

REFERENCE:	Nova Bus Manuals
SECTION:	09: Hydraulic system
RS N°:	MQR 7621-2642
EFFECTIVE IN PROD.:	LD64

APPLICATION DEADLINES:2024JL01  
CLAIM REFERENCE NUMBER:WB5404

SUBJECT:	Clamp on power steering hose
JUSTIFICATION:	There is a potential restriction of fluid due to an improperly placed clamp which could cause the power steering system to not operate as intended.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Verify that the clamp is installed properly.	Nova Bus	Nova Bus	10 min
2	If the clamp is crushing the hose (restricting the flow), the hose and clamp needs to be replaced.	Nova Bus	Client*	1h10

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

#### MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
<b>LEVEL 1</b>			
-	-	-	-
-	-	-	-
<b>LEVEL 2 (only if required**)</b>			
1	N95797-02	-	Hose ASM (Engine & air brake)
2	N80726	-	Clamp Worm-Drive 16-27MM (# Prv 992082)
3.85 L	N30283	-	Castrol TRANSYND SYNTH ATF

Materials will be available within 107 days once your order has been placed.

To order, please contact [novabus.parts@volvo.com](mailto: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.

\*\*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	2023JN09	Initial release	André Pelletier

APPROVED BY:

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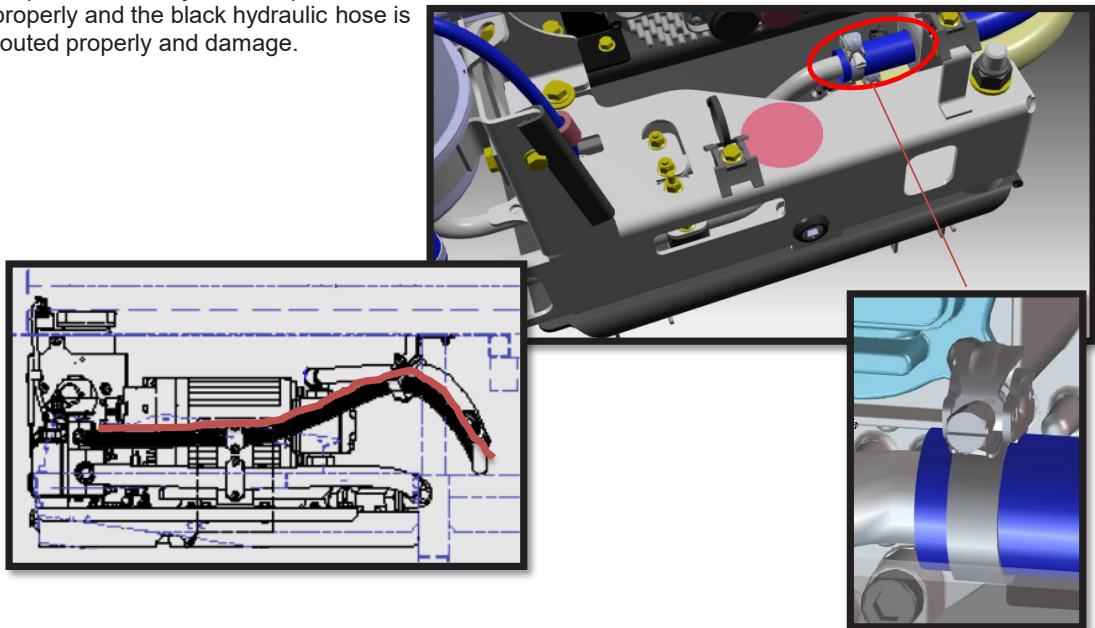
CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
University of Vermont	LC87	—	—	L82L5L9777539	L82L5L9777539	1
New York City Transit New York - NYCT	LC78	9620	9620	L82L4L9777581	L82L4L9777581	1
New York City Transit New York - NYCT Demo	LD23	9621	9622	L82LXL9777634	L82L5L9777668	3
New York City Transit New York - NYCT	LC79	9623	9703	L82L1M9777782	L82LXM9777862	81
New York City Transit New York - NYCT	LC79	9704	9784	L82L1M9777863	L82L4M9777954	81
New York City Transit New York - NYCT	LD64	9785	9798	L82L0M9777871	L82L8M9777973	14
New York City Transit New York - NYCT	LD64	9800	9885	L82L1M9777975	L82L0M9778115	86
New York City Transit New York - NYCT	LD64	9889	9901	L82L8M9778119	L82L0M9778146	13
New York City Transit New York - NYCT	LD64	9903	9908	L82L4M9778148	L82L8M9778153	6
New York City Transit New York - NYCT	LD64	9910	9910	L82L1M9778155	L82L1M9778155	1
Milwaukee Wisconsin - electric Bus - LFS-e+	LE16	1000	1000	L82M4N9778290	L82M4N9778290	1
San Francisco California SFMTA - LFS-e+	LE39	5010	5010	L82M2N9778305	L82M2N9778305	1
Houston - Texas	LE77	3000	3000	L82M3N9778605	L82M3N9778605	1

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

**DESCRIPTION / WORK INSTRUCTION****Level 1 Inspected E-steering for potential restriction of fluid due to an improperly placed clamp.**

- Step 1. Inspection to verify the clamp is installed properly and the black hydraulic hose is routed properly and damage.



If the clamp is crushing the hose (restricting the flow), the hose and clamp needs to be replaced.

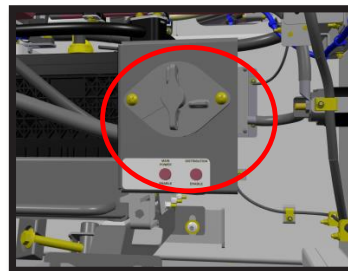


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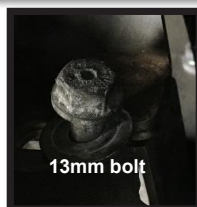
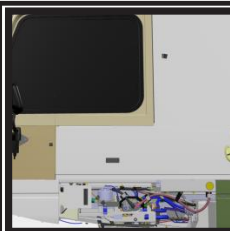
## DESCRIPTION / WORK INSTRUCTION

**Level 2 Hose and clamp replacement if damage hose or if clamp is improperly installed.**

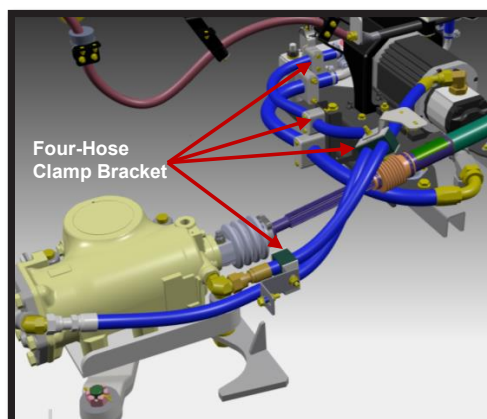
**Step 1.** Located in the battery box and **Disconnect** the 24v power to the bus then **Place** a lockout / tagout to the switch.



**Step 2.** Located on the street side front compartment **open the door** and with square key and with a 13mm wrench **Loosen** the 13mm bolt swing bolt down and then with a square key **Turn** the lock and **Swing** out the power steering reservoir.



**Step 3.** **Remove** the four-hose clamp bracket hardware and bolts from the damage hose. **Do not discarded**, will be used to secure new hose..

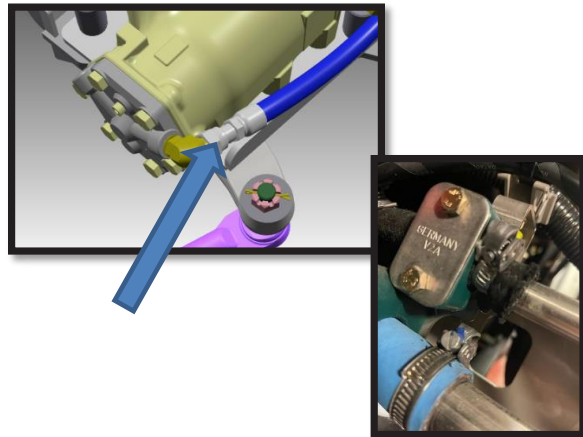


Important notices

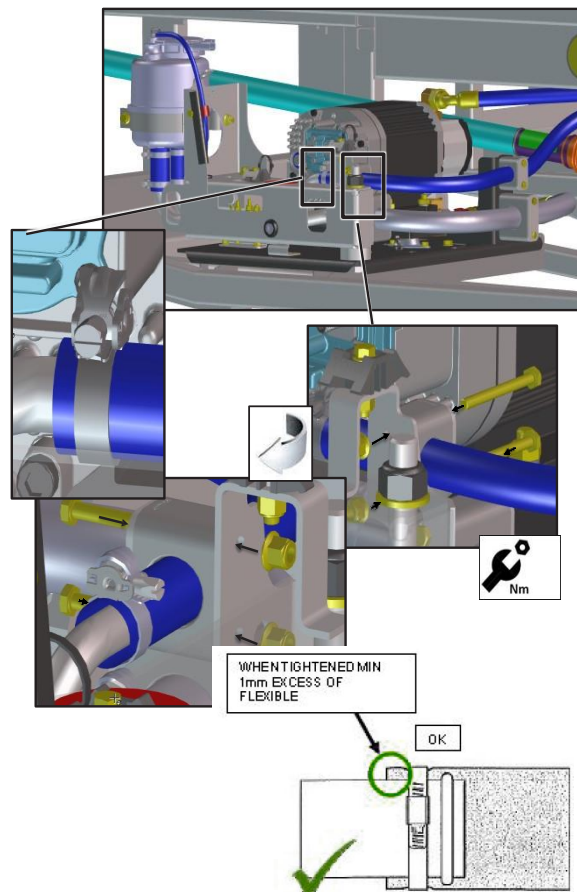
## DESCRIPTION / WORK INSTRUCTION

**Level 2 Hose and clamp replacement if damage hose or if clamp is improperly installed.**

**Step 4.** Place a drain pan under the damaged hose located at the steering gear box and **Remove** the hose from gear box, drain the oil from the hose into the pan. **Loosen** clamp from the other end of the hose and **Remove** hose. Allow all oil to drain into pan. **Discarded** hose and clamp.



**Step 5.** Install new hose (N95797-02) with new clamp (N80726) on to the pump reservoir piping ensuring the hose is past the raised portion of the pipe. Place hose clamp 1mm from the end of the hose and Torque clamp to  $3.25 \pm 0.25$  NM. or 27 to 31 lbs-in.



REF. AVT 0427

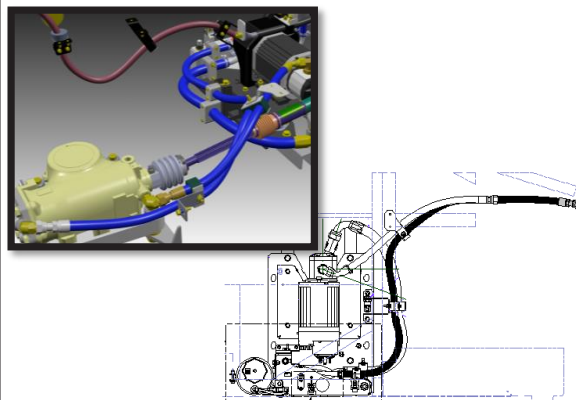
Important notices

## DESCRIPTION / WORK INSTRUCTION

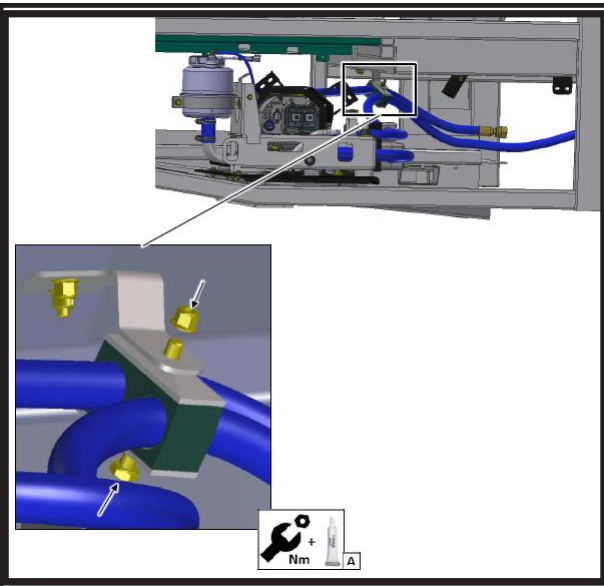
**Level 2 Hose and clamp replacement if damage hose or if clamp is improperly installed.**

**Step 6.** Rout the hose through the four-hose clamp brackets and hand tighten ensure the routing is IAW Drawing 409347NB08E1. **Secure** hose to the power steering gear box with 1&1/8 crowfoot. Torque hose ASM to gear box to 48 lb-ft or 65 NM.

REF. Drawing 409347NB08E1



**Step 7.** Torque the four-hose clamp brackets to  $10 \pm 1.5$  NM or 84 to 102 lbs-in. Torque strip nuts.



**Step 8.** Fill steering reservoir to max level mark located on the reservoir with CASTROL TRANSYND SYTH ATF N30283

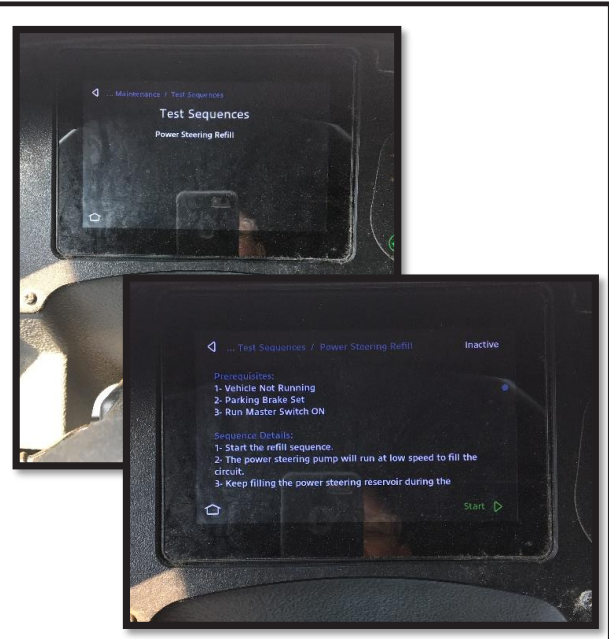


Important notices

## DESCRIPTION / WORK INSTRUCTION

Level 2 Hose and clamp replacement if damage hose or if clamp is improperly installed.

**Step 9.** Place the main battery switch on and the master run switch in the run position ( **DO NOT START ENGINE**). Open the dash screen to Test Sequence and then Power Steering Refill. Follow the instruction on the screen to refill the power steering.



**Step 9.** Swing in the power steering reservoir carrier and with a 13mm socket and torque wrench **Torque** the bolt to  $32 \pm 2$  NM or 22 to 25 lbf- ft. **Close** and lock compartment door.

