

REFERENCE:	Nova Bus Manuals
SECTION:	11: Fuel & exhaust
RS N°:	MQR 7621-1508
EFFECTIVE IN PROD.:	LC32 (2019MR)

APPLICATION DEADLINE:N/A

SUBJECT:	Fuel tank cradle
JUSTIFICATION:	Bad torque sequence and engine rail flatness out of tolerance at fuel tank mounts created preload in the chassis leading to premature failure.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Procedure to change hardware and execute good torque sequence.	Client	Client	40 min
2	-	-	-	-

**MATERIAL**

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
<b>LEVEL 1</b>				
4	N87918	-	NUT LOCK HFR M8 SS	-
4	N30731	A	WASHER FLAT M8 SS HD DIN7349	-
4	N44885-03	C	SCREW M8X30 FL SSA2 C70 D6921	-
<b>LEVEL 2</b>				
-	-	-	-	-

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**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	2020JA20	Initial release	Annie St-Jacques

APPROVED BY:

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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Chicago Transit Authority - CTA - Illinois	L773	—	—	L82JXD4500429	L82J6D4500430	2
Chicago Transit Authority - CTA - Illinois	L811	7902	7949	L82J6E4500509	L82J4E4500556	48
Chicago Transit Authority - CTA - Illinois	L837	7950	7999	L82J6E4500655	L82J1E4500708	50
Chicago Transit Authority - CTA - Illinois	L847	8000	8049	L82J1E4500773	L82JXE4500822	50
Chicago Transit Authority - CTA - Illinois	L848	8050	8099	L82JXF4500823	L82J1F4500872	50
Chicago Transit Authority - CTA - Illinois	L849	8100	8149	L82J5F4500874	L82J3F4500923	50
Chicago Transit Authority - CTA - Illinois	L850	8150	8199	L82J5F4500924	L82J6G9775013	50
Chicago Transit Authority - CTA - Illinois	L943	8200	8324	L82JXG9775225	L82J3G9775406	125
Chicago Transit Authority - CTA - Illinois	LB58	8325	8349	L82J7J9776906	L82J8J9776946	25

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

## PROCEDURE

**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.

**NOTE**

It is recommended to execute this procedure with a low level fuel tank.

- 1.1. Raise the vehicle
- 1.2. Locate the fuel tank

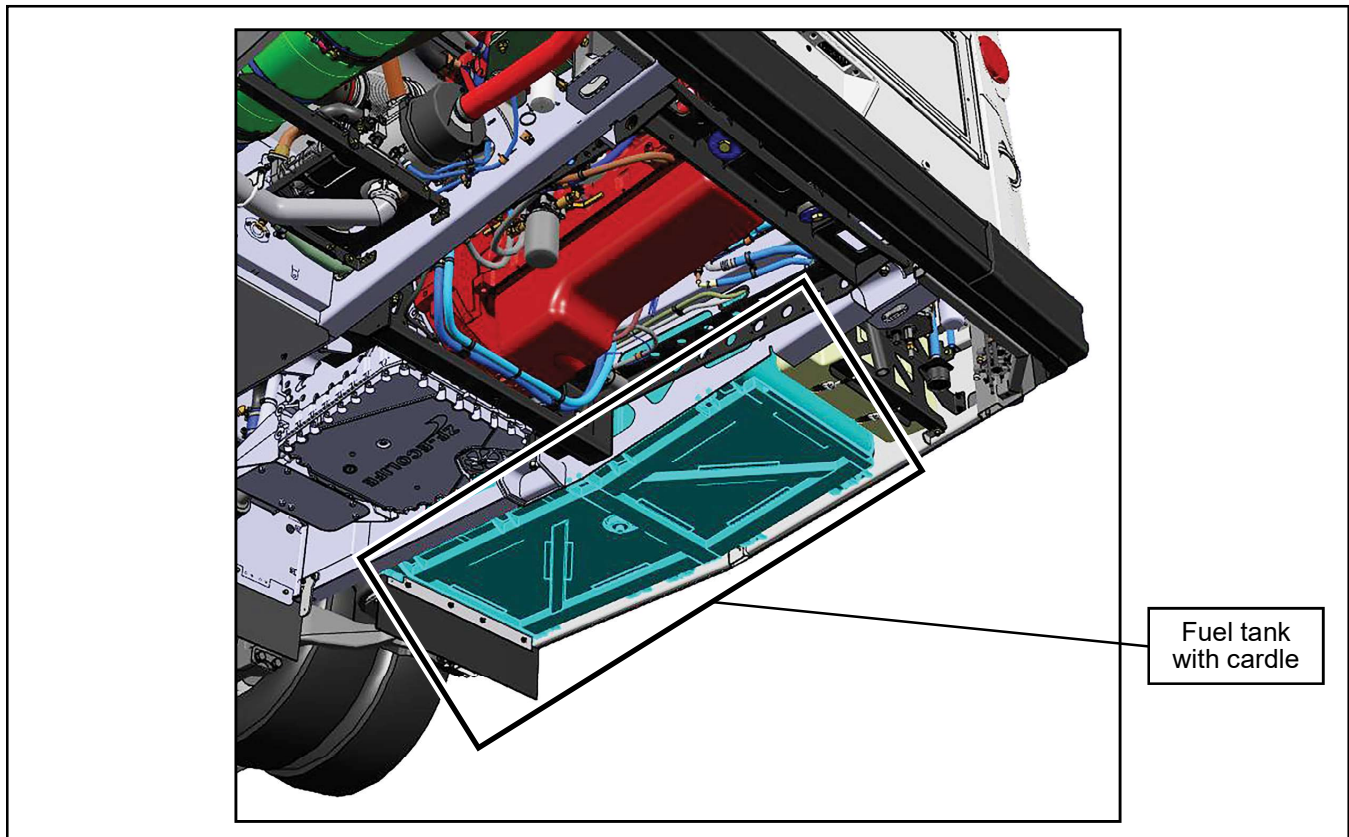


Figure 1 - Fuel Tank Location

- 1.3. Install a support device to support the fuel tank cradle before executing the next operations.
- 1.4. Locate the 6 mounting points of the fuel tank cradle (see Figure 2).

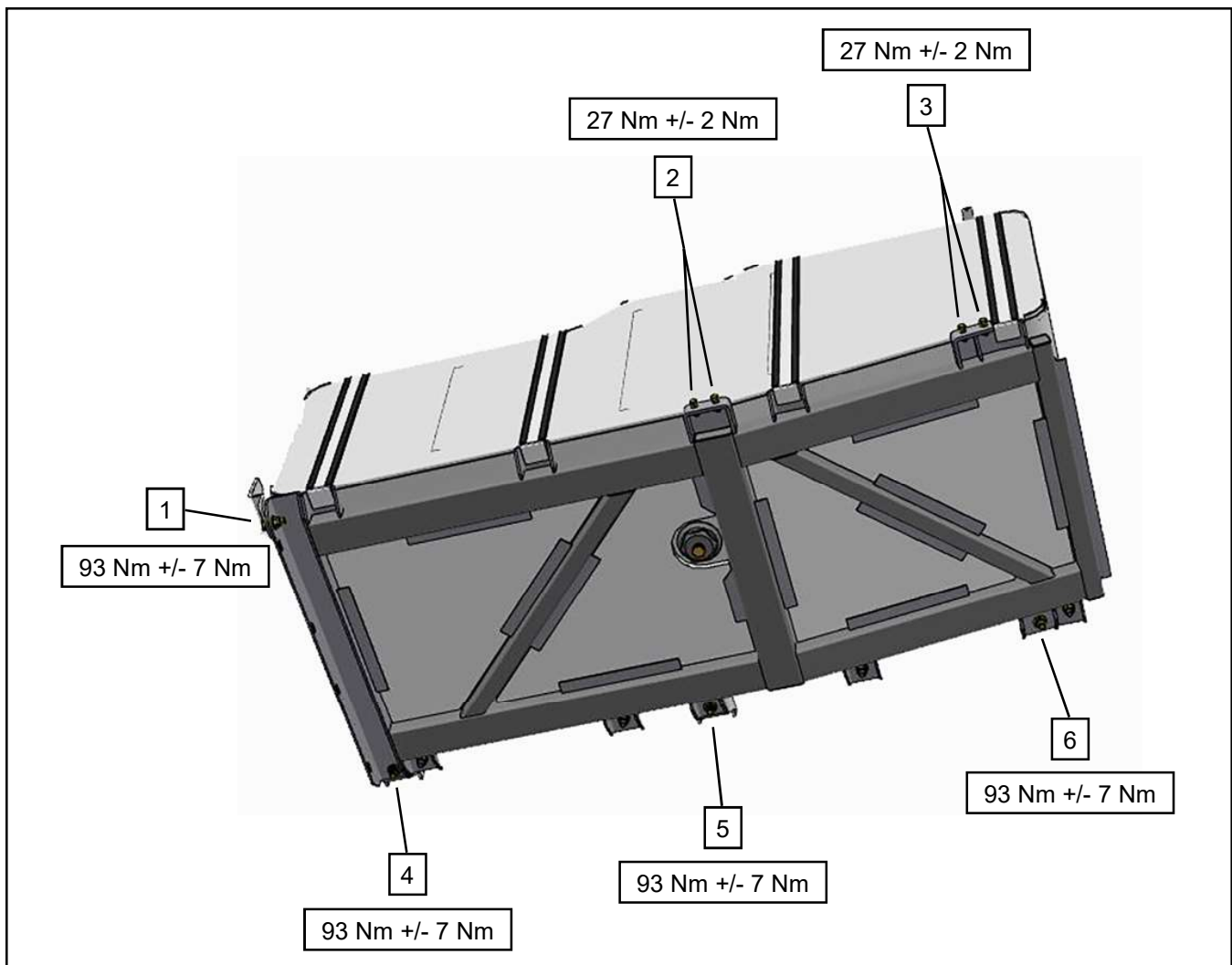


Figure 2 - Mounting Points Locations and Torque Values

- 1.5. Loosen the screws at mounting points 1 - 4 - 5 and 6.
- 1.6. Remove and discard the 4 screws, washers and lock nuts at mounting points 2 and 3.
- 1.7. Verify the fuel tank cradle position by making sure that the cradle is firmly pressed against the structure at mounting points 1, 2 and 3 and that the cradle holes and the structure holes are aligned to avoid any damage to the bolts threads during the assembly.
- 1.8. Torque the screw at mounting point 1 to the torque value show in Figure 2.
- 1.9. Install the new 4 screws (N44885-03), washers (N30731) and lock nut (N87918) at mounting points 2 and 3 and apply the torque value show in Figure 2.
- 1.10. Finally, torque the screw at mounting point 4, 5 and 6 to the torque value show in Figure 2.
- 1.11. The vehicle can return in service. ❖