

TOOL USE INSTRUCTION	
TOOL NUMBER: TSN01304	DATE: 09/20/24
TITLE: ESS COOLANT PRE-FILL KIT	DOC REV: 1



Tool Function:

To evacuate and fill coolant into ESS packs. **Only used for ESS remove and replace only.**For complete system evac and fill routines, see the usage instructions for the full evac and fill kits: **TSN00787-300-B**

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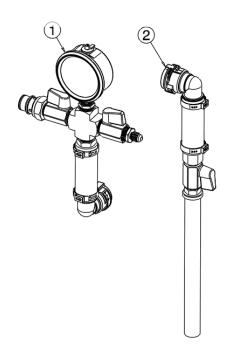


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OVERVIEW

Tool Components

THESE ITEMS ARE INCLUDED IN THE COOLANT EVAC AND FILL KIT, TSN00787-300-B



ITEM	DESCRIPTION
1	PRE-FILL ADAPTER
2	DRAIN HOSE



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Vacuum Intake Catch Bowl



▲ WARNING **▲**

ALWAYS CHECK THE VACUUM INTAKE CATCH BOWL BEFORE, DURING AND AFTER OPERATION OF THE VACUUM PUMP

SAFETY GUIDELINES

▲ WARNING **▲**

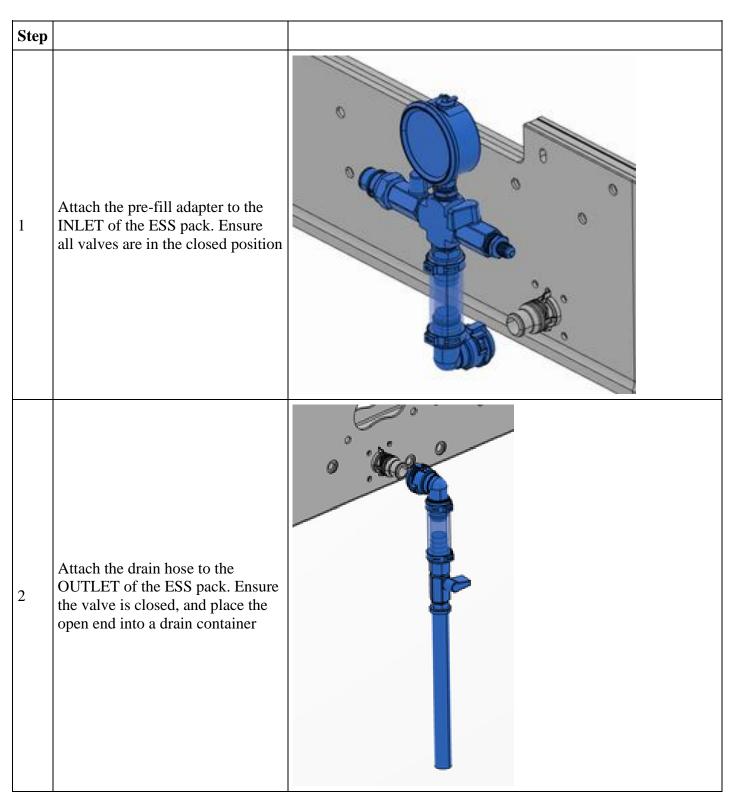
Be aware of the maximum capacity of the ESS being serviced. Stop and diagnose if filling volume exceeds the expected capacity.



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TOOL USAGE

Draining and Evacuating Coolant





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3	From the coolant evac & fill tool, attach the regulated air to hose to the pre-fill adapter set to ~10psi	~10 PSI
4	Open the coolant side valve on the pre-fill adapter	OFF



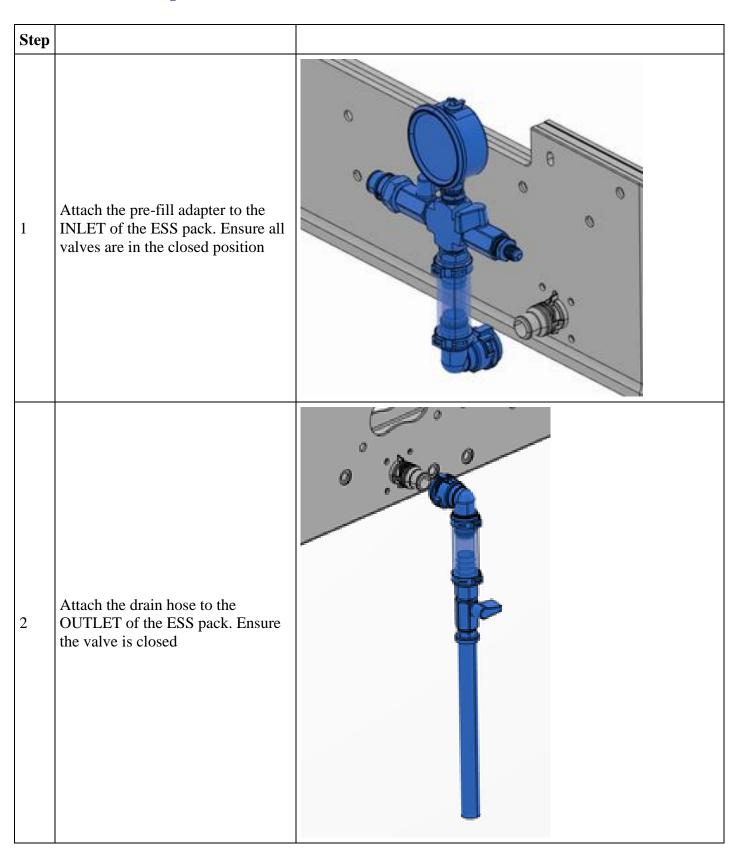
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5	Open the valve on the drain hose	
6	Purge coolant from the ESS until no coolant comes out of the drain hose	



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Pressure Leak Testing





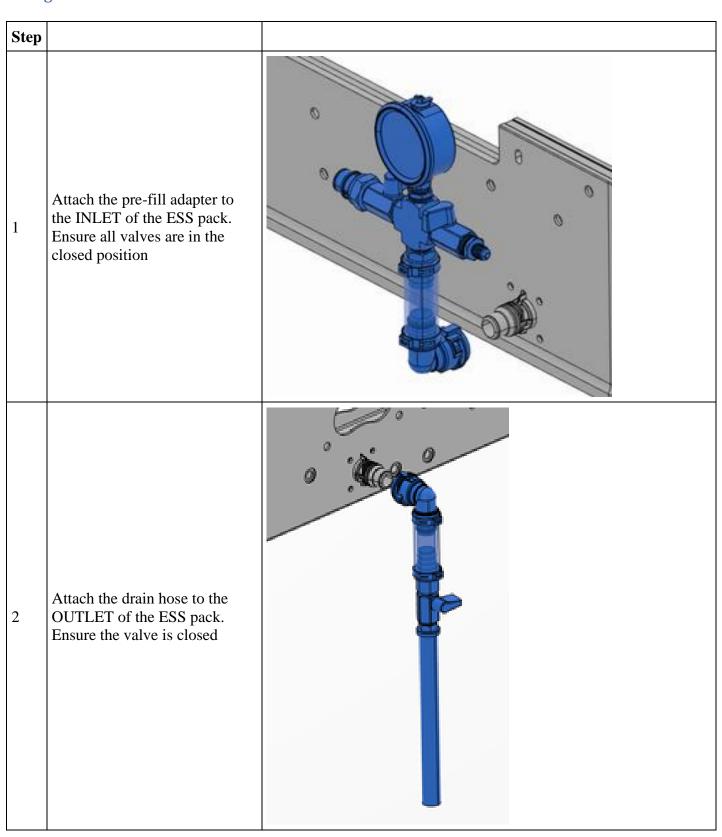
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3	From the coolant evac & fill tool, attach the regulated air to hose to the pre-fill adapter set to ~10psi	~10 PSI
4	Open the coolant side valve on the pre-fill adapter	OFF ON
5	Pressure should reach ~10psi	
6	Close the coolant side valve on the pre-fill adapter	
7	Hold for 60 seconds, pressure should not drop	



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Filling





Once ~28-29 inHg is reached, close the vacuum side valve

and turn off the vacuum pump

5

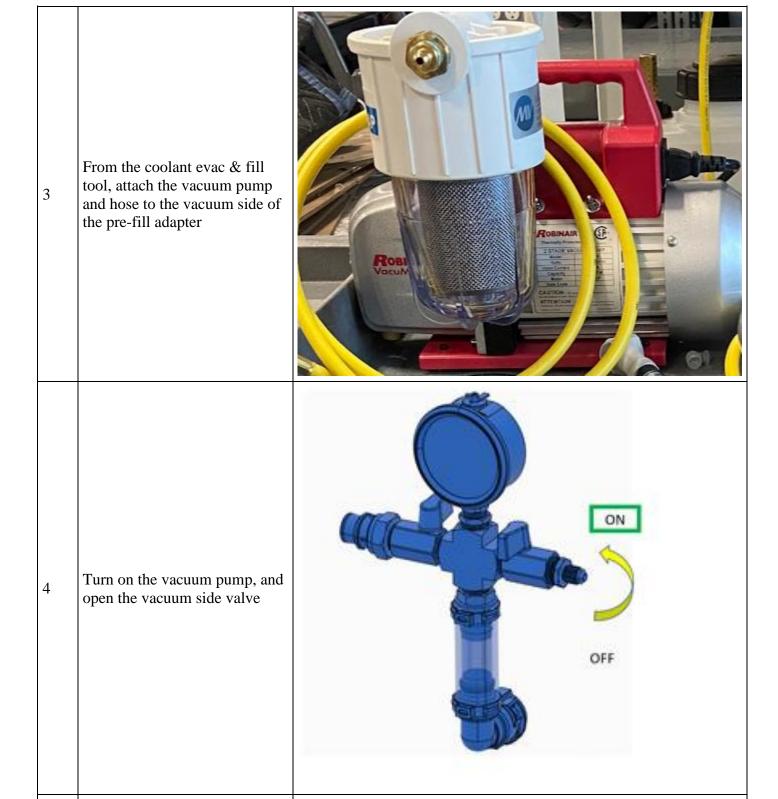
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6	Hold for 60 seconds, vacuum should not drop	
7	Attach the filling hose from the coolant evac & fill tool to the pre-fill adapter	FILL HOSE
8	Open the coolant side valve on the pre-fill adapter	OFF ON
9	Coolant will begin to fill the ESS pack	
10	Once vacuum has dropped and coolant is no longer filling, the ESS pack is now filled	



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REVISION LOG

REV	REASON FOR CHANGE	DATE
1.0	Initial Release	9/20/24