

REFERENCE:	Nova Bus Manuals	APPLICATION DEADLINE: 2016OC01 CLAIM REFERENCE NUMBER: WB-3419
SECTION:	03: Windows, windshield and accessories	
RS N°:	MQR 7621-898	
EFFECTIVE IN PROD.:	NA	

SUBJECT:	Wiper motor operates continuously
JUSTIFICATION:	The wiper motor cannot be stopped by the driver.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace the wiper motor cover.	Nova Bus	Nova Bus	26 min
2	—	—	—	—

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N8902815	—	Doga wiper motor cover	—
LEVEL 2				
—	—	—	—	—

Materials will be available within 112 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.

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	2015SE09	Initial release	Bertrand Plouffe

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Brampton - Ontario	L789	—	—	L82J4E3001216	L82J1E3001223	8
Brampton - Ontario	L816	—	—	L82J3E3001224	L82J9E3001230	7
Regina - Saskatchewan	L807	671	685	L82J8E3001137	L82J2E3001151	15
SEPTA - Pennsylvania	L741	—	—	S92L4E4500504	S92L4E4500504	1
SEPTA - Pennsylvania	L743	—	—	S92L1E4500489	S92L2E4500503	15
SEPTA - Pennsylvania	L744	—	—	L82L7E4500570	L82LXE4500661	89
SEPTA - Pennsylvania	L749	7311	7354	S92Y7D4500419	S92L2E4500470	44

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Turn the wipers on, and then cut the main power of the bus in order to stop the arms well away from the park position.



Figure 1 - Typical Front Dash Access Panel

- 1.2. Remove the front dash access panel. See Figure 1.

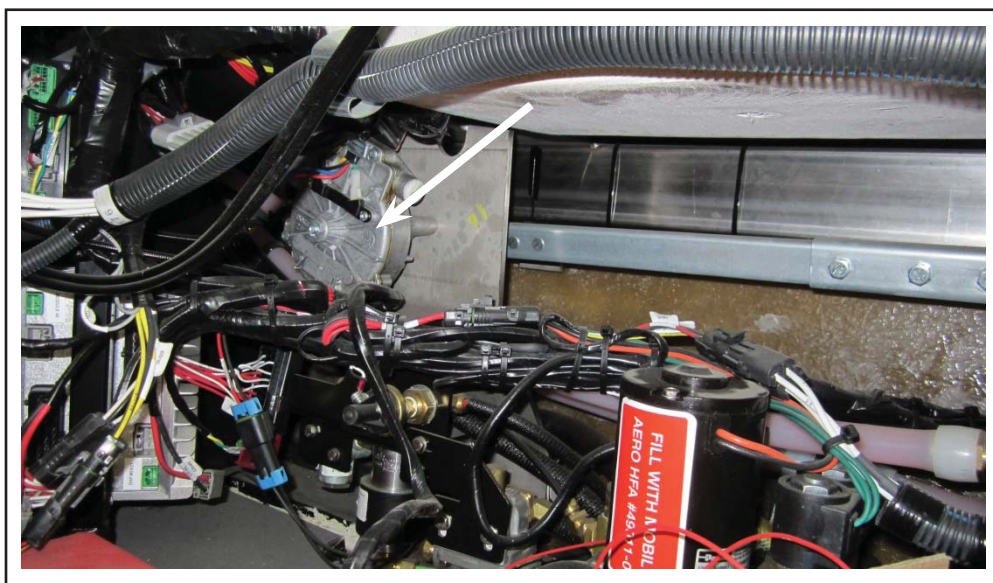


Figure 2 - Location of Wiper Motor Under the Front Dash

- 1.3. Locate the wiper motor under the front dash. See Figure 2.

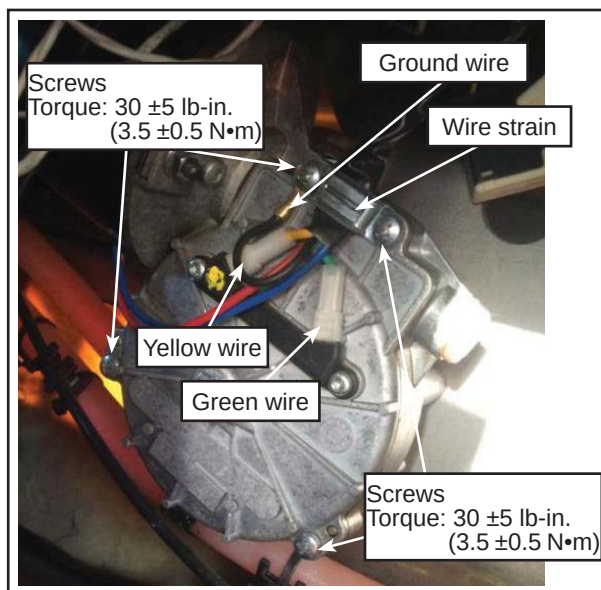


Figure 3 - Wiper Motor Cover

- 1.4. Disconnect the green and yellow wires from the cover. See Figure 3.
- 1.5. Remove the four screws from the wiper motor cover. Discard the cover. Retain the screws and the wiring strain relief strap. See Figure 3.

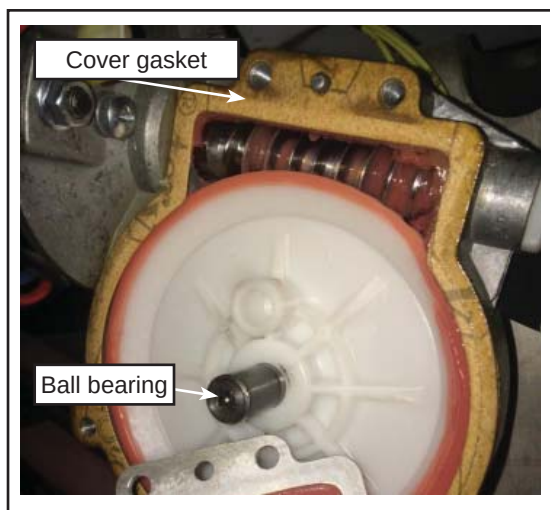


Figure 4 - Interior of the Mechanism Casing

- 1.6. Gently pull the cover straight out, leaving the gasket in place. See Figure 4.

- 1.7. Check if the ball bearing remains in place in the seat at the end of the shaft. See Figure 4.

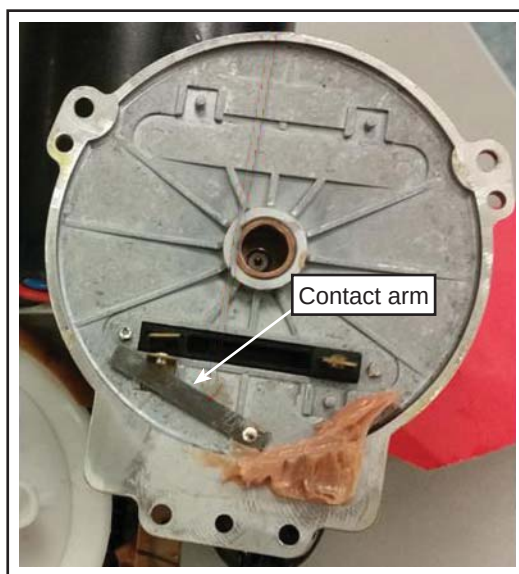


Figure 5 - Typical Broken Contact Arm

- 1.8. Be sure to remove the contact arm. See Figure 5.

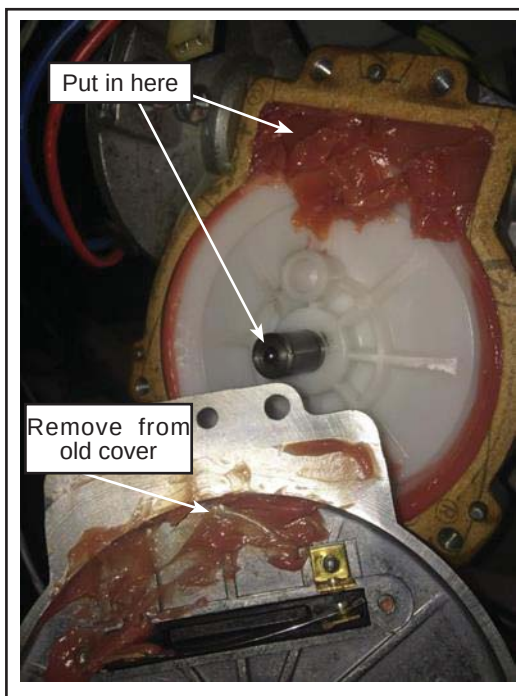


Figure 6 - Grease Recycling from Old Cover

- 1.9. Transfer any grease from the old cover into the worm gear cavity. See Figure 6.

- 1.10. Add a small dab of grease on the ball bearing/shaft end. See Figure 6.
- 1.11. Remove the end play adjustment screw and its nut from the new N8902815 cover assembly. See Figure 7. Retain the hardware.

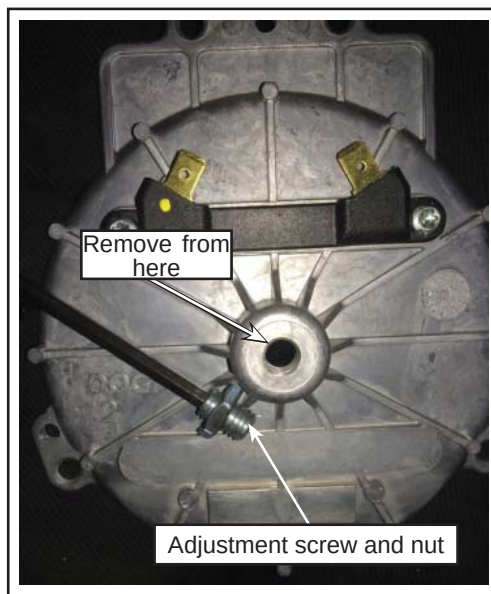


Figure 7 - Axial Adjustment Screw and Lock Nut Removal from the N8902815 Cover

- 1.12. Verify the gasket is in good condition and in place. See Figure 4.
- 1.13. Carefully install the new N8902815 cover on the shaft end and align it with the three dowel pins located in the mechanism casing. See Figure 8.

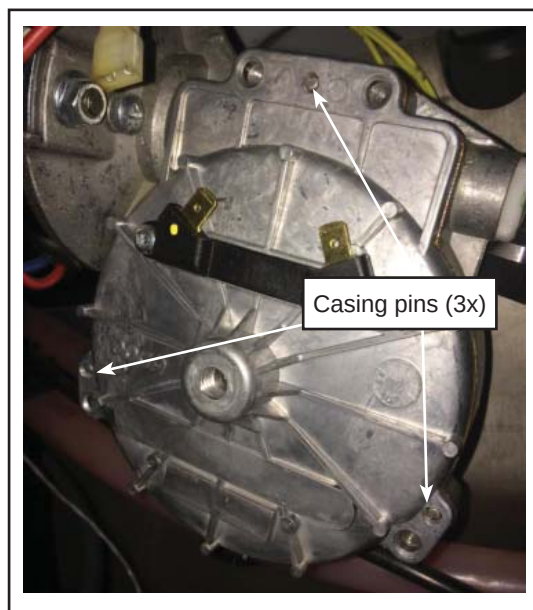


Figure 8 - Dowel Pins in the Wiper Motor Casing

- 1.14. Install the cover's bottom screws (2x). See Figure 3. Use the retained hardware.
- 1.15. Install the black (ground) wire and the wiring strain relief strap with the cover's upper screws (2x). See Figure 3. Use the retained hardware.
- 1.16. Tighten the cover's four screws to the specified torque. See Figure 3.
- 1.17. Connect the green and yellow wires on the cover's terminals. See Figure 3.
- 1.18. Turn the end play adjustment screw until just snug. Then loosen slightly and lock in place with the nut. See Figure 9. Use the retained hardware.

**CAUTION**

Do not over-tighten the adjustment screw and lock nut. The purpose is only to eliminate the axial play of the shaft.



Figure 9 - Axial Play Adjustment

- 1.19. Power up the vehicle.
- 1.20. Power up the wiper motor. Shut off the power and check if the wiper arms stop in normal park position.
- 1.21. Install the front dash access panel.
- 1.22. The vehicle may be returned to service. ❖