

REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical System
RS N°:	MQR 7621-680
EFFECTIVE IN PROD.:	L840 (2014SE)

APPLICATION DEADLINE:NA

SUBJECT:	Junction power switch relay
JUSTIFICATION:	A new power switch relay design is now available.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Install the new design relay service kit for improved performance.	Client	Client	40 min
2	—	—	—	—

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N8902770	—	Power switch relay service kit	—
LEVEL 2				
—	—	—	—	—

Materials will be available within 30 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	2015AL27	Initial release	Bertrand Plouffe

APPROVED BY: Daniel Theriault

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Date: 2015.06.16 01:31:51 -04'00'

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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
New York City Transit - New York	L608	8000	8014	L82U6B4000047	L82U0B4000061	15
New York City Transit - New York	L620	8015	8074	L82U2B4000062	L82U7B4000123	60
New York City Transit - New York	L621	8075	8089	L82U9B4000124	L82U9B4000138	15
New York City Transit - New York	L643	5895	5895	S92U1B4000143	S92U1B4000143	1
New York City Transit - New York	L670	5770	5894	S92U9B4000147	S92UXC4500061	125
New York City Transit - New York	L681	5896	5283	S92U2C4500023	S92U9C4500195	122
New York City Transit - New York	L692	5284	5363	S92U3C4500158	S92U3D4500274	80

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Disconnect the battery in accordance with section **16: ELECTRICAL SYSTEM** of the Nova Bus maintenance manual.
- 1.2. Raise the vehicle.

**CAUTION**

For information on hoisting and towing of the vehicle, see section **18: HOISTING AND TOWING** in the Nova Bus maintenance manual. Respect your internal safety procedures. Use appropriate hoisting equipment for your protection.

- 1.3. Remove the dustpan under the battery compartment. See Figure 1.

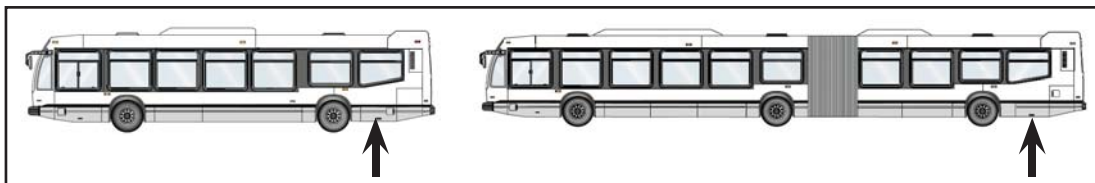


Figure 1 - Location of the Dustpan

- 1.4. Locate the power switch relay in the batteries compartment, on the vehicle firewall. See Figure 2.



Figure 2 - Power Switch Relay Location (View from Battery Compartment)

- 1.5. Remove the bracket cover. See Figure 3. Retain the hardware.

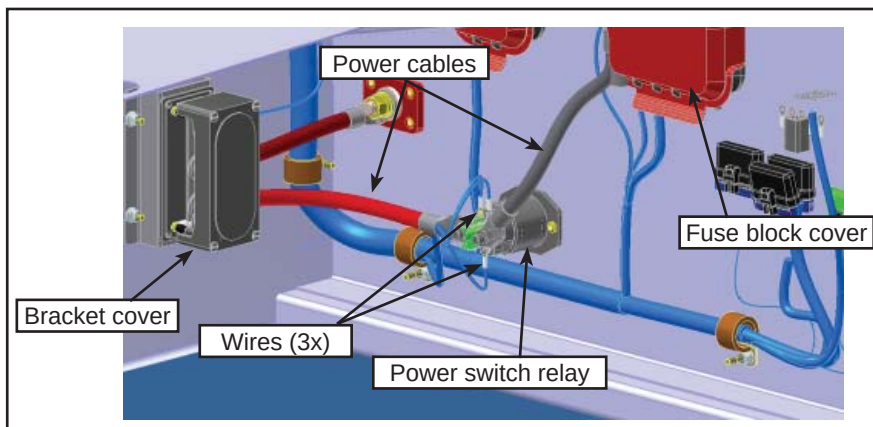


Figure 3 - Part Locations

- 1.6. Remove the the fuse block cover. See Figure 3. Retain the hardware.
- 1.7. Remove the two power cables from the relay. See Figure 3. Discard the hardware.
- 1.8. Remove the two cables from the bracket and fuse block. See Figure 3. Discard the cables but retain the hardware.
- 1.9. Mark the location of the three wires on the relay. See Figure 3.
- 1.10. Remove the three wires from the relay. Discard the hardware.
- 1.11. Remove the relay from the vehicle. See Figure 3. Discard the relay and the hardware.
- 1.12. From the relay service kit, install the N80283 plate with N20369 nuts (4x), N29153 lock washers (4x) and N20504 flat washers (4x) on N78350 relay. See Figure 4 & 5. Apply specified torque.

QTY	PART N°	DESCRIPTION
1	N78350	RELAY 500A 24VDC
1	N79753-04	POWER CABLE ASM C726 4/0 AWG GY-RD
1	N79752-04	POWER CABLE ASM C725 4/0 AWG GY-RD
6	N20369	NUT M5 SS GR.A2 DIN934
6	N29153	WASHER LOCK M5 SS A2
6	N20504	WASHER FLAT M5 SS DIN125A
1	N80283	PLATE ASSEMBLY FOR THE RELAY

Figure 4 - N8902759 Relay Service Kit Part List

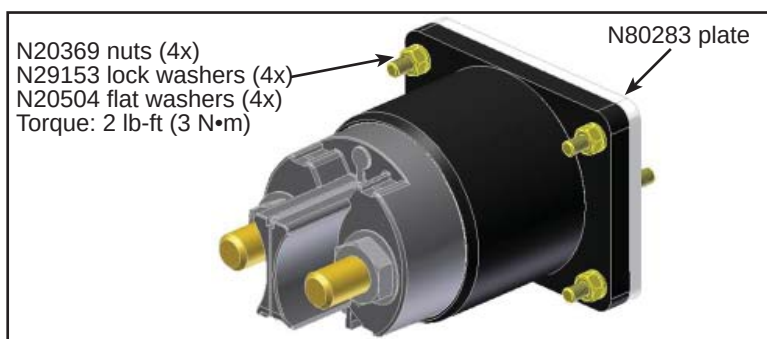


Figure 5 - N78350 Power Switch Relay with N80283 Plate Installed

- 1.13. Install the N78350 relay (with N80283 plate already on) with N20369 nuts (2x), N29153 lock washers (2x) and N20504 flat washers (2x) on the vehicle firewall. See Figure 4 & 6. Apply specified torque.

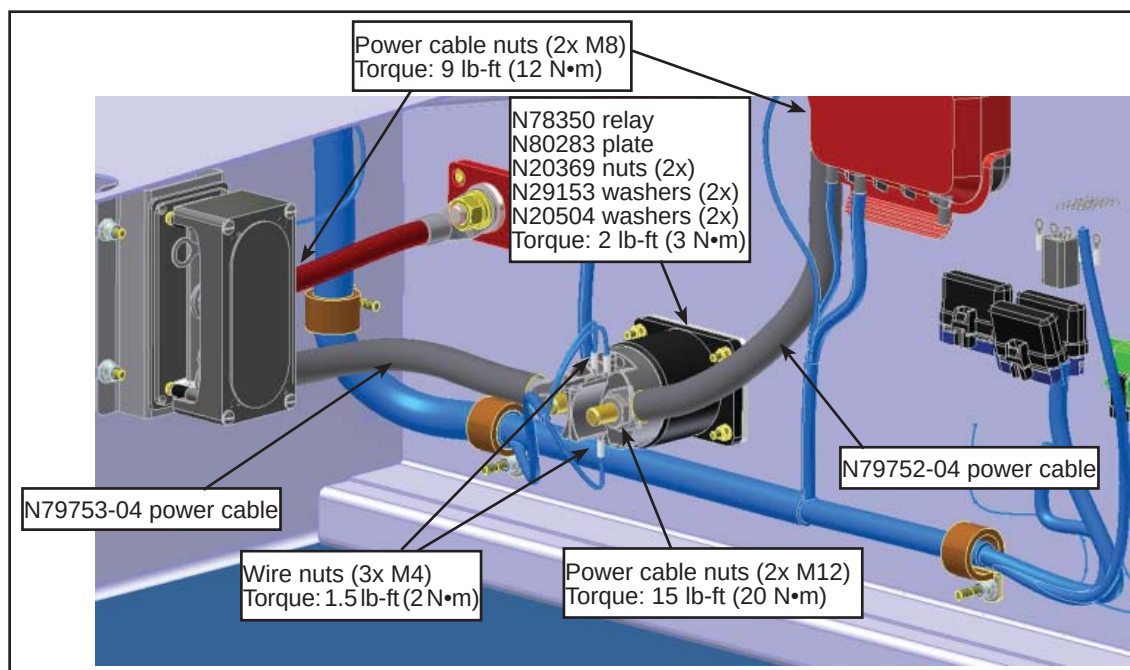


Figure 6 - Installation of New Parts from Relay Service Kit

- 1.14. Install the three wires on the relay, following the previously made identification marks. See Figure 6. Use the hardware included with the relay. Apply specified torque.
- 1.15. Install N79753-04 and N79752-04 power cables. See Figures 4 and 6. Use the hardware included with the relay to connect the power cables on the relay and use the retained hardware on the fuse block and the bracket. Apply specified torque.
- 1.16. Install the covers on the fuse block and the bracket. Use the retained hardware.
- 1.17. Install the dustpan.
- 1.18. Lower the vehicle.
- 1.19. Connect the batteries in accordance with section **16: ELECTRICAL SYSTEM** of the Nova Bus maintenance manual.
- 1.20. The vehicle may be returned to service. ❖