



INSTRUCTION TO SERVICE

ITS60598		January 4, 2023
SECTION:	260-BATTERY COMPARTMENT	
WRITTEN BY:	SUMAN SURI	
SUBJECT:	Replace standard grade Motor Inverter fuse	
ISSUE:	The ELFA3 standard grade buses have demonstrated nuisance tripping of the motor inverter fuse.	
SUMMARY:	The traction fuse 250A for the ELFA3 standard grade (SG) motor (motor PN 820570) must be upgraded to 350A.	

ITS60598

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.



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SAFETY PROCEDURE:

1. Turn the MRS to the off position and wait 5 minutes before proceeding to the next step.
2. Turn the main battery disconnect and HV interlock switch to the “OFF” position.
3. Perform the Lock Out Tag Out procedure.
4. Perform the applicable de-energizing procedure before moving to the next step in this ITS

NOTE: Refer to the Lockout/Tagout Procedure and De-Energizing Procedures in section 9 of the New Flyer Service Manual.

NOTE: Use commercially available lock out equipment and tags being sure to follow any local laws or workplace procedures.

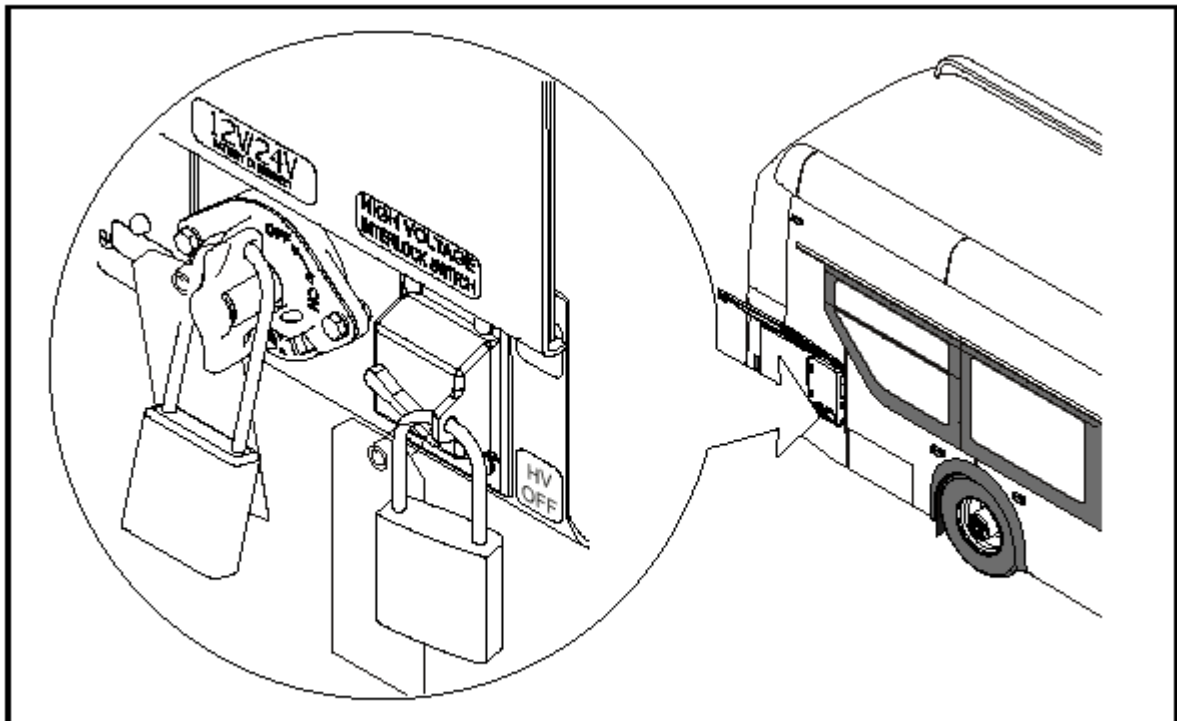


Figure 1: Lockout tagout location reference.

REWORK PROCEDURE:

1. Open the engine door to get access to rear HV fuse box
2. Unscrew the 4 screws holding the front cover and remove the front cover
3. Locate the FUSE – 250A HV DC1700M1760 at the bottom of the rear inverter rack as marked in fig. 2.
4. Use 13 mm socket to remove the bolts of the fuse mentioned above.
5. Replace FUSE 250A with FUSE – 350A HV DC170M1762 as shown below and torqued the new fuse to 15 NM (11 FT-LBS dry).

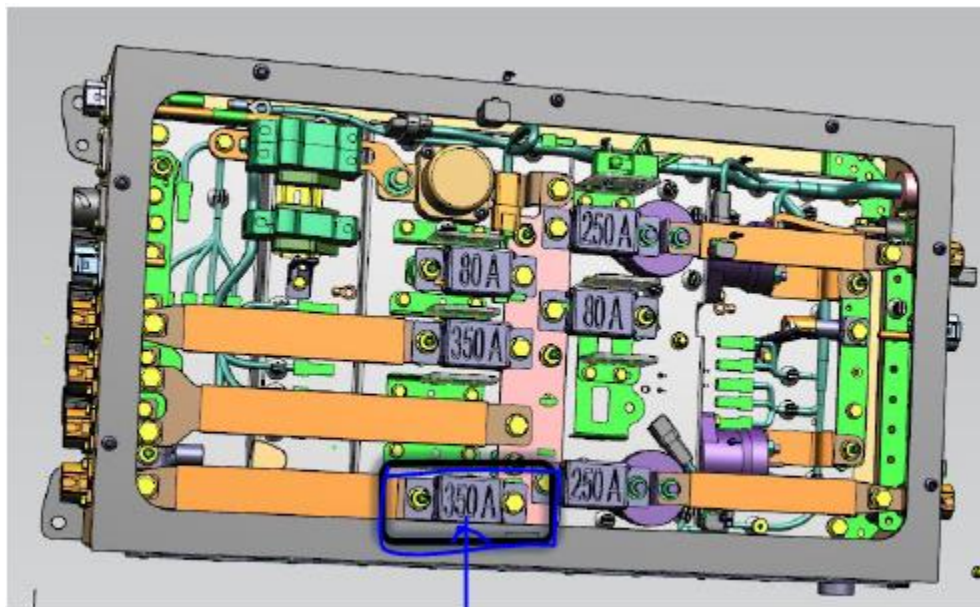


Fig 2: Rear HV Fuse Box

5. Perform visual check to ensure the fuse box is closed with no debris, tools etc.
6. Reinstall the HV fuse cover.
7. Remove the lockout/tagout from 12/24-volt Battery Disconnect switch and set the switch to the ON position.
8. Set the Master Run switch to DAY-RUN or NIGHT-RUN position



LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Replacement of 250A with 350A fuse	1	.5	.5

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	824770	FUSE - 350A HV DC170M1762-NF	1	EA	
2	523940	TORQUE MARKING PAINT	1	EA	