



RECALL CAMPAIGN

CR5359E

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

APPLICATION DEADLINES: N/A
REFERENCE NUMBER: SR5359

NYCT recall campaign has been transferred from CR5342E to this CR5359E

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	2022DE15	Initial release	André Pelletier

APPROVED BY:

PAGE 1 OF 18

IMPORTANT: CERTAIN ORDERS MAY NOT INCLUDE ALL UNITS							
CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)			QTY
		FROM	TO	FROM	TO		
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		S92J5K97770	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

* 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.

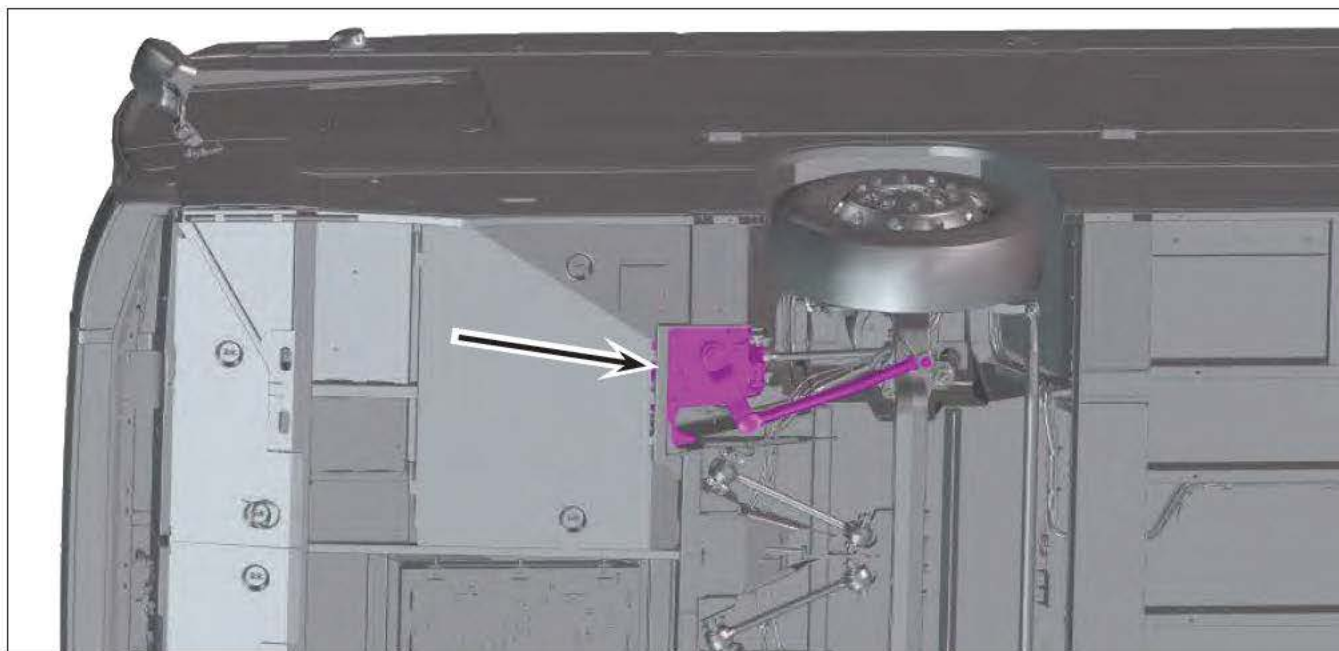


Figure 1 - Steering Gear Box Location, Bottom View

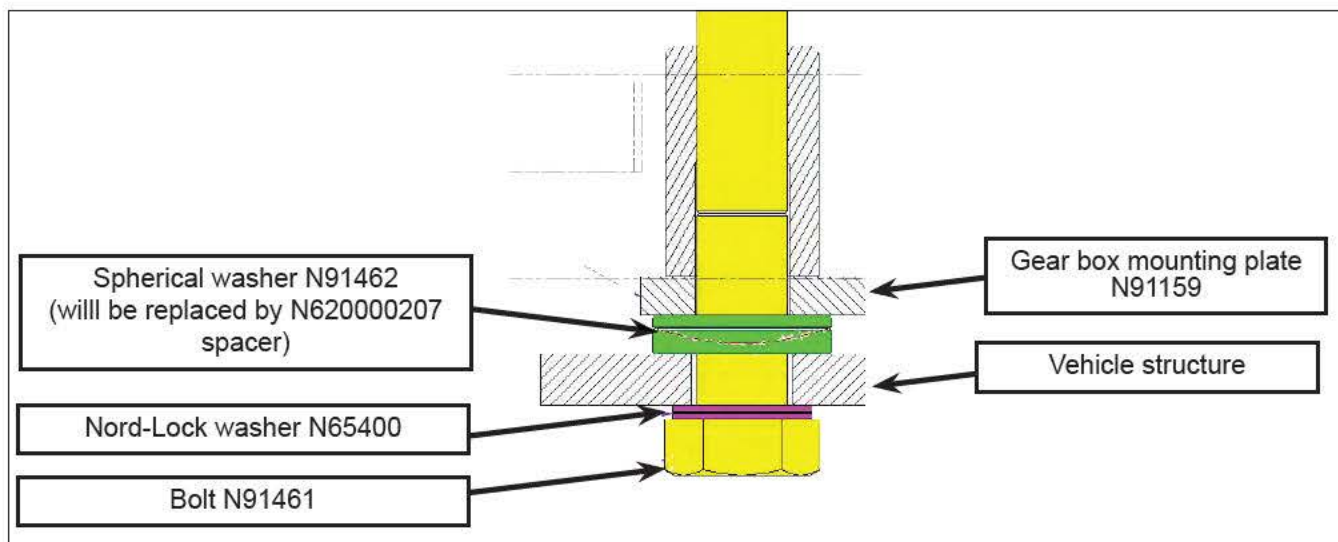


Figure 2 - Sectional View of the Assembly

- 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.

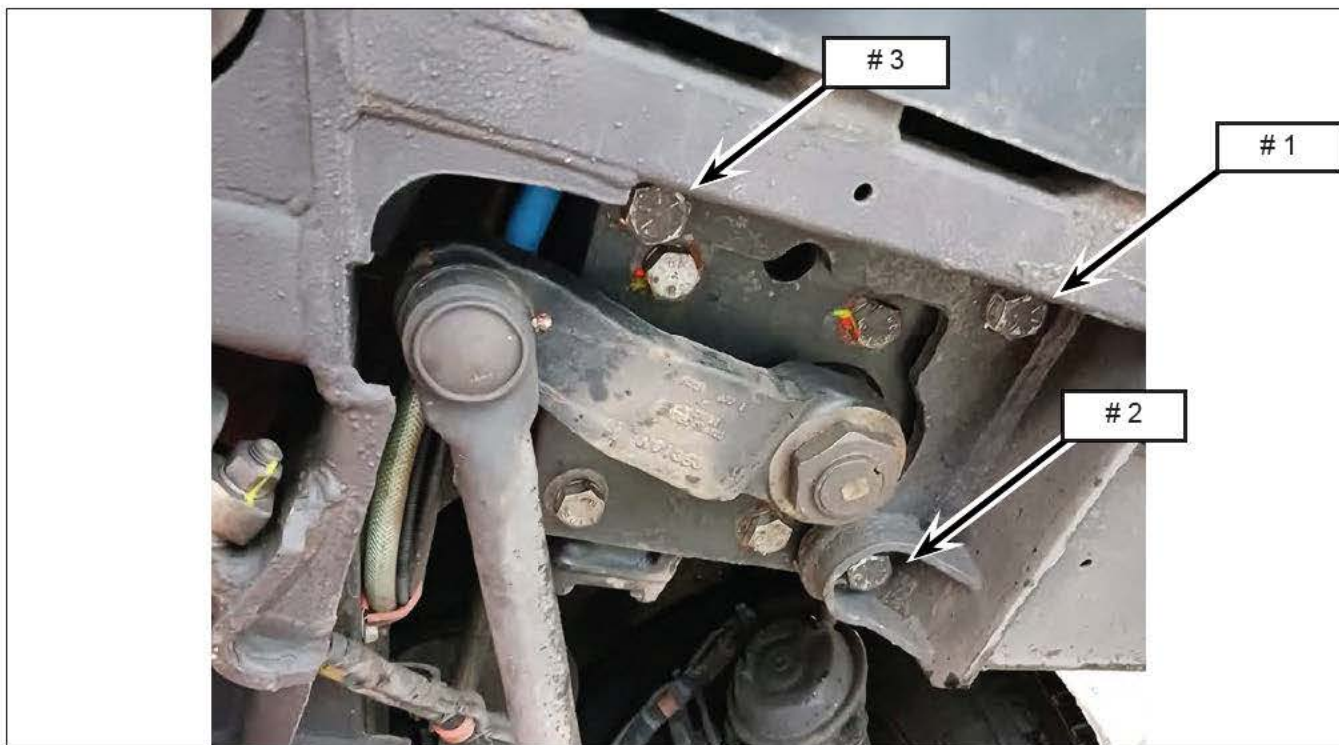


Figure 3 - Location and Torque Sequence of the Three Bolts N91461

- 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 jack stand 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.

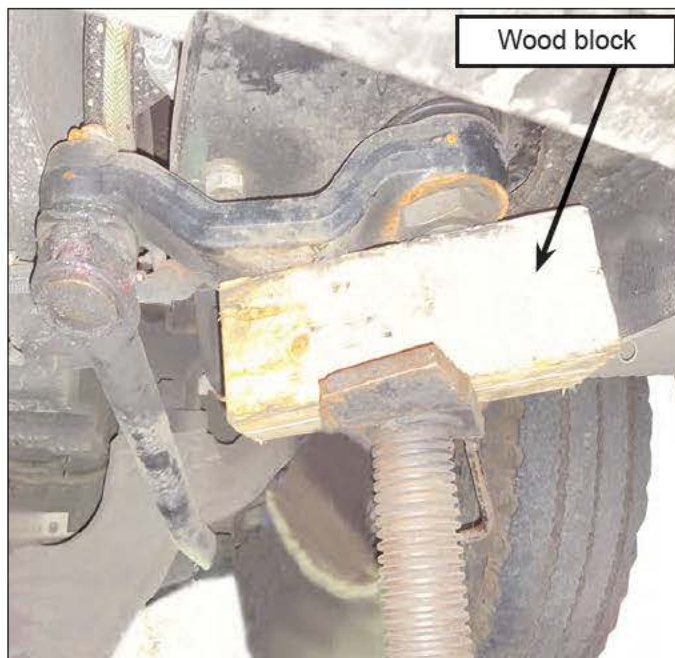


Figure 5 - Use a Jack Stand to Lift Slightly the Gear Box Mounting Plate

- 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.

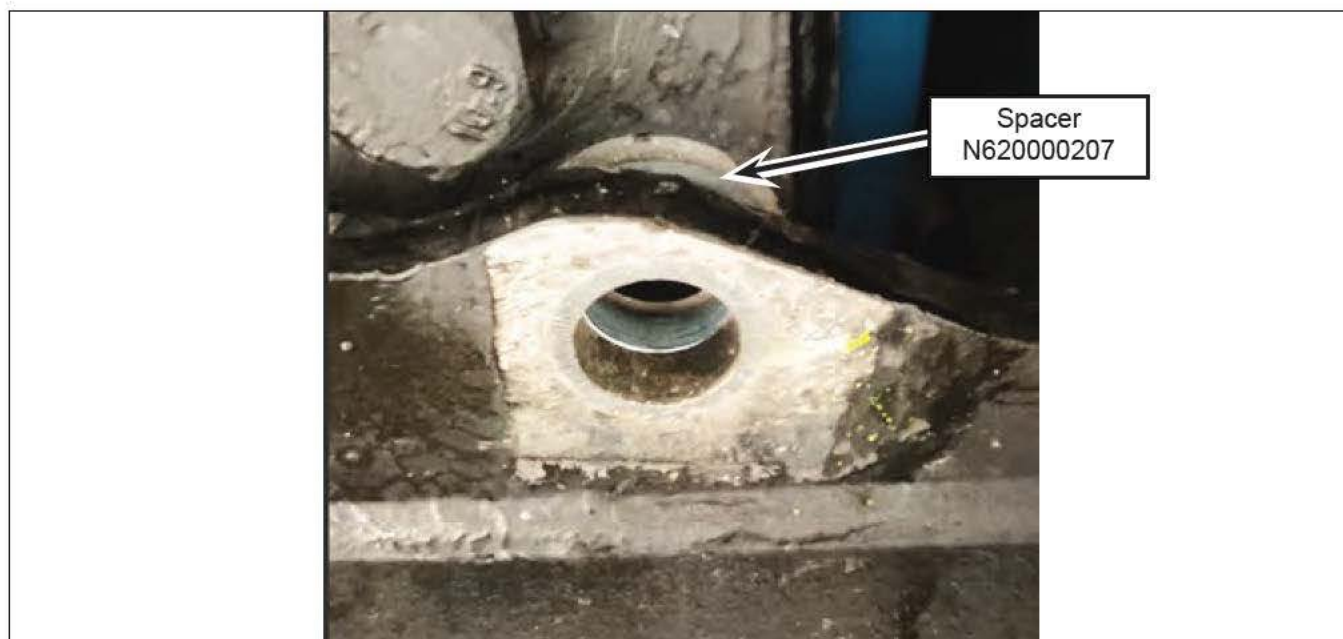


Figure 6 - Insert Washer N620000207

- 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
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LD08	New York City Transit - NYCT	8853	4RKYL82J3N9
LD08	New York City Transit - NYCT	8854	4RKYL82J5N9
LD08	New York City Transit - NYCT	8855	4RKYL82J7N9
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
LD08	New York City Transit - NYCT	8860	4RKYL82J4N9
LD08	New York City Transit - NYCT	8861	4RKYL82J6N9
LD08	New York City Transit - NYCT	8862	4RKYL82J8N9
LD08	New York City Transit - NYCT	8863	4RKYL82JXN9
LD08	New York City Transit - NYCT	8864	4RKYL82J1N9
LD08	New York City Transit - NYCT	8865	4RKYL82J3N9
LD08	New York City Transit - NYCT	8866	4RKYL82J5N9
LD08	New York City Transit - NYCT	8867	4RKYL82J7N9
LD08	New York City Transit - NYCT	8868	4RKYL82J9N9
LD08	New York City Transit - NYCT	8869	4RKYL82J0N9
LD08	New York City Transit - NYCT	8870	4RKYL82J2N9
LD08	New York City Transit - NYCT	8871	4RKYL82J9N9

LD08	New York City Transit - NYCT	8872	4RKYL82J0N9
LD08	New York City Transit - NYCT	8873	4RKYL82JXN9
LD08	New York City Transit - NYCT	8874	4RKYL82J1N9
LD08	New York City Transit - NYCT	8875	4RKYL82J3N9
LD08	New York City Transit - NYCT	8876	4RKYL82J5N9
LD08	New York City Transit - NYCT	8877	4RKYL82J1N9
LD08	New York City Transit - NYCT	8878	4RKYL82J3N9
LD08	New York City Transit - NYCT	8883	4RKYL82J7N9
LD08	New York City Transit - NYCT	8885	4RKYL82J0N9
LD08	New York City Transit - NYCT	8887	4RKYL82J9N9
LD08	New York City Transit - NYCT	8888	4RKYL82J0N9
LD08	New York City Transit - NYCT	8889	4RKYL82J2N9
LD08	New York City Transit - NYCT	8890	4RKYL82J4N9
LD08	New York City Transit - NYCT	8891	4RKYL82J2N9
LD08	New York City Transit - NYCT	8892	4RKYL82J4N9
LD08	New York City Transit - NYCT	8893	4RKYL82J6N9
LD08	New York City Transit - NYCT	8894	4RKYL82J2N9
LD08	New York City Transit - NYCT	8895	4RKYL82J4N9
LD08	New York City Transit - NYCT	8896	4RKYL82J6N9
LD08	New York City Transit - NYCT	8897	4RKYL82J2N9
LD08	New York City Transit - NYCT	8899	4RKYL82J6N9
LD08	New York City Transit - NYCT	8900	4RKYL82J0N9
LD08	New York City Transit - NYCT	8901	4RKYL82J2N9
LD08	New York City Transit - NYCT	8902	4RKYL82J4N9
LD08	New York City Transit - NYCT	8903	4RKYL82J1N9
LD08	New York City Transit - NYCT	8904	4RKYL82J3N9
LD08	New York City Transit - NYCT	8908	4RKYL82J0N9
LD08	New York City Transit - NYCT	8920	4RKYL82J5N9
LD08	New York City Transit - NYCT	8922	4RKYL82J9N9
LD64	New York City Transit - NYCT	9786	4RKYL82L6M9
LD64	New York City Transit - NYCT	9787	4RKYL82L8M9
LD64	New York City Transit - NYCT	9788	4RKYL82LXM9
LD64	New York City Transit - NYCT	9789	4RKYL82L1M9
LD64	New York City Transit - NYCT	9791	4RKYL82L0M9
LD64	New York City Transit - NYCT	9792	4RKYL82L2M9
LD64	New York City Transit - NYCT	9793	4RKYL82L4M9
LD64	New York City Transit - NYCT	9794	4RKYL82L6M9
LD64	New York City Transit - NYCT	9795	4RKYL82L2M9
LD64	New York City Transit - NYCT	9796	4RKYL82L4M9
LD64	New York City Transit - NYCT	9797	4RKYL82L6M9
LD64	New York City Transit - NYCT	9798	4RKYL82L8M9
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LD64	New York City Transit - NYCT	9801	4RKYL82L3M9
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LD64	New York City Transit - NYCT	9804	4RKYL82L9M9
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LD64	New York City Transit - NYCT	9806	4RKYL82L7M9
LD64	New York City Transit - NYCT	9807	4RKYL82LXM9
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LD64	New York City Transit - NYCT	9809	4RKYL82L8M9
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LD64	New York City Transit - NYCT	9812	4RKYL82L3M9
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LD64	New York City Transit - NYCT	9827	4RKYL82L5M9
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LD64	New York City Transit - NYCT	9836	4RKYL82L7M9
LD64	New York City Transit - NYCT	9837	4RKYL82L3M9
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LD64	New York City Transit - NYCT	9844	4RKYL82L1M9
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LD64	New York City Transit - NYCT	9847	4RKYL82L2M9
LD64	New York City Transit - NYCT	9848	4RKYL82L4M9
LD64	New York City Transit - NYCT	9849	4RKYL82L6M9
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LD64	New York City Transit - NYCT	9874	4RKYL82L9M9
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LD64	New York City Transit - NYCT	9878	4RKYL82L3M9
LD64	New York City Transit - NYCT	9880	4RKYL82L1M9
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LD64	New York City Transit - NYCT	9882	4RKYL82L5M9
LD64	New York City Transit - NYCT	9884	4RKYL82L9M9
LD64	New York City Transit - NYCT	9885	4RKYL82L0M9
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LD64	New York City Transit - NYCT	9890	4RKYL82L9M9
LD64	New York City Transit - NYCT	9892	4RKYL82L7M9
LD64	New York City Transit - NYCT	9894	4RKYL82L0M9
LD64	New York City Transit - NYCT	9895	4RKYL82L2M9
LD64	New York City Transit - NYCT	9896	4RKYL82L4M9
LD64	New York City Transit - NYCT	9897	4RKYL82L6M9
LD64	New York City Transit - NYCT	9910	4RKYL82L1M9