

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine and Cooling
RS N°:	–
EFFECTIVE IN PROD.:	LE84 (2023JA)
TC RECALL N°:	–
NHTSA RECALL N°:	23V054

APPLICATION DEADLINES: N/A
CLAIM REFERENCE NUMBER: SR5374

SUBJECT:	Power Steering Hydraulic Hose
JUSTIFICATION:	Certain power steering hoses manufactured by a certain manufacturer during a certain time period may have not been assembled properly. This may cause a power steering assist lost.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace the hydraulic hoses N95735-32, N95740-37, N95740-52 and N95841-01.	Nova Bus	Nova Bus	2h30
2	–	–	–	–

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
1	N95735-32	–	HOSE WITH GUARD
1	N95740-37	B	HOSE HYD HI-PAC WIRE BRAID
1	N95740-52	A	HOSE HYD PWR STEERING ASSY
1	N95841-01	–	HOSE ASSY HI-PAC WIRE BAND
2	N37749	B	DUAL CLAMP TIE
LEVEL 1 - SHOP SUPPLY			
3 Li	HYDRAULIC OIL		A MAXIMUM OF 3 LITERS OF HYDRAULIC OIL WILL BE REFUNDABLE UPON CLAIM.
LEVEL 2			
–	–	–	–

Materials will be available within 35 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.

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	2023MR06	Initial release	Annie St-Jacques

APPROVED BY:

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Chicago Transit Authority - CTA - Illinois	LE87	8461	8463	L82J5N97786	L82J5N97786	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.

DRAIN HYDRAULIC OIL

**NOTE**

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

- 1.4. Open the rear engine access door. Locate the hydraulic reservoir and place a clean container to recover the oil (Figure 1).
- 1.5. Drain the oil. Keep the oil, it will be reused to fill the reservoir after the work has been completed.
- 1.6. Open the right front access door, locate the drain plug on the 90 deg fitting and place a clean container under it (Figure 2).
- 1.7. Remove plug and drain the remaining oil from the pipe. Keep the oil, it will be reused to fill the reservoir after the work has been completed.



Figure 1 - Place Container to Collect Hydraulic Oil

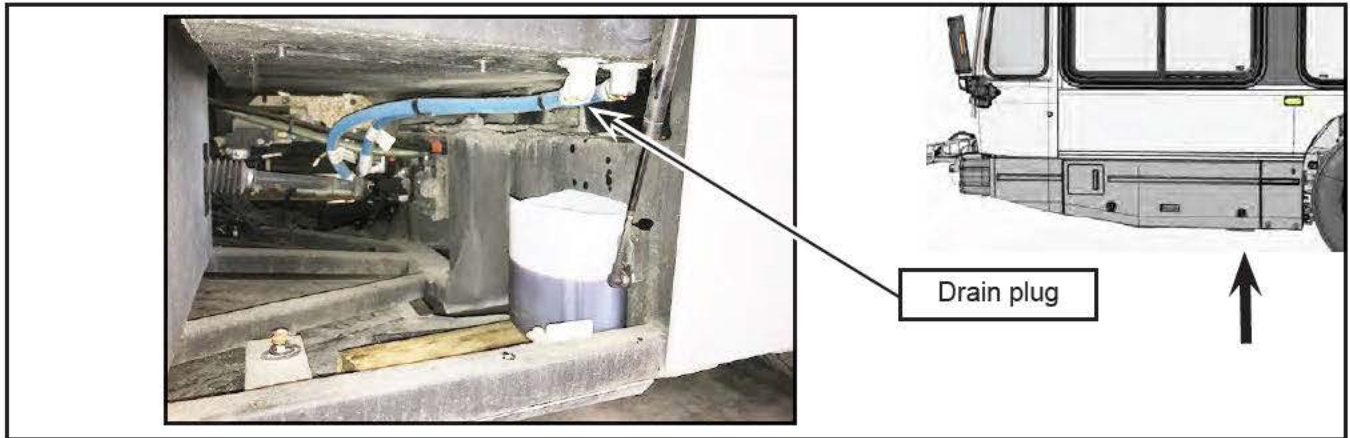


Figure 2 - Place Container to Collect Remaining Hydraulic Oil

REPLACE HYDRAULIC HOSE N95740-37

1.8. At the rear of the vehicle, remove the RH lamp support panel and the RH rear end corner (Figure 3).

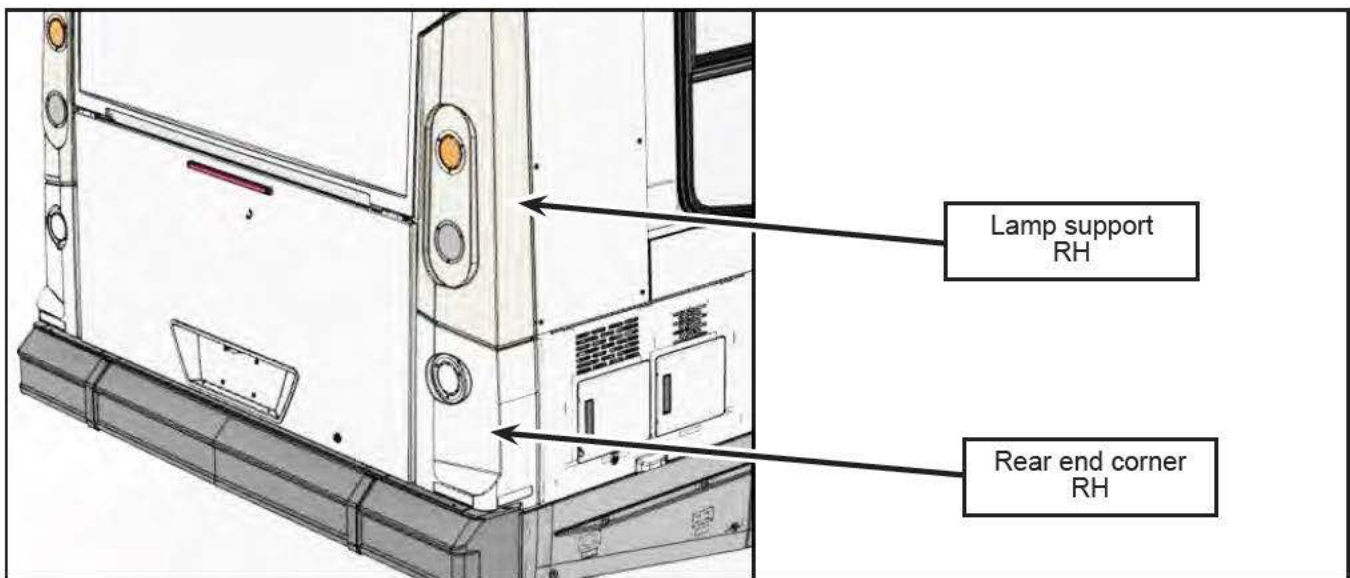


Figure 3 - Remove RH Lamp Support and Rear end Corner

- 1.9. Locate hydraulic pipe N95740-37 (Figure 4).

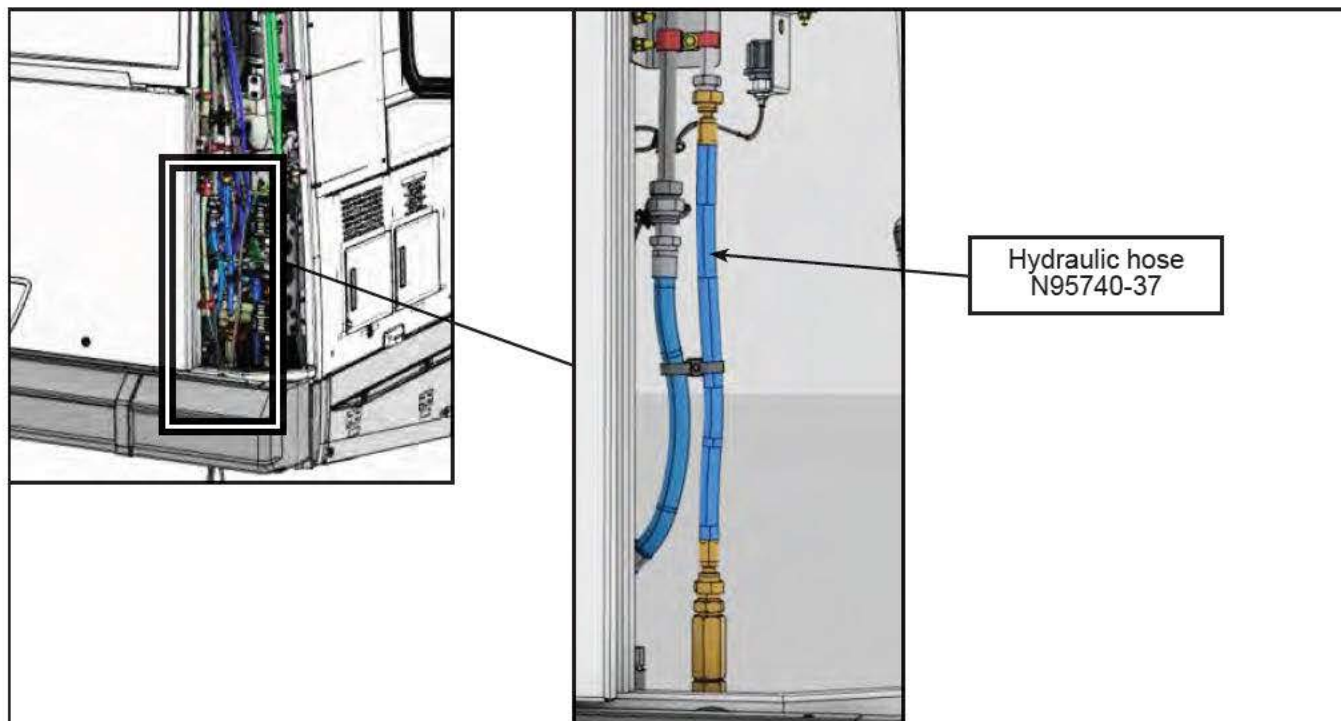


Figure 4 - Replace Hydraulic Hose N95740-37

- 1.10. Remove any dual clamps securing the hose (note their position for reinstallation).
1.11. Disconnect the hose N95740-37 and remove from the vehicle.
1.12. Install the new hose N95740-37 in place and tighten both fittings to the torque value of 48 ± 2 lb-ft (65 ± 3 N·m).



NOTE

Refer to the maintenance manual, section 99: *General Practices*, for ORS-TYPE AND SAE 37°-JIC-TYPE FITTING INSTALLATION.

- 1.13. Secure the new hose with new dual clamp ties N37749, replacing the ones removed at step 1.10.

REPLACE HYDRAULIC HOSES N95735-32 AND N95841-01

- 1.14. Raise the vehicle.



CAUTION

For information on hoisting and towing of the vehicle, see section 18: *HOISTING AND TOWING* in the Nova Bus maintenance manual. Use appropriate hoisting equipment for your protection and to prevent damage to the vehicle.

- 1.15. Remove the dust pan shown in Figure 5.
- 1.16. Locate the hydraulic hose N95735-32 between the hydraulic pump and the hydraulic oil filter and the hydraulic hose N95841-01 between the hydraulic pump and the hydraulic oil reservoir (Figure 6).
- 1.17. Remove the two P-clamps securing the two hoses. Keep the P-clamps and the hardware for later reinstallation.
- 1.18. Disconnect the two hoses and remove from the vehicle.

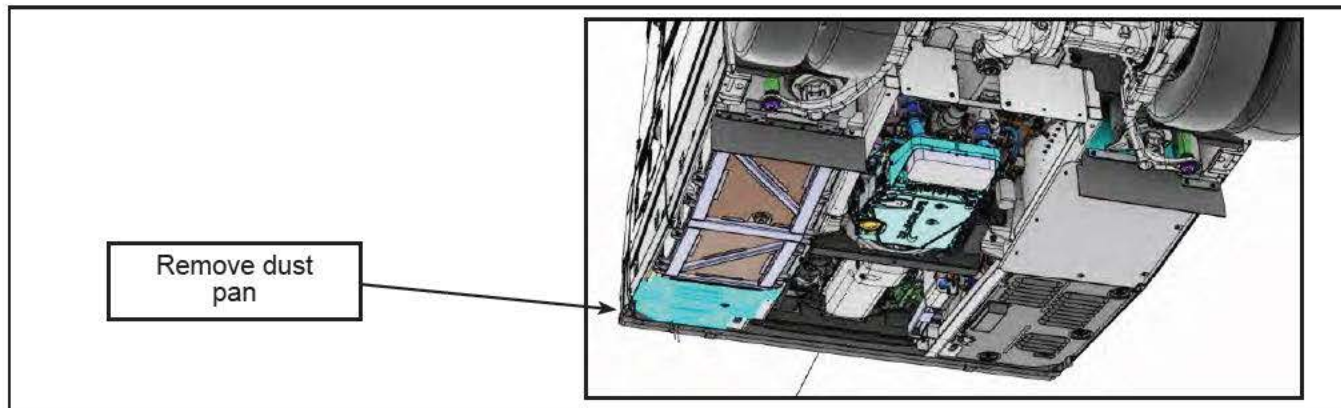


Figure 5 - Remove Dust Pan

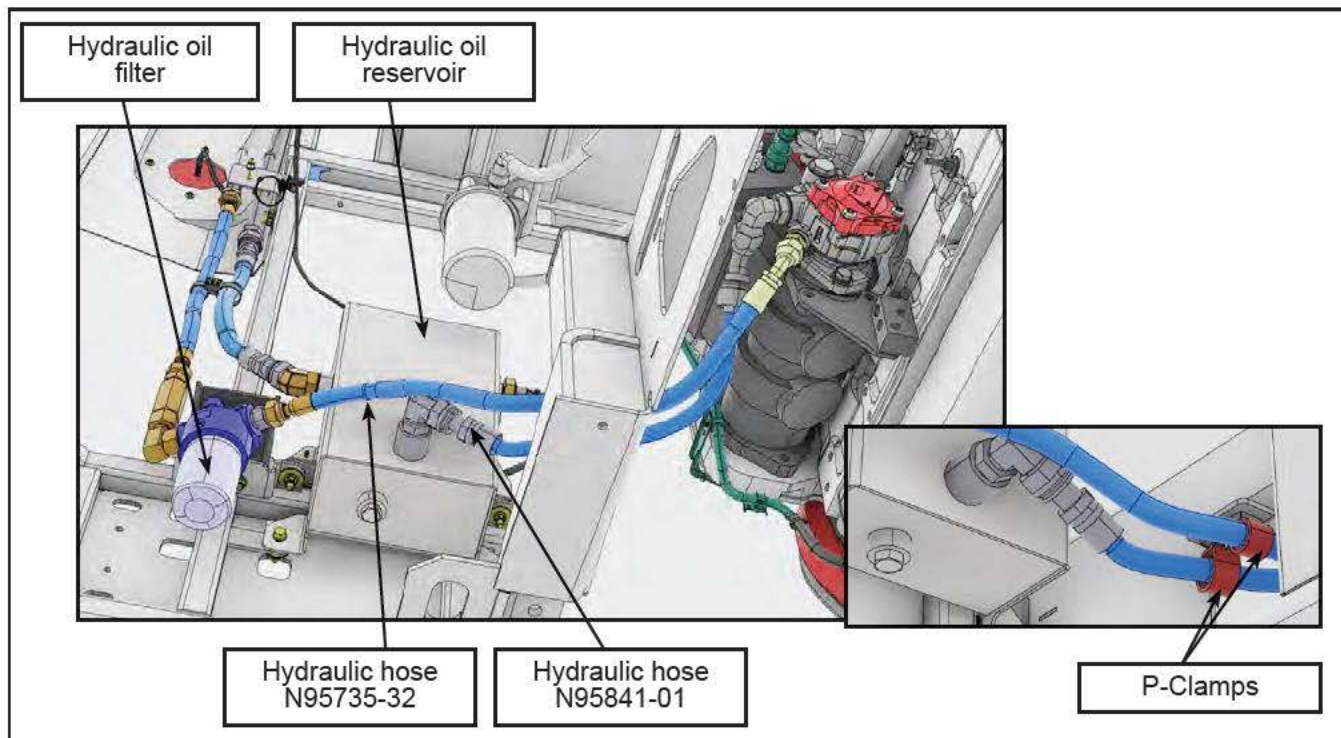


Figure 6 - Location of Hydraulic Hoses N95735-32 and N95841-01

- 1.19. Install the new hose N95735-32 between the hydraulic pump and the hydraulic oil filter. Tighten by hand. Install the new hose N95841-01 between the hydraulic pump and the hydraulic oil reservoir. Tighten by hand. Tighten to the torque values shown in Figure 7.
- 1.20. Reinstall the two P-clamps with the hardware removed at step 1.17. Apply medium thread locker or equivalent on screw.

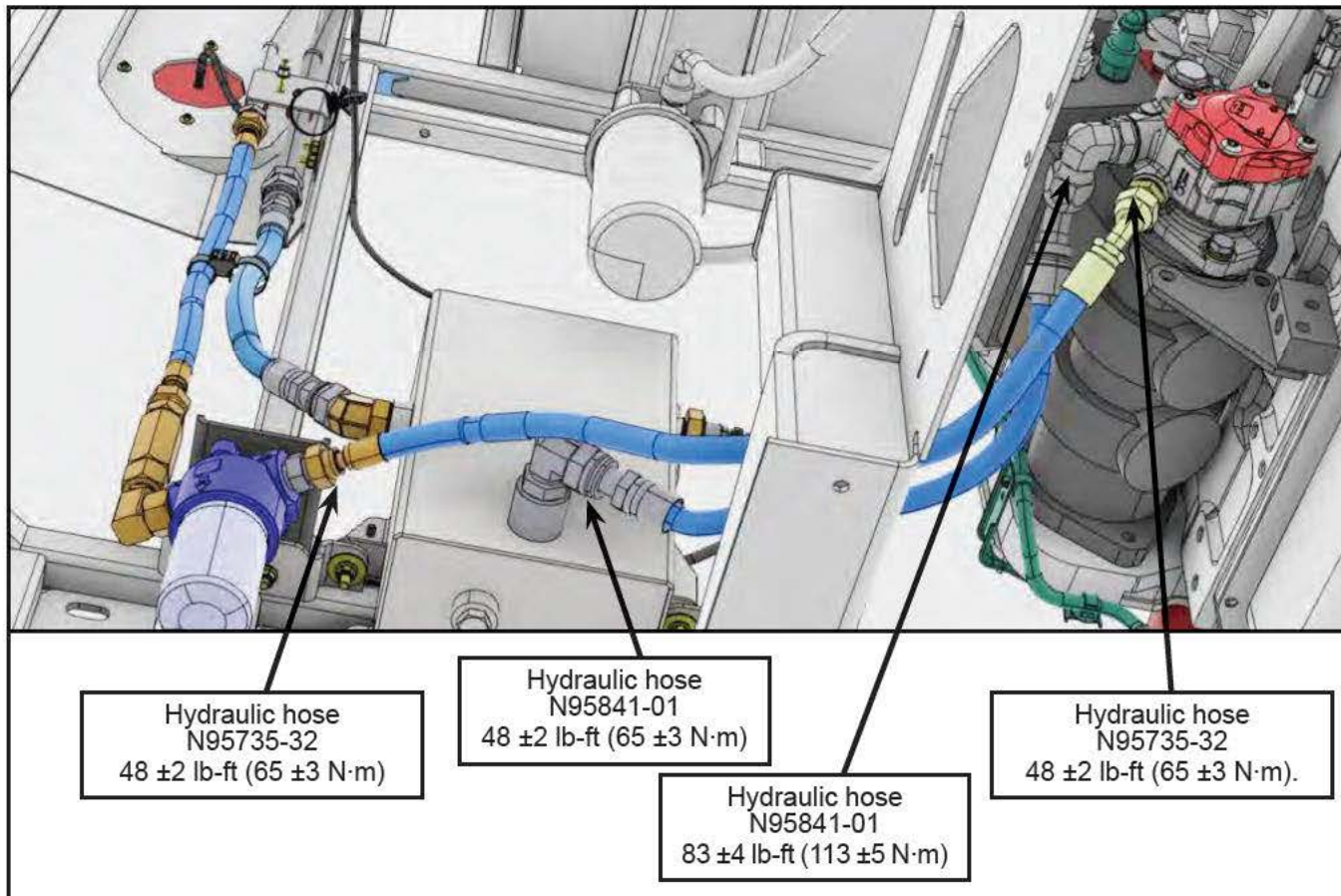


Figure 7 - Replace Hydraulic Hoses N95735-32 and N95841-01

REPLACE HYDRAULIC HOSE N95740-52

- 1.21. Remove the dust pan shown in Figure 8.
- 1.22. Locate the hydraulic hose N95740-52, it is the shorter of the 2 hydraulic hose (Figure 9).
- 1.23. Remove the 3 double clamps. Keep double clamps and the hardware for later reinstallation.
- 1.24. Disconnect the hose N95740-52 and remove from the vehicle.
- 1.25. Install the new hose N95740-52 and tighten both fittings to the torque value of 48 ±2 lb-ft (65 ±3 N·m).
- 1.26. Reinstall the 3 double clamps with the hardware removed at step 1.23. Torque at the torque value of 9 lb-ft (12 N·m) and apply torque seal.

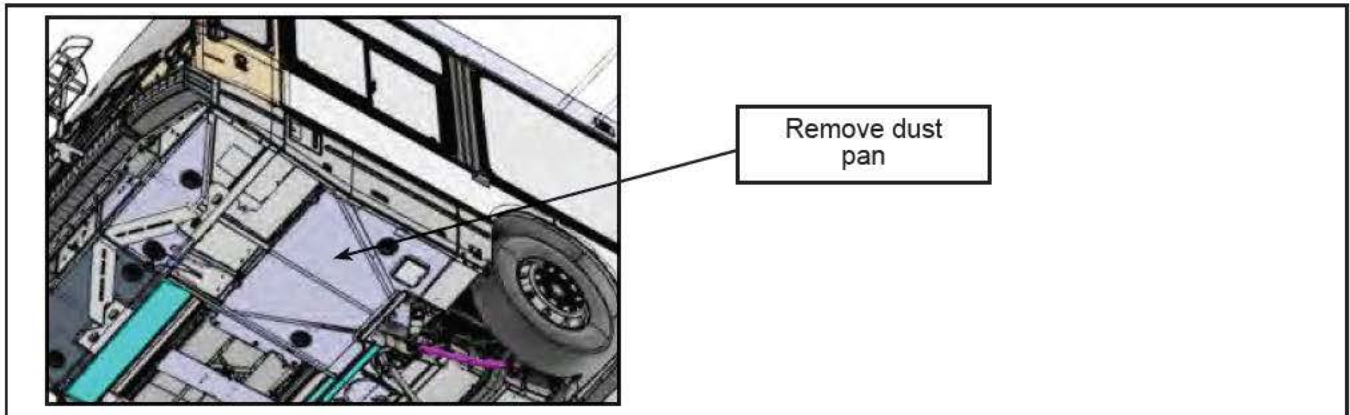


Figure 8 - Remove Dust Pan

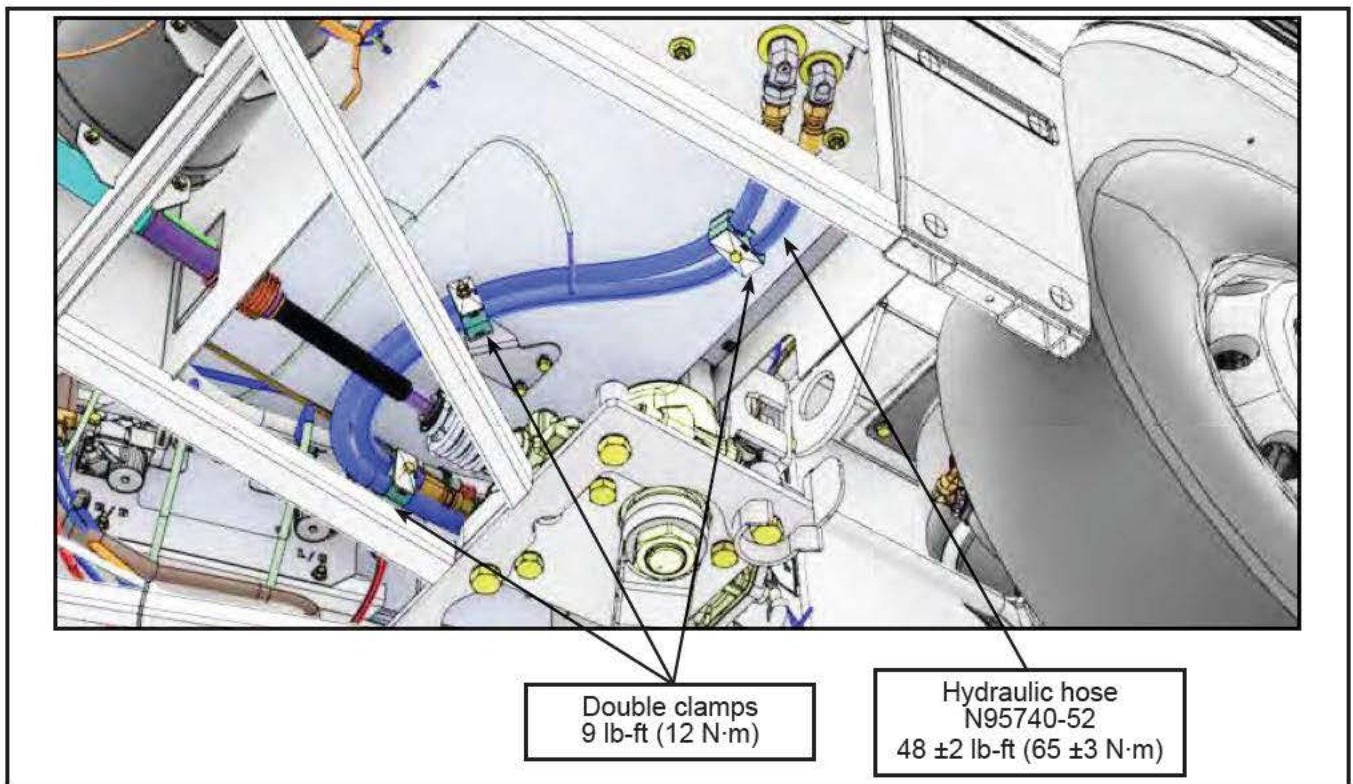


Figure 9 - Replace Hydraulic Hose N95740-52

REFILL HYDRAULIC RESERVOIR

1.27. Fill the hydraulic oil reservoir to the required level.



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

CHECK FOR LEAKS

1.28. Start the vehicle and turn the steering wheel back and forth.

Figure 1 - Inspect hoses N95735-32, N95740-37, N95740-52 and N95841-01 connections to ensure there are no leaks.

1.29. Stop the engine.

CLEAN AND CLOSE

1.30. Clean any excess oil.

1.31. Reinstall the removed dust pans.

1.32. Lower the vehicle.

1.33. Reinstall the RH lamp support panel the RH rear end corner.

1.34. The vehicle can return in service. ❖