



INSTRUCTION TO SERVICE

ITS: 59151		JAN. 25, 2021
SECTION:	260-ELECTRICAL ENERGY STORAGE	
WRITTEN BY:	DEVIN DRAWARD	
SUBJECT:	ESS COOLANT FILTER EXCHANGE	
ISSUE:	ESS Coolant filter is plugging early on in Service.	
SUMMARY:	Replace existing 13 micron ESS coolant filter with a 23 micron variant.	

ITS59151

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 park brake and chock wheels.
2. Turn the main battery disconnect switch and the HV disconnect switch to the "OFF" position.

⚠ WARNING: Do not change the coolant filter until the system has cooled and the pressure has been relieved. Servicing the coolant filter while the coolant is still hot and pressurized may result in injury.

3. Open the curbside corner pillar access door and locate the coolant filter.

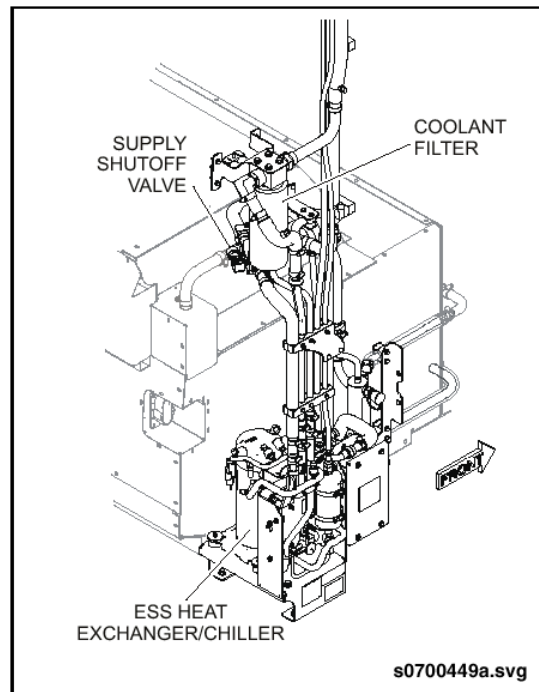


Fig. PM-95: ESS Battery Coolant Filter

4. Turn the ¼-turn ball valve to isolate the outlet of the ESS filter.
5. If needed, clamps with soft face jaws can be used to pinch closed the filter inlet hose.
6. Place a suitable container beneath the coolant filter.
7. Use a filter wrench to remove the spin-on filter.
8. **The gasket and threads on the new filter must be lubricated with Molykote-P37 Anti-Seize (or equivalent), install by hand.**
9. Tighten filter in accordance with instructions provided on the filter.
10. Remove the clamps on inlet hose (if used), and open the ¼-turn ball valve.
11. Start vehicle, check for leaks, and top up coolant as required.
12. Return vehicle to Service condition.

LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Replace ESS Coolant Filter	1	0.5	0.5

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	685143	23 MICRON DONALDSON FILTER (ESS)	1	EA	Donaldson P171276

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty.	Units	Notes
1	901706	MOLYKOTE-P37 ANTI SEIZE	A/R		Source Locally