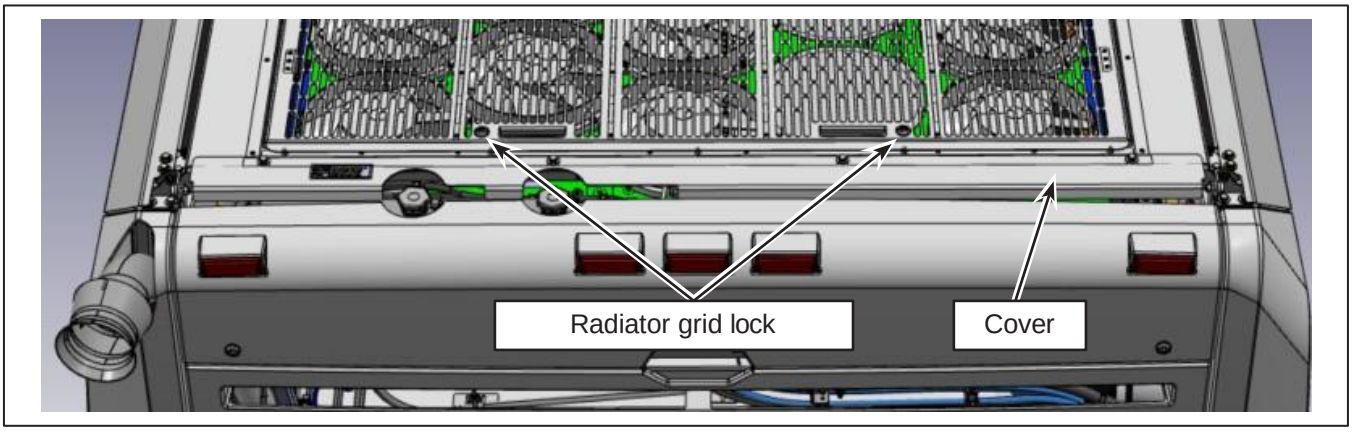

Figure 2 - Radiator Grid

1.8. Disconnect the old EGR coolant hose from the surge tank. See Figure 3.

NOTE

Do not disconnect the EGR coolant hose from the engine at this step.

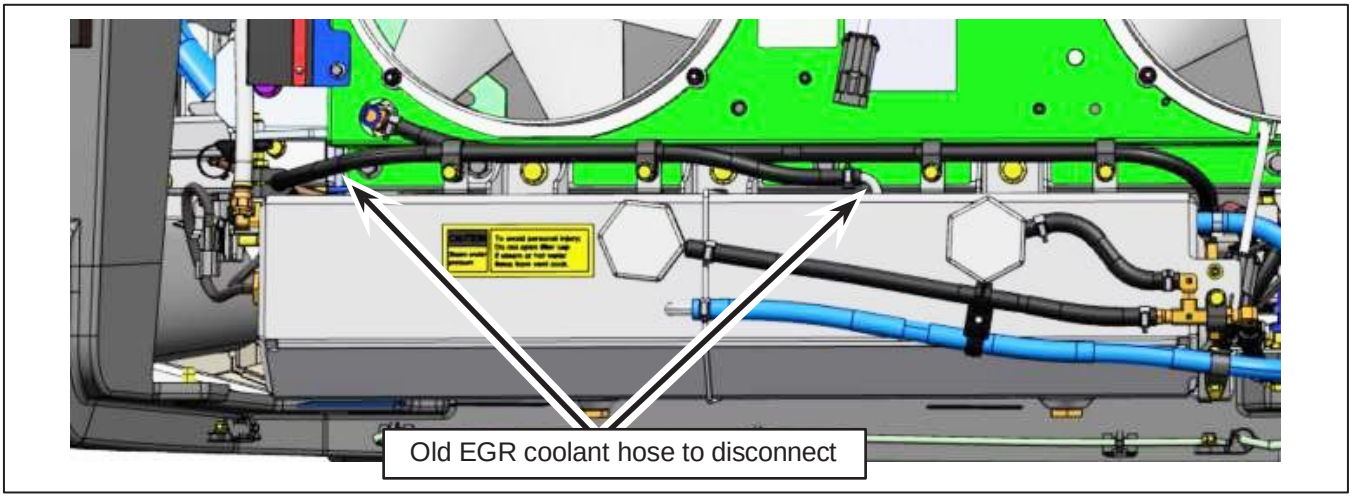

Figure 3 - Old EGR Coolant Hose

1.9. Connect the new N95060-249 EGR coolant hose to the surge tank using the hose clamp 2494772.

1.10. Remove all the split blocks maintaining the old EGR coolant hose.

1.11. If there is cable ties fixing the old EGR coolant hose note their position and remove them.

1.12. Affix the new EGR coolant hose N95060-249 to the same anchor points of the old hose using the new N93464-15 split blocks. Torque split block at 35 ±4 lb-in (4 ±0.5 N•m) and apply torque seal.

1.13. Slide a new hose clamp 2494772 on the N95060-249, torque at 35 ±4 lb-in (4 ±0.5 N•m) and apply torque seal. See Figure 4.

1.14. Before the next step, to avoid cleaning the area around the old hose, spread a few rags over the engine to protect it from possible coolant splashes during disconnection.

1.15. Quickly, disconnect and connect the new N95060-249 hose. See Figure 4.

1.16. Slide and tight the hose clamp 2494772 to the hose connection point on the engine. See Figure 4

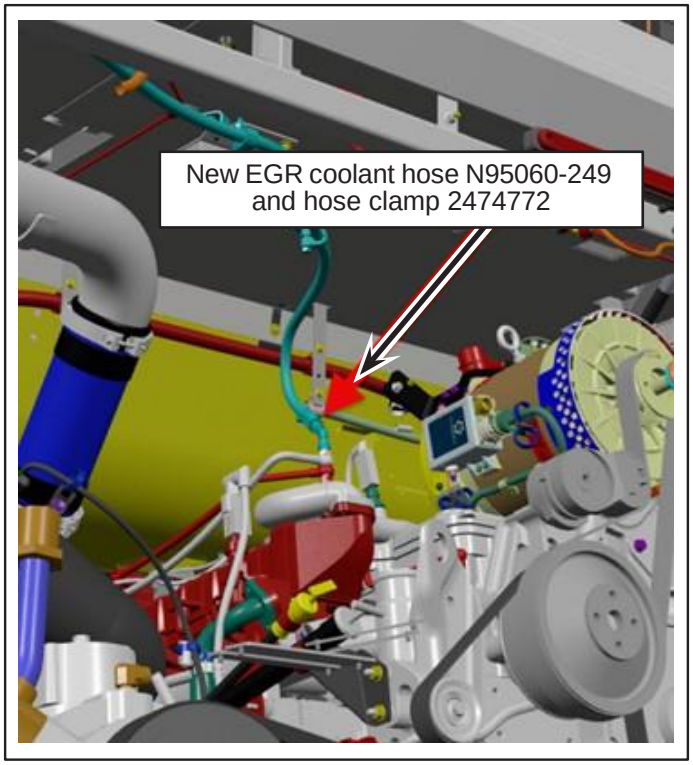

Figure 4 - New EGR Coolant Hose Connected to the Engine

1.17. If cable ties were used to affix the old EGR coolant hose, affix the new N95060-249 hose in the same position using N56339 cable ties.

1.18. Remove and discard the old hose.

1.19. If the old EGR coolant hose have burst or cause a coolant leak in service (bus down in service) proceed with level 2 procedure.

1.20. Validate the coolant level in the system. If the coolant level needs to be adjusted, fill the system to the required level.

1.21. Set the battery disconnect switch in the battery compartment to the ***on*** position.

1.22. The vehicle can return in service.

LEVEL 2: FILL THE COOLING SYSTEM

NOTE

For information on coolant level verification and coolant filing procedure, follow your maintenance manual, *section 09: Engine Cooling***.**

2.1. Fill the cooling system.

CAUTION

Before topping up or filling the coolant system, make sure to respect the following conditions to ensure environmental safety and proper system operation;

- **The engine must be shut down and cold**
- **Filling pressure should not exceed a maximum of 18 PSI (124 KPa)**
- **All draining points should be closed.**

NOTE

Always test the antifreeze solution before adding water or new antifreeze.

2.2. Set the battery disconnect switch in the battery compartment to the ***on*** position.

2.3. The vehicle can return in service. ❖