REFERENCE:	Nova Bus Manuals
SECTION:	05: Axles
RS Nº:	MQR 7621-1656
EFFECTIVE IN PROD.:	LB58 (2018NO)

APPLICATION DEADLINE: N/A

SUBJECT:	Brake wear indicator harnesses
JUSTIFICATION:	Brake wear signal reads 0% or fluctuates

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Inspect the front and rear axle harnesses	Client	Client	48 min
2	Repair damaged wires, terminals and/or connectors	Client	Client	60 min

MATERIAL

QTY	PART Nº	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
2	G5007995	–	Cable tie	–
LEVEL 2				
1	N36020-06	–	Connector Plug Deutsch 3-Way	–
3	N25840	–	Terminal female (20-16 AWG) – Plug Side	–
1	N36022-06	–	Wedge Lock – Plug Side	–
1	N36020-05	–	Connector Receptacle Deutsch 3-Way	–
3	N26326	–	Terminal male (20-16 AWG) – Receptacle Side	–
1	N36022-05	–	Wedge Lock – Receptacle Side	–

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.

Note: Level 2 parts are not included in the level 1 kit. Please pre-order the required quantity of the level 2 parts needed for the anticipated repairs.

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	2018-11-26	Initial release	Marc Rougeau

APPROVED BY: Daniel Theriault

Digitally signed by Daniel Theriault
DN: cn=Daniel Theriault, o=Nova Bus, ou, email=daniel.theriault@volvo.com, c=CA
Date: 2018.11.27 14:20:04 -05'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Arrow Coach Line - Arkansas	L494	—	—	L82U793000397	L82U793000397	1
Austin - CMTA - Texas	L704	5051	5068	L82J7E4500471	L82J2E4500488	18
Austin - CMTA - Texas	LA18	5151	5158	L82J0H9775770	L82J3H9775777	8
Bow Valley Transit - Alberta	LA28	—	—	L82J6H9776308	L82J4H9776310	3
Central Oklahoma Transportation Authority	L619	—	—	L82X7C3000367	L82X7C3000367	1
Chicago Transit Authority - CTA - Illinois	L773	—	—	L82JXD4500429	L82J6D4500430	2
Chicago Transit Authority - CTA - Illinois	L811	7902	7949	L82J6E4500509	L82J4E4500556	48
Chicago Transit Authority - CTA - Illinois	L837	7950	7999	L82J6E4500655	L82J1E4500708	50
Chicago Transit Authority - CTA - Illinois	L847	8000	8049	L82J1E4500773	L82JXE4500822	50
Chicago Transit Authority - CTA - Illinois	L848	8050	8099	L82JXF4500823	L82J1F4500872	50
Chicago Transit Authority - CTA - Illinois	L850	8150	8199	L82J5F4500924	L82J6G9775013	50
Chicago Transit Authority - CTA - Illinois	L943	8200	8324	L82JXG9775225	L82J3G9775406	125
Chicago Transit Authority - CTA - Illinois	LB58	8325	8349	L82J7J9776906	L82J8J9776946	25
Clemson Area Transit - South Carolina (ref. L641)	L722	—	—	L82U1C4500005	L82U5C4500010	5
Démo US	LA13	—	—	L82J4G9775611	L82J5G9775620	10
Démo-2017	L980	—	—	L82J1G9775565	L82J9G9775569	3
Duke University - North Carolina	L938	-	-	L82L8G9775399	L82L0G9775400	2
Duke University - North Carolina	LB08	—	—	L82L9J3751562	L82L2J3751578	3
Duke University - North Carolina	LA38	—	—	L82L9H9775994	L82L9H9775994	1
Hampton Roads - Virginia (L754)	L802	—	—	L82U1D4500278	L82UXD4500408	7
Honolulu - Hawaii	L559	201	224	L82U6A4000113	L82U7A4000136	24
Houston - Texas	L951	1915	1915	L82J0G9775203	L82J0G9775203	1
Houston - Texas	L981	1916	1994	L82J8G9775434	L82J4G9775513	79
Houston - Texas	LB63	2050	2050	L82K2J9776708	L82K2J9776708	1
Houston NG	LB72	—	—	L82K6J9776887	L82K4J9776905	19
Marketing Sales Demo - MSD 6 Houston	L628	—	—	L82U8C4500003	L82UXC4500004	2
Minnesota Valley Transit Authority - MVTA	L706	4252	4258	L82U4C4500127	L82UXC4500133	7
Puerto Rico (ref. L754)	L788	—	—	L82UXD4500277	L82U0D4500305	16
San Antonio Texas	L990	-	-	L82K5G9775464	L82K5G9775464	1
San Antonio Texas	LA10	422	446	L82K9G9775628	L82K8G9775653	25
San Antonio Texas	LA22	447	555	L82K8H9775654	L82K0H9775762	109
San Antonio Texas	LA34	556	580	L82K0H9775857	L82K8H9775881	25
San Antonio Texas	LA35	581	691	L82KXH9775882	L82K8H9775993	111
San Antonio Texas	LB26	692	735	L82KXJ9776536	L82K6J9776579	44
San Antonio Texas	LB43	970	987	L82K4J9776791	L82K1J9776828	18
SEPTA - Pennsylvania	L728			L82W7D4500335	L82W7D4500335	1
SEPTA - Pennsylvania	L744	8601	8689	L82L7E4500570	L82LXE4500661	89
University of Alabama - Alabama	L479	479-1	479-1	L82U394000002	L82U394000002	1
University of Alabama - Alabama	L480	480-1	480-1	L82U594000003	L82U594000003	1
University of Alabama - Alabama	L573	—	—	L82U9A4000137	L82U0A4000138	2
University of Alabama - Alabama	L640	—	—	L82U9B4000141	L82UOB4000142	2

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
University of Alabama - Alabama	L671	7024	7025	L82U5C4500119	L82U1C4500120	2
University of Alabama - Alabama	L727	7026	7027	L82U4D4500310	L82U6D4500311	2
University of Alabama - Alabama	L787	7028	7029	L82J2E4500507	L82J4E4500508	2
University of Alabama - Alabama	L902	7030	7030	L82J2F4500993	L82J4F4500994	2
University of Alabama - Alabama	L961	7032	7033	L82J7G9775294	L82J9G9775295	2
University of Alabama - Alabama	LA02	7034	7037	L82J8G9775546	L82JXG9775550	4
Walt Disney World - Florida	L535	1204	1213	L82UXA4000003	L82U0A4000012	10

WARNING

Follow your internal safety procedures.

PROCEDURE

LEVEL 1: INSPECTION

1.1. Park the vehicle on level ground with the transmission in the neutral (N) position and apply the parking brake.

1.2. Place the master control switch in the stop position (see Figure 1).

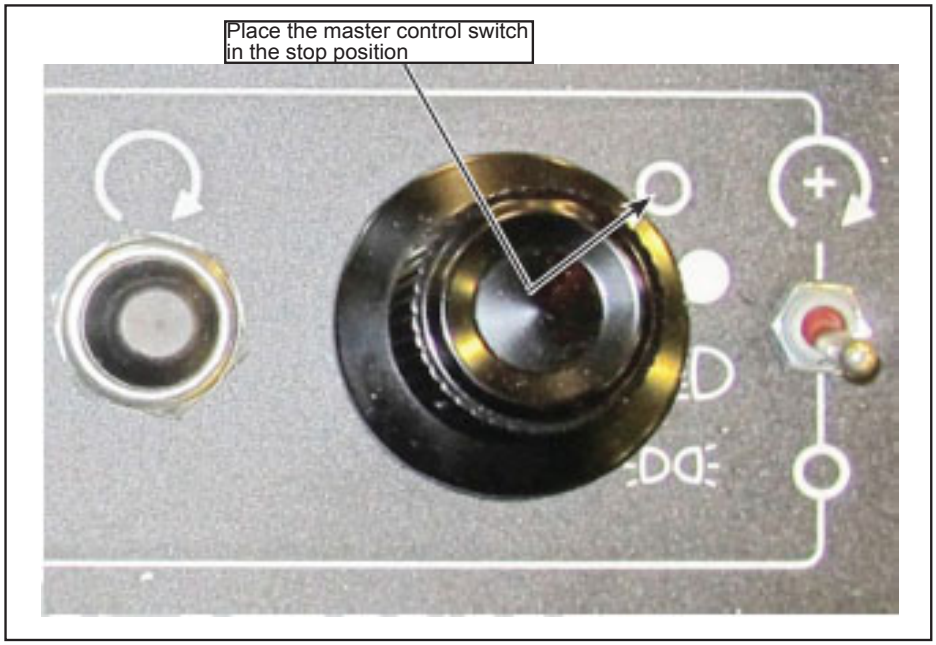


Figure 1 - Master Control Switch in the Stop Position

1.3. Place the battery disconnect switch in the off position. Follow your local lock-out procedure (see Figure 2).

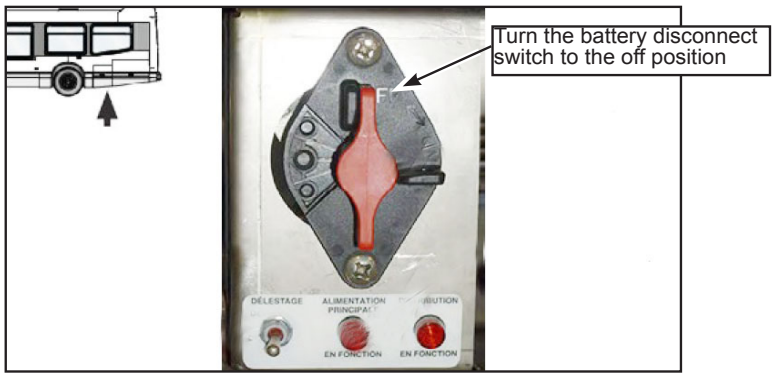


Figure 2 - Battery Disconnect Switch in the Off Position

1.4. Lift the vehicle to access the harness locations (see Figure 3).

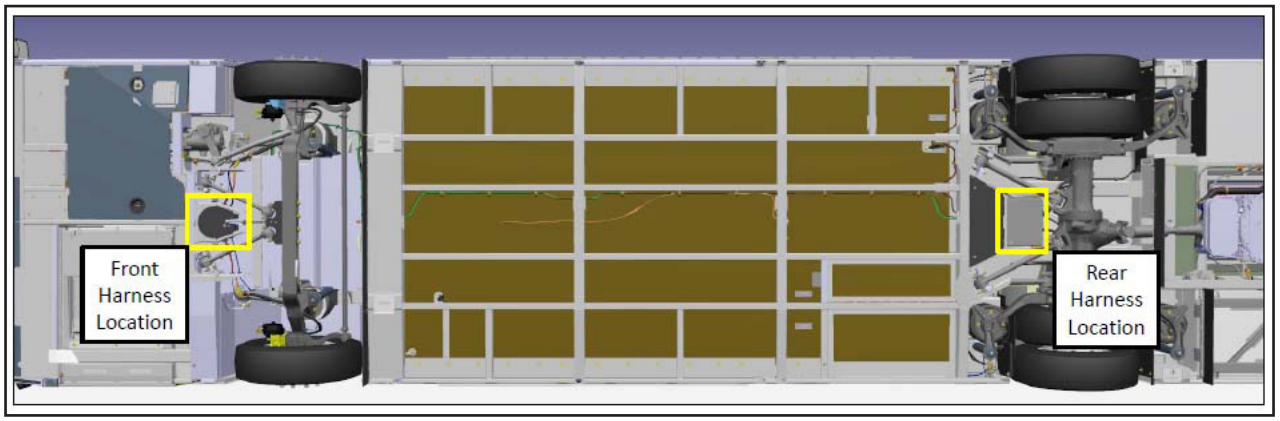


Figure 3 - Harness Locations

1.5. To access the front harnesses, remove and retain the two M6 bolts and slide out the dust pan (see Figure 4).

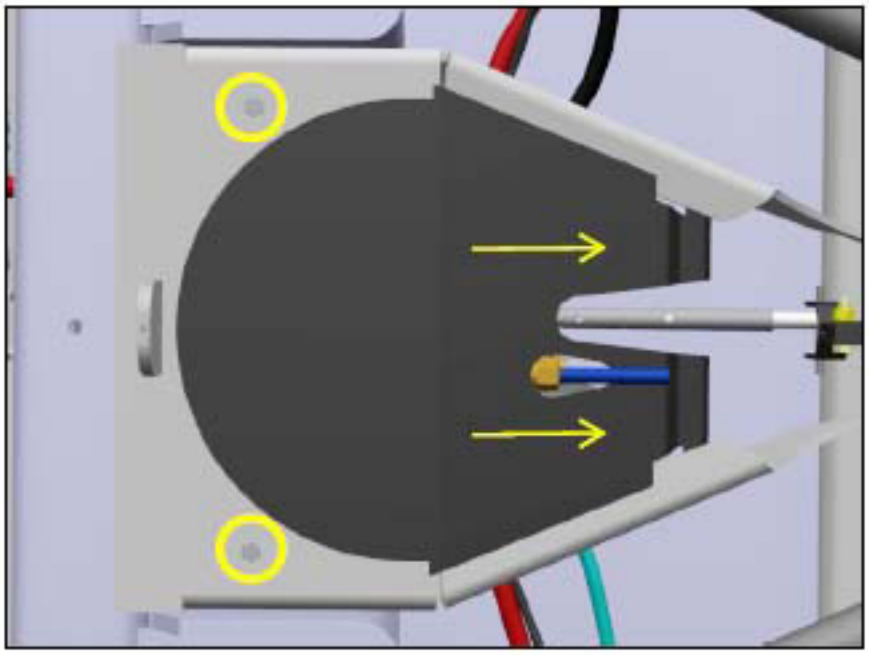


Figure 4 - Dust Pan Removal to Access the Front Harnesses

1.6. To access the rear harnesses, remove and retain the four M8 hex nuts and slide out the brake valve cover (see Figure 5).

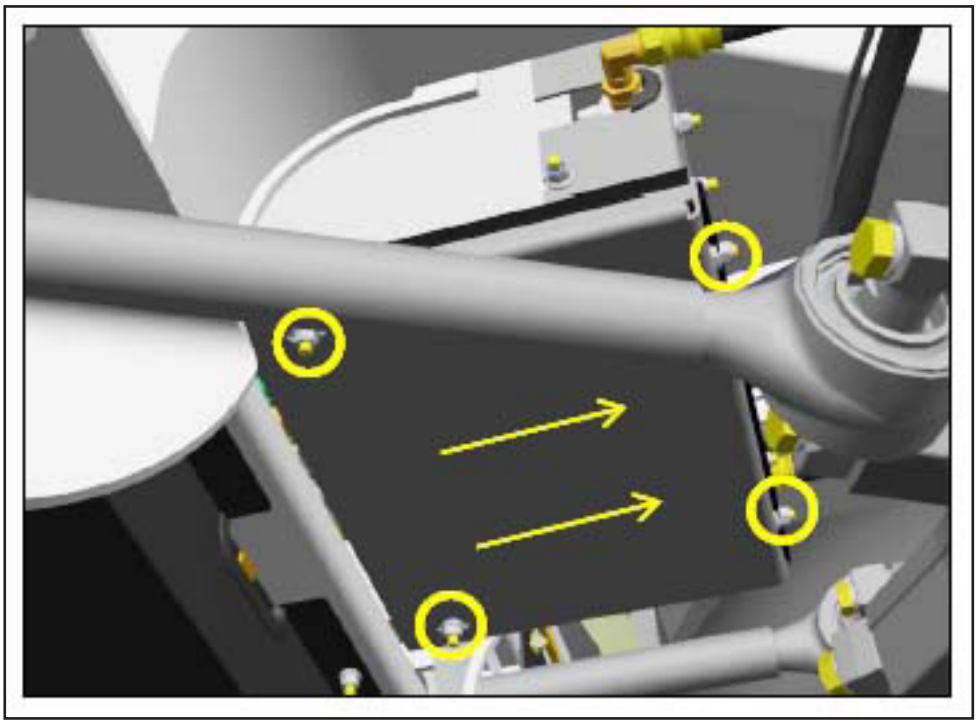
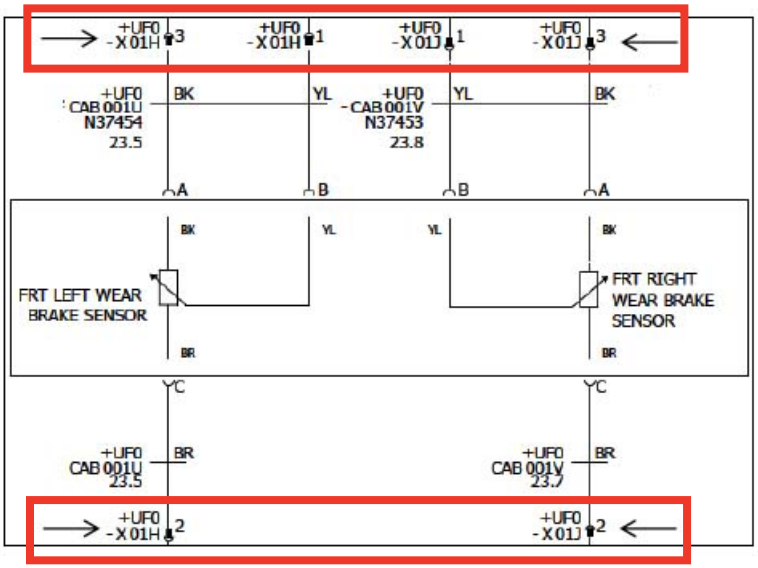


Figure 5 - Brake Valve Cover Removal to Access the Rear Harnesses

1.7. Carefully inspect the wiring of both front harnesses, +UF0-X01H and +UF0-X01J, for any signs of wire chafing corrosion or wire seal damage. Remove any cable ties that may prevent complete wiring inspection (see Figure 6).



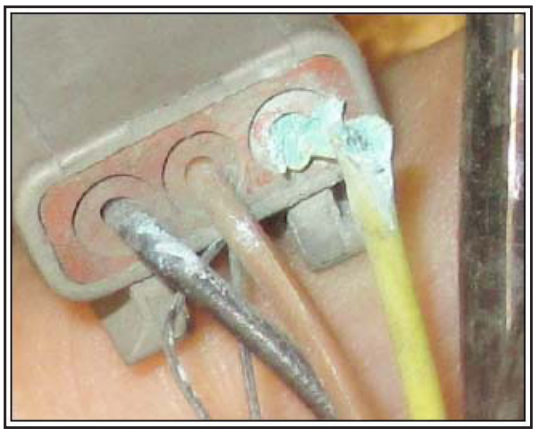


Figure 6 - Inspect the Wiring of the Front Harnesses

1.8. Carefully inspect the wiring of both rear harnesses, +UF5-X05A and UF5-X05B, for any signs of wire chafing, corrosion or wire seal damage. Remove any cable ties that may prevent complete wiring inspection (see Figure 7).

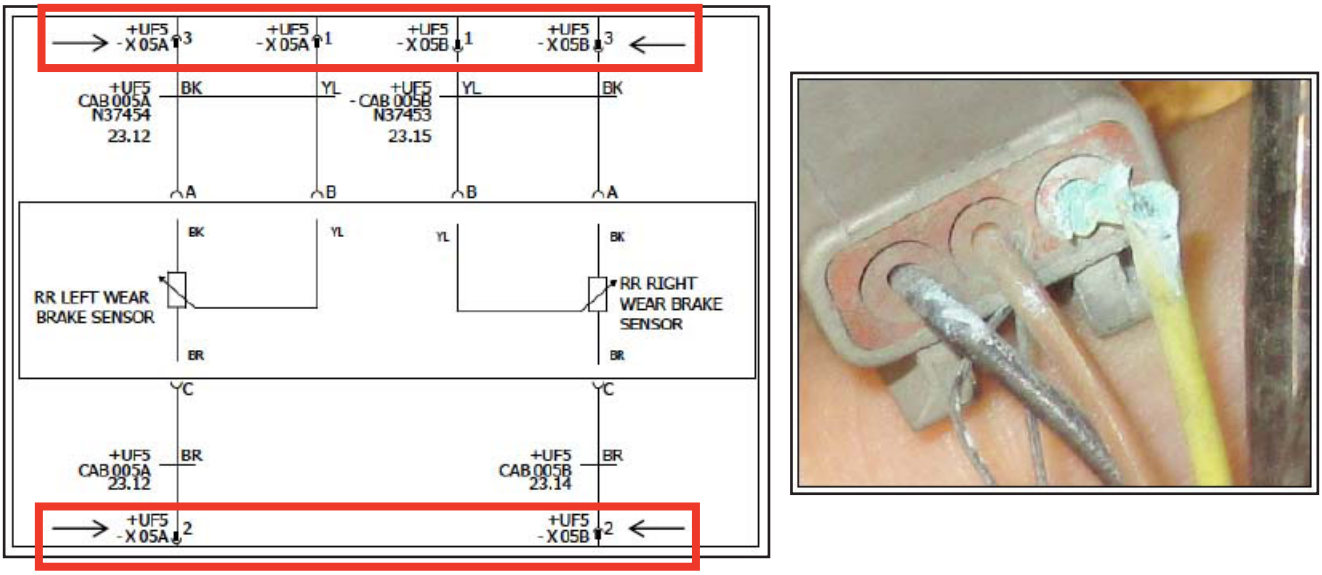


Figure 7 - Inspect the Wiring of the Rear Harnesses

1.9. If the wiring or the parts need to be repaired or replaced, go to step 2.1. If there is no damage, go to step 2.5.

LEVEL 2: REPAIR

2.1. Extract the 3 wires for each damaged connection with the Deutsch extraction tool.

2.2. Cut 1 inch from each wire and crimp new terminals (see Figure 8).

2.3. Insert the 3 repaired wires into the Deutsch connector (see Figure 8).

2.4. Install the wedge lock (see Figure 8).

Note: Refer to Figure 6 and Figure 7 for the connector pinout (wire color vs. position). If the wiring needs to be repaired on the Nova Bus harness side, follow steps 2.1 to 2.4. However, install the mating terminals and connectors.

LEFT side harness (N37453) part numbers:

- Terminals: N25840
- Connector: N36020-06
- Wedge Lock: N36022-06

RIGHT side harness (N37454) part numbers:

- Terminals: N26326
- Connector: N36020-05
- Wedge Lock: N36022-05

Figure 8 - Applicable Part Numbers

2.5. Secure the harnesses, free of any wiring stress and with sufficient clearance to avoid any chafing against the structure and/or surrounding parts. Bundle the harness excess length with cable ties (see Figure 9).

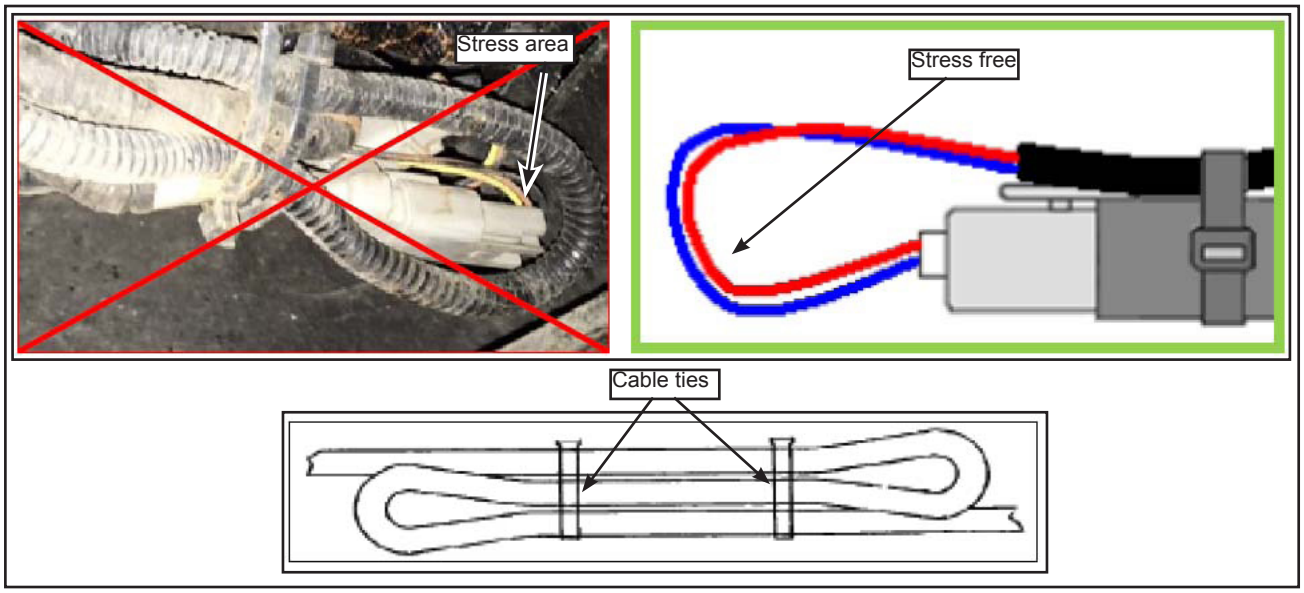


Figure 9 - Secure the Harnesses

2.6. Reinstall the dust pan and brake valve cover, recommission the vehicle.

2.7. Return the bus to service.❖