



CPS[®]
AUTOMOTIVE

Pneumatic Oil Drain and Extractor

Part Number: 600-0010



OWNER'S MANUAL (English)

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

FOR USE BY QUALIFIED PERSONNEL ONLY

CAUTIONS

Warning: Before using the product, please pay attention to the following instructions.

- Do not make any modifications to the equipment.
- Do not operate near open flames, or in high temperatures.
- Do not use the the drain pan support as a handle for moving. Tighten any loose hardware before use.
- If any leaks are observed during operation immediately shut off the air supply.
- The air source pressure must not be lower or higher than the specified pressure to ensure the proper operation of the equipment.
- Use caution when handling hot motor oil.
- Wear gloves and safety glasses during operation.
- The vehicle's engine must remain off throughout the operation.
- Do not use the equipment for any other purpose. Using the system for extracting brake oil, gasoline, diesel, methanol, ketone, or other flammable liquids is prohibited.
- After extracting waste oil, promptly empty the waste oil from the measuring cup into the storage tank.
- After completing the equipment operation, release the internal pressure, clean the equipment, and avoid equipment damage and personnel injury due to improper operation.
- Do not use the equipment for functions not listed in this manual.
- Dispose/recycle waste oil according to relevant regulations.

PRODUCT DESCRIPTION

- This product uses compressed air to generate a vacuum which allows for the extraction of oil from the dipstick port of the engine. The system can also be used to collect waste oil from the drain port of the vehicle using the system's oil collection pan.
- The product features a high-quality, hardened transparent measuring cup that offers strength, transparency, temperature resistance, weather resistance, and corrosion resistance. The measuring cup is designed with scale marks, providing a clear view for easily observing the initial oil quality and measuring the oil quantity.
- All functions are powered by compressed air, ensuring safe, environmentally friendly, and low-consumption usage of this device.
- Multiple sizes of oil extraction tubes are included, meeting the requirements of different types of vehicles.

LOCATIONS

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TECHNICAL DATA

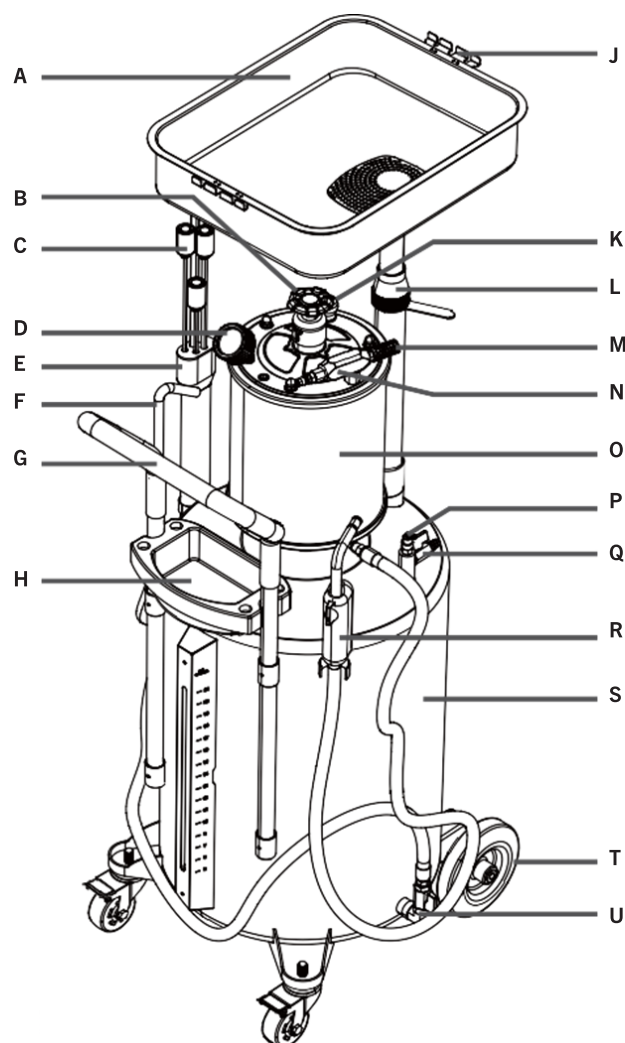
Air Supply Pressure	6~8bar (87-116psi)
Oil Discharge Pressure	0.6~0.8bar (8.7-11.6psi)
Air Consumption	150L/Min
Vacuum Level	0~65cmHg
Tank Capacity	100L
Measuring Cup Capacity	12L
Oil Catch Pan Capacity	20L
Working Oil Temperature	Not to exceed 60°C (140°F)
Oil Extraction Tubes	5 PCS

Oil Extraction Tubes

Diameter (mm)	Length (mm)	Material	Qty
5	880	PVC	1 PC
6	880	PVC	1 PC
6	1090	PVC	1 PC
8	880	PVC	1 PC
8	1090	PVC	1 PC

PRODUCT STRUCTURE

A	Steel Oil Drain Pan
B	Push Button Switch
C	Oil Extraction Tubes
D	Vacuum Pressure Gauge
E	Aluminum Cover with Tube Holder Sleeve
F	Oil Drain Hose
G	Anti-static Rubber-coated Handle
H	Storage Box
I	Swivel Caster with Brake
J	Wands Hook
K	Measuring Cup's Safety Valve
L	Adjustable Drain Pan Support Rod
M	Silencer
N	Vacuum Generator Assembly
O	Tempered Glass Measuring Cup
P	Oil Drain Safety Valve
Q	Air Supply Valve
R	Oil Extraction Nozzle
S	Steel Oil Tank
T	Rubber Wheel
U	Oil Drain Switch



OPERATION INSTRUCTIONS

Installation

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

- Rotate the measuring cup assembly “clockwise” to secure it onto the positioning seat of the oil storage tank
- Fix the lifting rod and oil catch pan in place by rotating in the “clockwise” direction
- After confirming the correct orientation of the measuring cup assembly, lock it in place
- After installation, ensure that the lifting rod is in a vertical position relative to the equipment
- Adjust the lifting rod device by turning it counterclockwise to adjust the height of the lifting rod oil catch pan. Turn it clockwise to tighten.

Oil Extraction from Engine Dipstick Port

- Set the measuring cup valve to the middle slot position (valve closed)
- Close the valve on the oil extraction hose and connect the corresponding vehicle-specific oil extraction tube
- Connect the air supply to the vacuum generator’s air intake port and open the air supply valve
- Adjust the air pressure until the vacuum pressure gauge reaches a rated negative pressure of 50-65cmHG
- Insert the oil extraction tube into the oil dipstick port of the engine. To ensure all oil is extracted, the extraction tube may need to be inserted deep into oil dipstick port so that it reaches the very bottom of the engine’s oil pan.
- Open the valve on the oil extraction hose to begin extracting waste oil

Measuring cup oil draining

Empty the waste oil from the measuring cup into the oil storage tank below.

- When the oil level in the measuring cup reaches the warning line, empty the waste oil from the measuring cup

- Press and rotate the measuring cup valve to the top left or right slot position (valve open). Waste oil inside the measuring cup will automatically flow into the oil storage tank.

NOTE: To prolong the service life of the measuring cup assembly, do not keep the measuring cup drain valve closed when the system is not operation.

NOTE: Waste oil temperatures exceeding 60°C (140°F) may cause damage to equipment components.

Oil Extraction From Oil Drain Port

- Use a lifting device to raise the vehicle to a suitable height
- Ensure a safe working environment and position the equipment under the vehicle engine with the oil catch pan aligned with the engine’s drain hole
- Unscrew the vehicle’s engine oil drain plug
- The waste oil will be discharged into the storage tank through the oil catch pan

Waste oil discharge of oil storage tank

- Close the measuring cup push-button valve
- Close the oil discharge pipe valve
- Close the oil tank inlet valve
- Connect the air supply to the oil tank inlet valve
- Open the oil tank inlet valve and pressurize it. Once it reaches a certain pressure, the check valve will automatically close. When the pressure inside the oil tank exceeds 1.0 bar, the safety valve will automatically release the pressure
- When the internal pressure reaches approximately 2.0–2.5 bar, shut off the air supply
- After 5 seconds, slowly open the oil drain valve
- After discharging the oil, remove the air supply from the tank

MAINTENANCE

- Tighten loose hardware to ensure the safe operation of the equipment
- Comply with the safe operating procedures and do not overload the equipment
- Avoid contact with corrosive liquids
- Store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places