

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine and Cooling
RS N°:	MQR 7621-2114
EFFECTIVE IN PROD.:	N/A

APPLICATION DEADLINE: 2023SE29
CLAIM REFERENCE NUMBER: WB-5203

SUBJECT:	Belt Guard Corrosion and Interference.
JUSTIFICATION:	The corrosion issues are due to the belt guards design and base material itself.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Installation of new belt guard.	Novabus	Novabus	1 hr
2	—	—	—	—

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	2021DE10	Initial release	Devanand

APPROVED BY:

Jean-Nicolas Fournier

Digitally signed by Jean-Nicolas Fournier
DN: cn=Jean-Nicolas Fournier, o=Nova Bus, email=jean-nicolas.fournier@volvo.com, c=CA
Date: 2021.12.10 08:16:41 -05'00'

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MATERIAL

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
1	N103557-02	—	Belt Guard Panel Assembly
2	N87398	—	Hinge Belt Guard Female Brkt
4	N22134	—	Magna-Lok Fastener
1	N102405-02	—	Support Assy Belt Guard
2	N47998	A	Strap Rubber Asm, Belt Guard
4	N49570	A	Rivet M4x10 Blind Mush Stl ZP
2	N48192	—	Rubber Bumper 1/2"
2	N0073122	—	Screw Hex FI M8x30 ZF
2	N0113049	—	Washer Blv M8x2 ZF
1	N57807	C	Mount Fir Tree Cable Tie
1	N28185	A	Nameplate (English)Starting Aid
1	N28186	A	Nameplate (English)Starting Aid
1	N47569-04	—	Decal Transmission Oil Fill
1	N84090-03	—	P-Clamp Id 0.500"Thk 0.030"M8
1	N44888	B	Nut Locknyl M8 Yz Triv 96h 8.8
LEVEL 2			
—	—	—	—
SHOP SUPPLY			
—	—	—	—

Materials will be available within 199 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.

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Capital Area Transportation Authority Michigan - CATA	LC07	6012	6015	S92J5K9777269	S92J5K9777272	4
Capital Area Transportation Authority Michigan - CATA	LC08	700	718	L82J7K9777278	L82J8K9777306	19
Capital Area Transportation Authority Michigan - CATA	LD34	719	730	L82J8L9777730	L82J2L9777741	12
Capital Area Transportation Authority Michigan - CATA	LD35	6016	6018	S92J3L9777742	S92J7L9777744	3

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Park the vehicle on an even surface with transmission on neutral (N).
- 1.2. Apply the parking brake.
- 1.3. Set the master control switch to the STOP position (see figure 1).

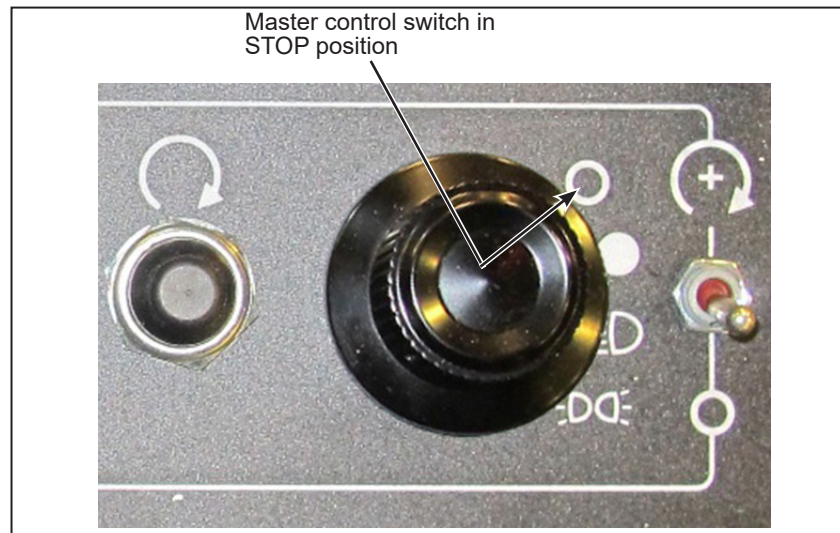


Figure 1 - Master Control Switch in STOP Position

- 1.4. Set the battery disconnect switch in the battery compartment to the OFF position (see figure 2).

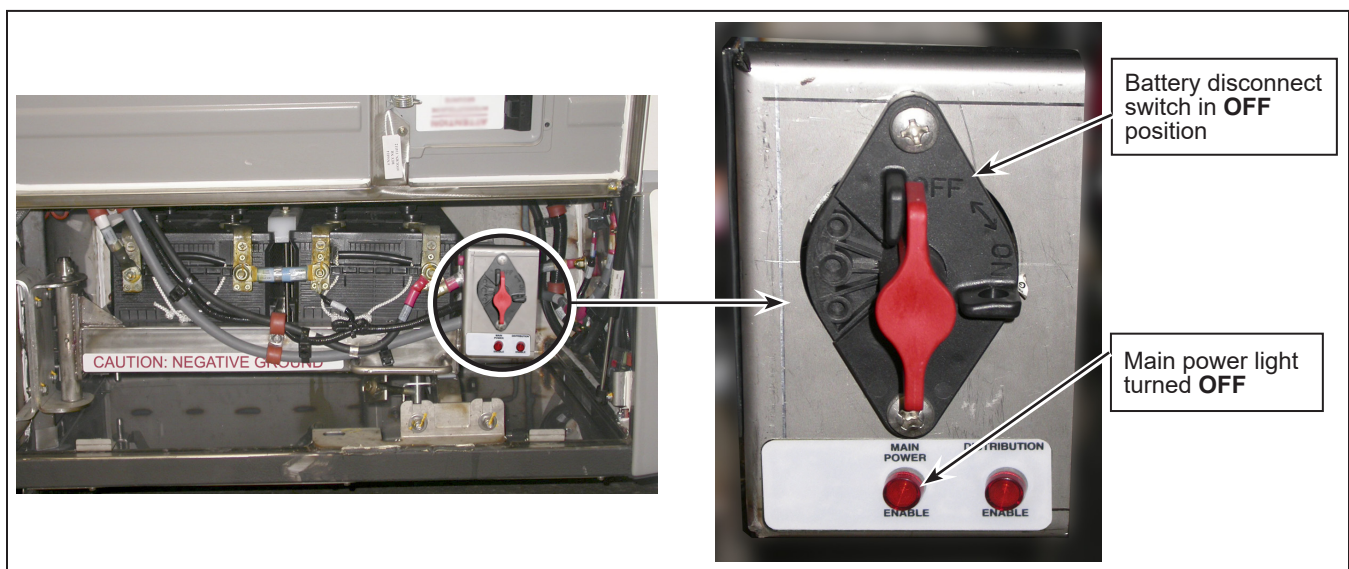


Figure 2 - View of Battery Disconnect Switch

- 1.5. Open rear engine door and locate belt guard mounting hardware (see figure 3).

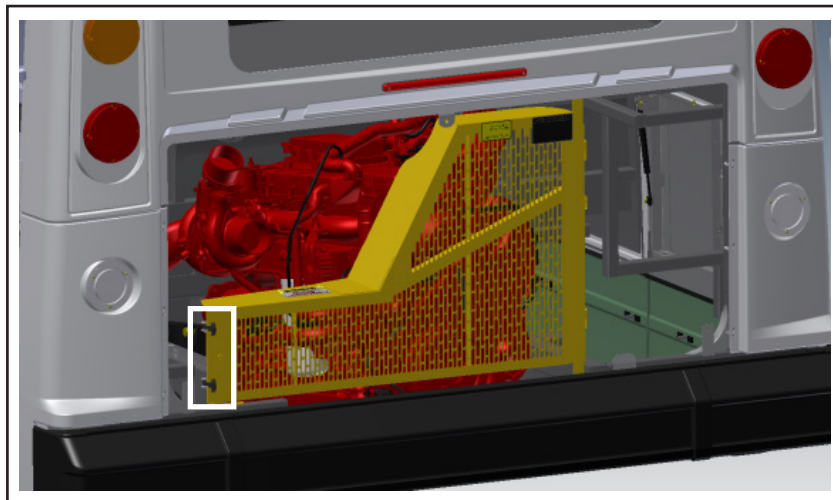


Figure 3 - View of Belt Guard Mounting Hardware



NOTE

Retain hinges pins & belt guard hinge post assembly.

- 1.6. Unlatch rubber strap from the belt guard assembly (see figure 4).

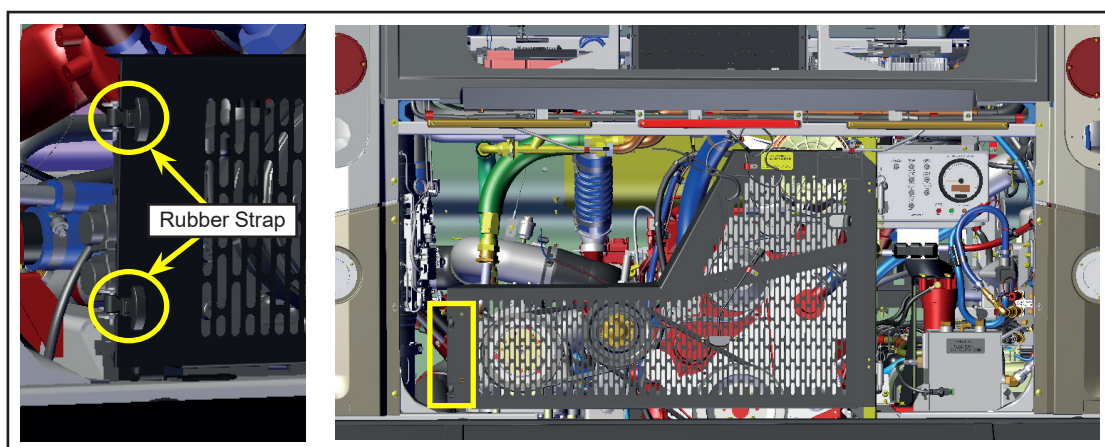


Figure 4 - Unlatching the Rubber Strap

- 1.7. Lift the belt guard upwards to remove it from the hinge post (see figure 5).

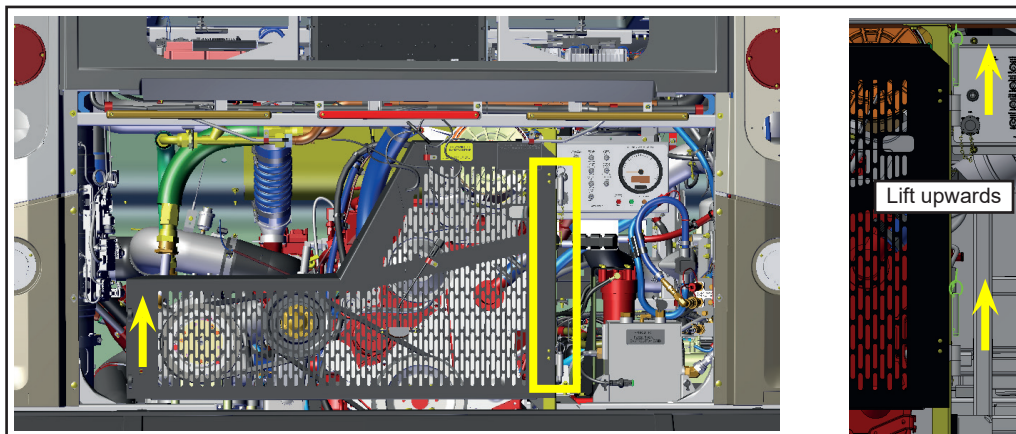


Figure 5 - Removal of Hinge Post



NOTE

Retain hinges pins & belt guard hinge post assembly (see figure 6).

- 1.8. Remove the street side post and discard (see figure 6).

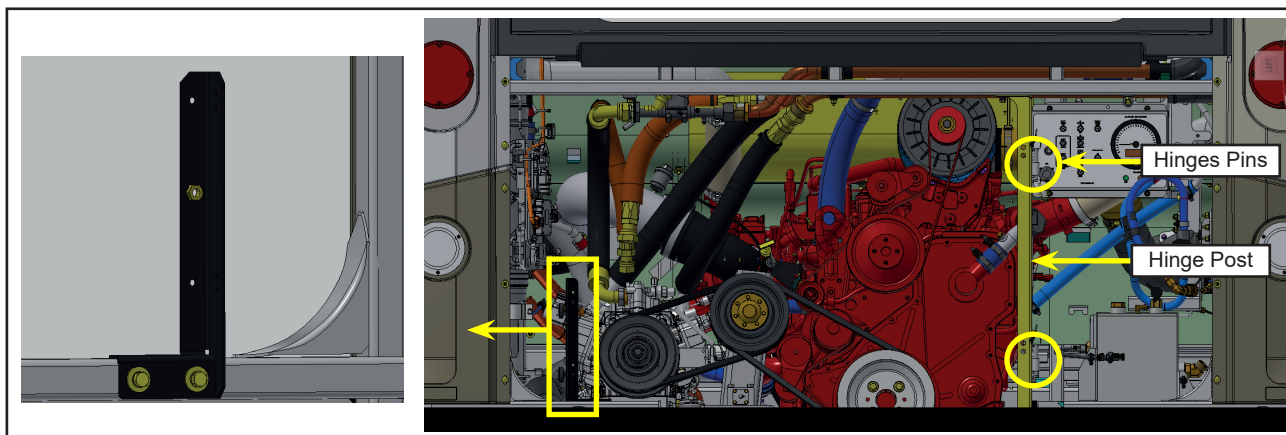


Figure 6 - Removal of Street Side Post

- 1.9. Fasten the hinge belt guard female bracket with rivets (see figure 7).

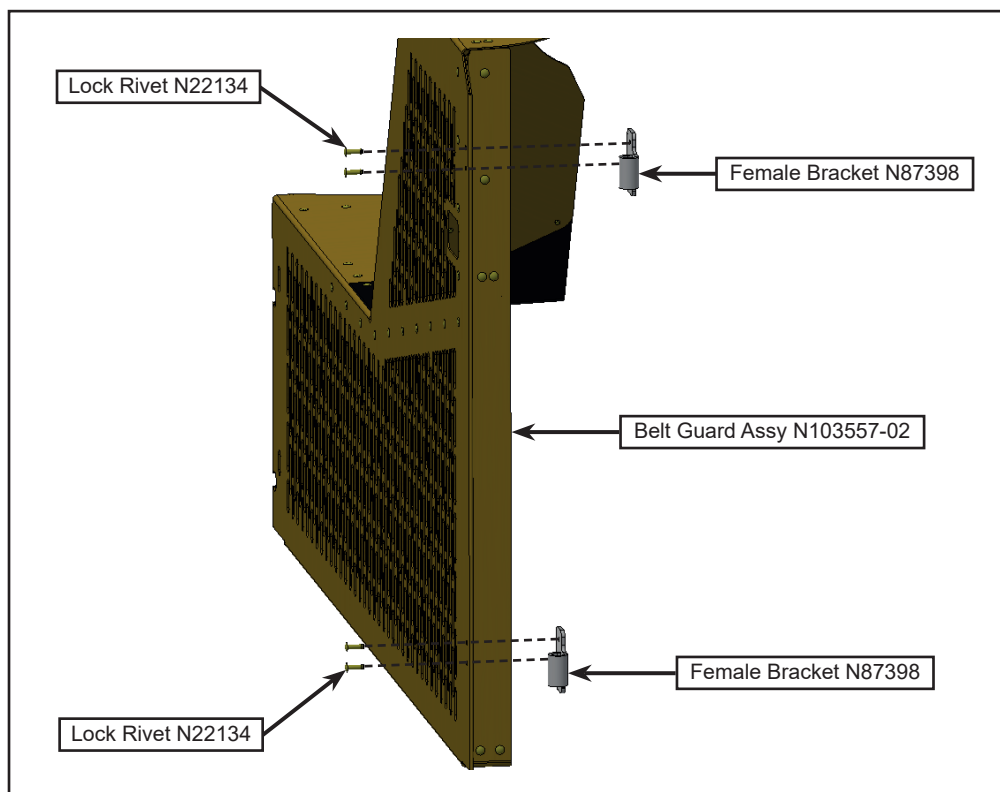


Figure 7 - Installation of Female Bracket with Lock Rivets

- 1.10. Install rubber bumper on the support assembly belt guard (see figure 8).

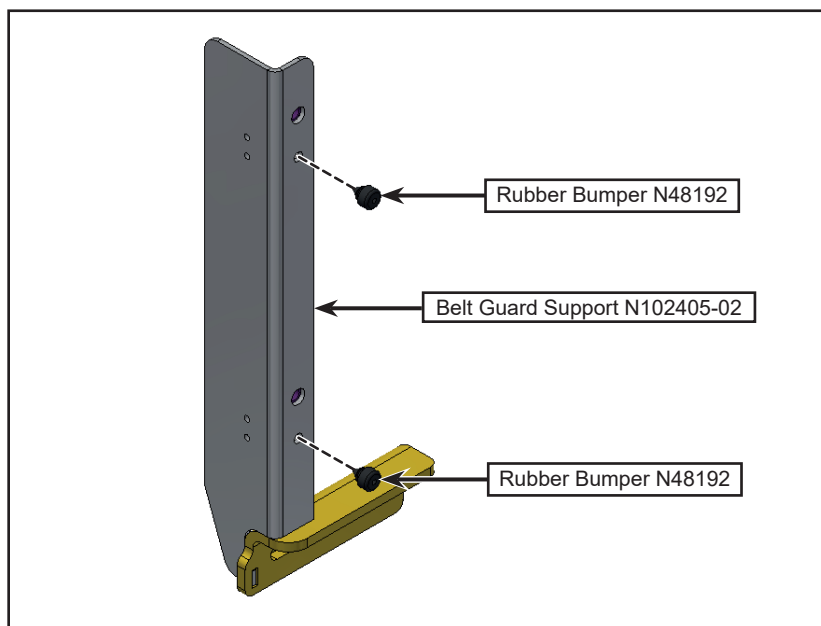


Figure 8 - Installation of Rubber Bumper

- 1.11. Fasten strap rubber with rivets on the support assembly belt guard (see figure 9).

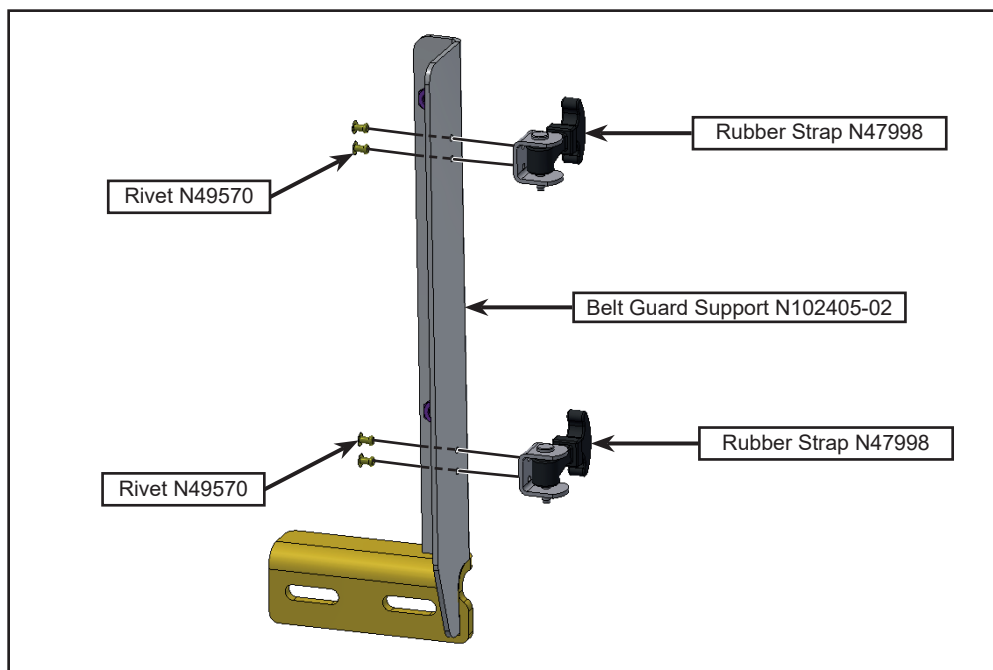


Figure 9 - Installation of Rubber Straps with Rivets



NOTE

Rotation of clamp will allow the harness to be routed and secured towards the street side of the bus.

- 1.12. Rotate the clamp to position the harness towards the front of the bus (see figure 10).

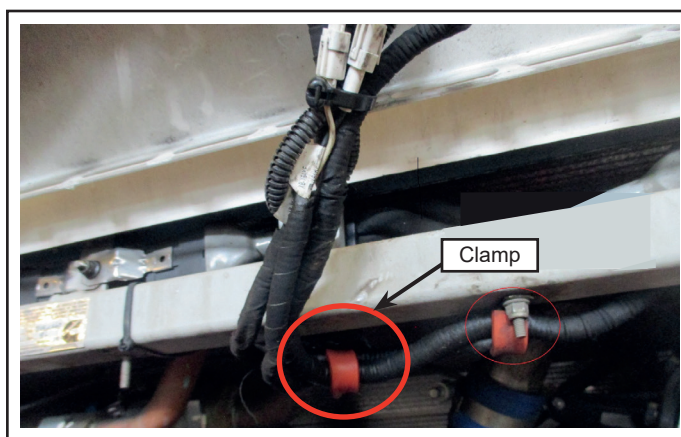


Figure 10 - Repositioning the Clamp

- 1.13. Add a p-clamp P/N N84090-03 to secure with a flange nut P/N N44888 to the open stud approximately 4 inches toward the street side (see figure 11).

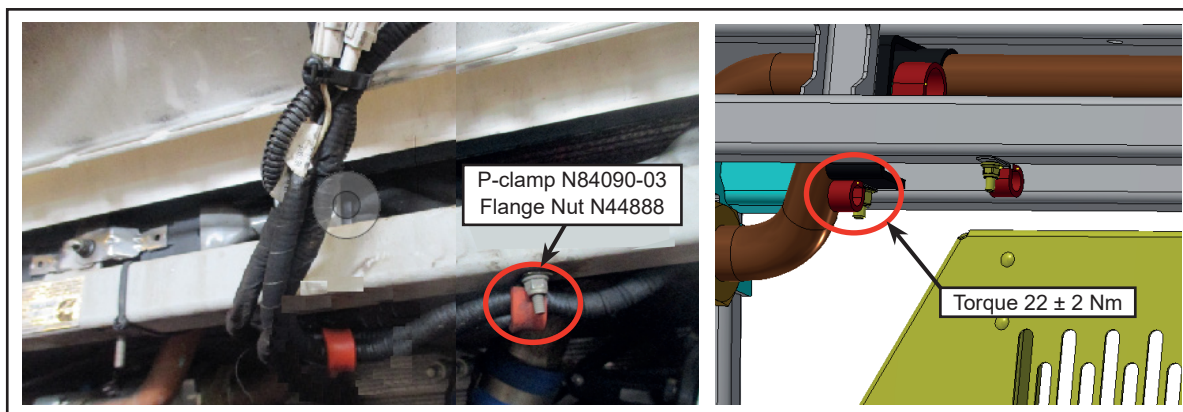


Figure 11 - Installation of P-clamp and Flange nut

- 1.14. Remove and discard the tie mount (see figure 12).

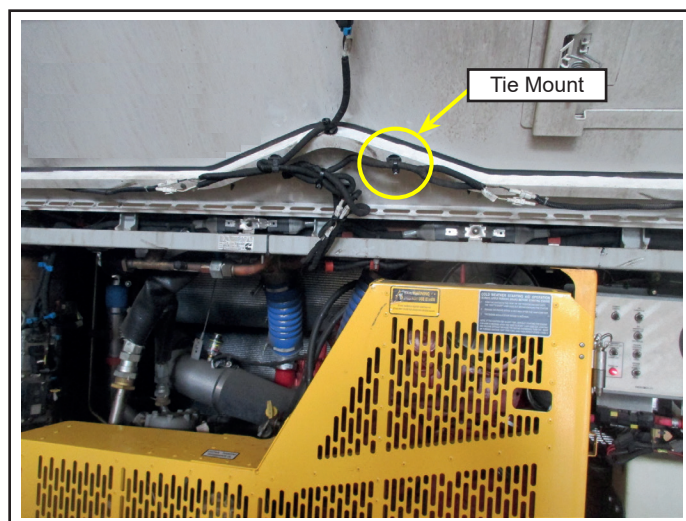


Figure 12 - Removal of Tie Mount

- 1.15. Drill an 8.75mm-9.25mm(0.343"-0.363") hole, Inline with the existing hole on the adjacent surface and Install the tie mount P/N N57807 (see figure 13).

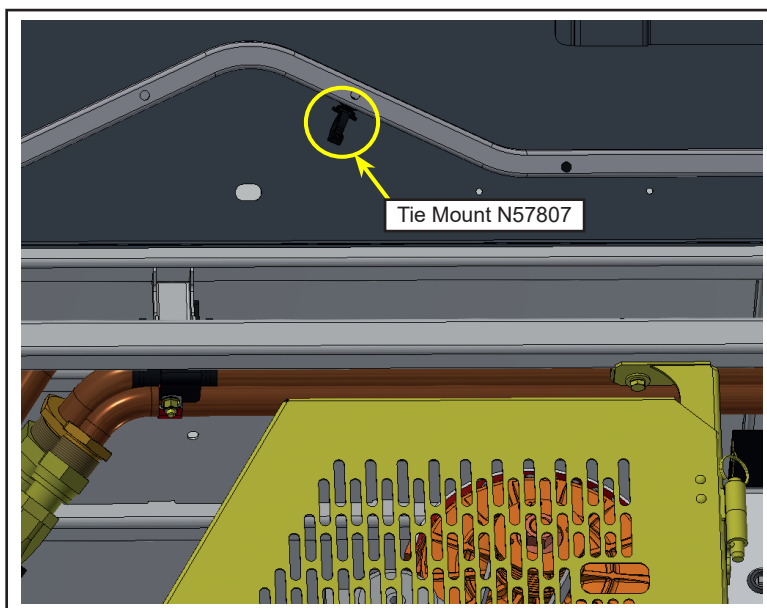


Figure 13 - Installation of Tie Mount

- 1.16. Apply Never-Seez or the equivalent on both the hinge pins of hinge post (see figure 14).

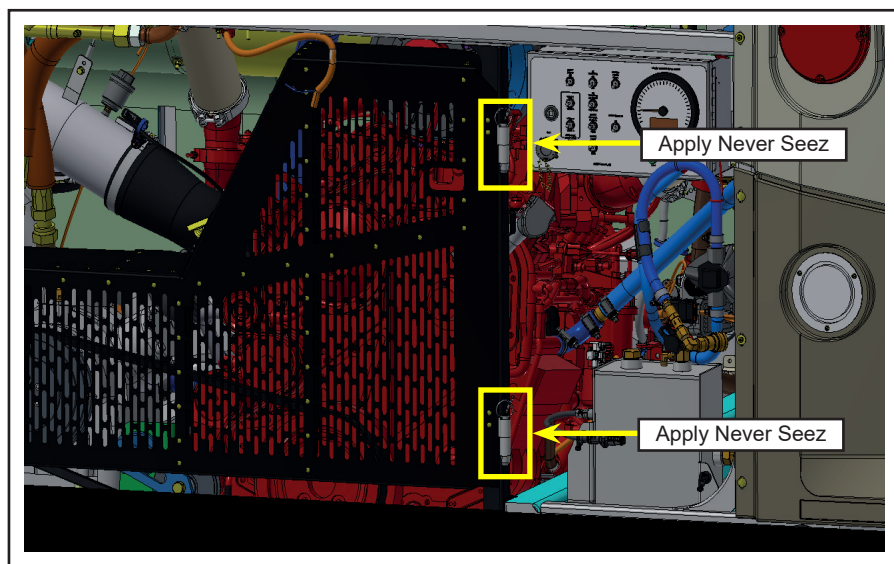


Figure 14 - Application of Never-Seez on Hinge Pin

**NOTE**

Check whether belt guard installed properly to setting up the square, keep a uniform gap between bumper and belt guard by using slots on belt guard hinge post assembly.

- 1.17. Install new belt guard on the hinges of belt guard hinge post assembly.
- 1.18. The bolts on the belt guard hinge post have been unscrew torque to 22 ± 2 Nm at the lower connection and torque 27 ± 2 Nm at the upper connection (see figure 15).

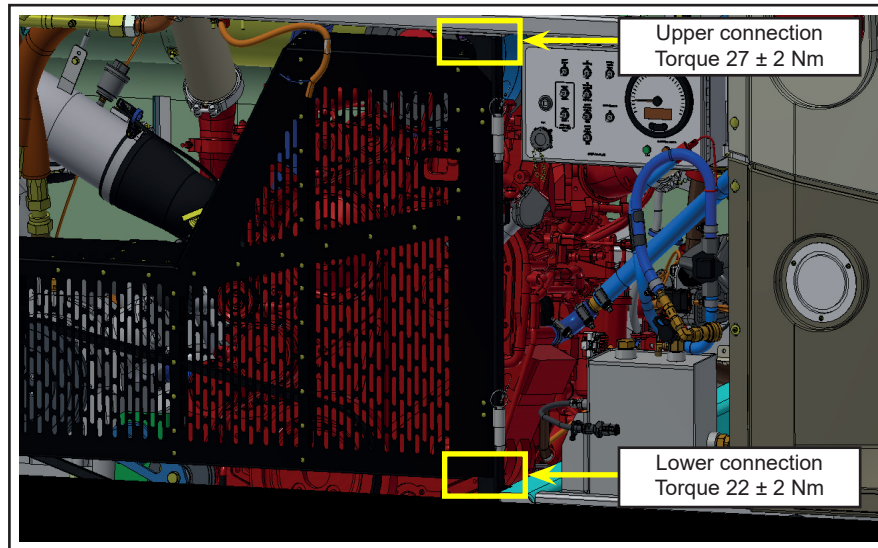


Figure 15 - Installation of Belt Guard

- 1.19. Install the street side post hardware from interior side (see figure 16).

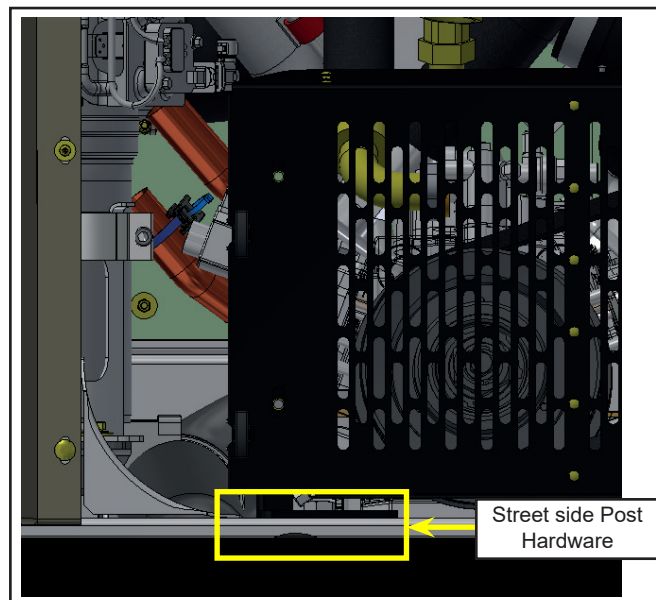


Figure 16 - Installation of Street Side Post Hardware

- 1.20. Tighten the screw P/N N0073122 and washer P/N N0113049 and torque to 22 ± 2 Nm (see figure 17).

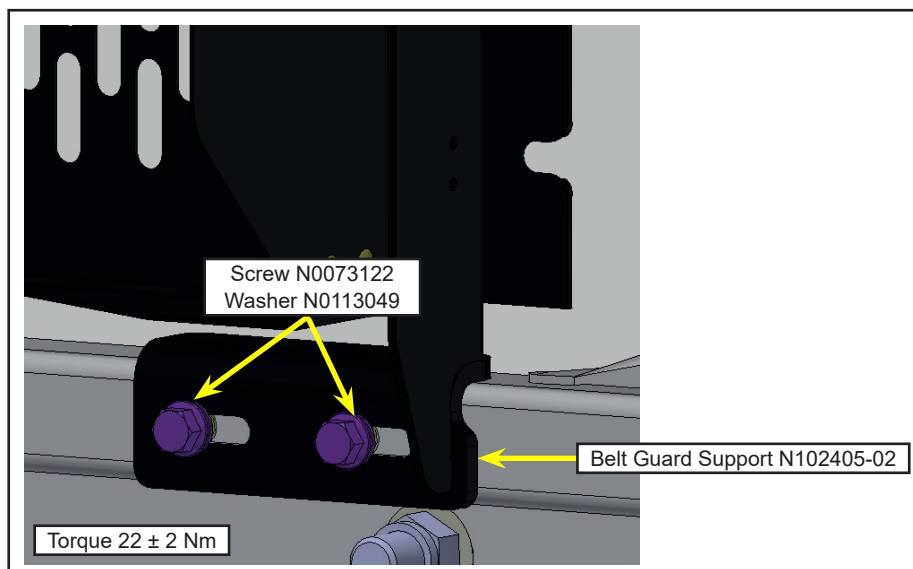


Figure 17 - Installation of Belt Guard Closing Straps

- 1.21. Close the belt guard grill and secure with closing straps (see figure 18).

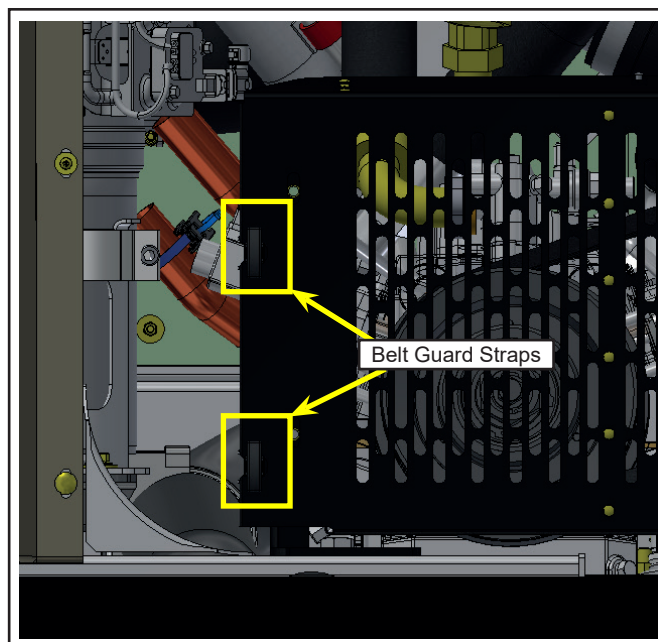


Figure 18 - Closing the Belt Guard Grill

DECAL INSTALLATION PROCEDURE

Conditions:

- Always apply when the air and vehicle surface are both above 16° C / below 32.
- After application of the graphic, keep the vehicle temperature above 16 °C for as long as possible (at least 12 hour ideal).

Preparation:

- Clean with Isopropyl alcohol.
- Isopropyl alcohol evaporates quickly, must wipe the substrate before it evaporates.
- Saturate a clean paper towel with isopropyl alcohol.
- Wipe with a lint-free paper towel before the isopropyl alcohol evaporates from the substrate. As the paper towel becomes dirty, discard it. A dirty towel does not remove dirt.
- Make sure the substrate is completely dry. If necessary, use a heat gun to dry out any retained moisture.

Application:

- Once the self-adhesive product is in place, firm, even pressure must be applied over the entire surface of the part to ensure maximum adhesion.

1.22. Installation of name plate decal on the belt guard (see figure 19).

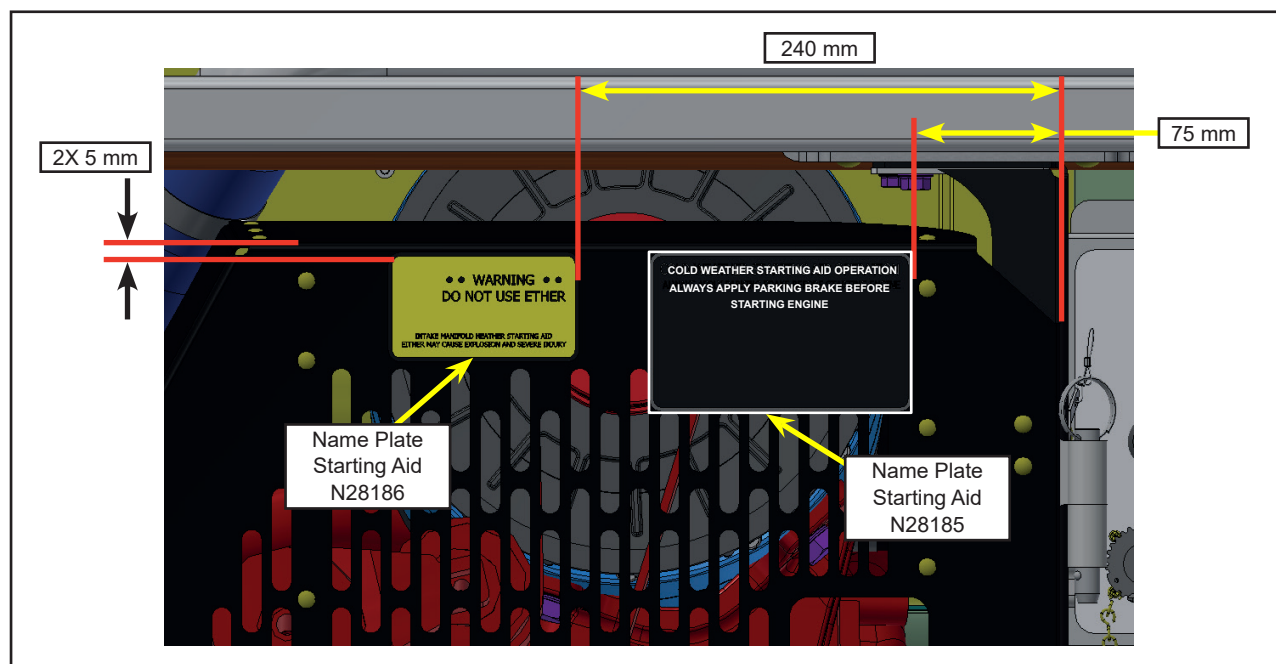


Figure 19 - Installation of Decal

- 1.23. Installation of Transmission oil fill decal on the belt guard (see figure 20).



Figure 20 - Installation of Decal

- 1.24. Close the rear engine door.
1.25. Return the bus to service.❖