

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine and cooling
RS N°:	MQR 7621-346
EFFECTIVE IN PROD.:	L840 (2014SE)

APPLICATION DEADLINE: 2016SE30
CLAIM REFERENCE NUMBER: WB-3311

SUBJECT:	Surge tank filling
JUSTIFICATION:	Coolant filling of the radiator from the surge tank might be erratic and create air pockets inside the radiator.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Install a new N81254 vent tube in the surge tank to eliminate air pocket creation inside the radiator.	Nova Bus	Nova Bus	45 min
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N81254	–	Rigid supply tube	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 28 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	2015SE01	Initial release	Luc Carignan

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
New York City Transit - New York	L536	1200	1201	S92U793000490	S92U993000491	2
New York City Transit - New York	L545	1202	1289	S92U5A4000001	S92U0A4000098	88

**WARNING**

Follow your internal safety procedures.

**CAUTION**

Wait until the temperature is below 120°F (50°C) before removing the radiator pressure cap. Failure to do so can cause personal injury from heated coolant spray.

PROCEDURE

- 1.1. Open the rear engine door and release pressure using the air discharge valve knob located on the coolant quick connect fitting bracket in the rear right portion of the engine compartment. See Figure 1.

**WARNING**

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

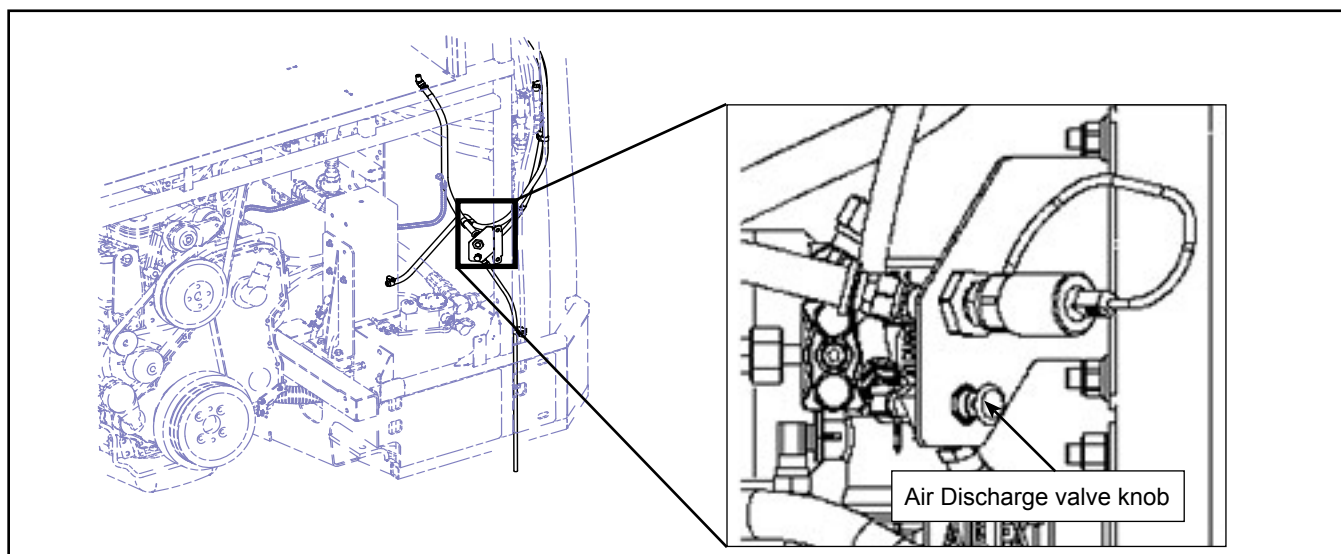


Figure 1 - Location of the Air Discharge Valve Knob in the Engine Compartment

- 1.2. Open the radiator access door. See Figure 2.

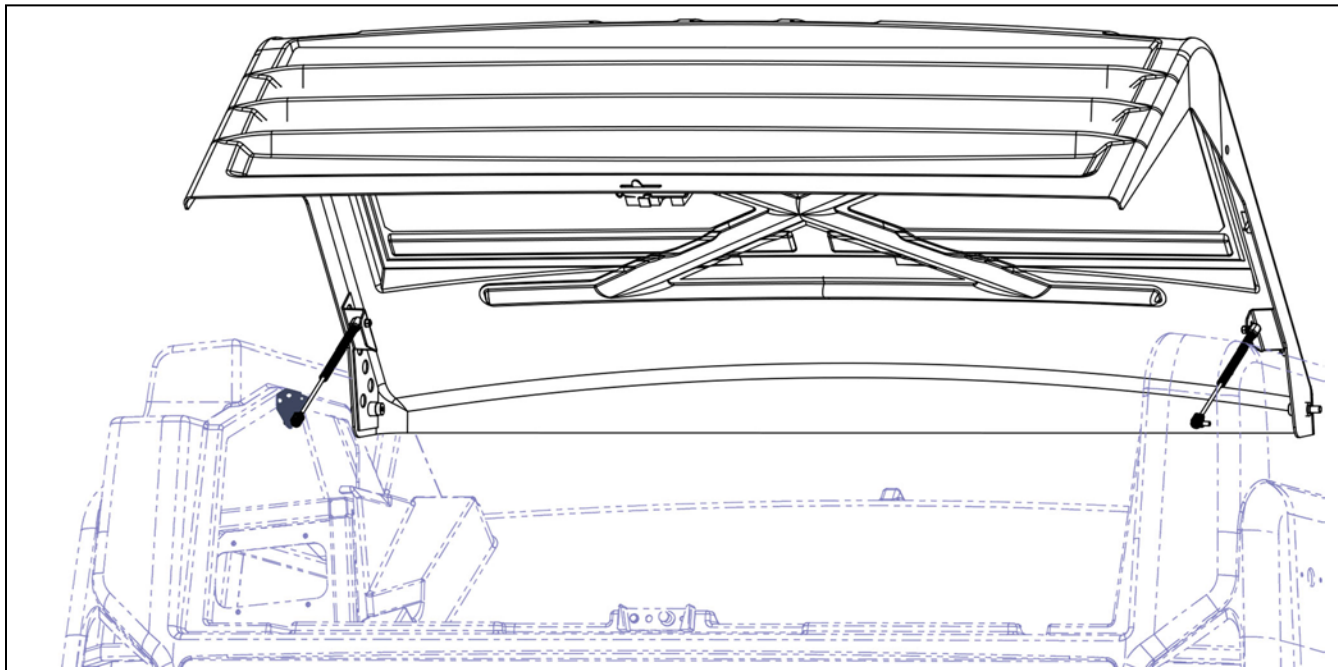


Figure 2 - Radiator Access Door

- 1.3. Inspect if the top position of rigid supply tube N81254 is marked for alignment during installation. Mark using an indelible marker the tube if no mark is present on top of the tube. See Figure 3 for the position of the mark.
- 1.4. Remove the plastic protection on the fitting of the rigid supply tube. See Figure 3.
- 1.5. Loosen and separate the two rear fittings and apply a thin coat of sealant on the fitting indicated in Figure 3.

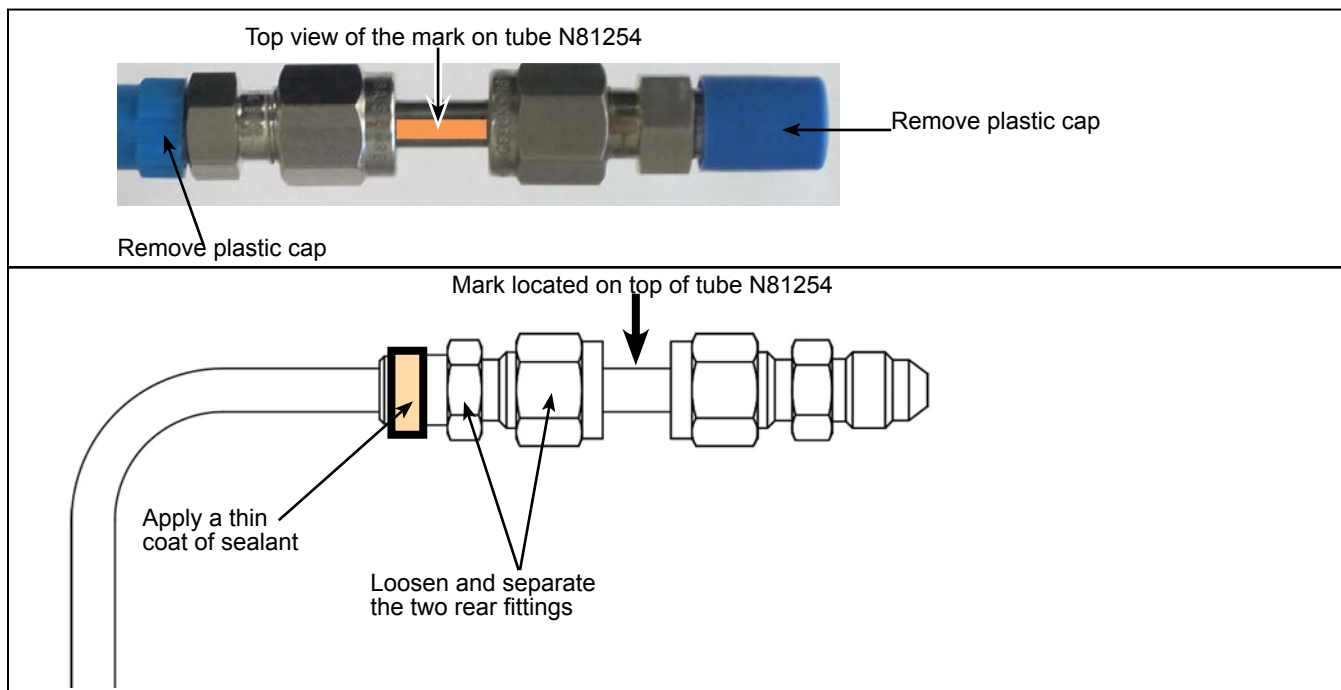


Figure 3 - Inspection and Preparation of the Rigid Supply Tube N81254

- 1.6. Disconnect the braided hose (located between the radiator and surge tank) from the surge tank. See Figure 4.
- 1.7. Remove the JYC fitting adaptor from the fitting on the surge tank. Two wrenches are required to perform this operation. See Figure 4.

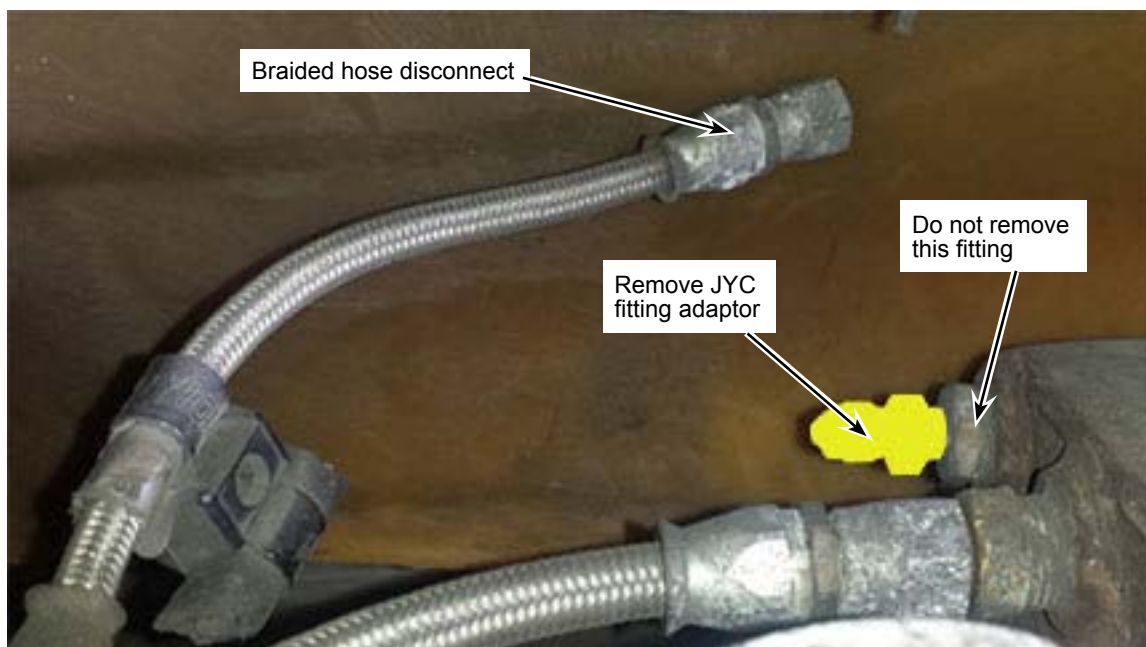


Figure 4 - Fitting to be Removed from Surge Tank

- 1.8. Install the rigid supply tube N81254 in the surge tank, making sure to position the mark on top. Hand-tighten the fitting and make another 1/4 of a turn with a wrench to fully tighten the fitting. See Figure 5.
- 1.9. Hand-tighten the second fitting on the fitting affix to the surge tank and make another 1/8 of a turn with a wrench to fully tighten the fitting. The mark should stay on top during tightening of the fitting. See Figure 5.

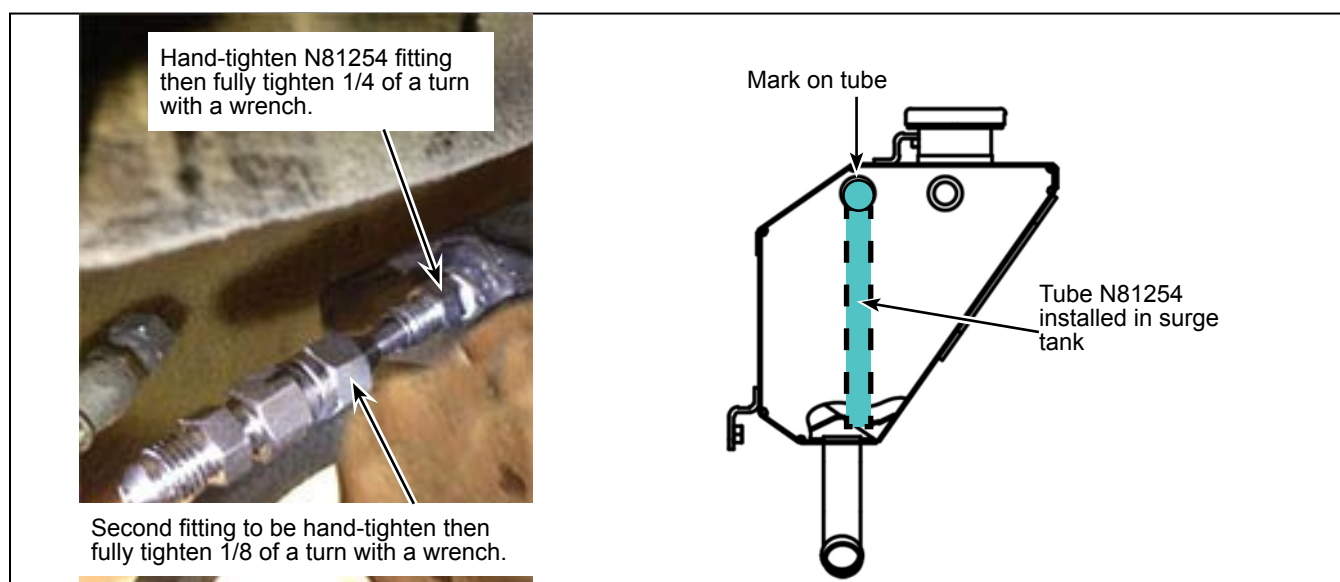


Figure 5 - Rigid Supply Tube N81254 Installation on Surge Tank

- 1.10. Handtighten the braided hose to the rigid supply tube and tighten another 1/4 of a turn with a wrench.
- 1.11. Connect a coolant filling hose equipped with a pressure regulator to the coolant quick connect fitting and set the regulator to 15 psi. See Figure 6.

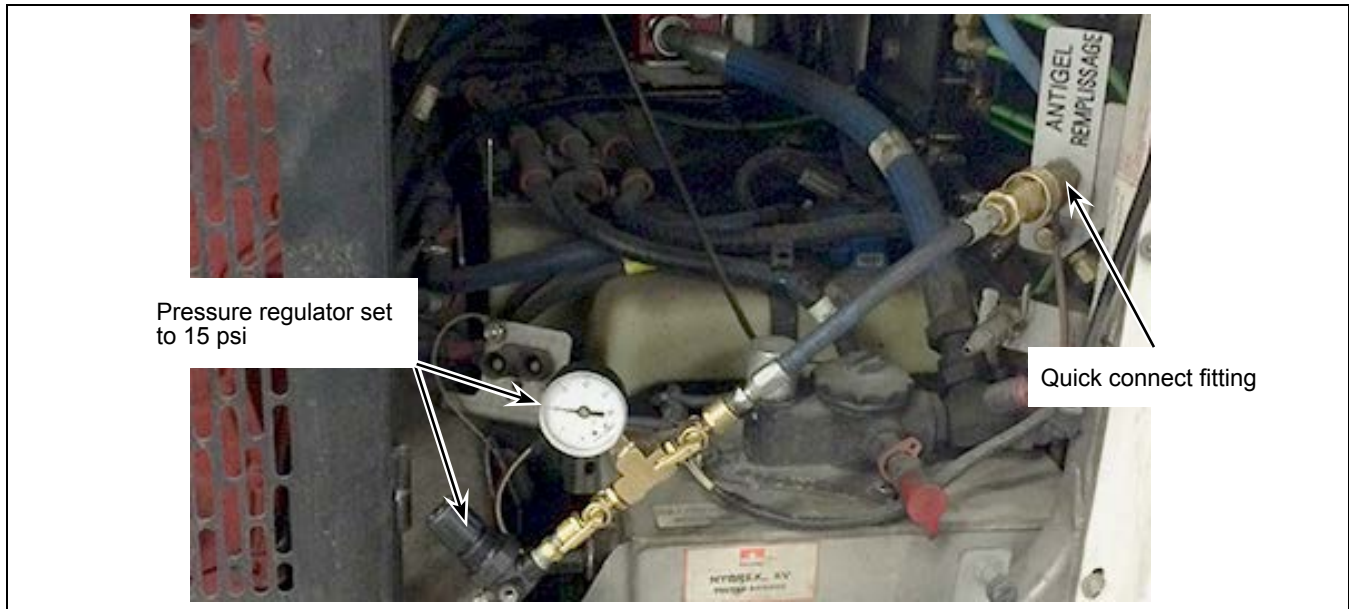


Figure 6 - Air Line Equip with a Regulator Installed on the Quick Connect Fitting

- 1.12. Validate visually that there are no coolant leaks on the new installation. The test should be performed over a period of 15 minutes.
 - 1.12.1. If there is a leak on the new installation, correct to the installation.
 - 1.12.2. If there is a leak elsewhere than on the new installation, please refer to your after sales representative to correct the leak.
- 1.13. Disconnect the coolant filling hose equipped with a pressure regulator from the coolant quick connect fitting.
- 1.14. Close and lock the engine door and the radiator access door ❖