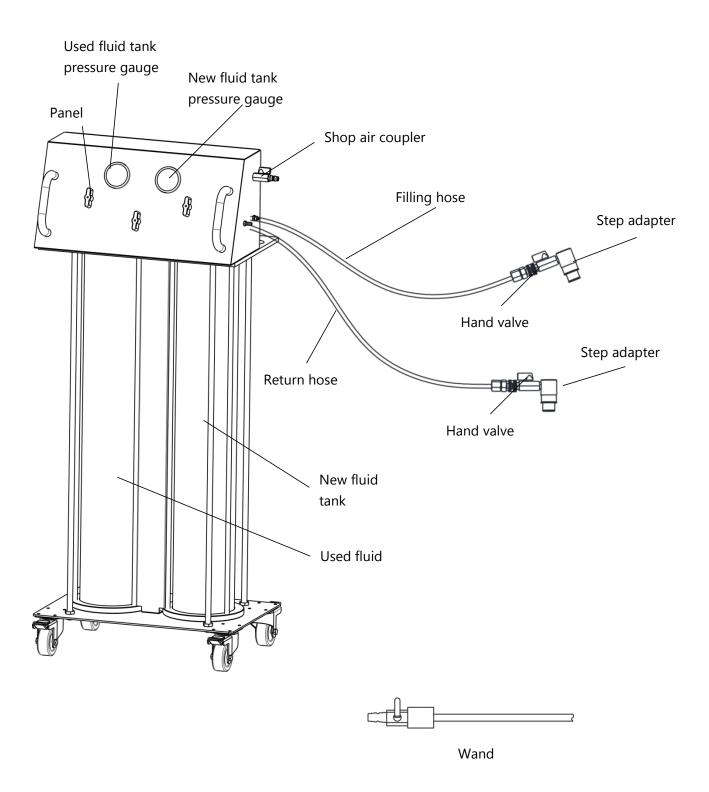
Coolant Exchanger CCC-100 User manual

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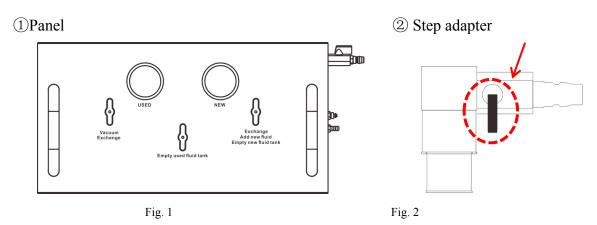
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PART DESCRIPTION:

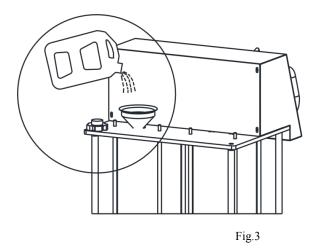


OPERATION PREPARATIONS:

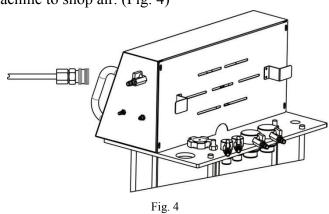
1.Initial position (Fig.1, Fig. 2):



2. Consult vehicle manual to get coolant specifications and quantity information. Open the new tank cap at equipment rear side, fill proper amount of coolant through the funnel, and tighten the tank's cap to seal the tank. (Fig. 3)



3. Connect the machine to shop air. (Fig. 4)



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VACUUM & RECOVERY

- 1. Open radiator cap for pressure relief (Use a rag to prevent hot fluid spilling);
- 2. Disconnect the Upper hose and close the radiator cap;
- 3. Select a pair of step adapters to connect to the two ends of disconnected upper hose, fix them with clamps; (fig.5);

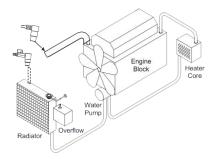


Fig.5

4. Connect wand to the return hose, insert the wand to overflow tank (Fig.6);

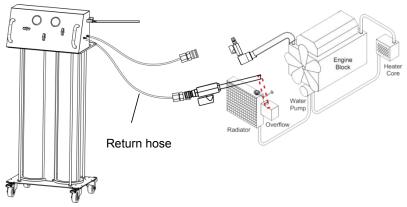


Fig.6

5. Open "Vacuum/Exchange" panel valve and hand valve on the wand. Then open shop air, the equipment starts to suck the fluid in overflow tank; (Fig.7)

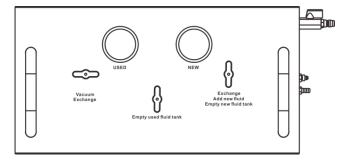


Fig.7

6. When all fluid in the overflow tank is recovered, restore all panel valves and hand valves to initial position. Disconnect the wand from the return hose.

EXCHANGE

1. Connect the return hose to engine side, and connect the filling hose to the radiator side; (Fig. 8)

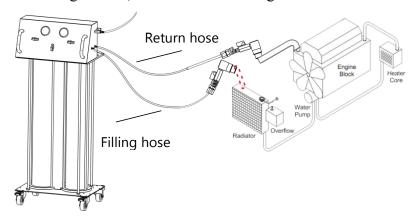
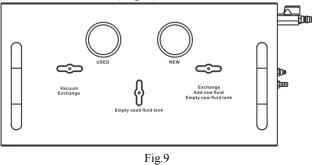


Fig.8

2. Open "Vacuum/Exchange" and "Exchange/Add new fluid/Empty new fluid tank" valves, open the shop air, and open the hand valves on both hoses; (Fig.9)



- 3. New coolant decreases and the used coolant increases (For some car model, if no used fluid come out during exchange process, reverse the hose connection: Connect return hose to radiator side, and filling hose to engine side);
- 4. Close shop air, restore panel valves and hose hand valves to initial position when only 1L coolant is left in the new tank;
- 5. Restore the pipelines of vehicle.

ADD NEW FLUID

- 1. Remove both radiator cap and overflow tank cap;
- 2. Start the engine and keep the engine running until thermostat opens, check if there is leak in vehicle;
- 3. Connect the wand to the filling hose;
- 4. Head the wand to radiator and overflow tank separately, open "Exchange/Add new fluid/Empty new fluid tank" panel valves, shop air valve and wand hand valve to add coolant to radiator and overflow tank, separately; (Fig.10/Fig.11)

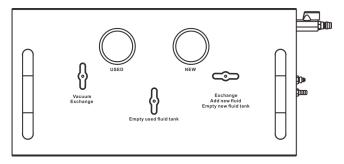
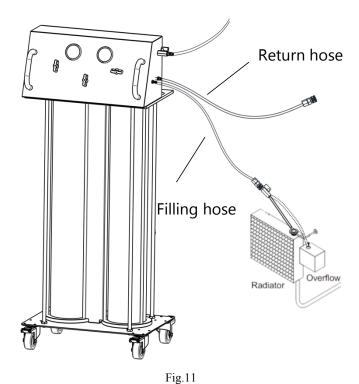


Fig.10



5. When proper coolant level in radiator and overflow tank is reached, close shop air, panel valves and hose hand valve to stop adding new coolant. Tighten the radiator and overflow caps, turn off the engine.

DRAIN USED TANK

1. Open "Empty used fluid tank" panel valve; (Fig.12)

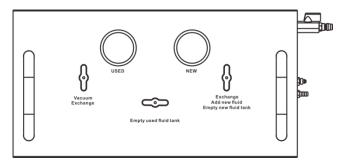


Fig.12

- 2. Mount the wand to filling hose, head the wand to an external tank and open its hand valve, open shop air, the used fluid decreases;
- 3. When used tank is drained, close shop air valve, and restore panel valves and hand valves to initial position.

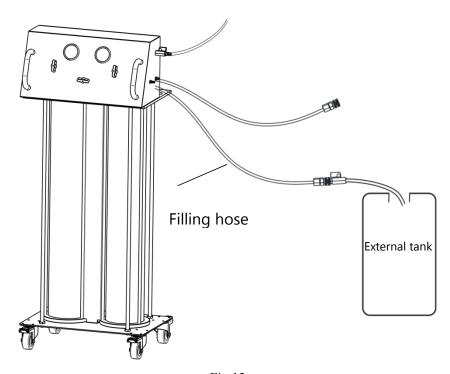


Fig.13

DRAIN NEW TANK

1. Open "Exchange/Add new fluid/Empty fluid tank" panel valve; (Fig.14)

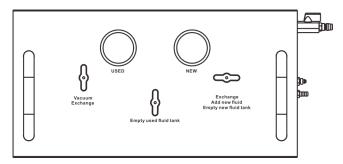


Fig.14

- 2. Mount the wand to filling hose, head the wand to the external tank and open its hand valve. Open shop air valve, the new fluid decreases;
- 3. Restore all valves to the initial position after new fluid tank is drained.

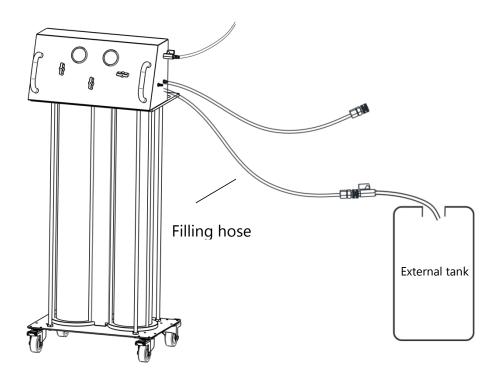


Fig.15

Packing List				
Item	Descriptions	Q'ty	Remarks	
1	Step adapter	4		
2	Wand	1		
3	Funnel	1		
4	Hose	5	Ф50mm Ф38mm Ф35mm Ф32mm Ф25mm	