

REFERENCE:	Nova Bus Manuals
SECTION:	09: Alternator and voltage regulator
RS N°:	MQR 7621-1005
EFFECTIVE IN PROD.:	L958 (2016DE)

APPLICATION DEADLINE: 2018AL12
CLAIM REFERENCE NUMBER: WB-3886

SUBJECT:	Voltage regulator
JUSTIFICATION:	When the accelerator pedal is suddenly depressed, the alternator voltage momentarily well above 32V because the voltage regulator response time is too long.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace the voltage regulator with the improved voltage regulator N87552	Nova Bus	Nova Bus	40 min
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N87552	–	Voltage regulator	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 56 days once your order has been placed. 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 *	* To be reimbursed, the parts must be retained and returned in accordance with the usual warranty procedure.
	–	Yes	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2017FE09	Initial release	Luc Carignan

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

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Open the battery compartment access door.
- 1.2. Turn the battery disconnect switch to the **OFF** position. The main power light should turn **OFF**. See Figure 1.

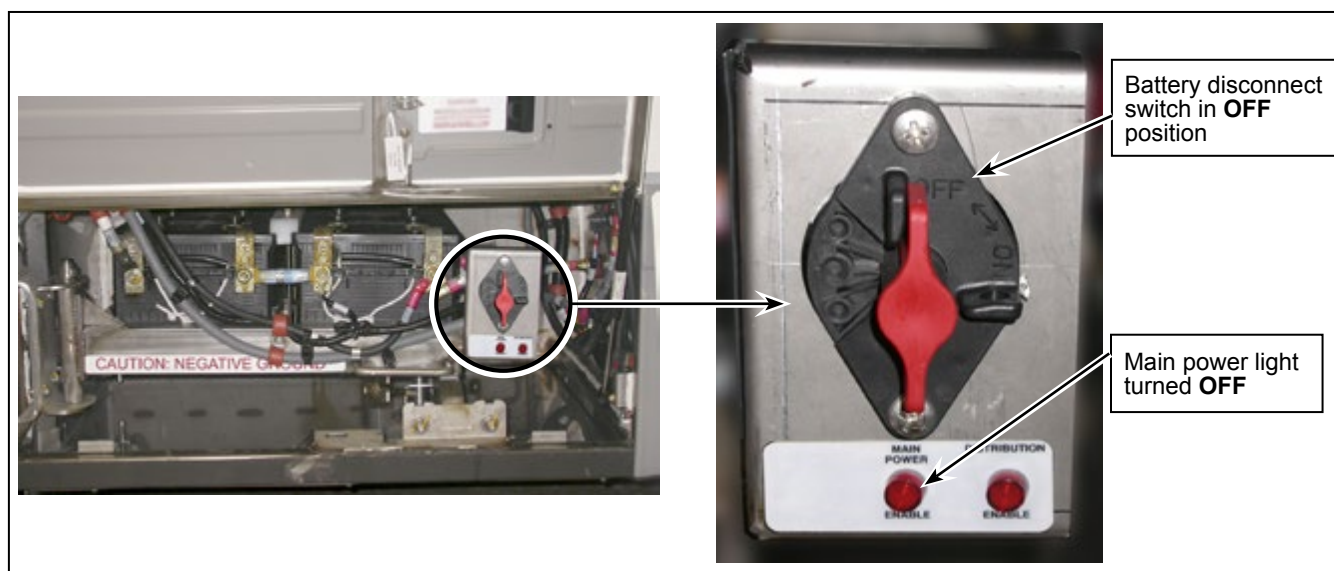


Figure 1 - Typical Battery Compartment and Disconnect Switch

- 1.3. Open the rear engine access door.
- 1.4. On the voltage regulator, disconnect connector **MT-X95D2**, the Niehoff connector and wire **95-272/RED** from the **IGN** terminal, and wire **95-273/WH** from the **P** terminal. See Figure 2 for voltage regulator location.
- 1.5. Remove the voltage regulator from the vehicle. Attach a tag to the removed voltage regulator indicating the service bulletin number, as well as the road number and serial number of the vehicle from which it was removed. Retain hardware.
- 1.6. On the new N87552 voltage regulator, set the rotary switch, located under the voltage regulator, to position **2** (28V). See Figure 2.
- 1.7. Install the new N87552 voltage regulator on the alternator using the retained hardware. See Figure 2 for torque value.
- 1.8. Connect connector **MT-X95D2**, the Niehoff connector and wire **95-272/RED** to the **IGN** terminal and wire **95-273/WH** to the **P** terminal. See Figure 2 for torque values to apply to terminals **IGN** and **P**.

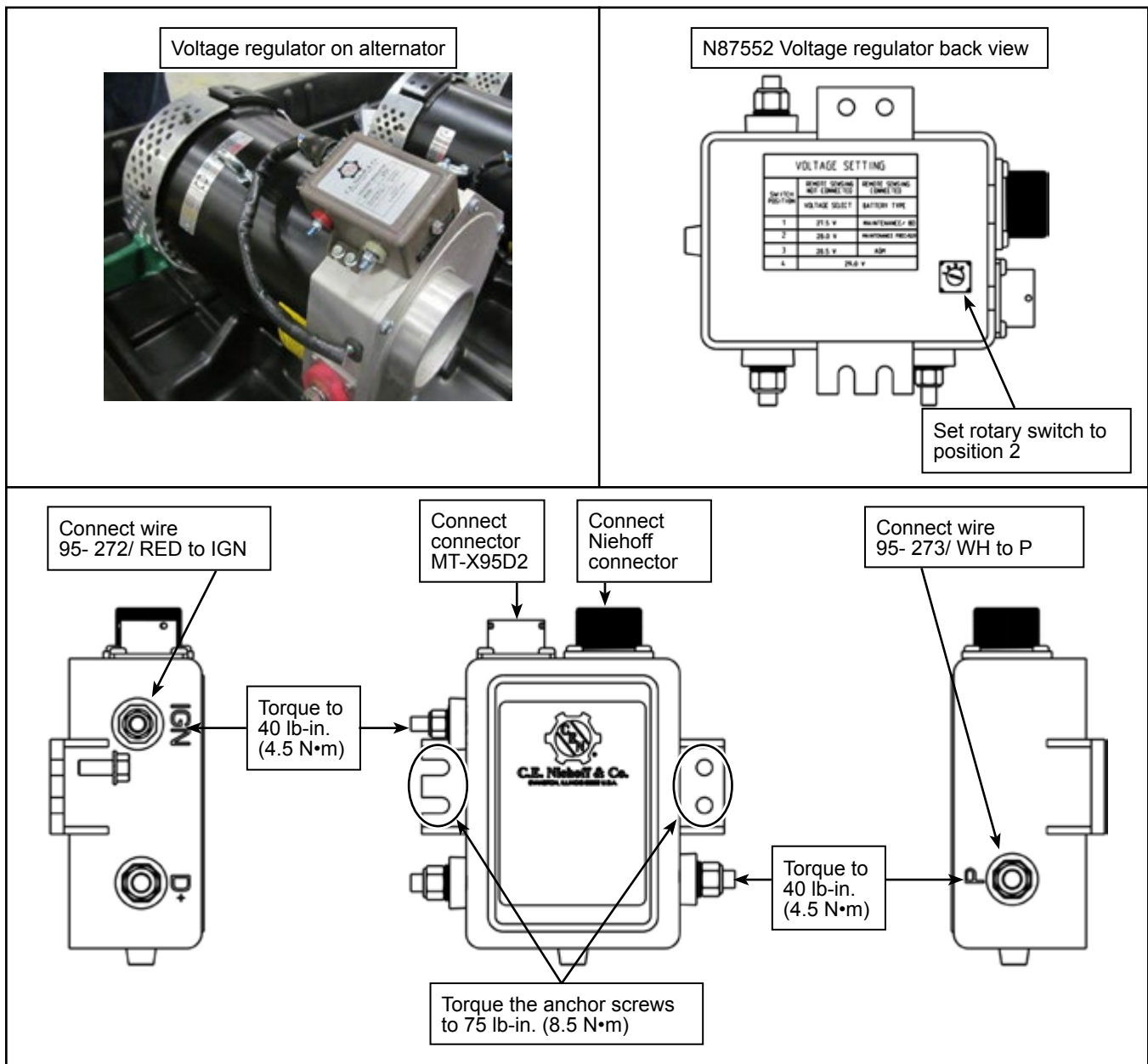


Figure 2 - Installation Instructions for N87552 Voltage Regulator

- 1.9. Apply a thin coat of corrosion inhibitor N35450 (Loctite Maxi-coat) or the equivalent on the voltage regulator exposed terminals.
- 1.10. Turn the battery disconnect switch to the **ON** position. The main power light should turn **ON**.
- 1.11. Start the engine in rear mode.
- 1.12. With a voltmeter, measure the battery voltage. The reading should indicate $28V \pm 0.2V$. If not, validate if the rotary switch was correctly set to position **2**. If the rotary switch was set correctly, replace the voltage regulator.
- 1.13. Stop the engine.
- 1.14. Close the battery compartment and rear engine access doors. ❖