

REFERENCE:	Nova Bus Manuals
SECTION:	10: Allison transmission
RS N°:	MQR 7621-1212
EFFECTIVE IN PROD.:	LA69-01 (2017DE)

APPLICATION DEADLINE: 2018DE21
CLAIM REFERENCE NUMBER: WB-4108

SUBJECT:	Allison Transmission Accumulator Solenoid
JUSTIFICATION:	Accumulator solenoid failure resulting in air leakage.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Installation of pressure regulator valve.	Nova Bus	Nova Bus	0.75 hrs
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	0696464	–	ELBOW 90, NTA-8, M-NPT-4	–
1	0118750 (501029)	–	CONNECTOR M-FL45-6, M-NPT-4	–
1	N90441	–	VALVE PRESSURE REG 110PSI	–
1	N90510	–	BRACKET	–
2	N68704	–	SCREW M6X55 MACH HEX SSA2 CL70	–
2	N16646 (502573)	–	WASHER FLAT M6 SS DIN125A	–
2	N44890	–	NUT LOCKNYL M6 FL SSA2 C70	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 45 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	2017OC11	Initial release	Kumaraswamy K S

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Houston - Texas	L951	1915	1915	L82J0G9775203	L82J0G9775203	1
Houston - Texas	L952	1580	1580	S92J5G9775318	S92J5G9775318	1
Houston - Texas	L981	1916	1994	L82J8G9775434	L82J4G9775513	79
Houston - Texas	L982	1581	1599	S92J5G9775514	S92J5G9775545	19
Toronto Transit Commission - TTC - Ontario	L729	9000	9000	S92U9D3000905	S92U9D3000905	1
Toronto Transit Commission - TTC - Ontario	L738	9001	9026	S92J6D3001094	S92J7D3001119	26
Toronto Transit Commission - TTC - Ontario	L777	9027	9152	S92J7E3001123	S92J6E3001372	126
Toronto Transit Commission - TTC - Ontario	L859	8400	8400	L82J5F3001405	L82J5F3001405	1
Toronto Transit Commission - TTC - Ontario	L860	8401	8504	L82J0F3001554	L82JXF3001805	104
Toronto Transit Commission - TTC - Ontario	L937	8510	8617	L82J9G3750001	L82J3G3750401	108
Toronto Transit Commission - TTC - Ontario	L998	8620	8716	L82J3H3750545	L82J4H3750683	97
Toronto Transit Commission - TTC - Ontario	LA67	8720	-	L82J4H9775996	L82J3H9776248	201
Toronto Transit Commission - TTC - Ontario	LA68	8920	8964	L82J6H3750796	L82JXH3750848	45

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Park the vehicle on an even surface with transmission in neutral (N).
- 1.2. Set the Master control switch in the STOP position (see Figure 1).

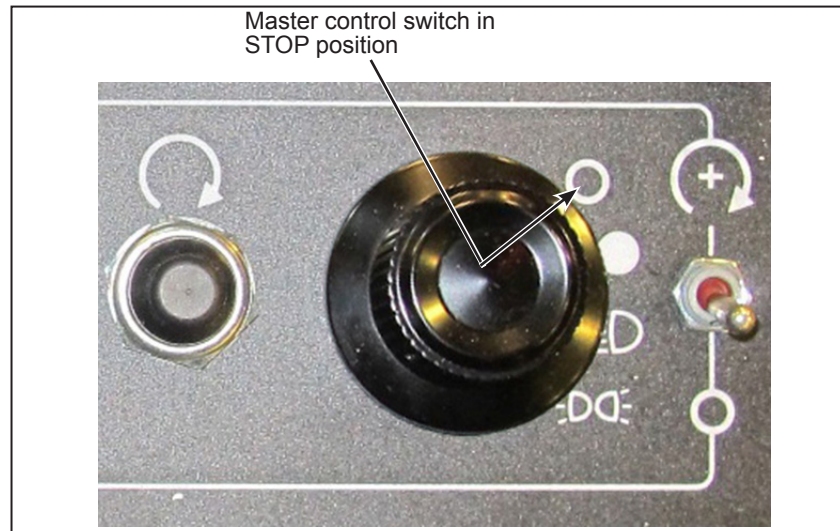


Figure 1 - Master Control Switch in STOP Position

**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.

- 1.3. Raise the vehicle.

**CAUTION**

VEHICLE HOISTING. Follow your internal safety procedures. Use appropriate safety equipment for your protection. See section 18 : HOISTING AND TOWING in the Nova LFS Maintenance manual for more information.

**NOTE**

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

- 1.4. Locate the retarder air line assembly in 60-foot vehicle (Allison Transmission B500R) or 40-foot vehicle (Allison Transmission B400R) (see Figure 2).

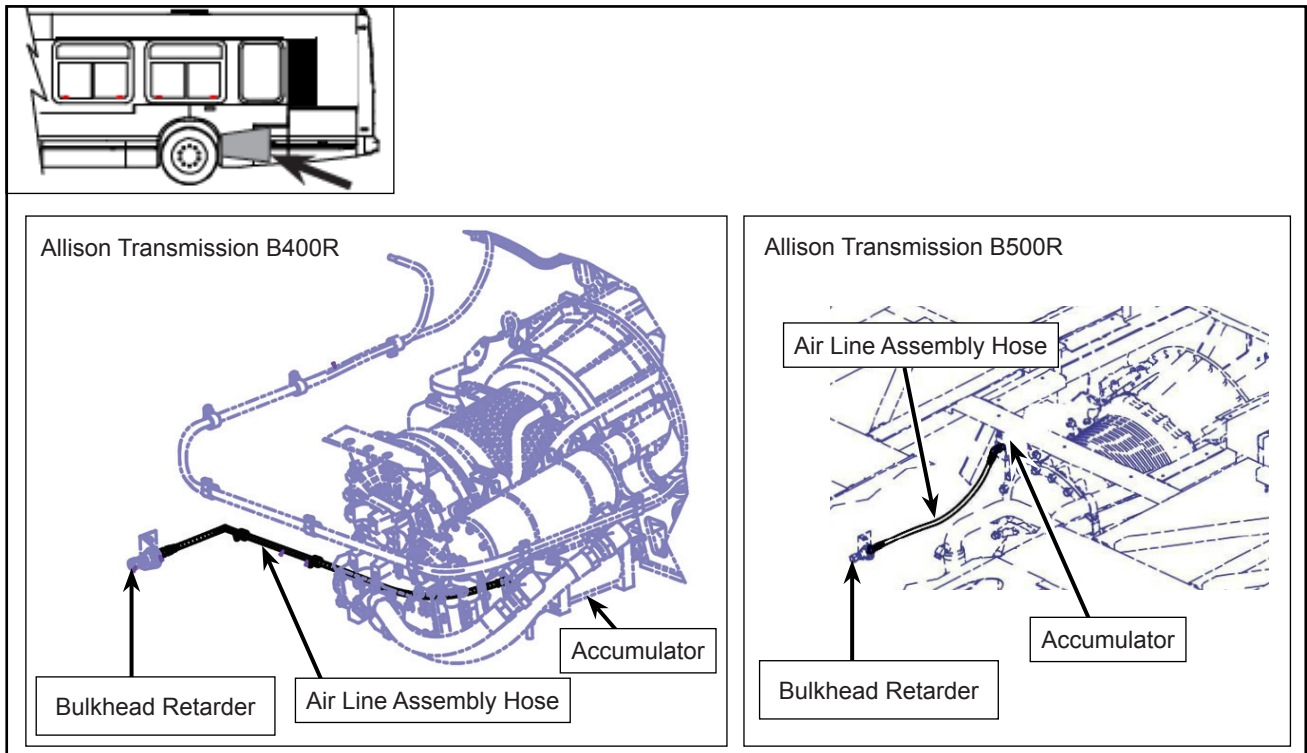


Figure 2 - Typical View of Air Line Assembly

- 1.5. Drain the air pressure from the system by opening the accessory reservoir release valve.
- 1.6. Remove the existing retarder air line assembly hose (A & B) and its connectors from the bulkhead retarder (see Figure 3).
- 1.7. Remove the bulkhead retarder assembly from the structure and retain the nuts (see Figure 3).

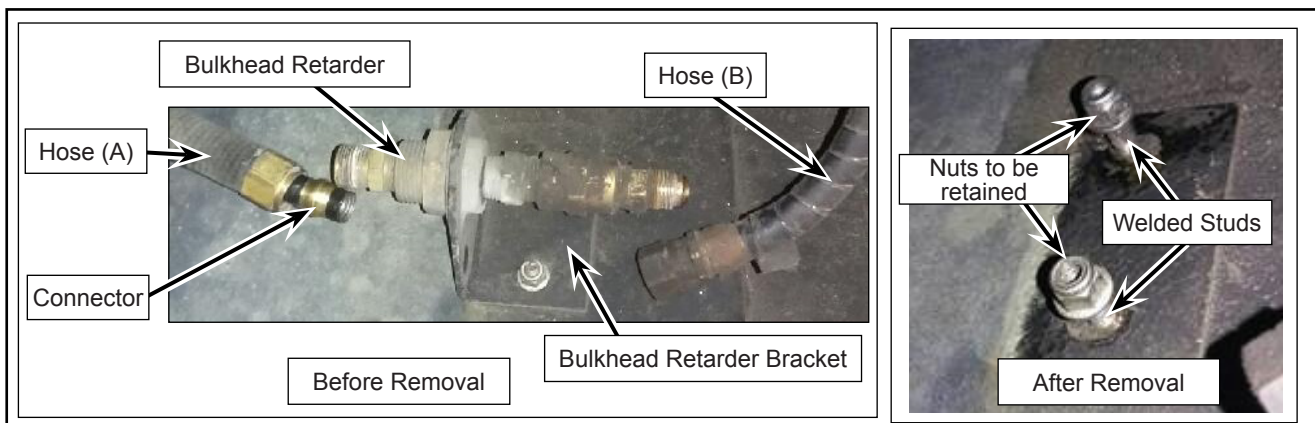


Figure 3 - Before and After Removal of Bulkhead Retarder Assembly



CAUTION

See section 99 : GENERAL PRACTICES in the Nova LFS Maintenance manual for proper removal and installation of the hoses.

- 1.8. Apply thread sealant on the threads of elbow and the connector as shown (see Figure 4).
- 1.9. Install both the elbow and the connector in the pressure regulator valve (see Figure 4).

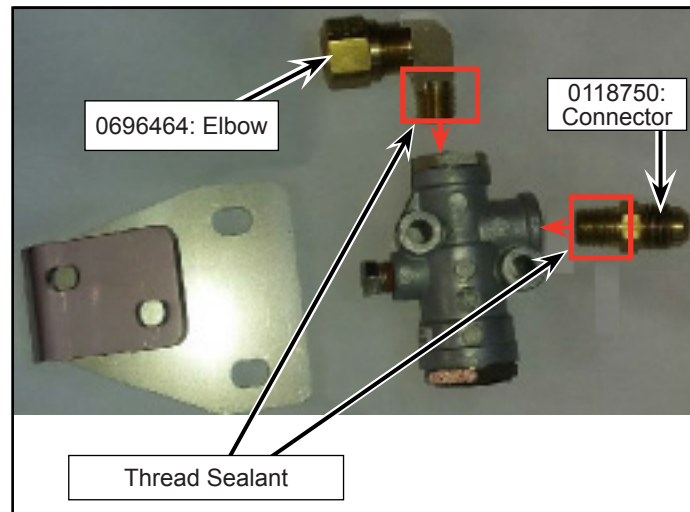


Figure 4 - Installation of Elbow and the Connector

- 1.10. Assemble the pressure regulator valve onto the bracket (N90510) using nuts (N44890 x2), bolts (N68704 x2) and washers (N16646 x2) as shown (see Figure 5).
- 1.11. Install the pressure regulator assembly using the nuts in a location where the bulkhead retarder assembly was previously fitted (see Figure 5).
- 1.12. Remove the existing fitting from the hose (A) and connect free end of the hose (A) to elbow (0696464) as shown (see Figure 5).
- 1.13. Connect the hose (B) to the connector (0118750) as shown (see Figure 5).

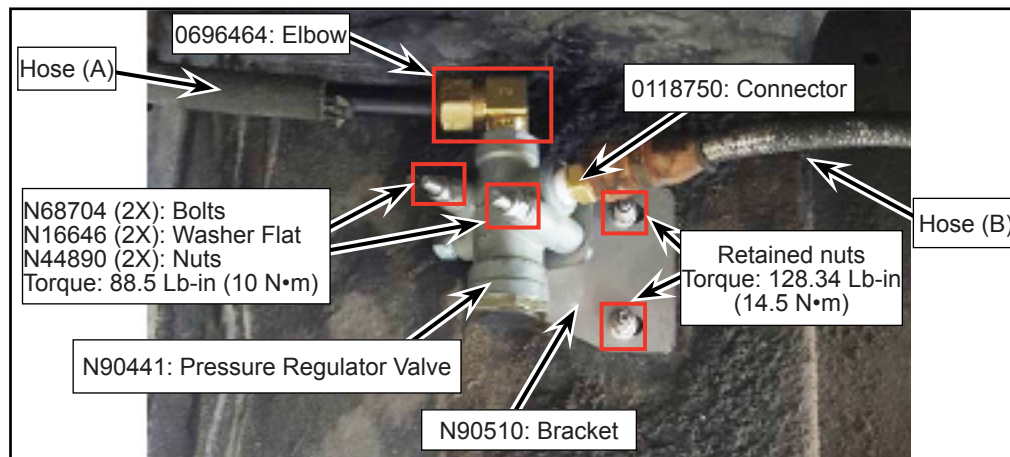


Figure 5 - Installation of Pressure Regulator Assembly



NOTE

Once the hoses are connected to the valves, allow some fine tuning on the slotted holes of the bracket to ensure complete tightening of the valve.

- 1.14. Let the air pressure rise in the system.
- 1.15. Apply soapy water at hose connections. Check for any air leaks. Rework the hose connections, if any leakage is identified.
- 1.16. Lower the vehicle.
- 1.17. Set the battery disconnect switch in the battery compartment to ON position.
- 1.18. Place the Master control switch in ON position.
- 1.19. The vehicle may be returned to service.❖