



# INSTRUCTION TO SERVICE

ITS-60648		03/01/2023
<b>SECTION:</b>	204 - REAR SUSPENSION	
<b>WRITTEN BY:</b>	Michael Rooney	
<b>SUBJECT:</b>	Re-route center axle ABS harness wires & add convolute tube.	
<b>ISSUE:</b>	ABS harness wires may get pinched between brake calipers and axle housing.	
<b>SUMMARY:</b>	Re-route ABS harness wiring & add protective conduit.	

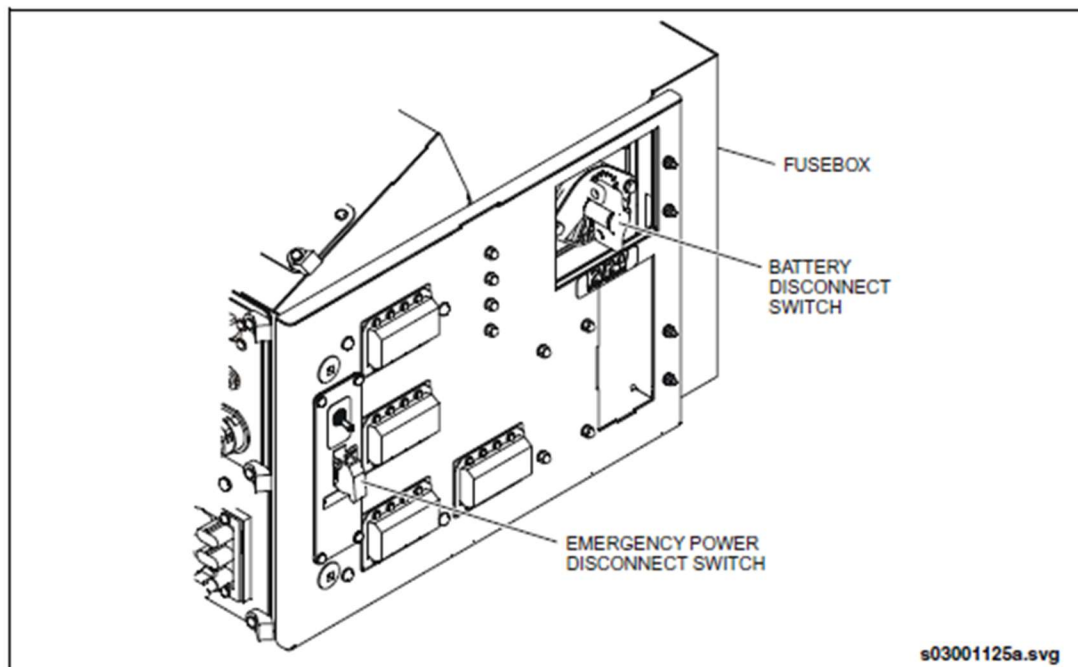
# ITS-60648

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

**THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.**

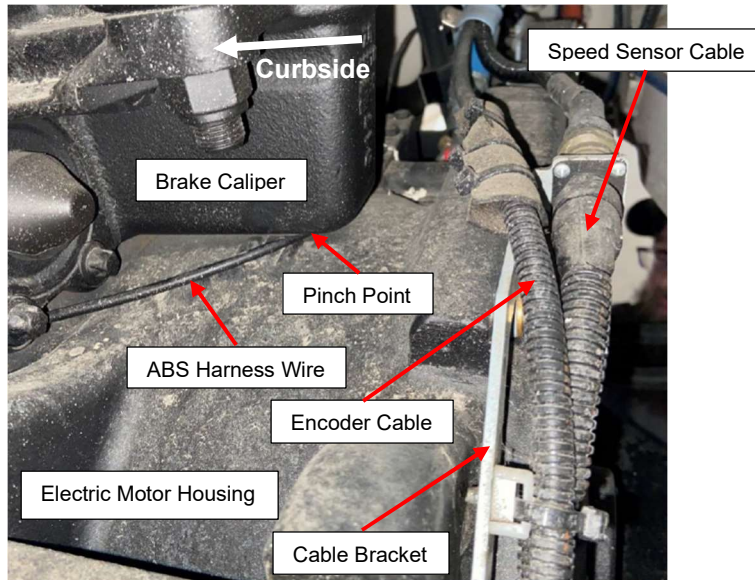
## PROCEDURE:

1. Set the parking brake and chock the wheels.
2. Open the access door at the curbside rear of the bus and locate the Emergency Power Disconnect Switch and Battery Disconnect switches. Figure 1.
3. Turn off the Emergency Power Disconnect Switch. Figure 1.
4. Rotate the Battery Disconnect Switch to the off position. Figure 1.



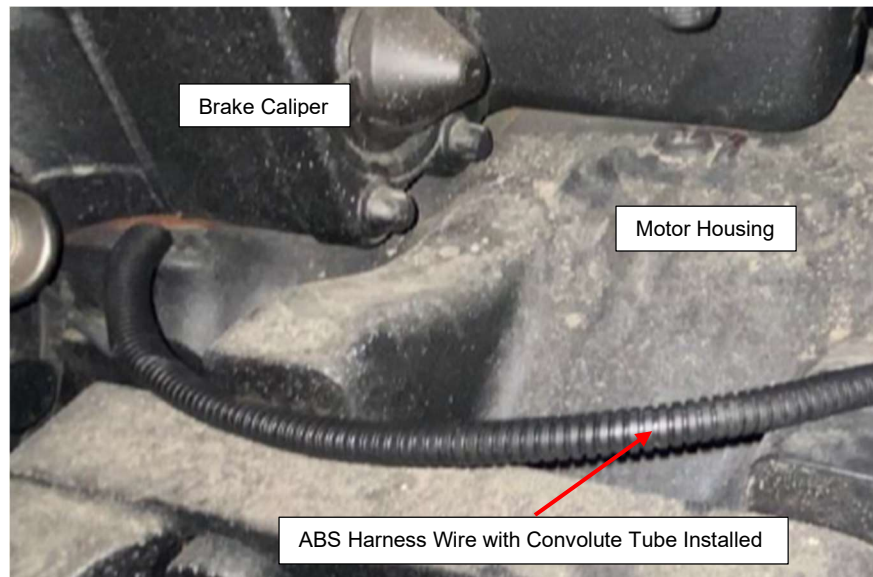
**Figure 1: Electrical Disconnect Switches.**

5. Raise the bus in accordance with procedure in the Service Manual.
6. Locate the curbside center axle ABS sensor harness and inspect the area of the harness between the brake caliper and motor housing for damage such as cuts or abrasions that penetrate the outer jacket. This area is a potential pinch point for the ABS sensor harness. If the ABS harness is damaged it should be replaced. See the Maintenance Manual for steps on how to replace the ABS sensor and harness.



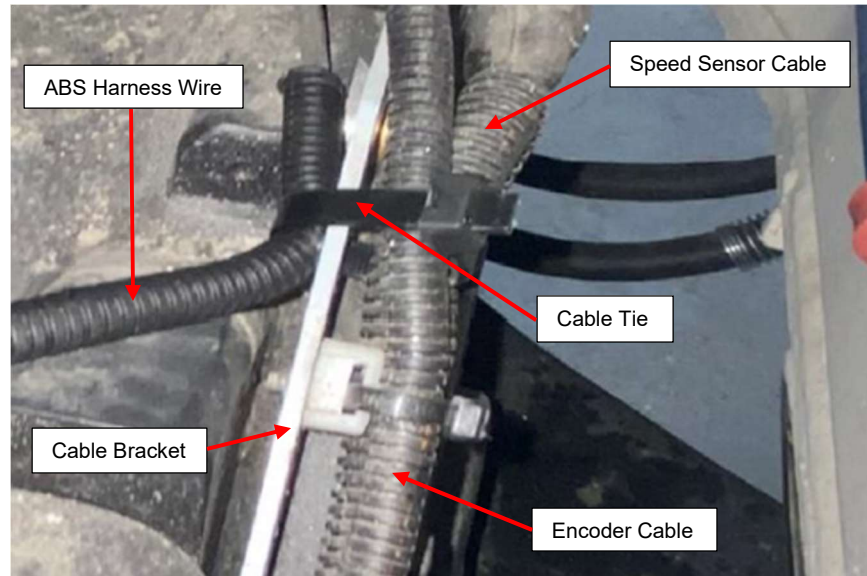
**Figure 2: Existing Curbside ABS Harness Routing (viewed looking rearward)**

7. Cut a 2.0 FT section of split convolute tube NF P/N 9210067 and install the convolute on the ABS sensor pigtail starting from the wheel end.
8. Re-route the ABS harness wire to the encoder cable so that the ABS harness wire is clear of the pinch point between the caliper and the motor housing.

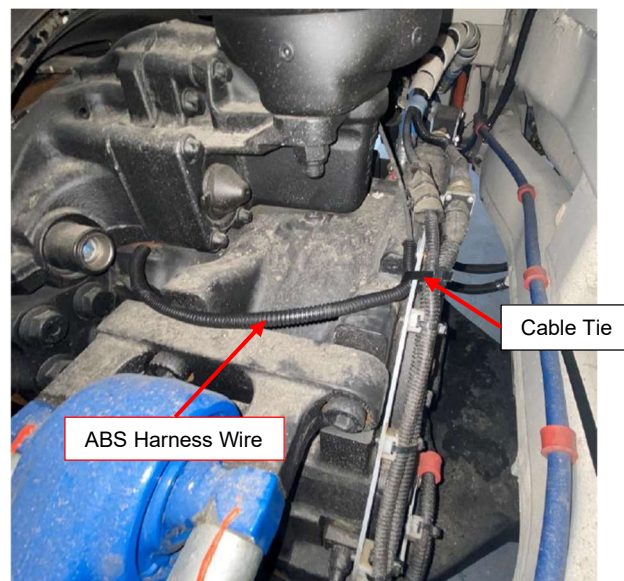


**Figure 3: Re-routed ABS Harness Wire with Convolute Tube Installed**

9. Attach the ABS harness wire to the encoder cable, speed sensor cable and cable bracket using a cable tie NF P/N 351161.



**Figure 4: ABS Sensor Harness Wire Attachment Point.**



**Figure 5: Re-routed Curbside ABS Harness Wire.**

10. Locate the ABS harness wire on the street side of the center axle and repeat Steps #6 to #9 to re-route the ABS harness to match the curbside.
11. Remove all tools and debris from work area to return coach to service.
12. Lower the bus in accordance with procedure in the Service Manual.



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13. Rotate the Battery Disconnect Switch to the on position. Figure 1.

14. Turn on the Emergency Power Disconnect Switch. Figure1.



<b>LABOUR ESTIMATE</b>				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Re-route ABS wire & add convolute tube.	1	1.0	

<b>PARTS REQUIRED</b>					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	921580	TUBE – CONVOL 0.38 SPLIT	4	FT	
2	351161	CABLETIE-WIDE HEAVY DUTY	2	EA	

<b>SPECIAL TOOLS REQUIRED</b>					
Item	Part Number	Description	Qty.	Units	Notes
1					