

REFERENCE:	Nova Bus Manuals
SECTION:	10: Transmission and Control
RS N°:	MQR 7621-886
EFFECTIVE IN PROD.:	NA

APPLICATION DEADLINE: 2018JL11
CLAIM REFERENCE NUMBER: WB-4012

SUBJECT:	Allison Transmission Fault Code
JUSTIFICATION:	Check light ON and continuous blinking of transmission fault code due to improper routing of ground cable.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Installation of wire kit to enhance grounding.	Nova Bus	Nova Bus	0.75 hr
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N632000563	–	KIT WIRE MQR-886 ALLISON GND	–
1	N44890	–	NUT LOCKNYL M6 FL SSA2 C70	–
1	N44884-01	–	SCREW M6 FL SSA2 C70 D6921	–
20	G5007993	–	ZIP TIE	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 30 days once your order has been placed. To order, please contact Prevest 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	2017AL28	Initial release	Kumaraswamy K S
R1	2017MA24	Addition of L861 in Client List	Kumaraswamy K S

Symbol	Meaning
Empty Field	No changes, the procedure applies
+	Contract added, the procedure applies
-	Contract removed, the procedure does not apply

	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
			FROM	TO	FROM	TO	
	SEPTA - Pennsylvania	L724	7300	7301	S92Y1D4500275	S92Y3D4500276	2
	SEPTA - Pennsylvania	L728	—	—	L82W7D4500335	L82W7D4500335	1
	SEPTA - Pennsylvania	L741	7355	7355	S92L4E4500504	S92L4E4500504	1
	SEPTA - Pennsylvania	L742	7371	7414	S92L6E4500729	S92L7E4500772	44
	SEPTA - Pennsylvania	L743	7356	7370	S92L1E4500489	S92L2E4500503	15
	SEPTA - Pennsylvania	L744	—	—	L82L7E4500570	L82LXE4500661	89
	SEPTA - Pennsylvania	L745	7415	7415	S92L0F4500873	S92L0F4500873	1
	SEPTA - Pennsylvania	L746	7416	7454	S92L7F4500952	S92L8F4501012	39
	SEPTA - Pennsylvania	L749	7302	7354	S92Y7D4500409	S92L2E4500470	53
+	SEPTA - Pennsylvania	L861	7300	7484	S92L5G9775188	S92L8G9775220	32

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Park the vehicle on an even surface with transmission in neutral (N).
- 1.2. Turn the ignition switch to OFF position and engage the parking brake.
- 1.3. Set the Master control switch in the STOP position (see Figure 1).

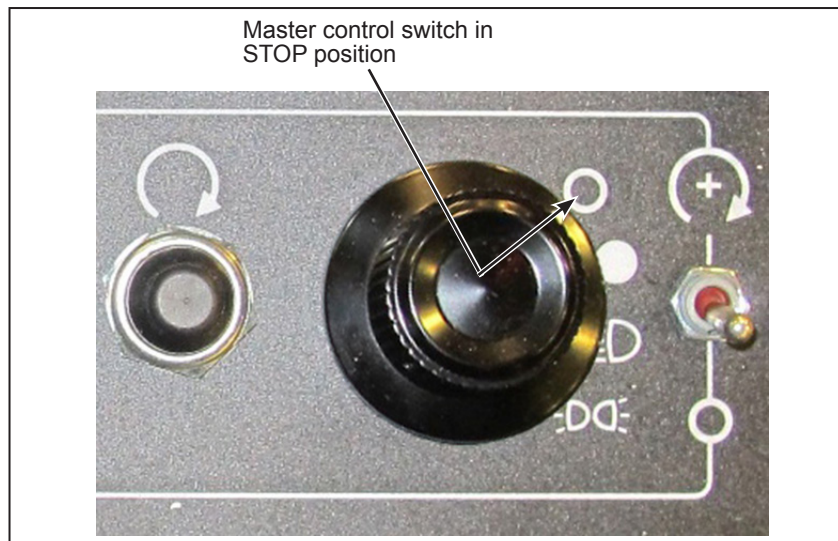


Figure 1 - Master Control Switch in STOP Position

**WARNING**

Before starting any work on the vehicle, make sure the vehicle is completely and securely stationary. Disconnect the starting circuit on the control box at the rear of the vehicle and place the battery disconnect switches in the OFF position.

- 1.4. Disconnect the battery ground cable. Insulate the terminals to avoid accidental grounding.

**WARNING**

Disconnect the batteries prior to starting any work on the vehicle. See your maintenance manual section 16: BATTERIES for the procedure.

**NOTE**

See the manufacturer's manual, supplied by Nova Bus, for additional details and information.

**CAUTION**

Before removing, dismantling or maintaining any electrical component, the qualified personnel should take the necessary precautions to avoid any risk of personal injury or damage to the equipment. If necessary, mark all wiring prior to disconnecting, to facilitate reconnection. See the COACH WIRING DIAGRAM for further details on electrical circuit power cut-off points.

- 1.5. Open the first roof canopy on the street side (see Figure 2).

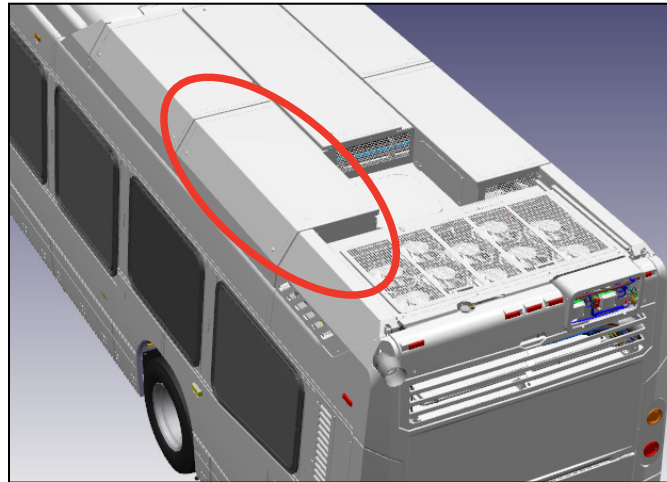


Figure 2 - Typical View of Canopy

- 1.6. Disconnect and secure the existing wire 47-112 using zip tie (G5007993) at position A of the splice connector +XT5-SC47A (see Figure 3).
- 1.7. Connect the wire 47-586 at position A of the splice connector +XT5-SC47A (see Figure 3).
- 1.8. Route the wire directly on the wire harness above the cooling pipelines until the structure support (see Figure 3).

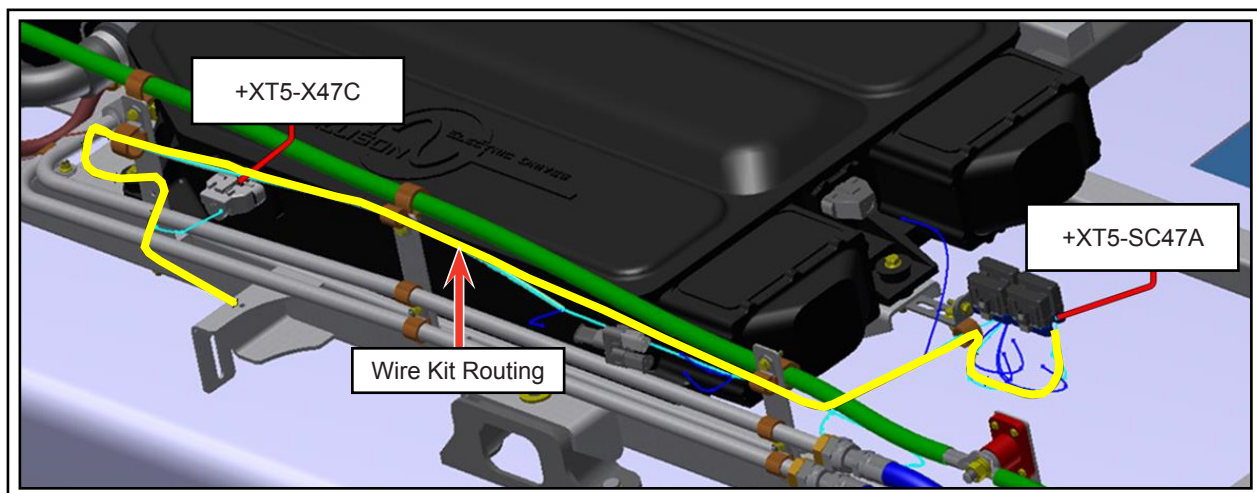


Figure 3 - Routing of Wire Kit (N632000563)



NOTE

Secure the wires correctly with cable tie (G5007993). Respect the method described in section 99: GENERAL PRACTICE of the Nova Bus maintenance manual for the attachment of the electrical harness.

- 1.9. Clean the surface and install the wire terminal lug on the structure (hole already present) with the flanged screw (N44884-01) and hex nut locknyl (N44890) (see Figure 4).

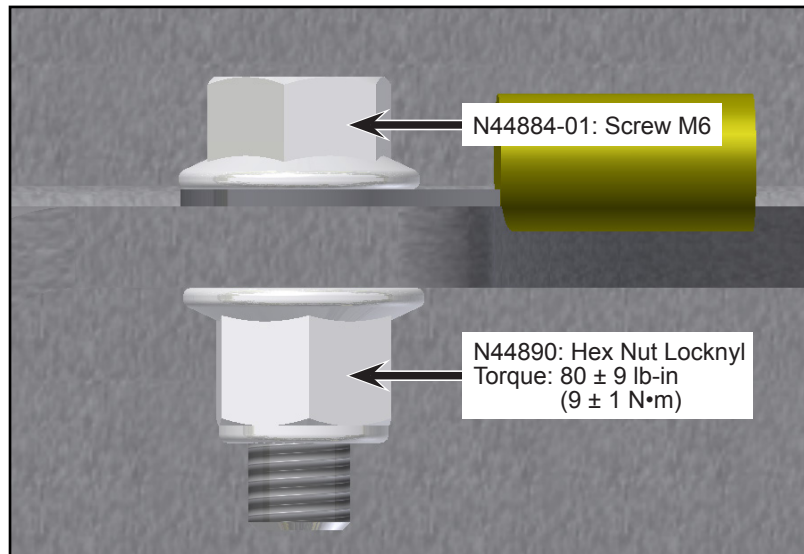


Figure 4 - Installation of Lug

- 1.10. Tighten the nut to torque specifications (see Figure 4). Apply torque seal.
- 1.11. Apply corrosion inhibitor (Loctite Maxi-Coat N35450 or equivalent) all over the hardware and the lug (see Figure 5).

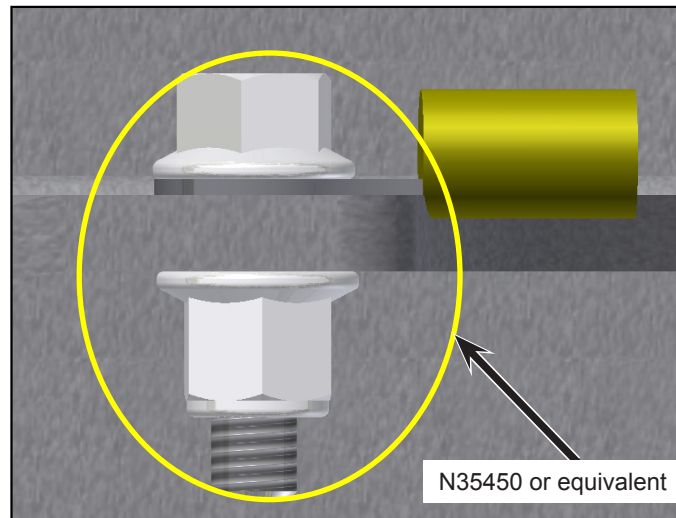


Figure 5 - Application of Corrosion Inhibitor



NOTE

Make sure that all the routing is proper and are functional before closing the canopy.

- 1.12. Connect the battery ground cable.
- 1.13. Set the Master control switch in the ON position.
- 1.14. Check for proper functioning of the vehicle.
- 1.15. Close the canopy on the street side. ❖