



RECALL CAMPAIGN

CR5342E

REFERENCE:	Nova Bus Manuals
SECTION:	07: Steering Mechanism
RS N°:	MQR 7621-2384
EFFECTIVE IN PROD.:	LD08
TC RECALL N°:	2022-649
NHTSA RECALL N°:	22V845

APPLICATION DEADLINES: N/A
REFERENCE NUMBER: SR5342

SUBJECT:	Bosch steering gear box mounting plate fasteners permanent remedy*.
JUSTIFICATION:	The steering gear box installation may not have sufficient clamp load which may lead to the steering gear box mounting plate sub-assembly fasteners to become low torque, loose or missing.

* The interim remedy was published under CR5344E.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Permanent remedy: Replace the spherical washers by spacers. Torque according to the instructions.	Nova Bus	Nova Bus	45min
2	—	—	—	—

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
3	N620000207	A	SPACER 1ID X 3/8 THK
3	N65400	A	Nord-Lock washer
3	N91461	—	BOLT 7/8"X4" CAP HEX STL G8
LEVEL 2 (only if required)			
—	—	—	—

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	2022NO25	Initial release	André Pelletier

APPROVED BY:

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IMPORTANT: CERTAIN ORDERS MAY NOT INCLUDE ALL UNITS						
CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Brantford Ontario	LE09	102105	102109	L82J8M37532	L82JXM3753	5
Chicago Transit Authority - CTA	LD76	8350	8448	L82J0N97782	L82J6N97784	99
Chicago Transit Authority - CTA - Illinois	LD75	—	—	L82J0M97779	L82J0M9777	1
CMBC (TransLink) - British Columbia	LE13	H22101	H22101	L82M6M3753	L82M6M3753	1
Grey Lines - Nashville Tennessee	LC53	—	—	L82J4K97772	L82J4K97772	1
Milwaukee Wisconsin - electric Bus - LFS-e+	LE16	1000	1000	L82M4N9778	L82M4N9778	1
Moncton (Codiac) - New Brunswick	LD73	—	—	L82J1M37529	L82J1M3752	4
New York City Transit - NYCT	LA73	8504	8507	L82J8J97764	L82J8J97764	4
New York City Transit - NYCT	LA76	8508	8633	L82J9J97769	L82J8K97771	125
New York City Transit - NYCT	LB29	5531	5566	S92J9J97766	S92J6J97768	36
New York City Transit - NYCT	LB78	8526	8526	L82J3K97769	L82J3K97769	1
New York City Transit - NYCT	LB99	5567	5602	S92J2J97769	S92J5K9777	36
New York City Transit - NYCT	LC32	8634	8754	L82JXK97771	L82J5K97772	121
New York City Transit - NYCT	LC79	*	*	*	*	161
New York City Transit - NYCT	LD08	*	*	*	*	115
New York City Transit - NYCT	LD64	*	*	*	*	96
New York City Transit - NYCT	LD06	8756	8758	L82J5L97777	L82J3L97777	3
New York City Transit - NYCT	LD23	9620	9621	L82LXL97776	L82L5L97776	3
NFTA - Buffalo, New York	LE03	2261	2270	L82J3N97784	L82J8N97784	10
Regina - Saskatchewan	LD78	—	—	S92J8M3752	S92JXM3752	2
Regina Saskatchewan	LE40	2201	2202	L82J3N37533	L82J5N37533	2
San Juan Puerto Rico	LD32	2021-01	2021-10	L82J5L97777	L82J6L97777	10
San Juan Puerto Rico	LE06	2021-11	2021-17	L82JXM97781	L82J5M9778	7
San Juan Puerto Rico	LE83	2022-01	2022-11	L82J0N97786	L82J3N97786	11
Trimet Portland Oregon	LD14	4501	4501	S92J3M97779	S92J3M9777	1
Trimet Portland Oregon	LD15	4502	4531	S92J6M97781	S92J7N9778	30
University of Vermont	LC87	—	—	L82L5L97775	L82L5L97775	1

* New York City Transit split orders are listed in the annex A at the end of this document

**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.

**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.

- 1.4. Raise the vehicle. The gear box is located under the front left of the vehicle.

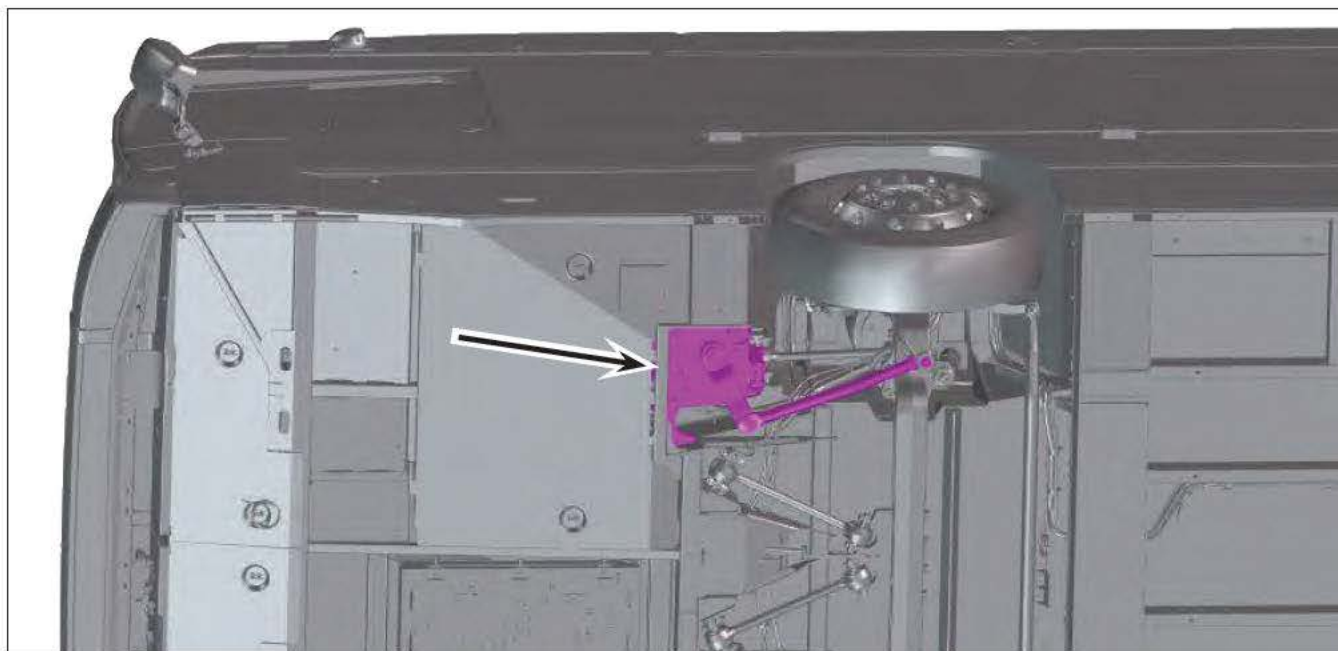


Figure 1 - Steering Gear Box Location, Bottom View

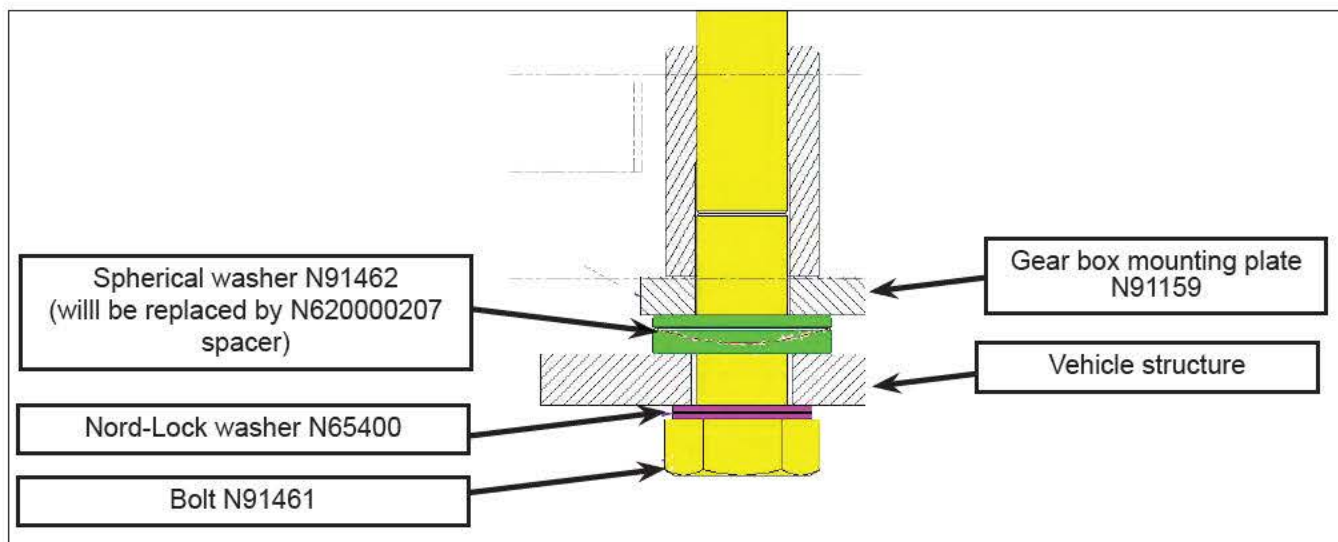


Figure 2 - Sectional View of the Assembly

- 1.5. Locate and remove one of the three bolts N91461 securing the steering box to the structure. Discard the bolt and Nord-Lock washer. Loosen the other two bolts but don't remove them yet to keep the correct alignment with the holes.

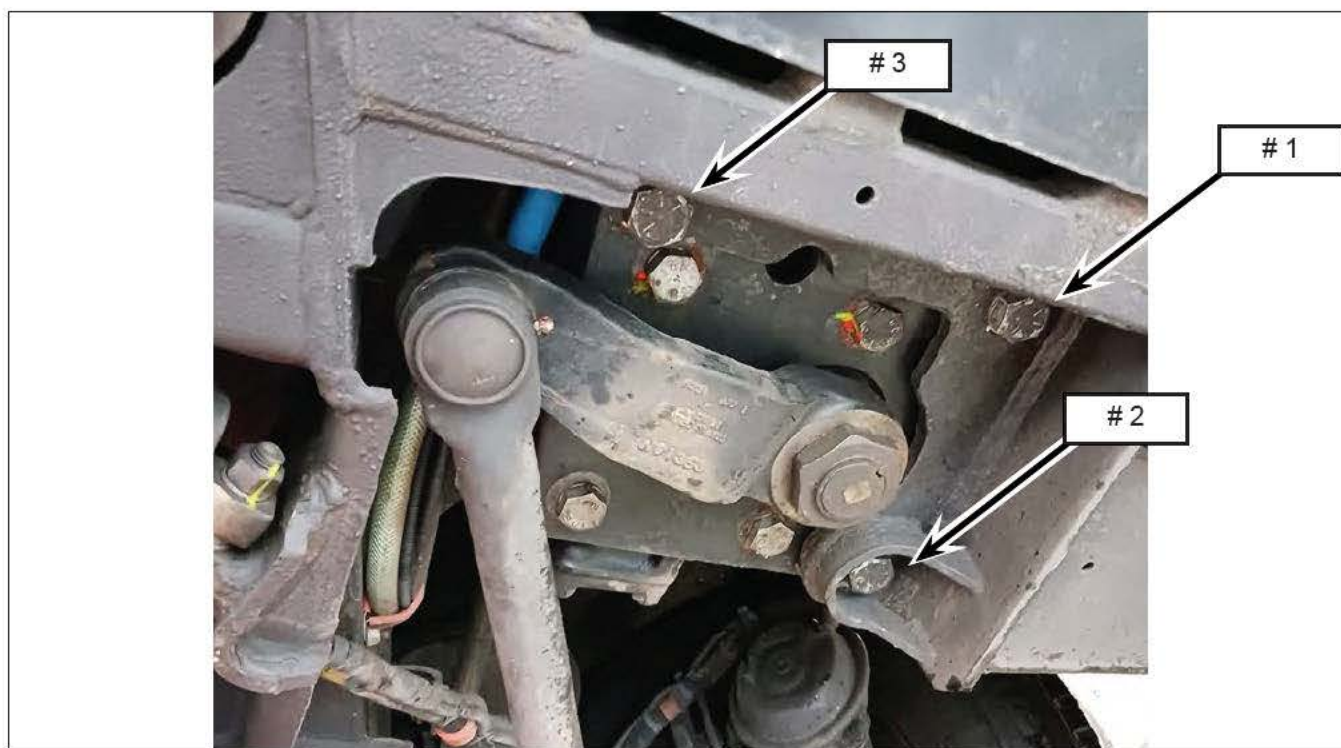


Figure 3 - Location and Torque Sequence of the Three Bolts N91461

- 1.6. Remove the under coating on the structure and make sure the surface for the Nord-Lock washer is clean.



Figure 4 - Clean the Surface for the Nord-Lock Washer

- 1.7. Use a pry bar to lift slightly the gear box mounting plate to release the spherical washer. Use a magnetic tool or a small screwdriver to remove the spherical washer. Discard the spherical washer. See next figures.



Figure 5 - Use a Pry Bar to Lift Slightly the Gear Box Mounting Plate

- 1.8. Clean the surfaces and the threads with brake cleaner (or an equivalent product locally approved). Use pressurized air with care for drying and final cleaning.
- 1.9. Insert the new spacer N620000207. Use a magnetic tool or a small screwdriver to insert the spacer.

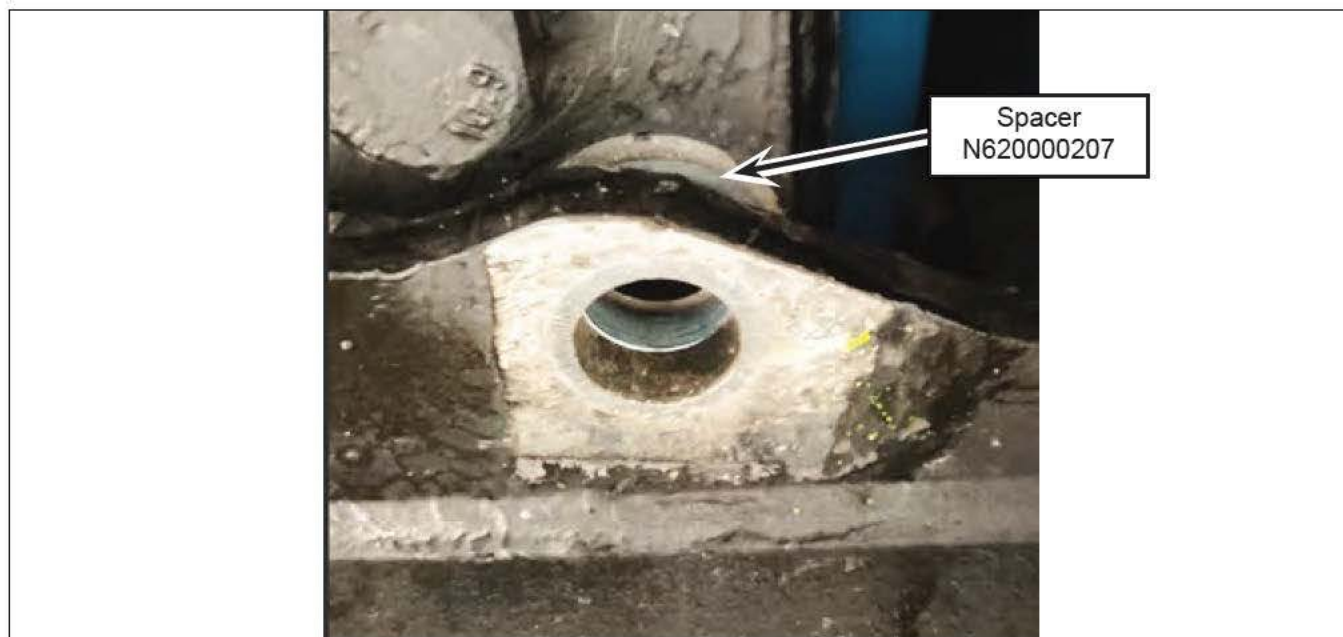


Figure 6 - Insert Washer N620000207

- 1.10. Engage a new bolt N91461 and Nord-Lock washer hand tight.



Figure 7 - Install Bolts (Do Not Torque)

- 1.11. Repeat the steps from 1.5 to 1.10 for the two other bolts.
1.12. Using a regular ratchet wrench, turn each bolt until it sits on the structure. Do not apply any torque to the bolts.

**NOTE**

ALL TORQUING TOOLS MUST BE CALIBRATED

TORQUE PROCEDURE

- 1.13. Follow the torquing sequence numbers shown in figure 3.
- 1.14. Torque each bolt to 11 lb-ft (15 N·m). If the bolt head does not seat on the structure at this value, use a pry bar to attempt to better align the gearbox and plate and re-attempt until successful.
- 1.15. Following the same sequence, torque each bolt to 73.6 lb-ft (100 N·m).
- 1.16. Following the same sequence, mark the socket with a 90-degree angle using a paint marker: trace two vertical lines at 90 degrees to each other (12 o'clock and 3 o'clock). See the figure below.
- 1.17. Using the socket, report the 90-degree mark on the structure. Refer to the figure below. For bolt # 2, we suggest marking the exterior of the reinforcement plate surrounding the bolt.
- 1.18. Also mark the bolt head-initial position according to the structure starting mark. See the figure below.



Figure 8 - 90 Degree Marks on the Socket, Bolt Head and the Structure

- 1.19. Following the same torquing sequence, using a breaker bar, align the socket with the marks previously made on the structure. Turn the bolt clockwise until the first mark is now aligned with the second mark confirming you applied a 90-degree angle torque.
- 1.20. In addition, following the same torquing sequence, torque each bolt to 500 ft-lb (678 N·m). The bolt may move or not at this final torque. Both situations are acceptable.
- 1.21. Apply under coating touch up with Tectyl 3344 or equivalent on the exposed metal.
- 1.22. Apply a torque seal to the head of the bolts.
- 1.23. Validate proper functionality of power steering by turning wheels from one end to the other.
- 1.24. The vehicle can return in service.



ANNEX A (NYCT ONLY)

IMPORTANT: CERTAIN ORDERS MAY NOT INCLUDE ALL UNITS			
Order	Client	Road No.	VIN
LC79	New York City Transit - NYCT	9623	4RKYL82L1M9
LC79	New York City Transit - NYCT	9624	4RKYL82L3M9
LC79	New York City Transit - NYCT	9625	4RKYL82L5M9
LC79	New York City Transit - NYCT	9626	4RKYL82L7M9
LC79	New York City Transit - NYCT	9627	4RKYL82L9M9
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LD08	New York City Transit - NYCT	8835	4RKYL82J1M9
LD08	New York City Transit - NYCT	8836	4RKYL82J8M9
LD08	New York City Transit - NYCT	8837	4RKYL82JXM9
LD08	New York City Transit - NYCT	8838	4RKYL82J1M9
LD08	New York City Transit - NYCT	8839	4RKYL82J3M9
LD08	New York City Transit - NYCT	8840	4RKYL82J9M9
LD08	New York City Transit - NYCT	8841	4RKYL82J0M9
LD08	New York City Transit - NYCT	8842	4RKYL82J2M9
LD08	New York City Transit - NYCT	8843	4RKYL82J4M9
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LD08	New York City Transit - NYCT	8846	4RKYL82J4M9
LD08	New York City Transit - NYCT	8847	4RKYL82J8N9
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LD08	New York City Transit - NYCT	8851	4RKYL82J5N9
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LD08	New York City Transit - NYCT	8856	4RKYL82J2N9
LD08	New York City Transit - NYCT	8857	4RKYL82J4N9
LD08	New York City Transit - NYCT	8858	4RKYL82J6N9
LD08	New York City Transit - NYCT	8859	4RKYL82J8N9
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LD08	New York City Transit - NYCT	8862	4RKYL82J8N9
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LD08	New York City Transit - NYCT	8908	4RKYL82J0N9
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LD64	New York City Transit - NYCT	9895	4RKYL82L2M9
LD64	New York City Transit - NYCT	9896	4RKYL82L4M9
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