



EBS-1 #1000-0070 COOLANT FLUID EXCHANGE

QUICK REFERENCE 7-1-25

ATTENTION: Using the Coolant Fluid Exchange requires the FILL and VAC Valves on the SERVICE CONTROL HANDLE be in the proper OPEN (ON) or CLOSED (OFF) position prior to each step performed. Failure to do so will prevent a safe and effective exchange process.

STEP 1 Plug the Power Cord into a 110VAC outlet. Turn the white lighted POWER Switch ON. Visually check fluid levels in the equipment by markings on front.



STEP 7 Remove Clear Service Hose from Stepped Adapters. Connect the FILL (Clear) Hose to the Adapter at the Engine and the VAC (Blue) Hose to the Adapter at the Radiator.



STEP 2 Fill the New Fluid Tank to the amount for service plus some top off. Remove any Waste Fluid by opening the valve on the Waste Hose at the back of the equipment, turn on the Waste Pump – turn OFF when complete,



STEP 8 Turn FLUSH ON, check New Fluid to engine and Old Fluid from radiator to equipment. Monitor Waste and New Fluid levels in the equipment. The service STOPS when 2qts of New Fluid remain in NEW Tank



STEP 3 Connect the FILL (Clear) and VAC (Blue) service hoses to the Manifold. **Turn the Valve on the Manifold perpendicular, see picture.** (parallel used for priming and emptying New Fluid)



STEP 9 Remove Adapters and reattach Radiator Hose to Radiator. Remove Overflow Hose Clamp. Set proper Fill Levels at Radiator and Overflow Tank. Start Engine and check for leaks. **Radiator Hose Service Complete.**



STEP 4 **If D-Gas used, go to Step 10** When safe – remove the radiator cap and remove the top radiator hose. Vacuum old fluid from the radiator hose and overflow tank. Clamp Overflow Hose. VAC Pump OFF.



STEP 10 **D-Gas Service Procedures** – Insert Cleaning Chemical, if used, into Expansion Tank and run engine, with heater on, until Thermostat opens and Chemical Circulates. Turn Engine Off.



STEP 5 Connect the Service Hose to the Radiator Nipple. Connect the Stepped –Adapters into the Hose on the Nipple and the Engine Hose - Secure Clamps. Add Chemical to Radiator, replace Cap. Connect Clear Hose between Radiator and Engine Nipples.



STEP 11 Disconnect top Hose on Expansion Tank (ET) coming from the engine – white mark – clamp any other hi hose. Attach STEP Adapter to Hose end – tighten Clamp. Attach service tube to the nipple on ET and clamp.



STEP 6 **Start Engine.** Once the engine comes to operating temp the thermostat will open and coolant flow from the engine to the radiator will start. Allow Chemical action. **Turn Engine OFF when complete.**



STEP 12 Attach Waste Hose (blue) to the Step Adapter and Fill Hose (Clear) to Hose on ET-see Pic. Turn Engine ON. Turn FILL and VAC Pumps On – add Chemicals. Control ET fluid levels. When complete turn all Off. Disconnect Service Hoses and reattach upper ET Hose.

