

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine and Cooling
RS N°:	MQR 7621-2169
EFFECTIVE IN PROD.:	N/A
TC RECALL N°:	2021-057
NHTSA RECALL N°:	20V568

APPLICATION DEADLINE: NA
CLAIM REFERENCE NUMBER: SR-4974

SUBJECT:	Power Steering
JUSTIFICATION:	A power steering pipe may separate at the connection joint. This may cause a power steering assist lost.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Inspection of pipe N81043-01	Nova Bus	–	15 min
2	Replacement of pipe N81043-01	Nova Bus	Nova Bus	1.5 h

**MATERIAL**

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
<b>LEVEL 1</b>				
–	–	–	–	–
<b>LEVEL 2</b>				
5	G5007996		CABLE TIE (0657558)	–
1	N81043-01		PIPE HYDRAULIC ASSY SUPPLY P/S	–
10	N37749	B	DUAL CLAMP TIE	–

Materials will be available within 46 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](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	2021MR23	Initial release	Annie St-Jacques

APPROVED BY:

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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Houston Texas - Metro	LC92	2508	2508	L82J8L9777591	L82J3L9777591	1
Houston Texas - Metro	LC92	2515	2523	L82J8L9777598	L82J3L9777607	9
Houston Texas - Metro	LC92	2525	2531	L82J8L9777609	L82J3L9777615	7
Maryland Transit Authority - MTA	LC27	20002	20010	L82JXL9777602	L82J4L9777638	9
Maryland Transit Authority - MTA	LC27	20015	20015	L82JXL9777643	L82J4L9777643	1
Maryland Transit Authority - MTA	LC27	20017	20017	L82JXL9777645	L82J4L9777645	1
Maryland Transit Authority - MTA	LC27	20020	20021	L82JXL9777648	L82J4L9777649	2
Maryland Transit Authority - MTA	LC27	20023	20023	L82JXL9777651	L82J4L9777651	1
Maryland Transit Authority - MTA	LC27	20025	20026	L82JXL9777653	L82J4L9777654	2

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

## PROCEDURE

### LEVEL 1

#### PIPES INSPECTION

- 1.1. Park the vehicle on a level surface with the transmission on neutral.
- 1.2. Apply the parking brake and set the master control switch to the **stop** position.
- 1.3. Locate hydraulic pipe N81043-01 (Figure 1).

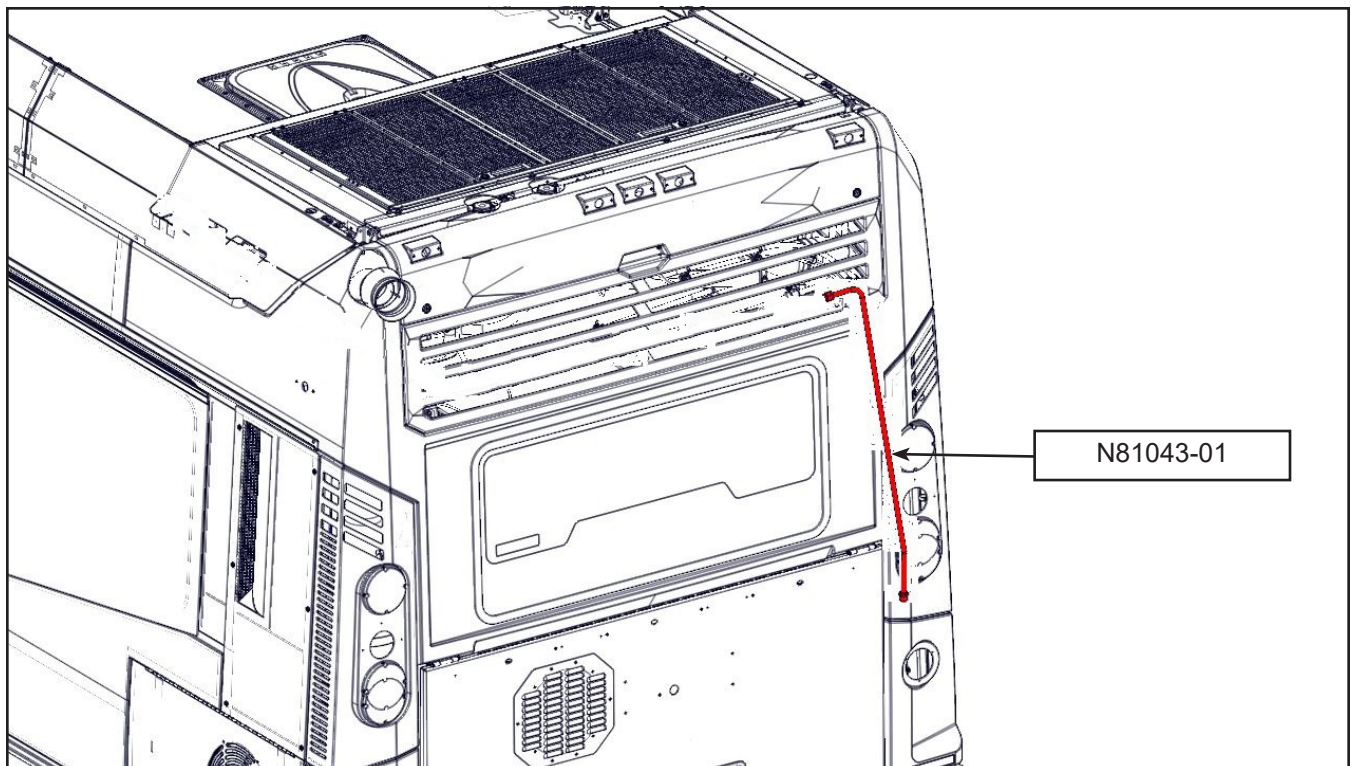
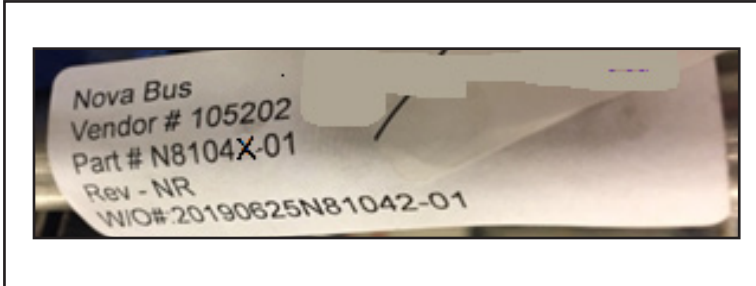
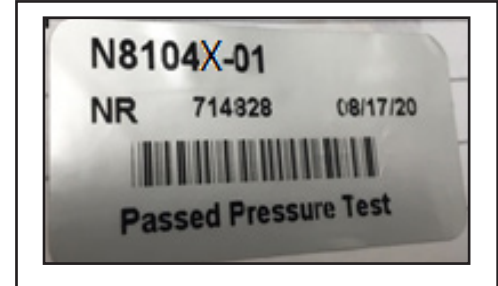


Figure 1 - Hydraulic Pipe N81043-01

- 1.4. On pipe N81043-01 search for manufacturers label:
- If the label looks like the label shown in Figure 2, the pipe does **NOT** have to be replaced.
  - If the label looks like the label shown in Figure 3, the pipe **must be replaced**.
  - If no label is visible, the pipe **must be replaced**.



*Figure 2 - Example of Label - DO NOT REPLACE PIPE*



*Figure 3 - Example of Label - REPLACE PIPE*

- 1.5. According to the inspection result, if the pipe must be replaced, order replacement parts and proceed with procedure in LEVEL 2.
- 1.6. If the pipe does not need be replaced: this service document is completed. The vehicle can return in service.

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## LEVEL 2

### PROCEDURE

**NOTE**

Your configuration may differ

### DRAIN FLUID

- 2.1. Park the vehicle on a level surface with the transmission on neutral.
- 2.2. Apply the parking brake and set the master control switch to the **stop** position.
- 2.3. Set the battery disconnect switch in the battery compartment to the **off** position and lock out the switch.
- 2.4. Drain the hydraulic oil.

**NOTE**

Refer to the maintenance manual, section 09: *Engine and Cooling*, for the **HYDRAULIC OIL DRAIN PROCEDURE**.

### PIPE N81043-01 REPLACEMENT

**NOTE**

Unless otherwise specified, retain removed hardware during procedure for later reinstallation.

- 2.5. Outside the vehicle, to access pipe N81043-01, remove the following components (see Figure 4):
  - a. The radiator canopy and grills.
  - b. The rear side panel, curbside.
  - c. The lamp support, curbside.
- 2.6. Remove the 2 P-clamps securing the pipe N81043-01 (see Figure 5).

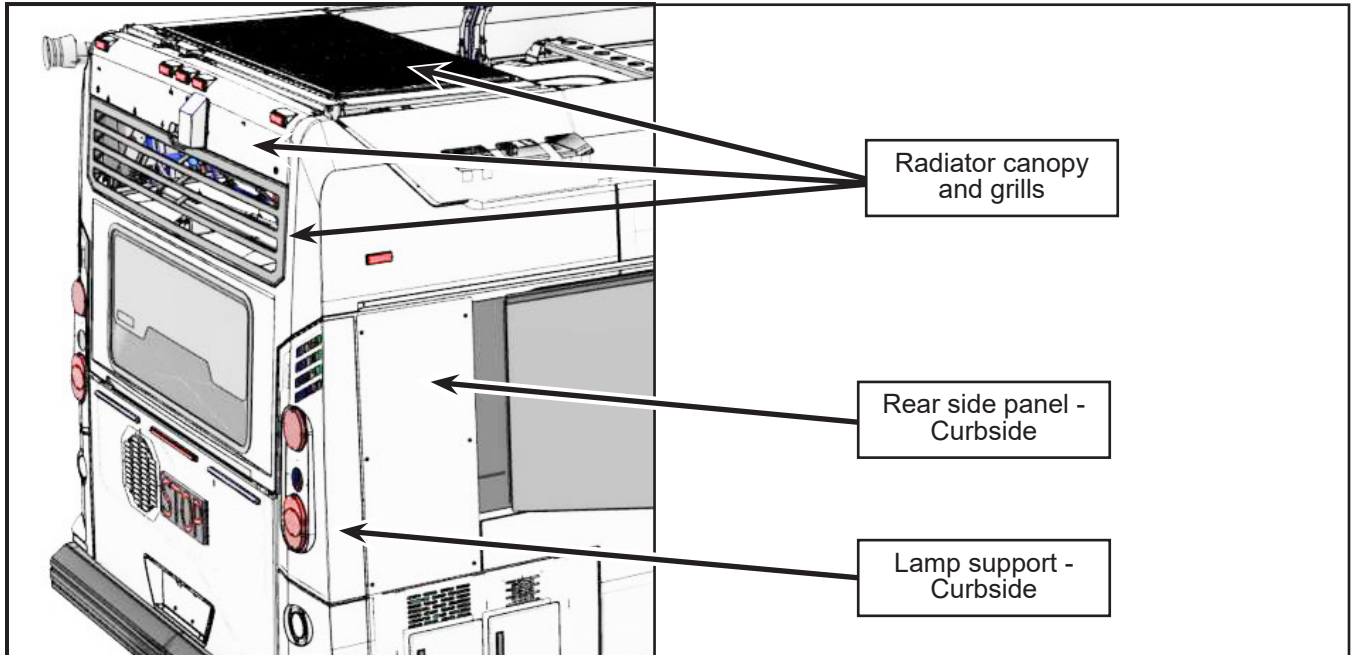


Figure 4 - Components to Remove to Access Pipe N81043-01

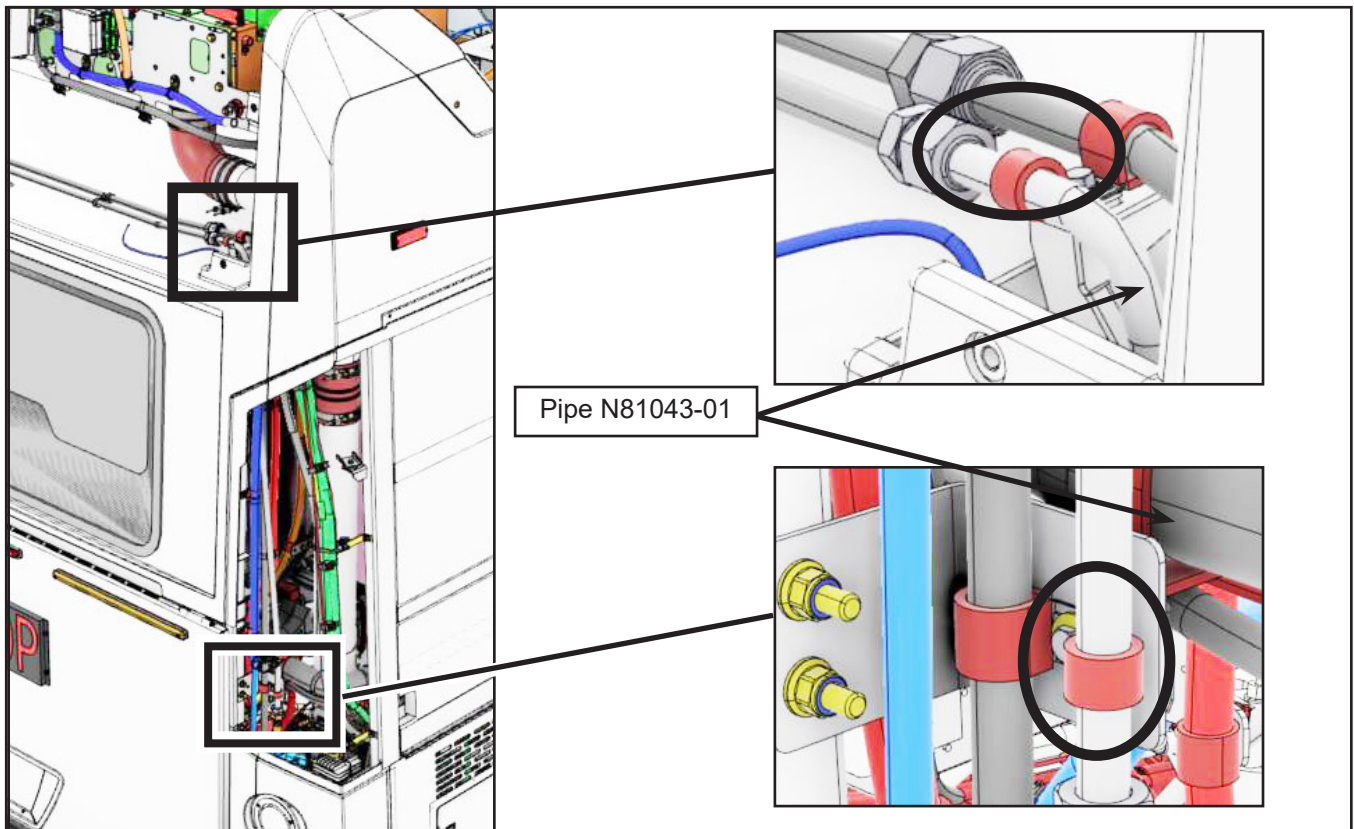


Figure 5 - Remove P-Clamps to Free Pipe N81043-01

- 2.7. To remove the pipe N81043-01, cut any cable ties or dual cable ties securing surge tank hoses on pipe N81043-01. Note their position for reinstallation.
- 2.8. Unscrew the 2 fittings at both ends of pipe N8143-01 and remove from the vehicle (**hydraulic oil may spill**). Discard the removed pipe.
- 2.9. Install the new pipe N81043-01 and torque at the torque value of 48 ft-lb (65 N·m).

**NOTE**

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**Refer to the maintenance manual, section 99: General Practices, for ORS-TYPE FITTING INSTALLATION.**

- 2.10. Install P-clamps removed in **step 2.6**.
- 2.11. Secure surge tank hoses to the new pipe N81043-01 with 10 new dual clamp ties N37749 replacing the ones removed in **step 2.7**. Use also cable ties G5007996 as needed.

## FILL FLUIDS

- 2.12. Fill the hydraulic oil.

**NOTE**

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**Refer to the maintenance manual, section 09: Engine and Cooling, for HYDRAULIC OIL FILLING PRECEDURE.**

- 2.13. Start the engine and check for hydraulic oil leaks.
- 2.14. Stop the engine.

## CLOSING

- 2.15. Close the outside by installing all removed components in **step 2.5**.
- 2.16. The vehicle can return in service. ❖