

REFERENCE:	Nova Bus Manuals
SECTION:	08: Pneumatic system
RS N°:	MQR N/A
EFFECTIVE IN PROD.:	NA

APPLICATION DEADLINE: N/A

SUBJECT:	Air regulator.
JUSTIFICATION:	Obsolete part replacement (G5009279).

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Installation of new pressure regulator for interlock retarder.	Client	Client	1.25 hr
2	-	-	-	-

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
1	N49129	-	Pressure Regulator
1	0444014	-	Adapter
4 ft	8861149	-	Tube 1/2" Green
1	0696457	-	Connector
1	0144598	-	Nipple
0.5 ft	N34357-07	-	Plastic Film Tape
1	0696467	-	Elbow 90°
LEVEL 2			
-	-	-	-

To order, please contact novabus.parts@volvo.com

Or by phone for CANADA 1-800-771-6682, for USA 1-877-999-8808

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	2021OC28	Initial release	Devanand
R1	2022JA11	Revised time from 0.75 hr to 1.25 hr	Devanand

APPROVED BY:

Jean-Nicolas Fournier

Digitally signed by Jean-Nicolas Fournier
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 Date: 2022.01.11 07:54:20 -05'00'

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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Academy Bus - New Jersey	L231	—	—	L82U563000166	L82U163000178	13
Belleville Transit - Ontario	L179	179-1	179-1	L82UX53000033	L82UX53000033	1
Belleville Transit - Ontario	L180	180-1	180-1	L82U753000118	L82U753000118	1
Belleville Transit - Ontario	L176	—	—	L82U563000233	L82U563000233	1
Belleville Transit - Ontario (L168)	L129	—	—	L82S633000199	L82S933000200	2
Brantford - Ontario	L150	—	—	L82U643000173	L82U843000174	2
Brantford - Ontario	L256	—	—	L82U363000229	L82U363000229	1
Brantford - Ontario	L257	—	—	L82UX63000230	L82UX63000230	1
Brantford - Ontario	L258	—	—	L82U163000231	L82U163000231	1
Brantford - Ontario	L175	—	—	L82U363000232	L82U363000232	1
Cape Breton Nova Scotia	L146	8031	8032	L82U543000164	L82U743000165	2
Chicago Transit Authority - CTA - Illinois	L043	6400	6549	L82S2Y3000157	L82S1Y3000361	150
Chicago Transit Authority - CTA - Illinois	L083	6550	6708	L82S713000001	L82S913000159	159
Chicago Transit Authority - CTA - Illinois	L093	6709	6883	L82S523000001	L82S523000225	175
Durham Region Transit - Ontario	L114	153	160	L82P923000367	L82P623000374	8
Durham Region Transit - Ontario	L143	—	—	L82S243000010	L82S843000013	4
Durham Region Transit - Ontario	L142	424	429	L82U643000108	L82UX43000113	6
Durham Region Transit - Ontario	L149	161	168	L82U443000155	L82UX43000161	7
Durham Region Transit - Ontario	L199	169	169	L82U453000125	L82U453000125	1
Durham Region Transit - Ontario	L212	—	—	L82UX53000128	L82UX53000128	1
Durham Region Transit - Ontario	L213	—	—	L82U153000129	L82U153000129	1
Durham Region Transit - Ontario	L182	182-1	182-1	L82U653000157	L82U653000157	1
Durham Region Transit - Ontario	L224	170	170	L82U963000011	L82U963000011	1
Elliot Lake - Ontario	L148	04-01	04-02	L82U143000162	L82U343000163	2
First Transit Inc. (ref. L173)	L144	—	—	L82U543000049	L82U543000049	1
Fredericton - New Brunswick	L178	8053	8053	L82U653000109	L82U653000109	1
Fredericton - New Brunswick	L225	8061	8061	L82U663000032	L82U663000032	1
Gaylord Opryland - Nashville, Tennessee	L223	—	—	L82VX53000221	L82VX53000221	1
GCRTA - Cleveland, Ohio	L111	2101	2150	L82S713000287	L82S513000336	50
Grand River Transit - GRT - Ontario	L145	2400	2417	L82U143000114	L82U143000131	18
Grand River Transit - GRT - Ontario	L161	2418	2433	L82U643000254	L82U843000269	16
Guelph Ontario	L019	9701	9720	L82K1V3000162	L82K5V3000181	20
Guelph - Ontario	L115	169	176	L82P933000080	L82P133000087	8
Guelph - Ontario	L132	177	179	L82P443000019	L82P243000021	3
Guelph - Ontario	L167	180	182	L82U943000250	L82U243000252	3
Guelph - Ontario	L211	184	184	L82U853000127	L82U853000127	1
Guelph - Ontario	L187	186	186	L82U553000215	L82U553000215	1
Guelph - Ontario	L187	188	188	L82U953000217	L82U953000217	1
H.R. Ross Industries - Massachussets	L107	7001	7002	L82T713000234	L82T913000235	2
Leduc Bus Line - Ontario	L181	—	—	L82V853000119	L82V853000119	1
Leduc Bus Line - Ontario	L228	228-1	228-1	L82V663000041	L82V663000041	1

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
MATA - Memphis, Tennessee	L108	889	903	L82S713000337	L82S113000351	15
MATA - Memphis, Tennessee	L112	904	908	L82S313000352	L82S013000356	5
MATA - Memphis, Tennessee	L116	909	923	L82S723000226	L82S123000240	15
MATA - Memphis, Tennessee	L117	924	928	L82S323000241	L82S023000245	5
Moncton (Codiac) - New Brunswick	L082	—	—	L82S313000237	L82S213000245	4
Moncton (Codiac) - New Brunswick	L147	504	505	L82U943000166	L82U043000167	2
Moncton (Codiac) - New Brunswick	L226	506	507	L82U863000033	L82UX63000034	2
Ottawa - OC transpo	L020	9721	9740	L82K7V3000182	L82K7V3000201	20
Ottawa - OC transpo	L162	162-1	162-1	L82V343000270	L82V343000270	1
Peterborough - Ontario	L130	60017	60021	L82S143000001	L82S943000005	5
Peterborough - Ontario	L159	60022	60024	L82S443000168	L82S243000170	3
Peterborough - Ontario	L202	—	—	L82U253000110	L82U653000112	3
Regina - Saskatchewan	L166	598	603	L82U453000027	L82U853000032	6
Regina - Saskatchewan	L183	604	608	L82U853000046	L82UX53000050	5
Regina - Saskatchewan	L239	609	610	L82U363000179	L82UX63000180	2
St. John's - Newfoundland	L082	0147	0152	L82S113000236	L82S013000244	6
Strathcona County Transit - Alberta	L177	921	923	L82U953000024	L82U253000026	3
Thunder Bay - Ontario	L105	135	136	L82S213000357	L82S413000358	2
Thunder Bay - Ontario	L131	137	141	L82SX43000014	L82S743000018	5
Thunder Bay - Ontario	L221	142	144	L82U863000033	L82UX63000034	3
Timmins - Ontario	L184	184-1	184-1	L82UX53000081	L82UX53000081	1
Timmins - Ontario (ref. L189)	L144	—	—	L82U343000048	L82U343000048	1
Walt Disney World - Florida	L074	4815	4829	L82P0Y3000282	L82P0Y3000296	15
Walt Disney World - Florida	L084	4830	4832	L82P2Y3000297	L82P6Y3000299	3
Walt Disney World - Florida	L104	4833	4861	L82PX13000246	L82P413000274	29
Walt Disney World - Florida	L113	4862	4884	L82P623000343	L82P523000365	23
Walt Disney World - Florida	L118	4885	4885	L82P723000366	L82P723000366	1
Walt Disney World - Florida	L174	174-1	174-1	L82U553000005	L82U553000005	1
Woodstock - Ontario	L255	—	—	L82U163000228	L82U163000228	1

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Park the vehicle on an even surface with transmission on neutral (N).
- 1.2. Apply the parking brake.
- 1.3. Set the master control switch to the STOP position (see figure 1).

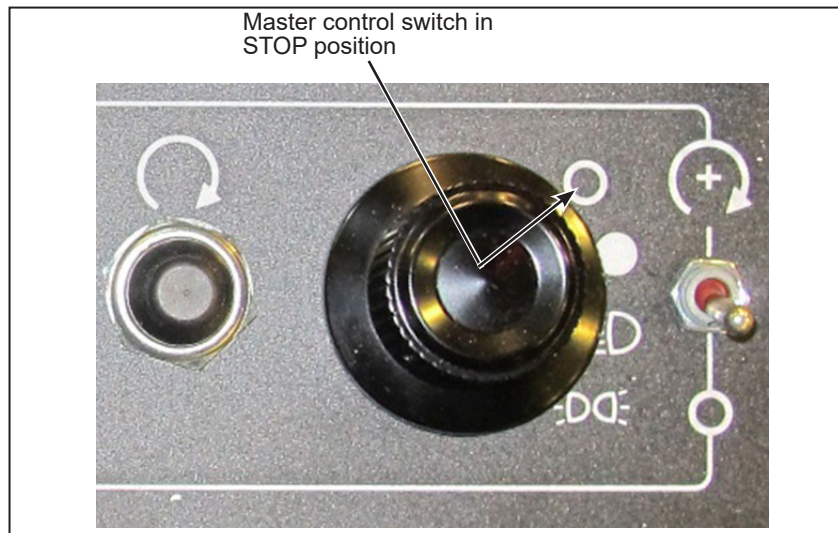


Figure 1 - Master Control Switch in STOP Position

- 1.4. Set the battery disconnect switch in the battery compartment to the OFF position (see figure 2).

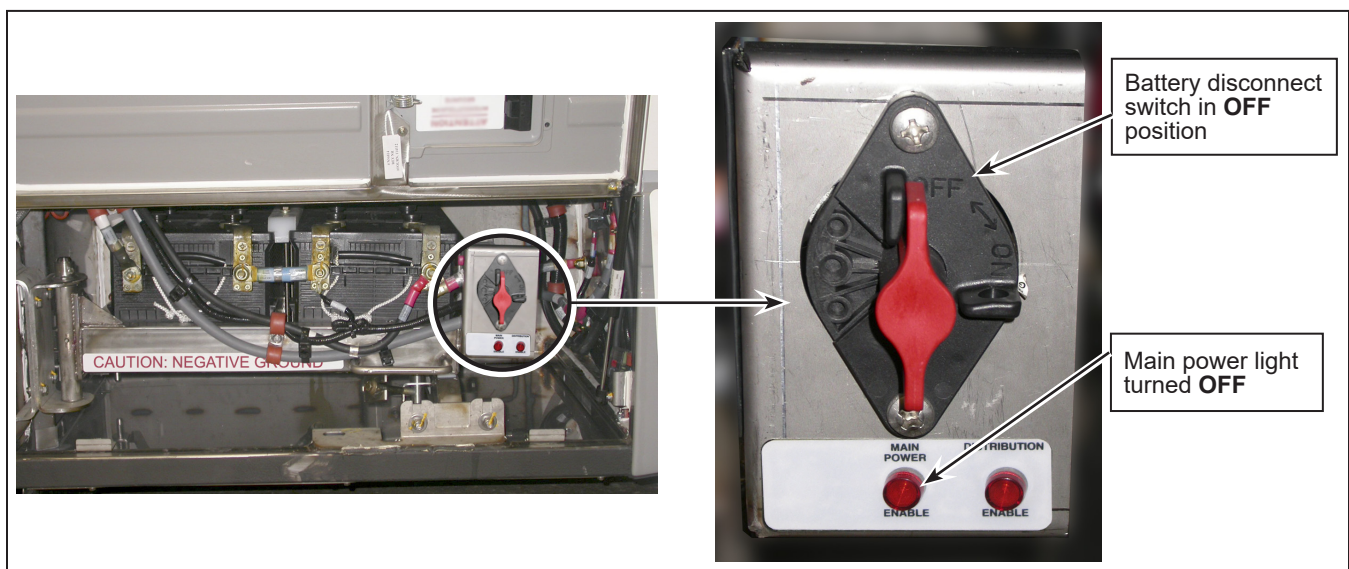


Figure 2 - View of Battery Disconnect Switch

**WARNING**

Remove air pressure from the system completely before disconnecting any component. Air under pressure can cause serious bodily injuries. For more information about the air supply system, see your maintenance manual section 08: Air Supply System.

- 1.5. Drain the pneumatic system by opening the drain valves near the entrance door operator (close the valves after).
- 1.6. Open the access panel under the dash.
- 1.7. Disconnect the pneumatic hose and nipple connected to the air regulator.
- 1.8. Disconnect and remove the air hose connected to the dual brake valve.
- 1.9. Disconnect the nipple from the magnetic valve.

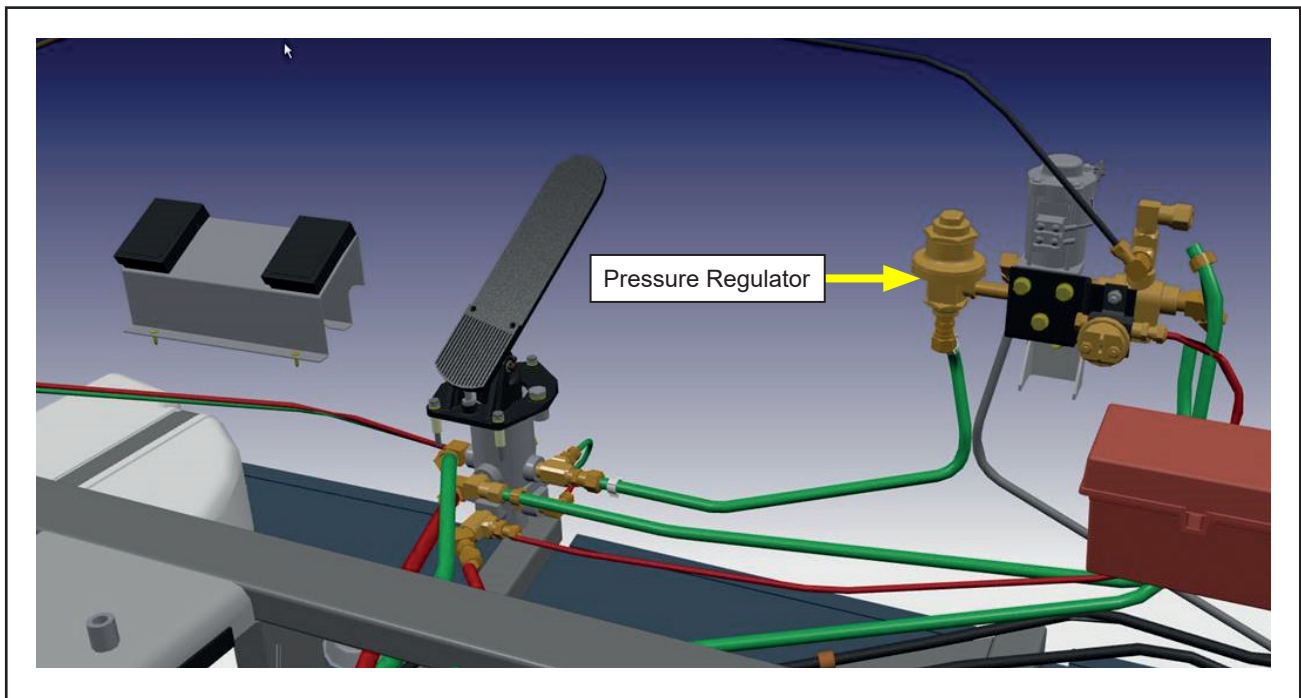


Figure 3 - Location of Pressure Regulator

**NOTE**

There must be no liquid sealant inside the coupling.

- 1.10. Remove the old pressure regulator P/N G5009279, nipple P/N 0144598 and connector P/N 0696457 (see figure 4).

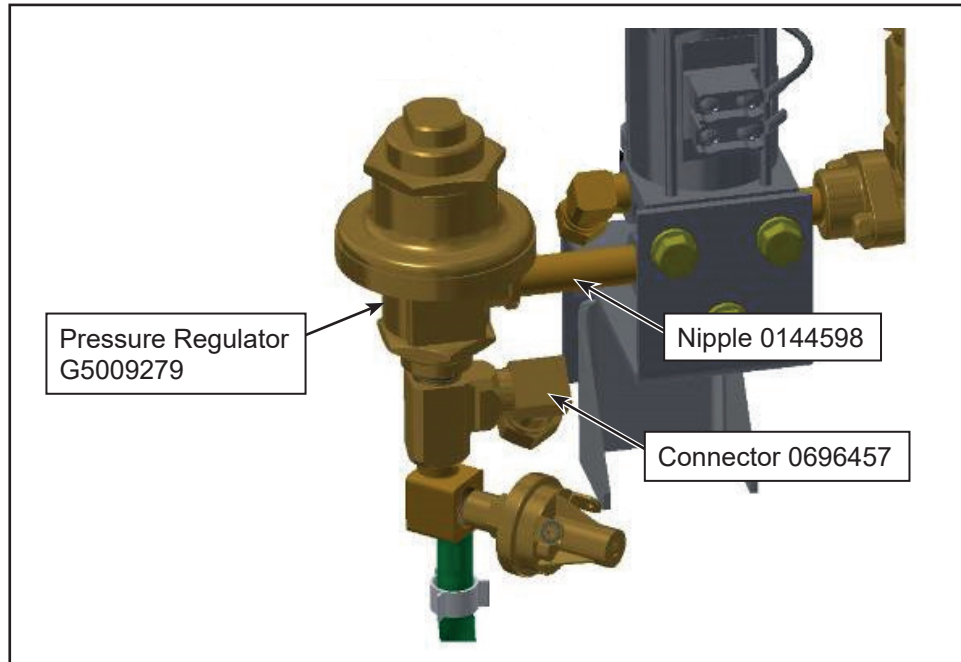


Figure 4 - Removal of Old Pressure Regulator

- 1.11. Retain tee P/N 0444150, elbow 90° P/N 0444042 and pressure switch hobb P/N G5011332 (see figure 5).

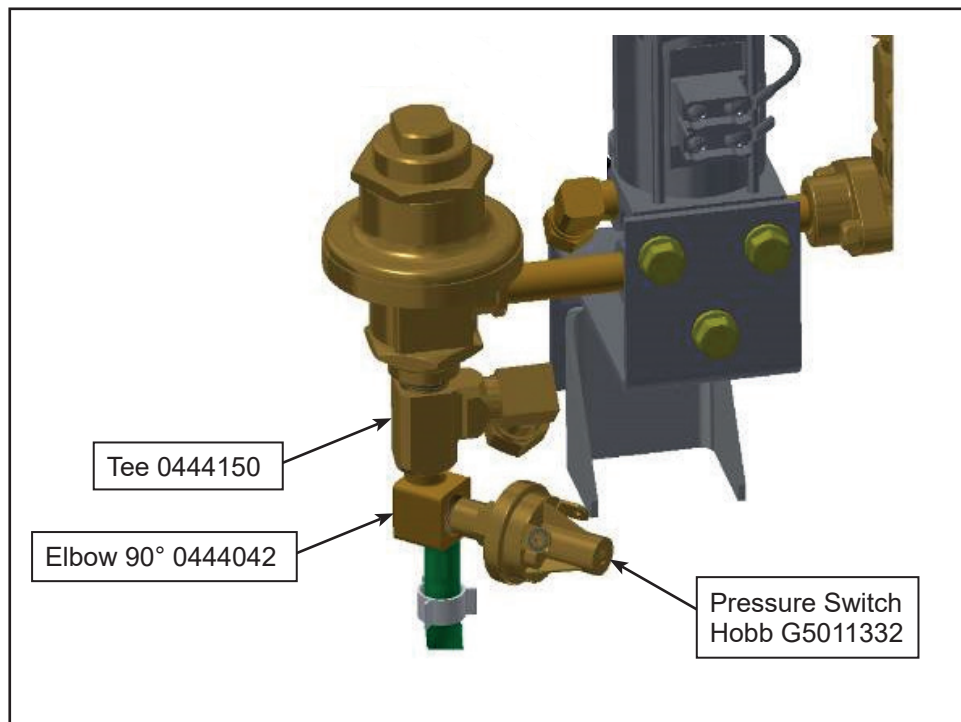


Figure 5 - Retain the Connectors

- 1.12. Connect the nipple P/N 0144598 to the new pressure regulator P/N N49129 and to the magnetic valve (see figure 6).
- 1.13. Install adapter P/N 0444014 on the pressure regulator.
- 1.14. Reinstall tee P/N 0444150 and elbow 90° P/N 0444042 on pressure regulator (see figure 6).

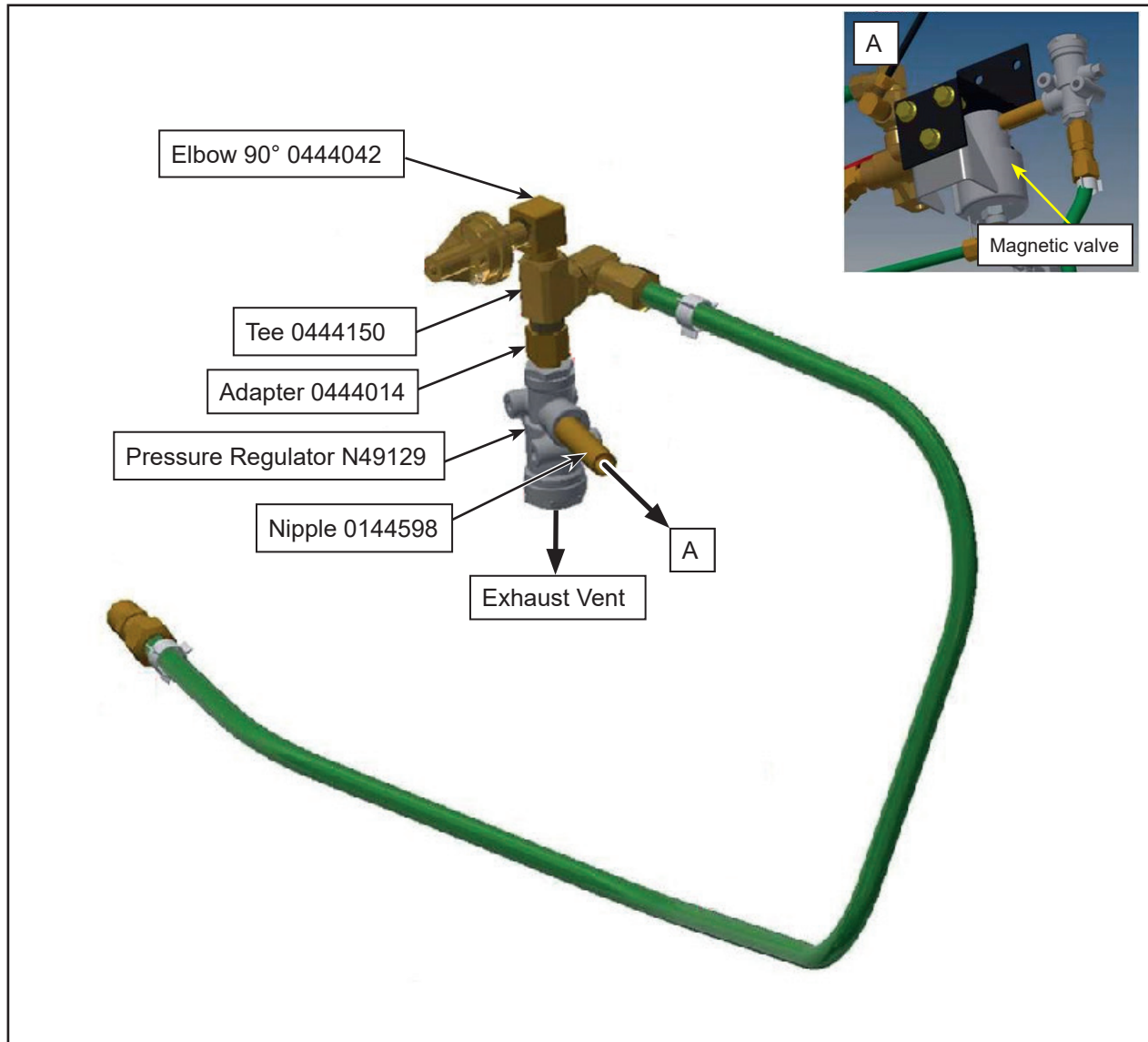


Figure 6 - Installation of New Pressure Regulator

- 1.15. Install elbow 90° P/N 0696467 along with tube P/N 8861149 on tee connector (see figure 7).
- 1.16. Connect the connector P/N 0696457 to other end of the tube on the dual brake valve and install the plastic film tape P/N N34357-07 (see figure 7).

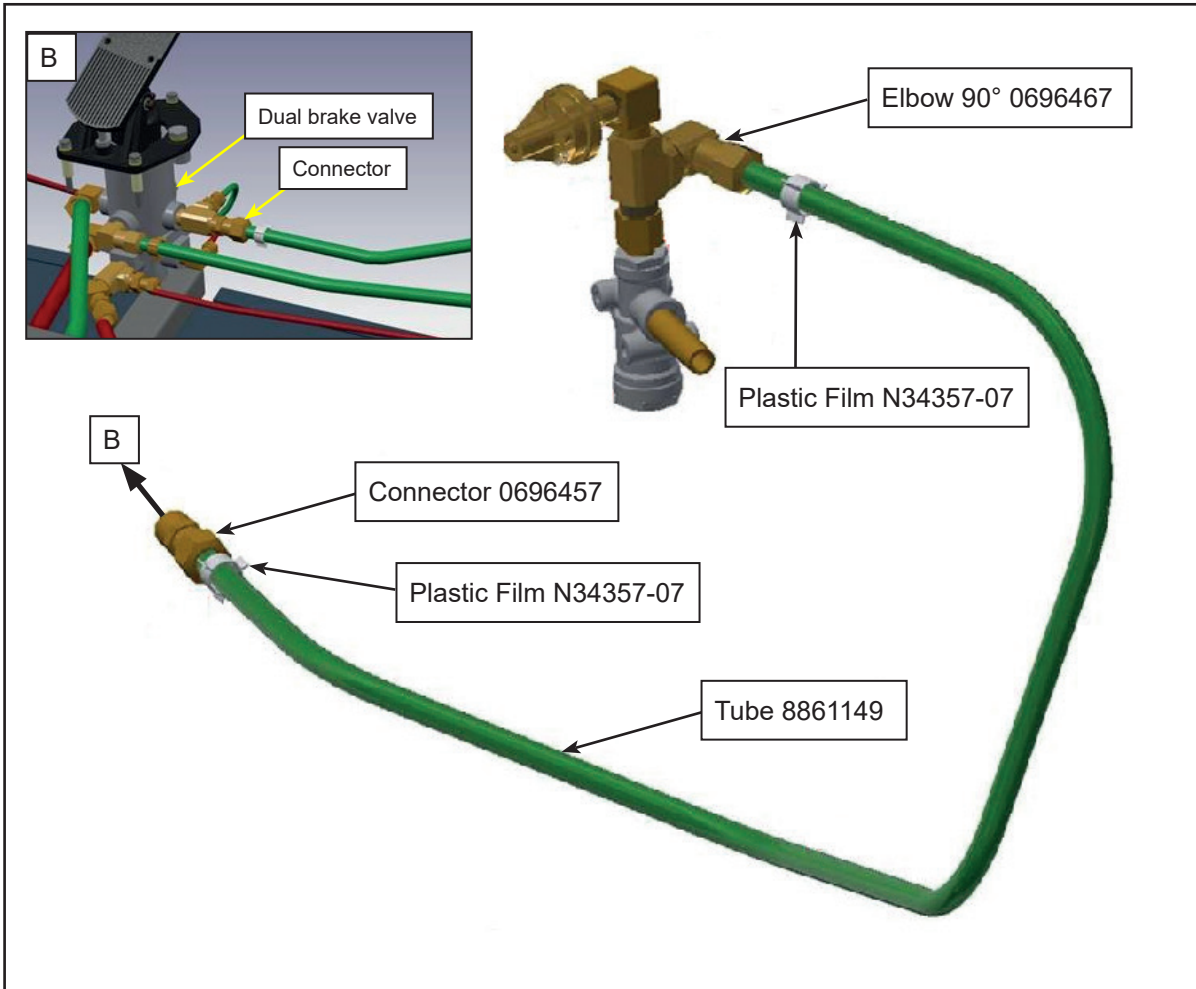


Figure 7 - Installation of Elbow and Connector

1.17. Reinstall the pressure switch hobb G5011332 to 90° elbow (see figure 8).

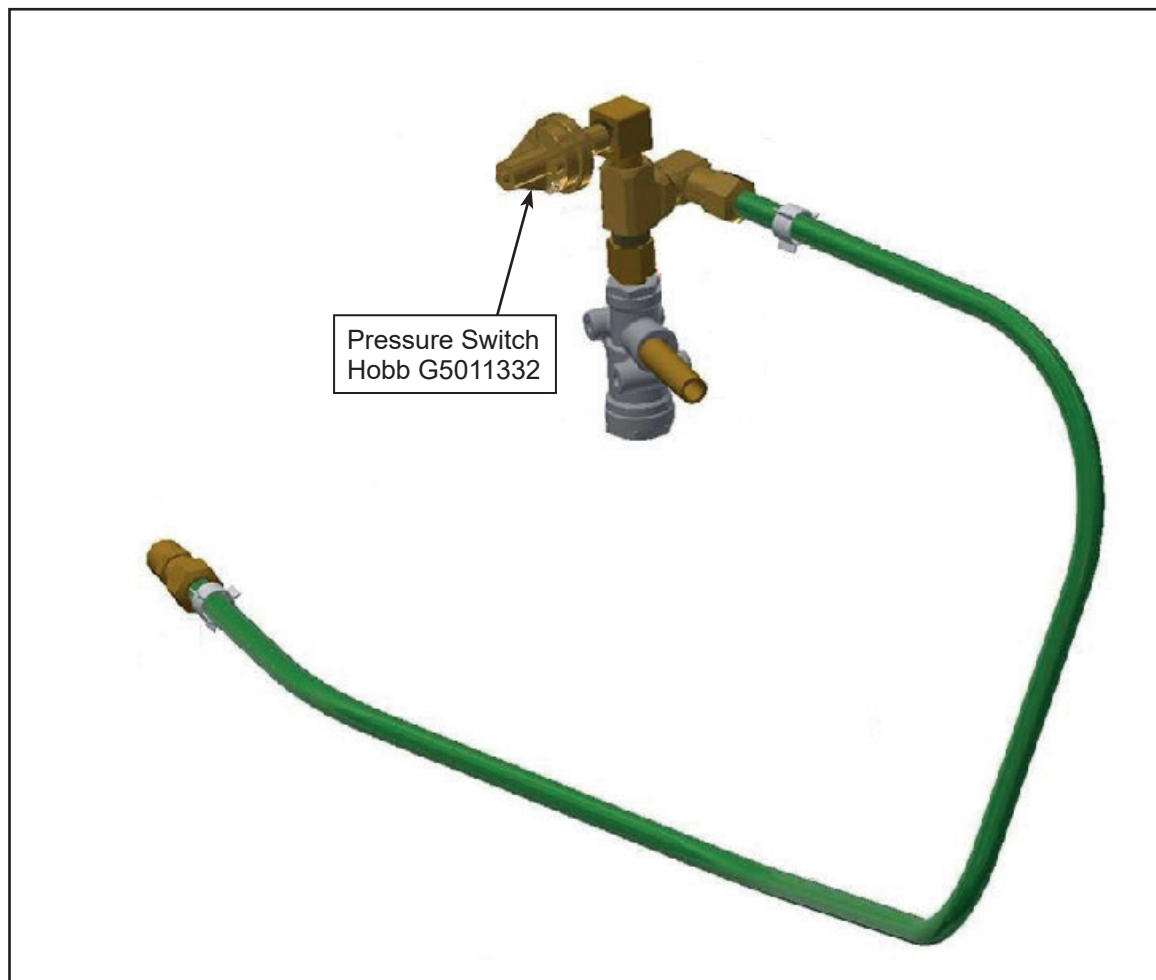


Figure 8 - Reinstallation of Pressure Switch Hobb

- 1.18. Pressurize the air system and make sure there is no leakage from the new installation.
- 1.19. Close the access panel.
- 1.20. Set the battery disconnect switch in the battery compartment to the **ON** position.
- 1.21. Return the bus to service.❖