

REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical System
RS N°:	MQR 7621-2677
EFFECTIVE IN PROD.:	2013OC
TC RECALL N°:	2023-610
NHTSA RECALL N°:	23V762

APPLICATION DEADLINES: N/A
CLAIM REFERENCE NUMBER: SR5507

SUBJECT:	Directional Foot Pedal Switch
JUSTIFICATION:	Some affected vehicles may have the turn signals that may become inoperative intermittently. In the event of a non-functioning turn signal, other drivers will not be warned that the vehicle is about to turn.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Inspect and correct, if necessary, the connection of the splice connectors.	Nova Bus	Nova Bus	20 min
2	–	–	–	–

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
4	G5007994	–	Cable Tie
LEVEL 2			
–	–	–	–

Materials will be available within 14 days once your order has been placed.

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	2023DE04	Initial release	Annie St-Jacques

APPROVED BY:

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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Ann Arbor Area Transportation Authority Michigan - AAATA	LE73	2200	2207	L82JXN977	L82J7N977	8
Brampton - Ontario	LE42	2201	2224	L82J7N375	L82J5N375	24
Chicago Transit Authority - CTA - Illinois	LD76	8350	8449	L82J0N977	L82J8N977	100
Chicago Transit Authority - CTA - Illinois	LE87	8450	8549	L82J5N977	L82J2P977	100
Chicago Transit Authority - CTA - Illinois	LF11	8550	8551	L82JXP977	L82J3P977	2
Chicago Transit Authority - CTA - Illinois	LF11	8553	8563	L82JXP977	L82J3P977	11
Chicago Transit Authority - CTA - Illinois	LF11	8565	8585	L82JXP977	L82J3P977	21
Chicago Transit Authority - CTA - Illinois	LF11	8592	8592	L82JXP977	L82J3P977	1
Chicago Transit Authority - CTA - Illinois	LF11	8597	8598	L82JXP977	L82J3P977	2
Chicago Transit Authority - CTA - Illinois	LF11	8623	8623	L82JXP977	L82J3P977	1
Chicago Transit Authority - CTA - Illinois	LF11	8626	8646	L82JXP977	L82J3P977	21
Grand River Transit - GRT - Ontario	LE71	22301	22301	L82M8P375	L82M8P375	1
Grand River Transit - GRT - Ontario	LE76	22201	22213	L82L4N375	L82LXN375	29
Moncton (Codiac) - New Brunswick	LF47	—	—	L82J7P375	L82J7P375	1
New York City Transit - NYCT - New York	LD08	8759	8963	L82J5M977	L82J8N977	205
New York City Transit - NYCT - New York	LD64	9786	9910	L82L0M977	L82L1M977	125
New York City Transit - NYCT - New York	LE84	8964	8966	L82J7N977	L82J7N977	3
New York City Transit - NYCT - New York	LE84	8972	8972	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	8977	8979	L82J7N977	L82J7N977	3
New York City Transit - NYCT - New York	LE84	8985	8985	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	8987	9005	L82J7N977	L82J7N977	19
New York City Transit - NYCT - New York	LE84	9007	9010	L82J7N977	L82J7N977	4
New York City Transit - NYCT - New York	LE84	9012	9014	L82J7N977	L82J7N977	3
New York City Transit - NYCT - New York	LE84	9017	9017	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	9019	9020	L82J7N977	L82J7N977	2
New York City Transit - NYCT - New York	LE84	9022	9022	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	9024	9025	L82J7N977	L82J7N977	2
New York City Transit - NYCT - New York	LE84	9027	9029	L82J7N977	L82J7N977	3
New York City Transit - NYCT - New York	LE84	9031	9031	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	9033	9038	L82J7N977	L82J7N977	6
New York City Transit - NYCT - New York	LE84	9040	9046	L82J7N977	L82J7N977	7
New York City Transit - NYCT - New York	LE84	9048	9049	L82J7N977	L82J7N977	2
New York City Transit - NYCT - New York	LE84	9051	9051	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	9060	9061	L82J7N977	L82J7N977	2
New York City Transit - NYCT - New York	LE84	9063	9063	L82J7N977	L82J7N977	1
New York City Transit - NYCT - New York	LE84	9067	9067	L82J7N977	L82J7N977	1
NFTA - Buffalo, New York	LE03	2261	2270	L82J3N977	L82J8N977	10
NFTA - Buffalo, New York	LF43	2315	2324	L82J7P977	L82J7P977	10
Puerto Rico Highway and Transportation Authority – PRHTA	LF14	23-01	23-09	L82J0P977	L82JXP977	9
San Juan Puerto Rico – AMA	LE06	2021-11	2021-17	L82JXM977	L82J5M977	7
San Juan Puerto Rico – AMA	LE83	2022-01	2022-11	L82J0N977	L82J3N977	11
San Juan Puerto Rico – AMA	LF41	2022-12	2022-12	L82J8P977	L82J8P977	1

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Sault Ste. Marie - Ontario - Metrolinx	LE56	—	—	L82J8N375	L82J3N375	3
Strathcona County Transit - Alberta	LE15	2034	2037	L82J2M375	L82J9M375	4
Thunder Bay - Ontario	LE47	239	240	L82J5N375	L82J7N375	2
Thunder Bay - Ontario	LE93	241	242	L82J9P375	L82J0P375	2
Timmins - Ontario - Metrolinx	LF10	22-107	22-107	L82JXP375	L82JXP375	1
Toronto Transit Commission - TTC - Ontario	LE65	7000	7008	L82L3N375	L82L9P375	9
Toronto Transit Commission - TTC - Ontario	LE65	7010	7011	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7014	7015	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7017	7017	L82L9P375	L82L9P375	1
Toronto Transit Commission - TTC - Ontario	LE65	7021	7029	L82L9P375	L82L9P375	9
Toronto Transit Commission - TTC - Ontario	LE65	7036	7041	L82L9P375	L82L9P375	6
Toronto Transit Commission - TTC - Ontario	LE65	7043	7043	L82L9P375	L82L9P375	1
Toronto Transit Commission - TTC - Ontario	LE65	7047	7048	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7051	7054	L82L9P375	L82L9P375	4
Toronto Transit Commission - TTC - Ontario	LE65	7057	7058	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7073	7074	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7077	7077	L82L9P375	L82L9P375	1
Toronto Transit Commission - TTC - Ontario	LE65	7079	7079	L82L9P375	L82L9P375	1
Toronto Transit Commission - TTC - Ontario	LE65	7081	7081	L82L9P375	L82L9P375	1
Toronto Transit Commission - TTC - Ontario	LE65	7084	7094	L82L9P375	L82L9P375	11
Toronto Transit Commission - TTC - Ontario	LE65	7097	7101	L82L9P375	L82L9P375	5
Toronto Transit Commission - TTC - Ontario	LE65	7104	7105	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7107	7109	L82L9P375	L82L9P375	3
Toronto Transit Commission - TTC - Ontario	LE65	7112	7113	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7117	7118	L82L9P375	L82L9P375	2
Toronto Transit Commission - TTC - Ontario	LE65	7121	7123	L82L9P375	L82L9P375	3
University of Alabama - Alabama	LF40	7040	7048	L82J0P375	L82J5P375	9
Woodstock - Ontario	LE60	2201	2202	L82J3N375	L82J5N375	2

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

PROCEDURE

- 1.1. Park the vehicle on an even surface with the transmission on neutral.
- 1.2. Apply the parking brake and set the master control switch to the **stop** position.
- 1.3. Set the battery disconnect switch in the battery compartment to the **off** position.
- 1.4. Locate the Directional Foot Pedal Switch next to the steering column (Figure 1).
- 1.5. Unscrew and remove the 2 front screws fixing the foot pedal bracket to the floor (Figure 2). Keep the screws.
- 1.6. Push the foot pedal bracket toward the front of the vehicle to release from the retaining plate.

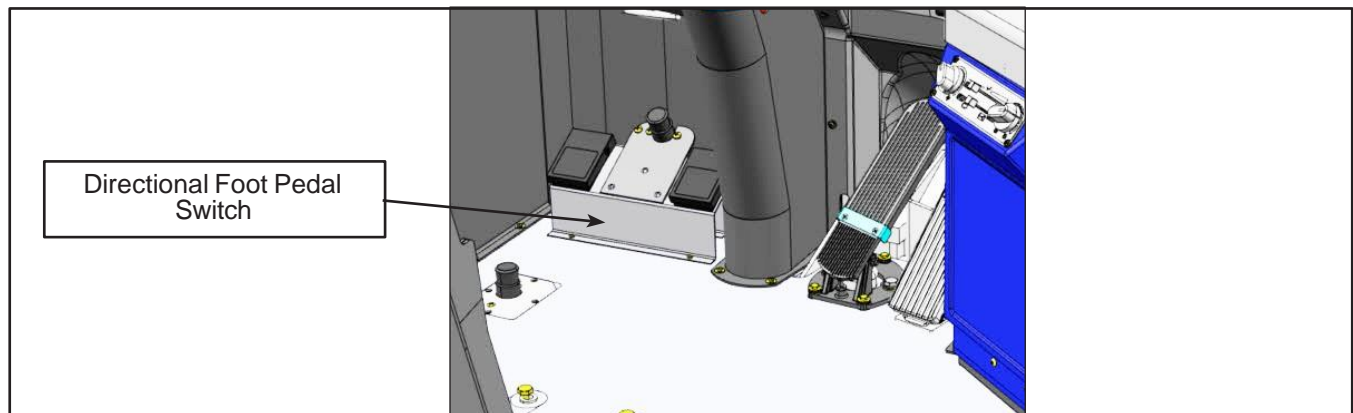


Figure 1 - Directional Foot Pedal Switch (Typical Installation)

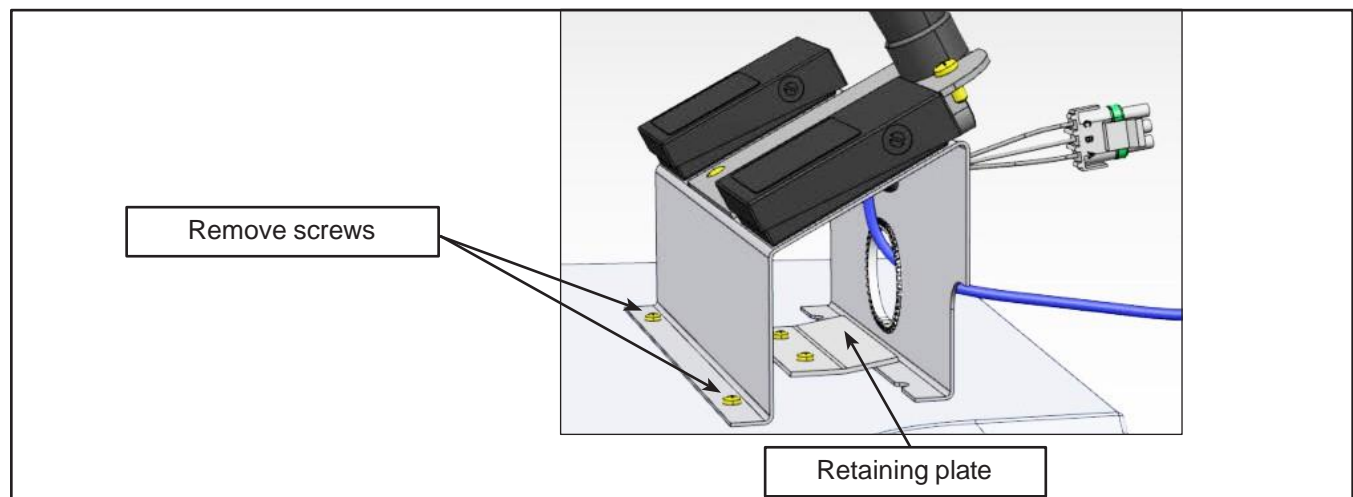


Figure 2 - Directional Foot Pedal Switch Installation

- 1.7. Disconnect the cables from vehicle harness and take out the foot pedal. Note: 1 or 2 cables depending on vehicle configuration.
- 1.8. Under the foot pedal locate the 5 splice connectors (Figure 3).



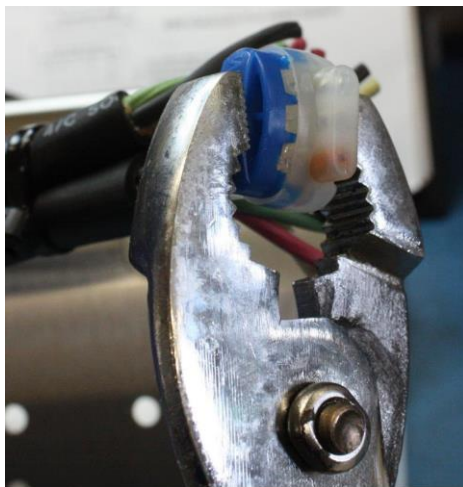
Figure 3 - Pigtails with Splice Connectors



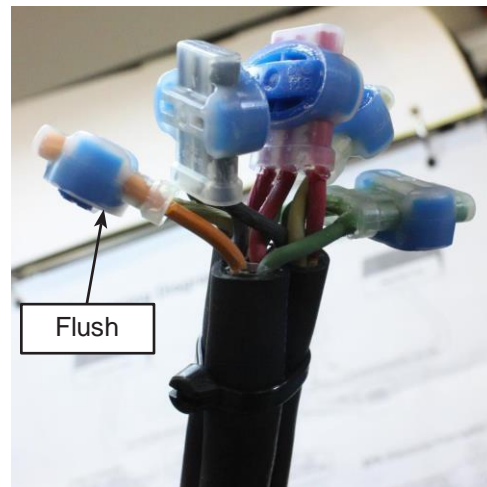
NOTE

Step 1.9 presents instructions provided by Transtech Innovations from their document IP-DBL-60MA Pigtail Inspection (see complete document in Annex A). Nova Bus cannot be held responsible for these instructions.

- 1.9. Inspect the 5 splice connectors with pliers or Channellock pliers by making sure that the blue part of the connector is completely inserted (flush) into the translucent part.



Pliers



Pigtail

- 1.10. If needed, secure the pigtail under the pedal with cable ties G5007994.
- 1.11. Reconnect the cables to the vehicle harness.
- 1.12. Replace the foot pedal support and secure to the floor with the 2 screws previously removed.
- 1.13. If needed, secure cables with cable ties G5007994.
- 1.14. Set the battery disconnect switch in the battery compartment to the **on** position.
- 1.15. Test the directional foot pedal switches.
- 1.16. The vehicle can return in service. ❖

ANNEX A



DOCUMENT NAME:

IP-DBL-60MA PIGTAIL INSPECTION

USED IN THE QUALITY PROCESS:

PRODUCTION

Document History				
Rev. No	Description	Date (YYYY-MM-DD)	Prepared by	Validated by
0	Initial Release	2023-10-12	S.S.	S.S.

Document Number	Revision
PP-IP-DBL-60MA-PIGTAIL-INSPECTION	0

Signatures		
<p>Prepared by</p> <p><i>Pour PLC</i> 2023.10.12 11:51:50 -04'00'</p> <p>PIER-LUC CÔTÉ Engineering</p>	<p>Verified by</p> <p><i>S. Surprenant</i> 2023.10.12 12:35:36 -04'00'</p> <p>STÉPHANE SURPRENANT Quality Manager</p>	<p>Approved by</p> <p><i>Joël Martin</i> 2023-10-12</p> <p>JOËL MARTIN General Manager</p>

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A. PURPOSE

This procedure has for purpose of ensuring that pigtails on IP-DBL-60MA-LSHS are conforming to production process.

B. APPLICATION

This procedure applies to IP-DBL-60MA-LSHS.

C. RELATED DOCUMENTS

This document refers to the latest revision of the following documents:

- N/A

1. REQUIRED EQUIPMENT

The required equipment to do this inspection is simply pliers or channel lock pliers that can operate to get the blue part at the right place in the translucent part (see picture below).

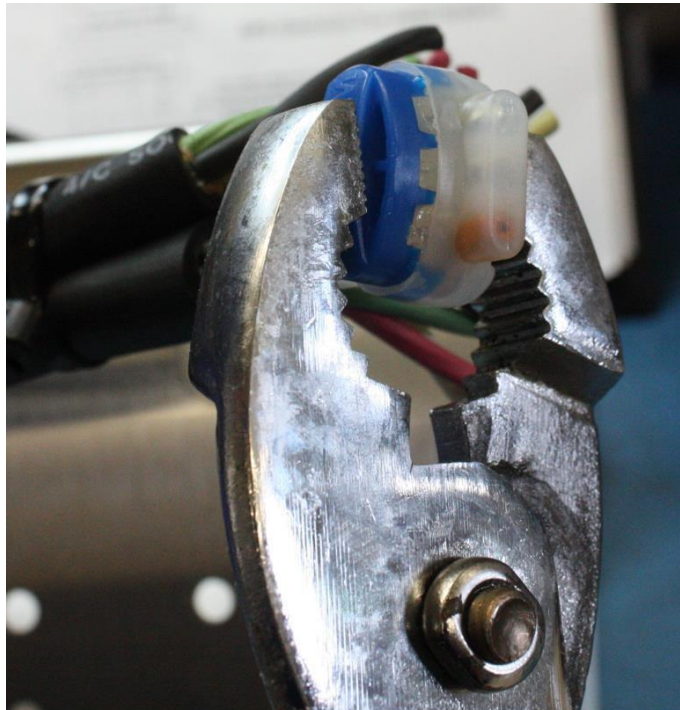


Figure 1 – Pliers

2. INSPECTION

The position of the blue part must be completely in the translucent part (see picture below).

You must make sure that blue part is flush to the translucent part.

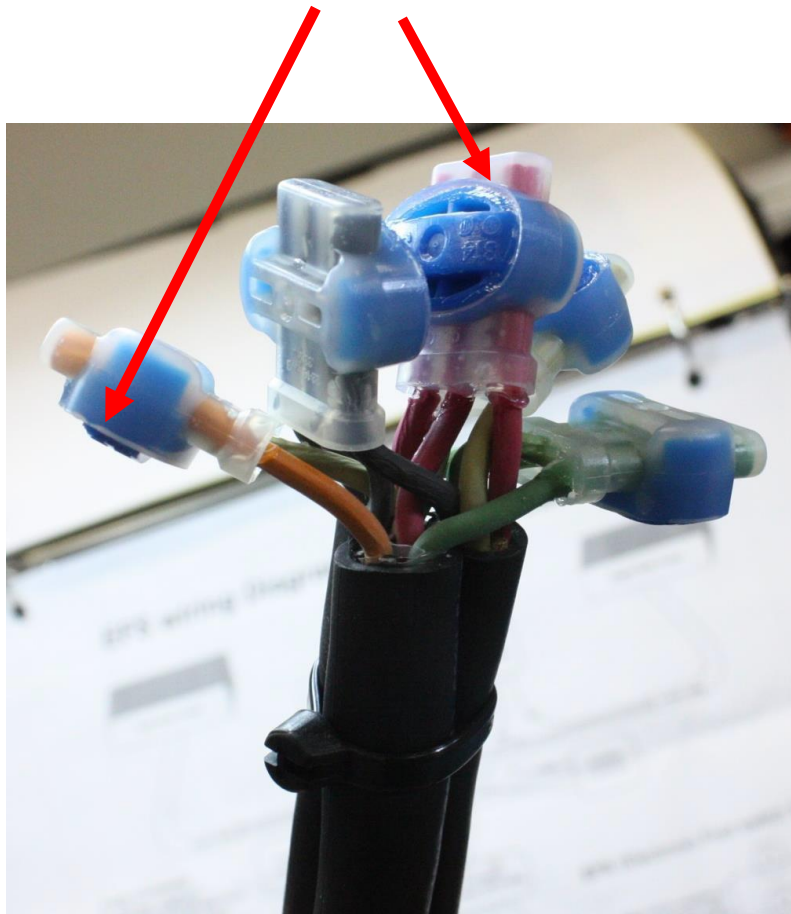


Figure 2 – Pigtail

Once the inspection of a bus is completed, tracking sheet must be filled to insure proper follow up of the work. Tracking sheet can be duplicated if more entries are needed.

IP-DBL-60MA PIGTAIL INSPECTION

Transtech Innovations

TRACKING SHEET

	Bus serial #	IP-DBL-60MA serial #	Done by	Date (YYYY-MM-DD)	Comments/Notes
1					
2					
3					
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