



CPS[®]
AUTOMOTIVE

CoolantClean IV **SYSTEM**

Coolant Exchanger

Part Number: 500-5200



OWNER'S MANUAL (English)

For more information or updates, visit www.cpsproducts.com

FOR USE BY QUALIFIED PERSONNEL ONLY

CAUTIONS

Warning: Before using the instrument, please read this manual carefully for proper operation.

- Work performed incorrectly can lead to injury or property damage!
- The device should only be operated by trained operators. Use by unauthorized operators is prohibited.
- Coolant fluids are toxic and may lead to serious injury!
- Wear safety goggles to minimize the risk of injury from splashing.
- Wear suitable protective gloves to minimize the risk of injury caused by skin contact.
- Do not make design changes to the device.
- Automotive cooling systems can be under pressure and extremely hot. Use extreme caution when removing the coolant reservoir caps, radiator caps or coolant drain plugs.
- Allow the coolant to cool down before performing any steps in this manual.
- Comply with local, state and federal regulations for fluid disposal.
- Continuous monitoring of the coolant exchange process is required.

PRODUCT INTRODUCTION

Operating principle

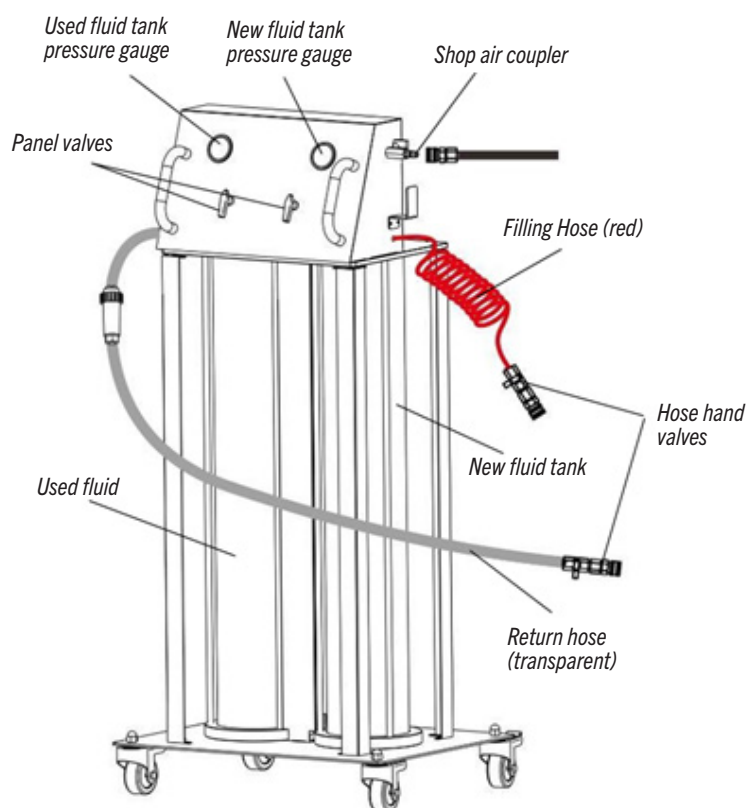
The CoolantClean IV Coolant Exchanger connects to the vehicle's coolant system and uses compressed air to create a vacuum to extract used coolant from the vehicle. The system can be connected via the vehicle's coolant reservoir or to one of the vehicle's coolant lines. The system can then be used to add new coolant while the lines are under vacuum. This method reduces air bubbles in the coolant lines.

The system can also be configured to capture used coolant from the vehicle's coolant drain plug using the system's fluid receiver funnel.

Technical data

Compressed Air Supply Pressure	5-10 bar
Used Coolant Tank Capacity	15 L
New Coolant Tank Capacity	12L

COMPONENT DESCRIPTION



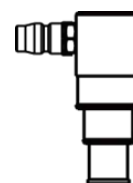
Cone Adapter



Cone Extraction Hose
connects to the bottom of the
cone adapter



Y Adapter



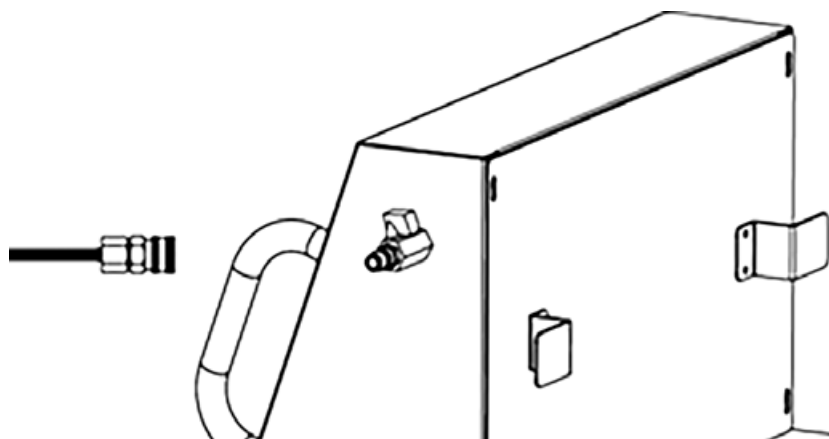
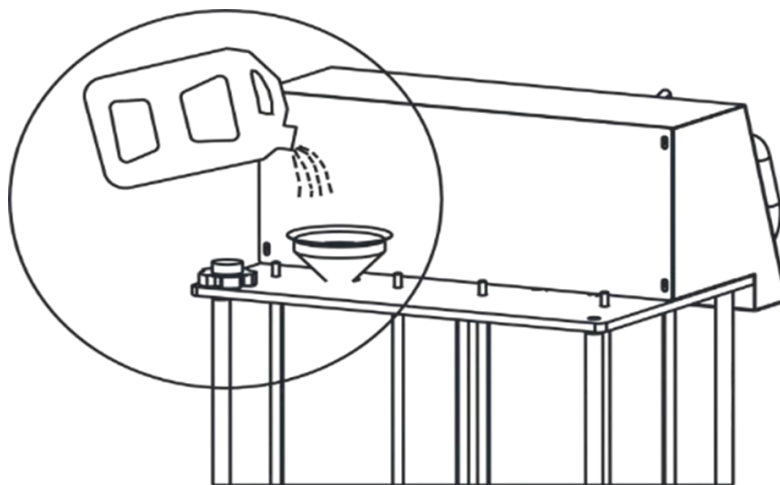
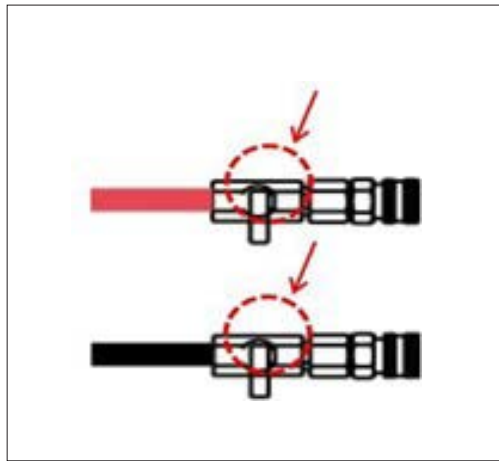
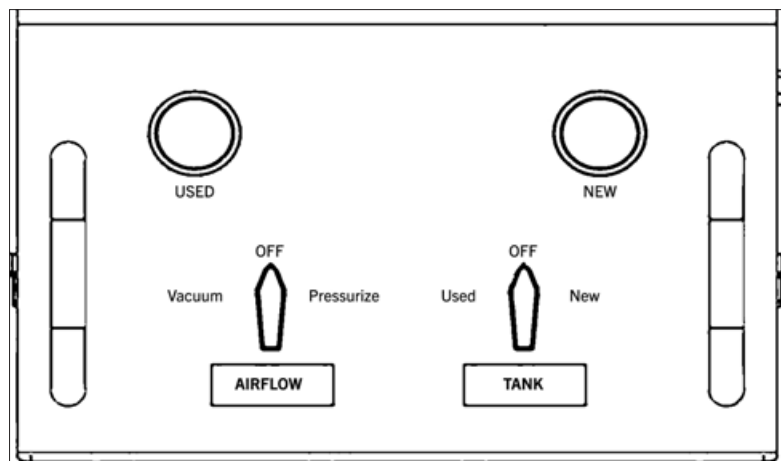
Step Adapter

OPERATION INSTRUCTIONS

Initial start

The following outlines the initial process of preparing the system with new coolant.

1. Place the CoolantClean system on a flat surface.
2. Place all valves to the off position
3. Open the new tank cap on the rear of the system. Fill the tank with coolant up to 12L. Close and tighten the tank's cap to seal the tank.
4. Connect the machine to shop air.

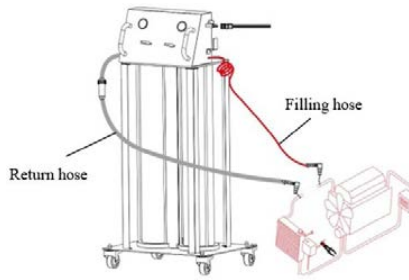


DETERMINING THE PROPER EXCHANGE METHOD FOR THE VEHICLE:



Fluid Reservoir Vacuum Method

To use this method the vehicle must have a coolant reservoir where the cap position is directly over the bottom of the reservoir so that the pickup hose touches the bottom-most part of the reservoir.



Inline Coolant Exchange Method

A coolant exchange can be performed by disconnecting the vehicle's coolant line that connects the radiator to the coolant return line of the engine.

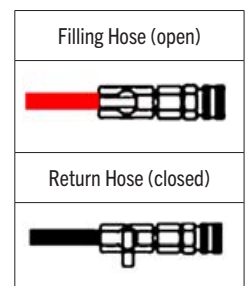
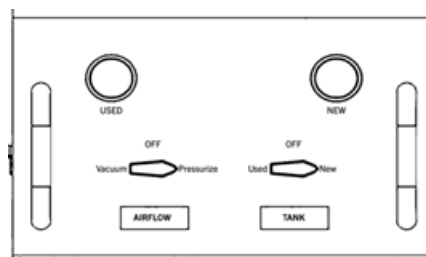
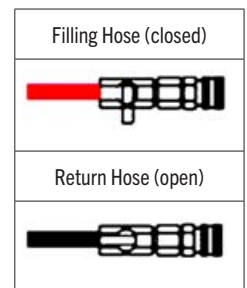
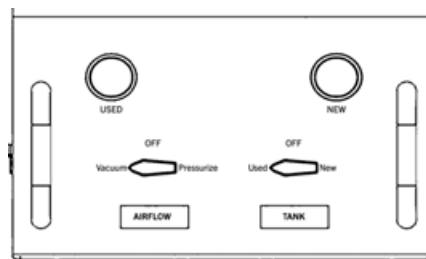
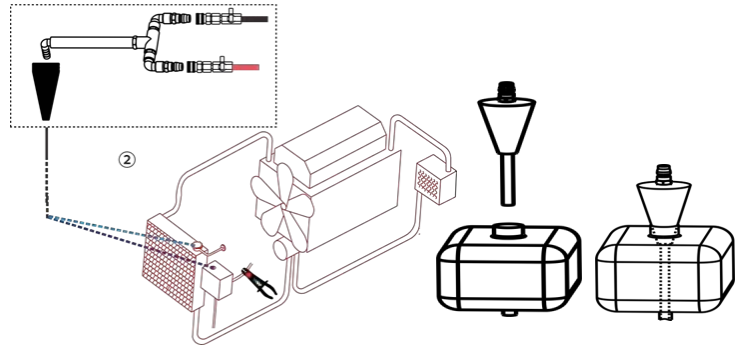


Gravity Flush Method

The system can be used to collect used coolant by using the coolant receiver pan and placing the system under the vehicle's coolant drain plug.

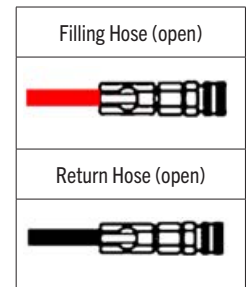
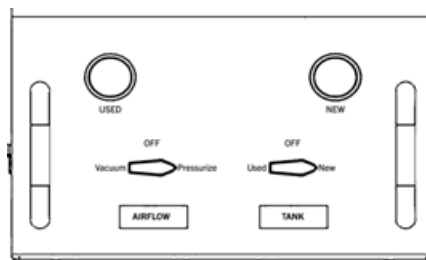
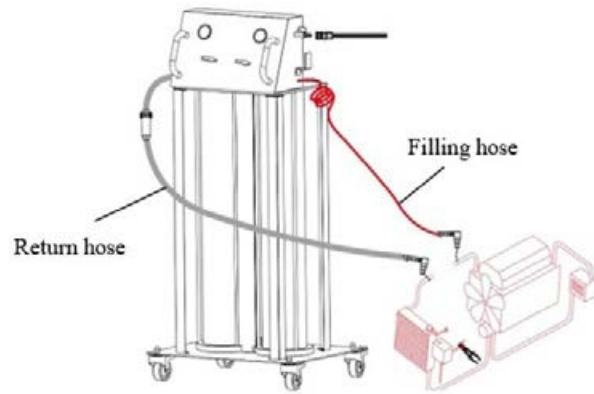
Fluid Reservoir Vacuum Method

1. Connect the red Filling hose (new coolant) and the transparent Return hose (used coolant) to the Y-adapter.
2. Connect the Cone Adapter to the Y-adapter.
3. Connect the Cone Extraction Hose to the bottom of the Cone adapter
4. Open the vehicle's coolant reservoir cap and place the Cone with the extraction hose into the coolant reservoir. The extraction hose must reach the bottom-most part of the reservoir.
5. In some vehicles the coolant reservoir may be equipped with an aeration hose line. This line will need to be pinched off with pliers during this operation.
6. Turn the Air Flow valve to the "Vacuum" position and the Tank Valve to the "Used" position. The valve on the transparent return hose should be in the OPEN position and the red new coolant hose valve should be in the CLOSED position.
7. Start the extraction process by opening the shop air valve. A vacuum will be produced in the line at around -20inHg. Coolant will begin to flow from vehicle to the used tank of the system.
8. Continue this operation until the coolant hoses on the vehicle collapse.
9. When fluid stops flowing, turn all valves to the OFF position
10. To add new fluid to the vehicle, CLOSE the Return hose valve and OPEN the filling hose valve. Place the Air Flow valve to the "Pressurize" position and the Tank Valve to the "NEW" position



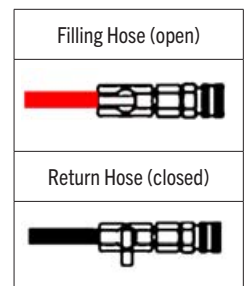
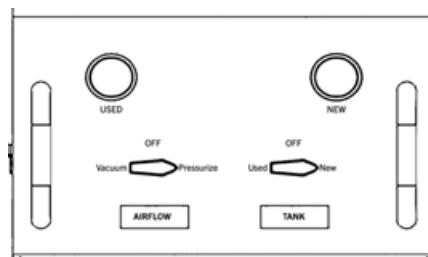
Inline Coolant Exchange Method

1. Connect the Step adapters to the red Filling hose (new coolant) and the transparent Return hose (used coolant).
2. Disconnect the vehicle's coolant line that connects the radiator to the coolant return line of the engine.
3. Place the Air Flow valve to the "Pressurize" position and the Tank Valve to the "NEW" position. Open the Return hose valve and OPEN the filling hose valve.
4. Start the exchange process by opening the shop air valve. Coolant will begin to flow from the vehicle to the used tank of the system.
5. Continue the process until new coolant starts flowing into the system.
6. When the process is complete, turn all valves to the OFF position. Remove the Cone adapter from the vehicle and restore the vehicle's coolant line connection.
7. Additional coolant may be added to the vehicle's coolant reservoir as needed.



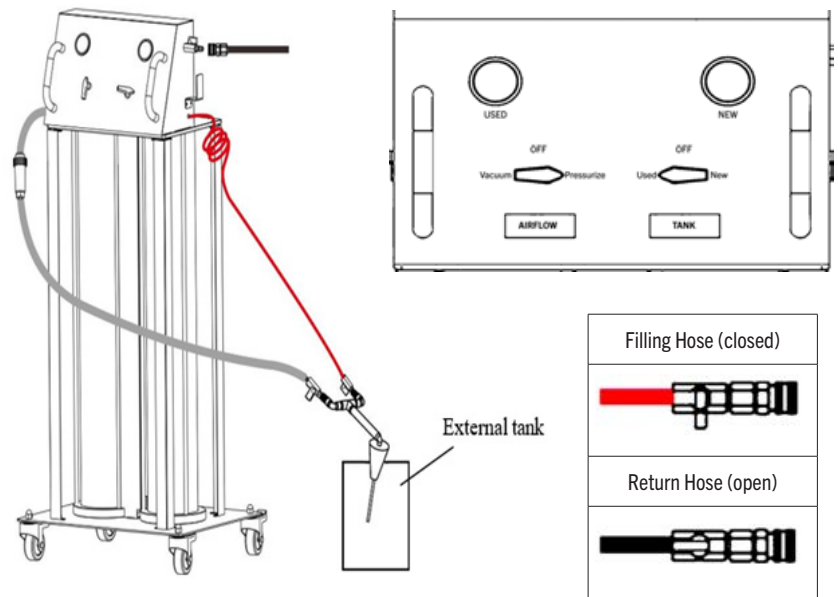
Gravity Flush Method

1. Open the used coolant tank cap on the system and connect the coolant receiver pan.
2. Place the vehicle on a lift that is capable of safely lifting the vehicle higher than 6 feet.
3. Locate the vehicle's coolant drain plug and place the system under the drain plug.
4. Open the coolant drain plug to drain the vehicle's used coolant into the system's used coolant tank.
5. When all the coolant has been completely drained from the vehicle replace the coolant drain plug back unto the vehicle.
6. Lower the vehicle from the lift. Coolant can now be added to the vehicle's coolant reservoir.
7. To add new fluid to the vehicle, connect the Cone adapter to the filling hose. Remove the cap on the vehicle's coolant reservoir and place the Cone adapter in place of the cap.
8. CLOSE the Return hose valve and OPEN the filling hose valve. Place the Air Flow valve to the "Pressurize" position and the Tank Valve to the "NEW" position. Start the filling process by opening the shop air valve.
9. Continue the process until the proper amount of coolant is added to the reservoir. The vehicle may need to be started during the fill process to eliminate air bubbles in the coolant system. Refer to the vehicle's manual for further guidance.



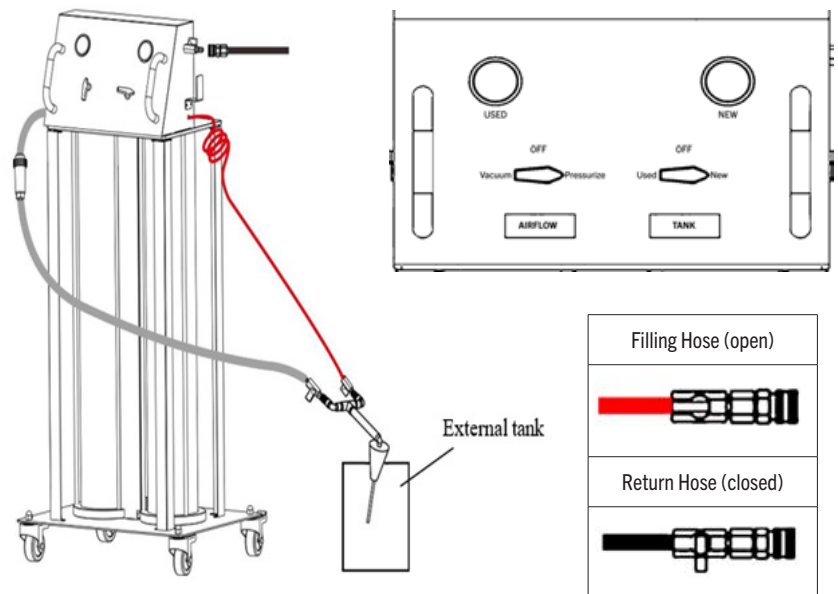
Drain Used Tank

1. Connect the red Filling hose (new coolant) and the transparent Return hose (used coolant) to the Y-adapter.
2. Connect the Cone Adapter to the Y-adapter.
3. Turn the Air Flow valve to the "Pressurize" position and the Tank Valve to the "Used" position. The valve on the transparent return hose should be in the OPEN position and the red new coolant hose valve should be in the CLOSED position.
4. Start the draining process by opening the shop air valve
5. When the tank is drained restore all valves to the off position.



Drain New Tank

1. Connect the red Filling hose (new coolant) and the transparent Return hose (used coolant) to the Y-adapter.
2. Connect the Cone Adapter to the Y-adapter.
3. Turn the Air Flow valve to the "Pressurize" position and the Tank Valve to the "Used" position. The valve on the transparent return hose should be in the OPEN position and the red new coolant hose valve should be in the CLOSED position.
4. Start the draining process by opening the shop air valve
5. When the tank is drained restore all valves to the off position.



PARTS LIST

Item	Description	Qty
1	Cone Adapter	1
2	Cone Extraction Hose	1
3	Y-Adapter.....	1
4	Step Adapters	2
5	Coolant Drain Pan.....	1
6	Coolant Drain Pan Connector with Valve	1

LOCATIONS

CPS PRODUCTS, INC. U.S.A.

1010 East 31st Street

Hialeah, Florida 33013, USA

Tel: 305-687-4121, 1-800-277-3808

Fax: 305-687-3743

E-mail: automotive@cpsproducts.com

Website: www.cpsproducts.com

CPS PRODUCTS CANADA LTD.

1324 Blundell Road

Mississauga, ON, L4Y 1M5

Tel: 905.615.8620

Fax: 905.615.9745

E-mail: info@cpsproducts.com

Website: www.cpsproducts.com

CPS PRODUCTS N.V

Krijgsbaan 241, 2070

Zwijndrecht, Belgium

Tel: (323) 281 30 40,

E-mail: info@cpsproducts.be

CPS AUSTRALIA PTY. LTD.

109 Welland Avenue

Welland, South Australia 5007

Tel: +61 8 8340 7055,

E-mail: sales@cpsaustralia.com.au

