

REFERENCE:	Nova Bus Manuals
SECTION:	11: Exhaust system
RS N°:	MQR 7621-729
EFFECTIVE IN PROD.:	L841 (2015JN)

APPLICATION DEADLINE: 2017DE27
CLAIM REFERENCE NUMBER: WB-3735

SUBJECT:	Exhaust bellows
JUSTIFICATION:	Flexible bellows N79197 and N79198 may have an exhaust leak near the rigid exhaust pipe.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Apply high temperature tape on the rigid exhaust pipe and the joint of the flexible bellows.	Nova Bus	Nova Bus	3 h
2	–	–	Nova Bus	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N83253	–	2" Exhaust seal tape	–
1	N83257	–	3" Exhaust seal tape	–
1	N55895	–	4" Exhaust gasket	–
1	N44518	A	Exhaust Clamp 4"	–
LEVEL 2				
1*	N48716	–	Flat band clamp asm 4 "	–

Materials will be available within 51 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.

* Second level part N48716 should be order when the clamp broke during the removal procedure step 1.5.

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	2016AU29	Initial release	Luc Carignan
R1	2016NO09	Procedure change for installation and removal of exhaust pipe to include new clamp N44518 and minor change.	Luc Carignan

APPROVED BY: Daniel Theriault

Digitally signed by Daniel Theriault
DN: cn=Daniel Theriault, o=Nova Bus, ou, email=daniel.theriault@volvo.com, c=CA
Date: 2016.11.09 16:20:00 -05'00'

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
New York City Transit - New York	L608	8000	8014	L82U6B4000047	L82U0B4000061	15
New York City Transit - New York	L620	8015	8074	L82U2B4000062	L82U7B4000123	60
New York City Transit - New York	L621	8075	8089	L82U9B4000124	L82U9B4000138	15
New York City Transit - New York	L643	5895	5895	S92U1B4000143	S92U1B4000143	1
New York City Transit - New York	L670	5770	5894	S92U9B4000147	S92UXC4500061	125
New York City Transit - New York	L681	5896	5283	S92U2C4500023	S92U9C4500195	122
New York City Transit - New York	L692	5284	5363	S92U3C4500158	S92U3D4500274	80

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Open the rear and left engine access doors.
- 1.2. Locate the flexible bellows.
- 1.3. Remove the fabric heat shield. Reserve the fabric heat shield and hardware.
- 1.4. Fully loosen the top clamp of the flexible bellows. See Figure 1.
- 1.5. Remove the retaining clamp of the exhaust pipe. Reserve the retaining clamp and hardware. See Figure 1.
- 1.6. Fully loosen the exhaust pipe clamp. See Figure 1.
- 1.7. Remove the exhaust pipe and bellows. Reserve all parts except the exhaust pipe gasket. See Figure 1.

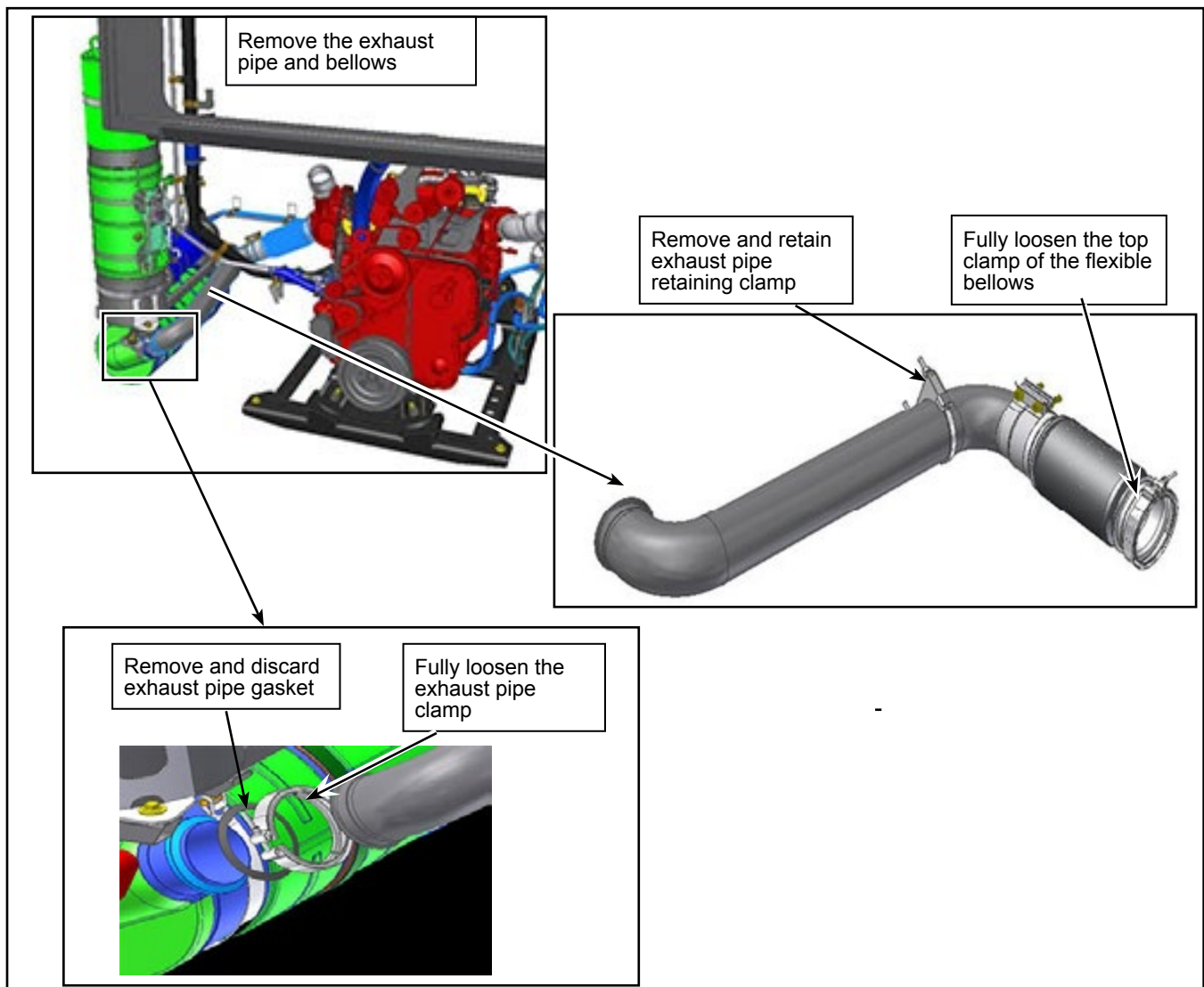


Figure 1 - Removal of Exhaust Pipe and Flexible Bellows

- 1.8. Loosen the flexible bellows clamp and slide the clamp on the exhaust pipe. Carefully clean the end of the flexible bellows and exhaust pipe using a Scotch-Brite pad. Clean off any residue with a clean dry cloth and isopropyl alcohol or brake cleaner.
- 1.9. Mark the flexible bellows 13/32 in. (10 mm) from the weld. See Figure 2.
- 1.10. Mark extension lines of the slots on the flexible bellows up to the flexible portion. See Figure 2.

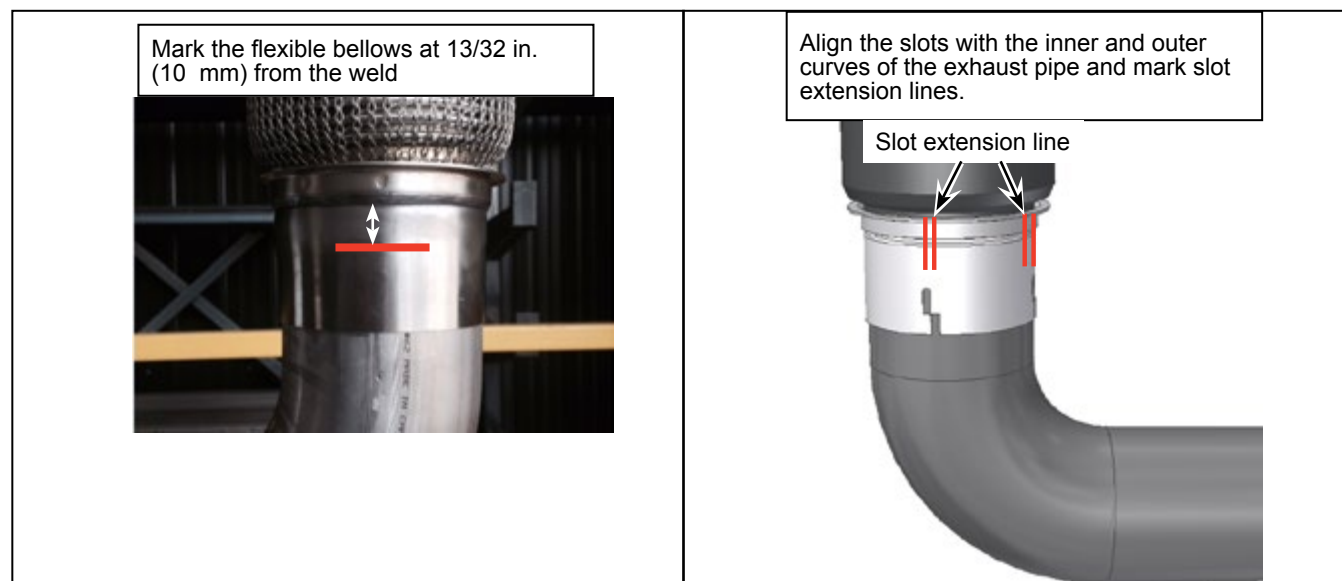


Figure 2 - Marking of the Flexible Bellows

- 1.11. Starting 1 inch (25 mm) from the slot of the flexible bellows, wrap 3 feet of N83253 (2 in. wide) tape around the exhaust pipe without any spiral. Tape must be flush with the flexible bellows and not overlap on the flexible bellows. See Figure 3.
- 1.12. Install new exhaust clamp N44518 on the exhaust pipe. See Figure 3

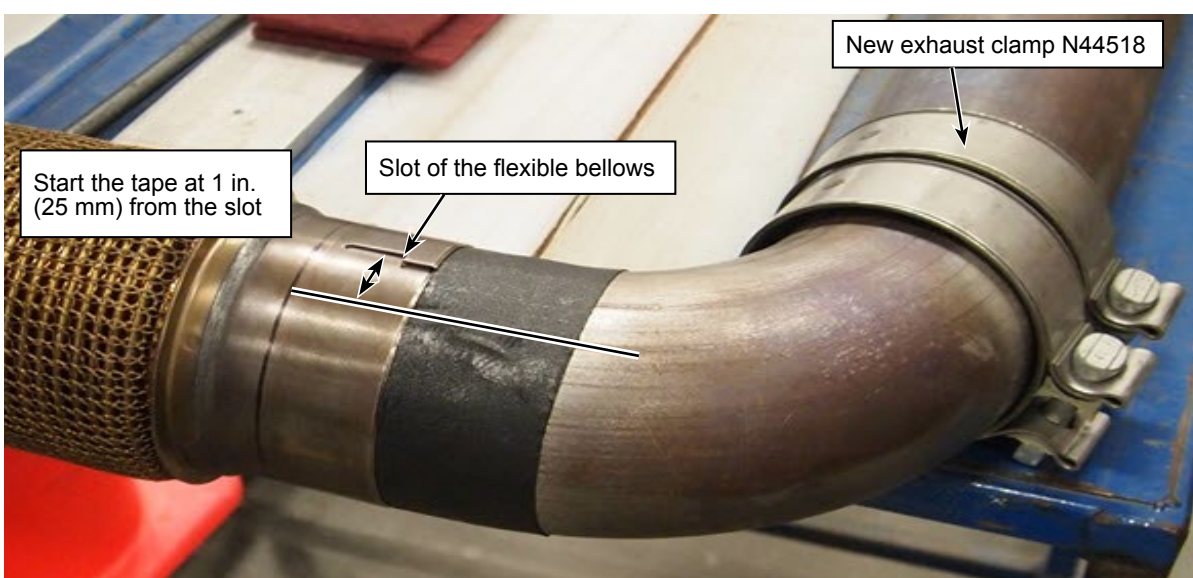


Figure 3 - Position of N83257 Tape on the Exhaust Pipe and Installation of Exhaust Clamp N44518

- 1.13. From the opposite of halfway (or center axis) between the two slots and in line with the 10 mm mark, wrap two layers of N83257 (3 in. wide) tape. End the second layer of tape even with or 1/4 in. (0 to 5 mm) from the start point. See Figure 4.

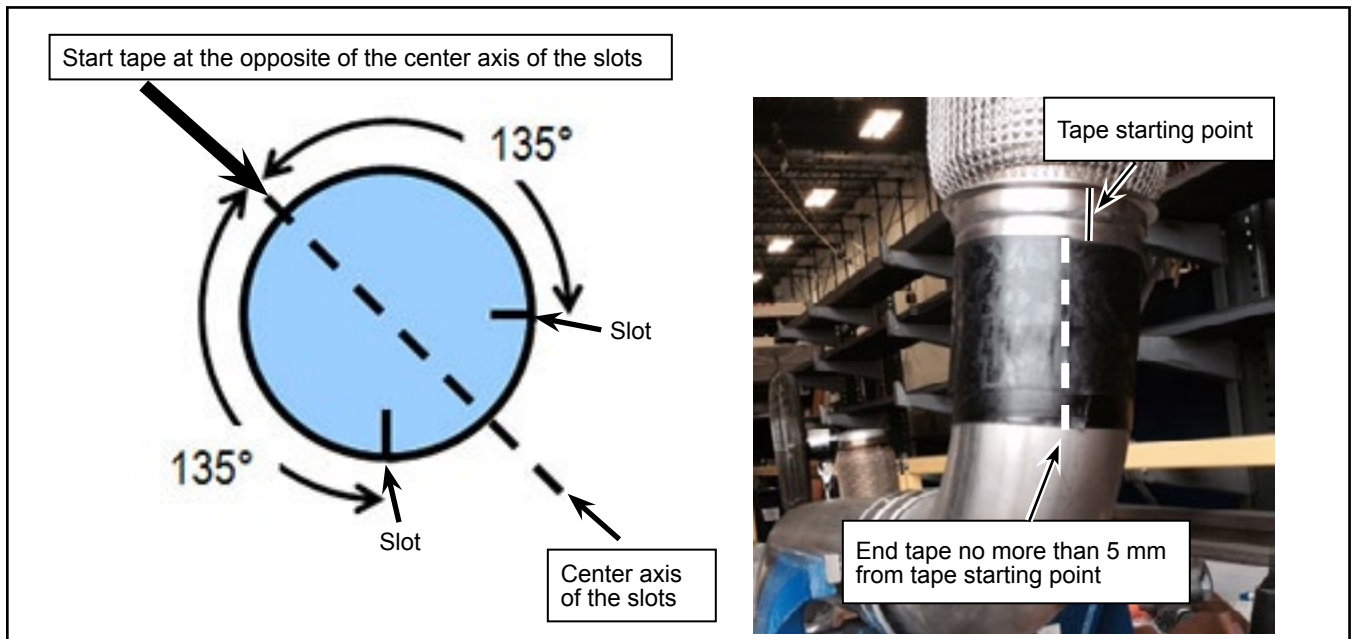


Figure 4 - Position of N83257 Tape on the Flexible Bellows

- 1.14. Position the first clamp 9/16 in. (14 mm) from the flexible portion of the bellows. There should be at least 1/8 in. (3 mm) of tape above the clamp. Align clamp reaction block on top of one of the flexible bellow slots. The nut of the clamp should point toward the other slot of the flexible bellows. See Figure 5.
- 1.15. Tighten and torque the clamp. See Figure 5.

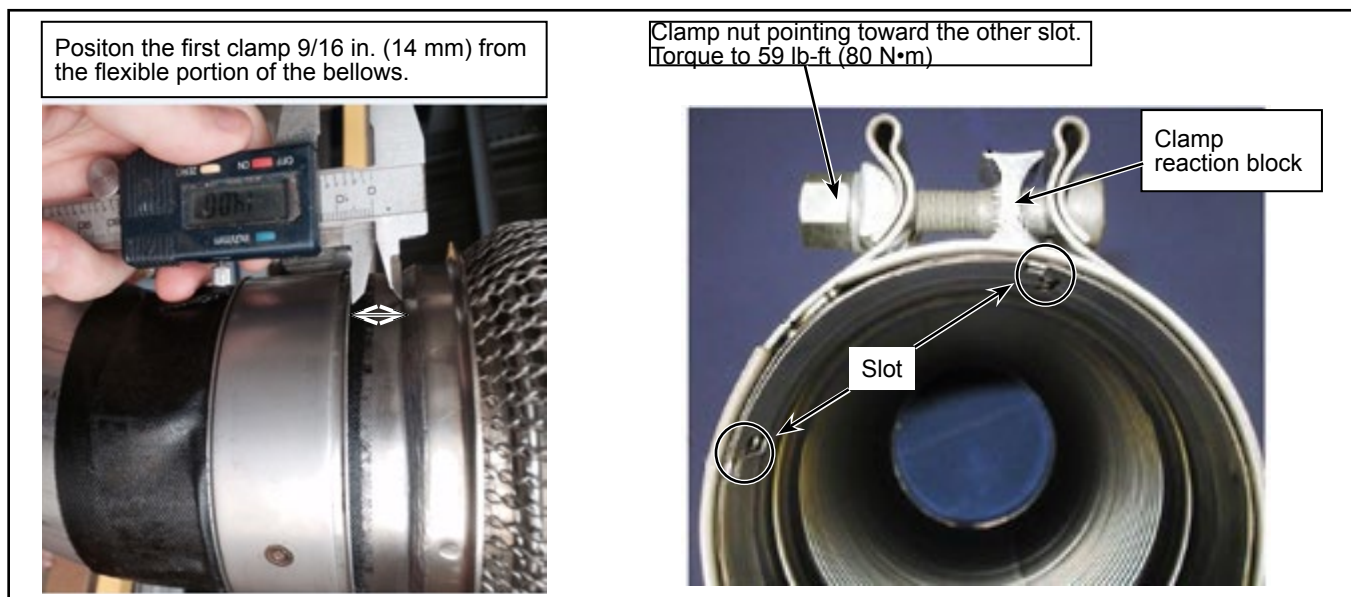


Figure 5 - Positioning of the First Retaining Clamp of the Flexible Bellows

- 1.16. Position the second clamp 1/32 in. (1 mm) from the other clamp. The orientation of the two clamps should be identical. See Figure 6 for torque value.

**NOTE**

First clamp should sit square. The second (bottom) clamp may angle slightly at tightening due to the shape of the exhaust pipe. See Figure 6.

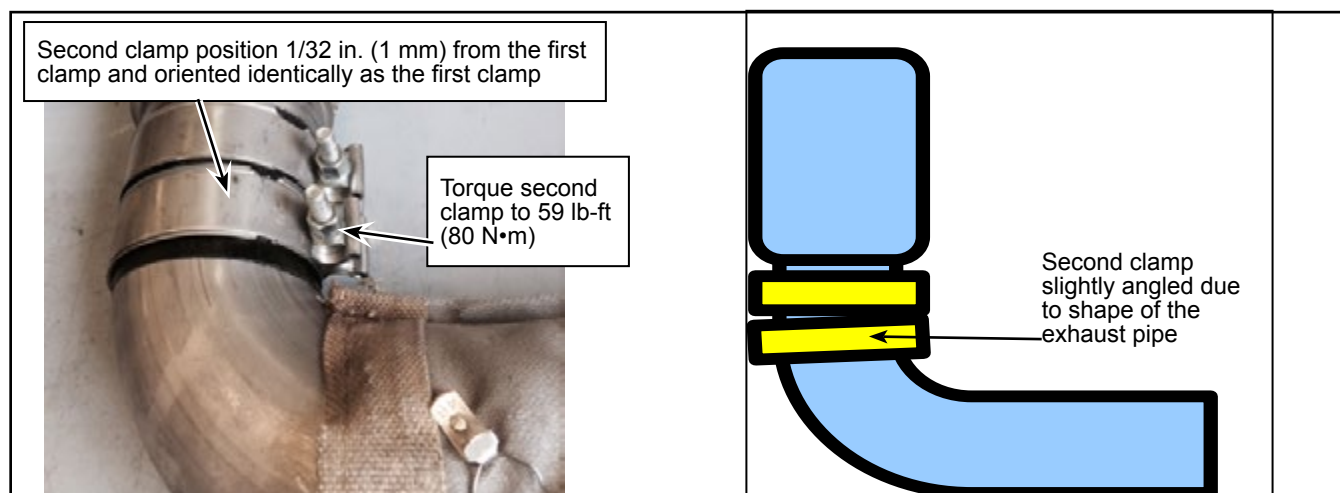


Figure 6 - Typical Position and Orientation of Second Clamp

- 1.17. Install the exhaust pipe assembly using the retained hardware and a new N55895 gasket. See Figure 7 for torque value.

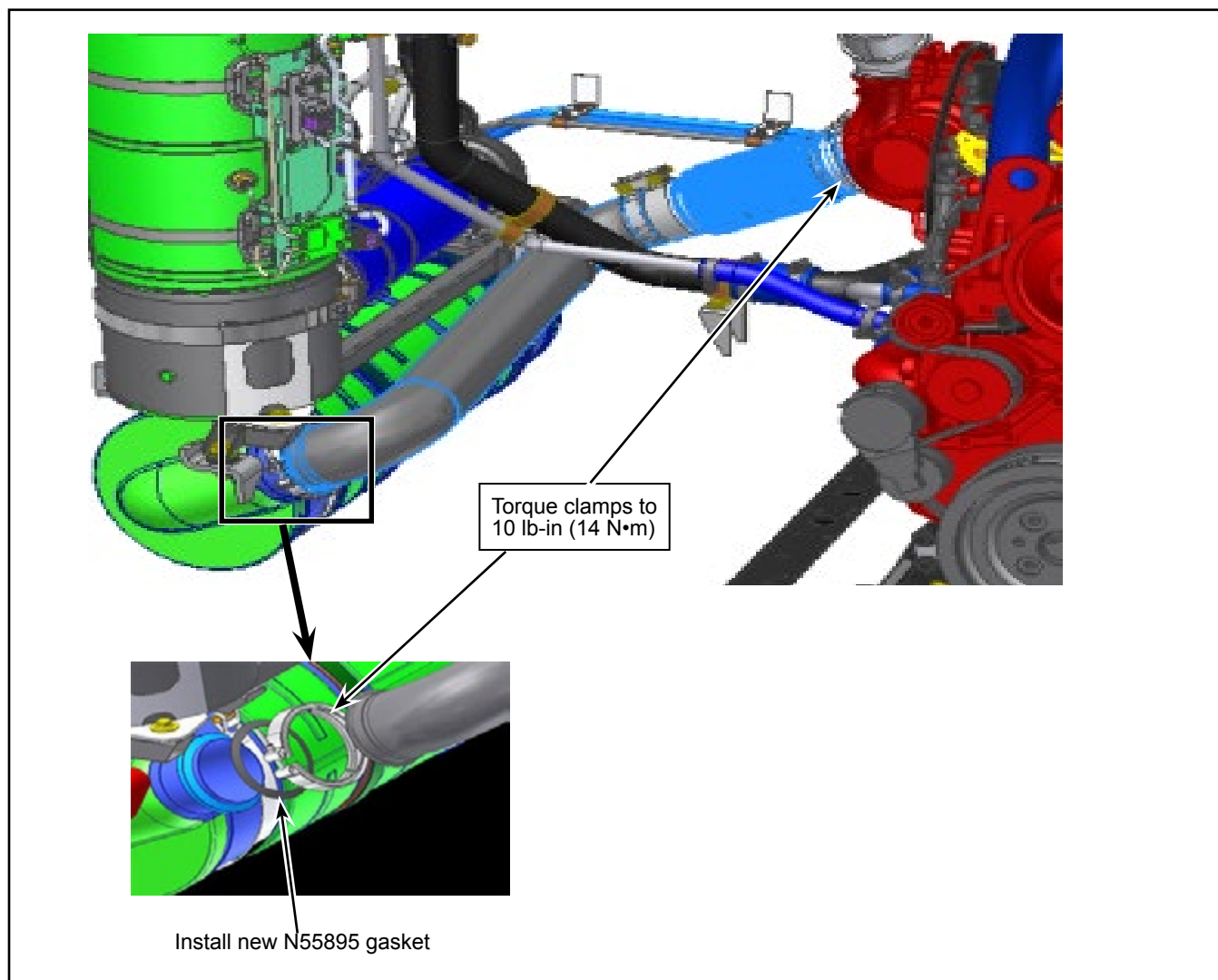


Figure 7 - Installation of Exhaust Pipe and Flexible Bellows Assembly

- 1.18. Close the engine door.
- 1.19. Start the engine and run at fast idle speed for 30 minutes, then road test the vehicle for 50 miles (80 km) to fully cure the tape.
- 1.20. Open the rear engine door
- 1.21. Install the reserved fabric heat shield on the flexible bellow. ❖