

REFERENCE:	Nova Bus Manuals
SECTION:	09: Electrohydraulic Steering System
RS N°:	MQR 7621-2989
EFFECTIVE IN PROD.:	LG21
TC RECALL N°:	2025-384
NHTSA RECALL N°:	25V-476

**APPLICATION DEADLINES: N/A CLAIM
REFERENCE NUMBER: SR5746**

SUBJECT:	Power steering hydraulic circuit
JUSTIFICATION:	The subject vehicles have been manufactured with an electric power steering system. Under certain conditions, while the vehicle is stationary, an overcurrent may occur causing the electric steering motor to shut down and allow the hydraulic pressure to return from the pump to the steering wheel. This situation can generate a kickback to the steering wheel. A steering wheel kickback may increase the risk of an injury.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Installation of a check valve on the power steering hydraulic circuit.	Nova Bus	Nova Bus	45 min
2	-	-	-	-

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
1	N94181	-	VALVE CHECK SAE-10/ORS-10
1	N35362	A	ELBOW 90DEG M-ORS-10 F-ORS-10
LEVEL 2			
-	-	-	-

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.

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	2025SE11	Initial release	André Pelletier

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
ATUQ Preserie LFSe+	LF36					1
Demo - Articulated	LD85					1
Demo - LFS-e+	LD29					3
Nova - Proto	LF61					1
Ames Iowa - Transit Agency	LE52					2
Belleville Ontario - Metrolinx	LE54					1
Bow Valley Transit Alberta	LG18					3
Bow Valley Transit Alberta	LG37					3
Brampton Ontario	LG34					3
Brampton Ontario	LG34					6
CMBC - Translink	LE13					1
CMBC - Translink	LE14					14
Durham Region Transit Ontario	LF55					6
Fredericton New Brunswick	LF90					4
Grand River Transit Ontario - GRT	LE71					6
Grand River Transit Ontario - GRT	LF08					7
Grand River Transit Ontario - GRT	LF56					5
Grand River Transit Ontario - GRT	LG07					44
Guelph Ontario	LE69					4
Guelph Ontario	LF45					7
Guelph Ontario	LG38					8
Halifax Nova Scotia	LE91					1
Halifax Nova Scotia	LF31					59
Houston Texas - Metro	LE77					20
Milwaukee Wisconsin - MCTS	LE16					1
Milwaukee Wisconsin - MCTS	LE17					10
Milwaukee Wisconsin - MCTS	LF12					4
New York City Transit, New York - NYCT	LC78					2
New York City Transit, New York - NYCT	LC79					81
New York City Transit, New York - NYCT	LC79					81
New York City Transit, New York - NYCT	LD23					3
New York City Transit, New York - NYCT	LD64					21
New York City Transit, New York - NYCT	LD64					1
New York City Transit, New York - NYCT	LD64					5
New York City Transit, New York - NYCT	LD64					1
New York City Transit, New York - NYCT	LD64					16
New York City Transit, New York - NYCT	LD64					4
New York City Transit, New York - NYCT	LD64					11
New York City Transit, New York - NYCT	LD64					1
New York City Transit, New York - NYCT	LD64					66
New York City Transit, New York - NYCT	LF28					5

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
North Bay Ontario	LG08					3
Oakville Ontario	LF70					15
OC Transpo - Ottawa	LF94					4
Regina Saskatchewan	LG06					7
Regina Saskatchewan (LG94)	LD85					1
San Francisco Municipal Transportation Agency - SFMTA	LE39					1
San Francisco Municipal Transportation Agency - SFMTA	LE72					2
Saskatoon Saskatchewan	LF64					2
St. John's, Newfoundland	LF84					8
Stratford Ontario	LF86					2
Toronto Transit Commission Ontario - TTC	LE65					124
Toronto Transit Commission Ontario - TTC	LF42					10
Toronto Transit Commission Ontario - TTC	LF65					1
Toronto Transit Commission Ontario - TTC	LF76					7
Toronto Transit Commission Ontario - TTC	LF76					1
Toronto Transit Commission Ontario - TTC	LF76					7
Toronto Transit Commission Ontario - TTC	LF76					2
Toronto Transit Commission Ontario - TTC	LF76					2
Toronto Transit Commission Ontario - TTC	LF76					1
University of Vermont	LC87					1
Windsor Ontario - Metrolinx	LG04					18

**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.
- 1.4. Access the power steering system through the left front access door; see the figure below.

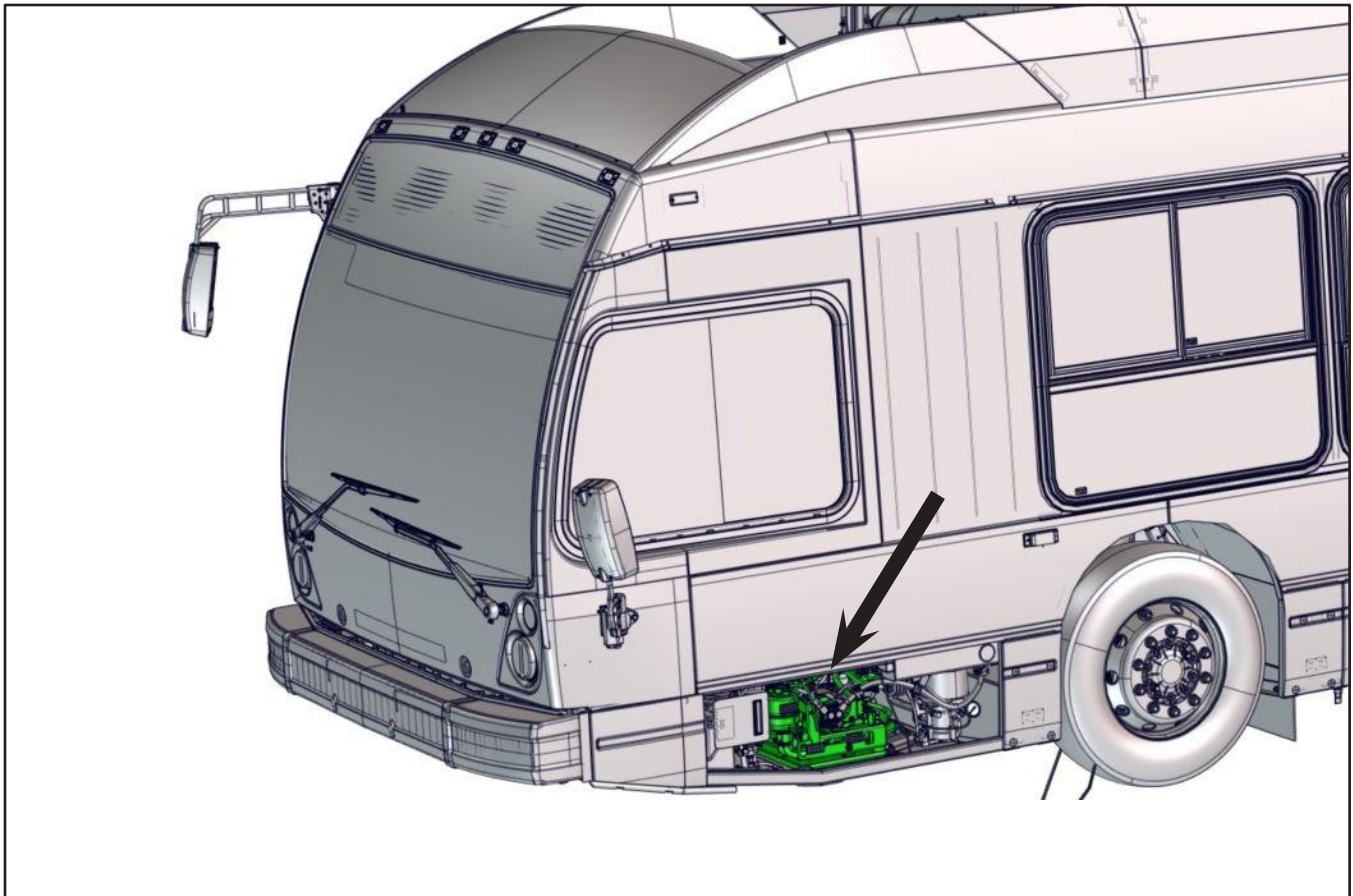


Figure 1 - Power Steering Location

- 1.5. Drain and collect the oil in a clean container; see your maintenance manual, section **09-347: 24V ELECTROHYDRAULIC SYSTEM.**
- 1.6. Disconnect the hose at the pump outlet; see the following figure.
- 1.7. Remove and discard the original fitting (90-degree elbow).

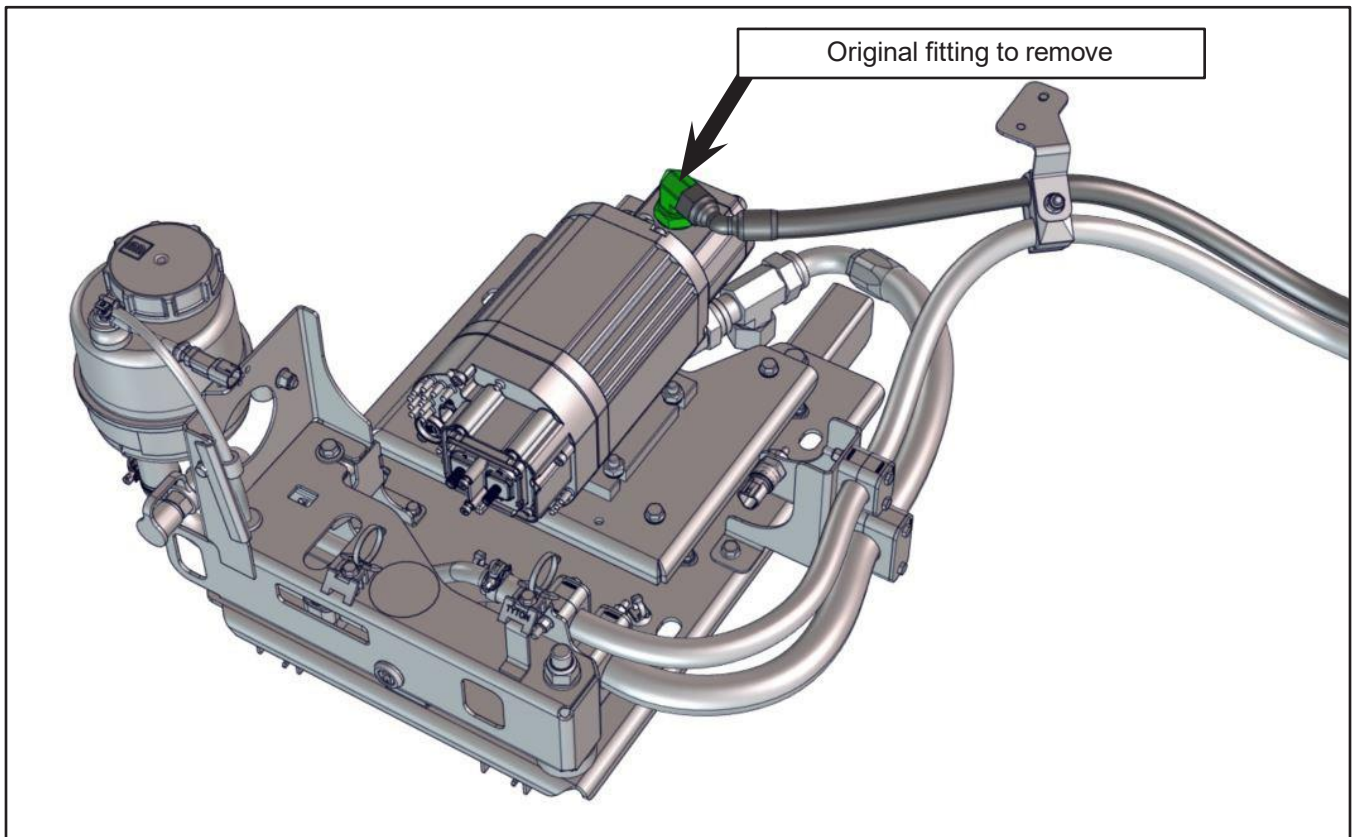


Figure 2 - Drain and Recuperate the Oil Then Remove the Fitting

- 1.8. Install the new check valve N94181; see the following figure. Torque to 81 N·m (60 ft-lb).
- 1.9. Install the new fitting N35362 (90-degree elbow); see the following figure. Torque to 65 N·m (48 ft-lb).

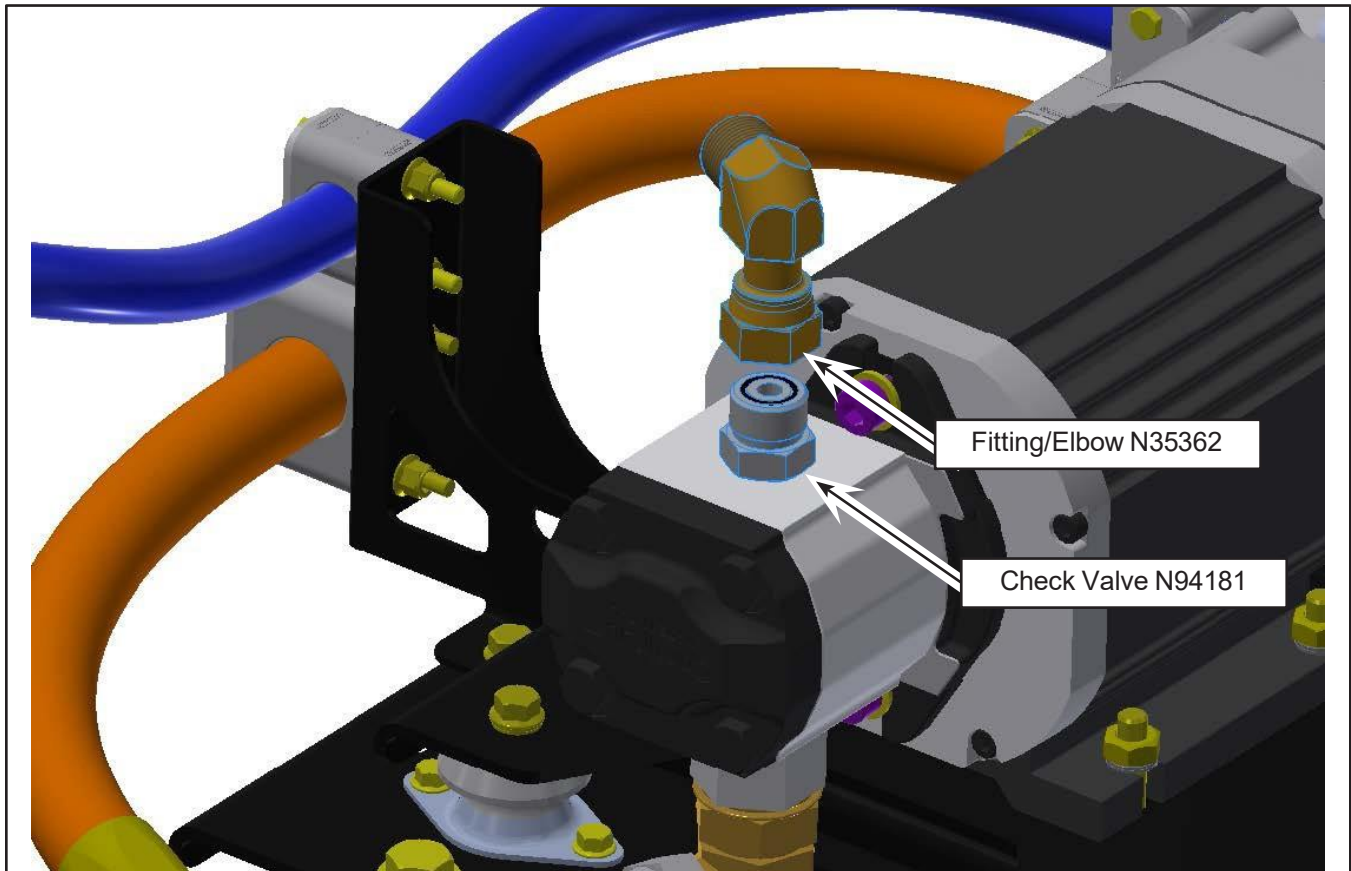


Figure 3 - Install the New Check Valve and the New Elbow

- 1.10. Reconnect the original hose; torque to 65 N·m (48 ft-lb).
 - 1.11. Fill the power steering hydraulic circuit with oil. See your maintenance manual section **09-347: 24V ELECTROHYDRAULIC SYSTEM**.
 - 1.12. Verify the functionality and that there is no leak.
 - 1.13. The vehicle can be returned to service.
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