

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine & Cooling
RS N°:	MQR 7621-2767
EFFECTIVE IN PROD.:	(2024OC)
TC RECALL N°:	2024-706
NHTSA RECALL N°:	24V-873

APPLICATION DEADLINES: N/A
CLAIM REFERENCE NUMBER: SR5671

SUBJECT:	Surge Tank - Coolant Critical Low Level Sensor
JUSTIFICATION:	Certain vehicles may have been manufactured with a defective coolant sensor used to detect the "critical low" level of coolant. A defective sensor could send a false signal to the engine that the coolant level is critically low which would lead to an engine shutdown. An unexpected engine shutdown may increase the risk of a crash.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Check if the Coolant Critical Low Level Sensor is defective.	Nova Bus	-	20 min
2	Replace the existing Coolant Critical Low Level Sensor.	Nova Bus	Nova Bus	45 min

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
-	-	-	-
LEVEL 2 (only if required*)			
1	N108036	-	Sensor Coolant Level

Materials will be available within 14 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	2025JA19	Initial release	Annie St-Jacques

APPROVED BY:

NQF705003 VERSION 5

Matthew Cyr

Digitally signed by

Matthew Cyr

Date: 2025.02.19 17:20:47

-05'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Buffalo New York - NFTA	LF93	202414	202423			10
Burlington Ontario - Metrolinx	LF81	7-2401	7-2408			8
Calgary Transit Alberta	LF66	8534	8596			63
Cape Breton Nova Scotia	LF80	—	—			5
Chicago Transit Authority - CTA	LF52	8688	8749			62
Chicago Transit Authority - CTA	LF72	8750	8849			77
CMBC - Translink	LF60	H24128	H24134			7
CMBC - Translink	LF60	H24136				1
CMBC - Translink	LF60	H24138				1
CMBC - Translink	LF60	H24140	H24141			2
CMBC - Translink	LF60	H24144	H24147			4
CMBC - Translink	LF60	H24150				1
Durham Region Transit Ontario - Metrolinx	LF75	6136	6150			15
Durham Region Transit Ontario - Metrolinx	LG05	6151				1
Hamilton Ontario	LF92	2301				1
Maryland Transit Administration - MTA	LF89	24001	24015			50
Moncton New Brunswick (Codiac)	LF67	—	—			4
Moose Jaw Saskatchewan	LF68	20	24			2
New York City Transit, New York - NYCT	LF51	9178	9215			38
New York City Transit, New York - NYCT	LF53	9216	9271			34
Orillia Ontario - Metrolinx	LF87	2427				1
Puerto Rico Metropolitan Bus Authority - AMA	LF74	2024-01	2024-39			19
Saskatoon Saskatchewan	LF82	2401	2405			5
St. John's, Newfoundland	LF84	2439	2446			3
Sudbury Ontario - Metrolinx	LF85	241	246			5
TRIUS - Charlottetown PEI	LF91	241	243			3

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

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.

LEVEL 1: INSPECTION

- 1.4. Locate the Coolant Critical Low Level Sensor on the side of the engine circuit coolant surge tank (Figure 1).

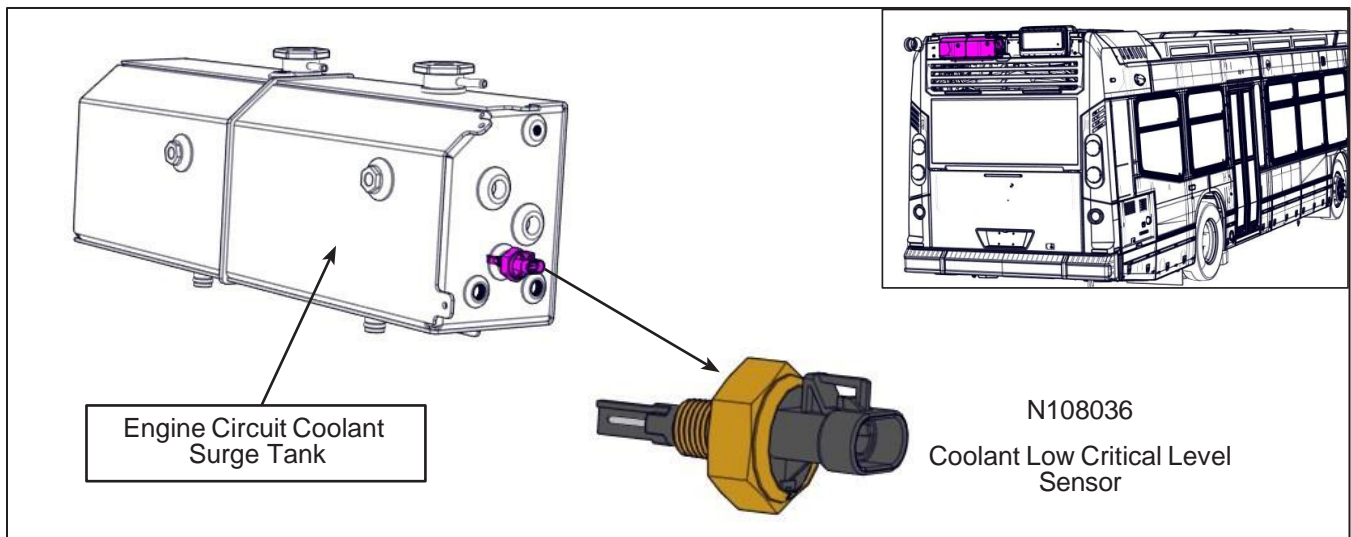


Figure 1 - The Coolant Critical Low Level Sensor Location

1.5. Inspect the sensor coolant level according to the criteria in Table 1 and Figure 2. Follow the recommended action in Table 1.

SENSOR IS GOOD Action to take: continue with the Level 1 inspection	SENSOR IS DEFECT Action to take: go to Level 2 replacement procedure
- The date on the label is 2023, December 17 (23/12/17) or AFTER. or - There is a paint mark on on the sensor hexagonal body. or - There is a paint mark on the sensor connector.	- The date on the label is BEFORE 2023, December 17 (23/12/17). or - There is NO label and NO mark paint.

Table 1 - Inspection Points to Define if the Sensor is Good or Defect

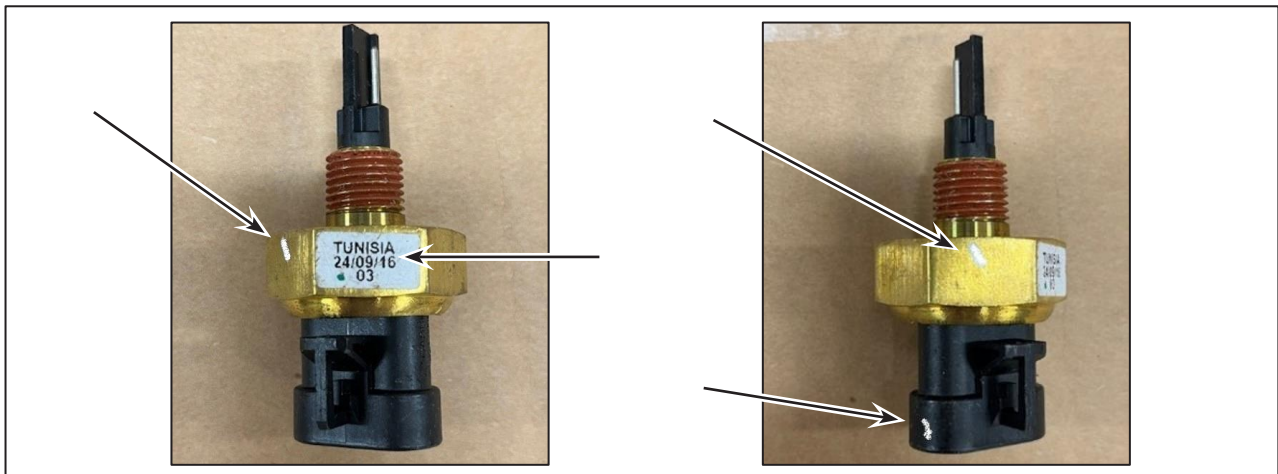


Figure 2 - Inspection Points to Define if the Sensor is Good or Defect

1.6. The procedure is complete and the vehicle can be returned to service. ❖

LEVEL 2 REPLACEMENT

DRAINING THE COOLANT SURGE TANK



CAUTION

It is strongly recommended that you allow the engine to cool to reduce the risk of injury.

- 1.7. Drain the engine circuit surge tank to a level lower than the Coolant Critical Low Level Sensor. This can be done with a hand or pneumatic pump, etc. Keep the coolant.



NOTE

For information on draining and filling the cooling system, see section 09: *Engine and Cooling of your Novabus maintenance manual.*

SENSOR REPLACEMENT

- 2.1. Disconnect the sensor from the vehicle harness (Figure 3).
- 2.2. Unscrew to remove the sensor and discard.

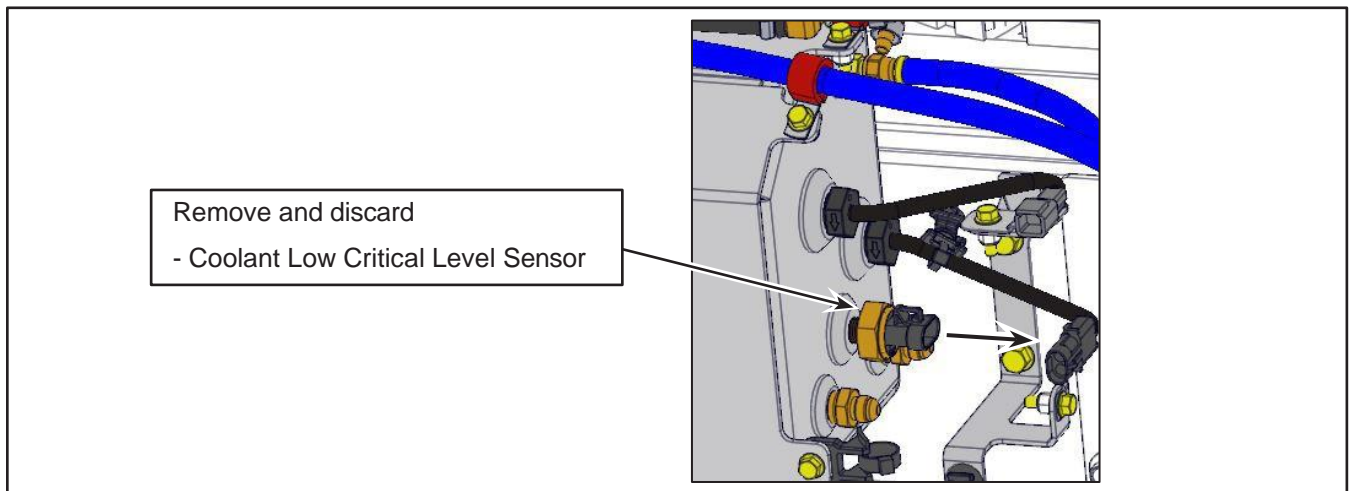


Figure 3 - Disconnect and Remove the Coolant Level Sensor

- 2.3. Install the new N108036 Coolant Level Sensor as per instructions in Figure 4. Use N74760 Thread Sealant Loctite 577 or equivalent on threads.
- 2.4. Connect the new sensor to the vehicle harness and secure cables with cable ties.

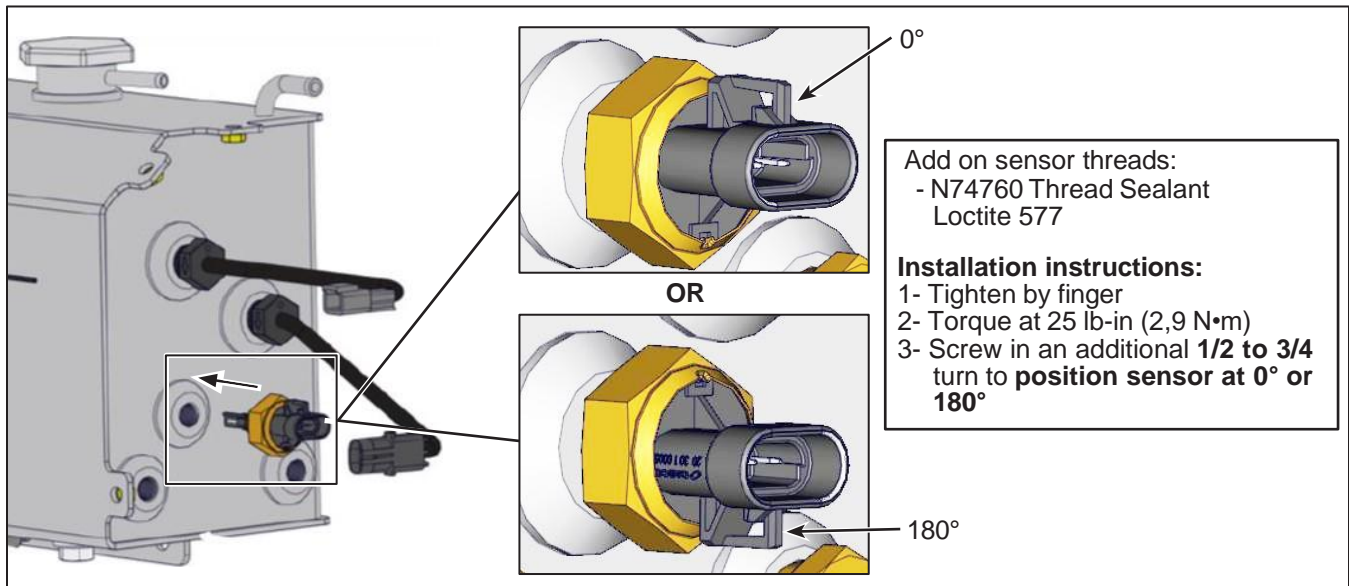


Figure 4 - Coolant Critical Level Sensor Installation

FILLING SURGE TANK

- 2.5. Fill the surge tank.
- 2.6. The vehicle can be returned to service. ❖