

Pneumatic Oil Extractor

Operational Manual
Model No.: BOD70P

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

- 1. Keep work area clean.** Cluttered areas invite injuries.
- 2. Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids.
- 3. Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools or extension cords.
- 4. Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
- 5. Avoid Unintentional Starting.** Be sure the air pressure is in the off position when not in use and before making hose connection.
- 6. Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
- 7. Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it would operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any control or switch does not operate properly.
- 8. Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.
- 9. Do not operate tool if under the influence of alcohol or drugs.** Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
- 10. Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.

Note: Performance of this tool may vary depending on variations in air pressure and compressor capacity.

Product specific safety precautions

This equipment is designed be operated by qualified personnel. It should only be operated after reading and understanding the safety warnings and operating procedures in this instruction manual.

1. Do not smoke near this equipment.
2. Firework is strictly prohibited during operation, keep away from heat, high voltage, flammable and explosive place
3. Use in a well ventilated area.
4. When leaks are found in the equipment or hoses, immediately turn the air pressure off and repair the leaks.
5. Once leakage is found in the hose or other components during operation, turn off air compressor immediately, conduct a detailed inspection and proceed with troubleshooting.
6. Do not exceed the recommended operating air pressure. This could damage equipment. See specification on Page 5.
7. Keep a type ABC fire extinguisher nearby in case of fires.



8. Always protect your skin and eyes from contact with oil and solvents.



9. Do not start engine during the time of oil extraction. Otherwise it will cause the damage of extraction probes and injuries of people.
10. Be careful for the oil extracted out from the vehicle, as temperature of oil is high, always between 40~60°C
11. Used oil should be properly disposed or recycled. Please contact with your local waste liquid/solid authority for information on recycling.

Product description:

1. Fast vacuum speed, capable of high negative pressure, multi-purpose equipment.
2. High quality cylinder, higher intensity, high grade of transparency as well as high temperature resistance (able to withstand 80°C & negative pressure without deforming). Transparent cylinder allows oil observation

and measurement.

3. Use compressed air as power source; guarantee the safety in use, Eco friendly and low power consumption
4. Vacuum cylinder and oil tank at a same time, increase oil extraction speed
5. Different diameter of oil suction probes to meet the need of different type of cars
6. Height adjustable Oil tray lift, can be fix to desirable height
7. Can be used with other mechanical engine oil, lubricants as well as temporary storage. Brake fluid, gasoline, diesel and other liquid contains methanol and ketones or flammable is strictly prohibited.

Specification:

Functions: Remove and extract waste fluids or oil out from engine and etc. with flexible PVC tube and robust CU probe. Power from compressed air

Air Inlet Pressure::	6~8bar/ 87~116PSI
Ejection pressure:	0.6~0.8 bar/ 8.7~11.6PSI
Air Consumption::	150L/Min
Vacuum Degree:	0~-1 bar /-14.5PSI
Tank Capacity:	70L
Oil tray volume:	20L
Working Temperature:	40~60°C
Package:	oil tank/box
Carton size:	470*440*940mm
Suction probes:	
Φ 5*L800mm,(Cu,1 PCS)	Suction speed: 1.9 L/Min.
Φ 6*L800mm,(Cu,1 PCS)	Suction speed: 3.2 L/Min.
Φ 6*L700mm,(PVC,1PCS)	Suction speed: : 4.2 L/Min.
Φ 8*L700mm,(PVC,1PCS)	Suction speed: 6.2 L/Min.
Φ 6*L800mm,(PVC,1PCS)	Suction speed: 3.7 L/Min.
Φ 8*L800mm,(PVC,1PCS)	Suction speed: 5.2 L/Min.

Package Contents

Please inspect and look for damages from shipping when package is first received. If the unit is damaged in any way, please contact customer service and include pictures if possible.

In the package, you will find:

- a) User's Manual
- b) One Complete Oil Tank/Reservoir

- c) Oil tray
- d) Strain
- e) Probes 6 pcs with sleeve

Operation Instruction

1) Setup Setup (Refer below instruction and figure)

- a) Install the oil tray and lifting pole in 'Clock-wise' direction
- b) Ensure the lifting pole is perpendicular with the machine

NOTICE: Place the machine in a flat ground to avoid sliding during operation. Oil temperature higher than 80 ° C will cause seriously damage to the components, in worst case it could bring to machine failure.

2) Vacuum Generation (Fig)

1. Operating air pressure: 6~8 bar/87~116PSI
2. Turn off all valves BEFORE use.
3. Connect the air compressor to the air inlet⑤, gradually turn on the air inlet ball valve for vacuumization.
4. When finger reaching to the MAX. area on the vacuum gauge, turn off the air inlet valve (Estimated time for vacuum generation within 20~30seconds)
5. Turn off air source after completion (To ensure the suction speed remains in stable negative pressure for continuously extraction required. please continue vacuum generation)

Now it is ready for extraction

3) Extraction

1. Ensure the oil tank is under negative pressure
2. FIG.2 remove engine oil case
3. Choose suitable probe (which is the largest diameter one can be inserted into the engine) and tightly connect it to the extraction pipe connector FIG.3, Insert the end of the probe into the engine oil inlet hole
4. FIG.4 Turn on the ball valve for oil extraction.

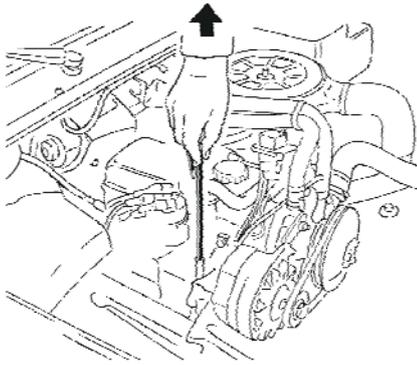


Fig.2

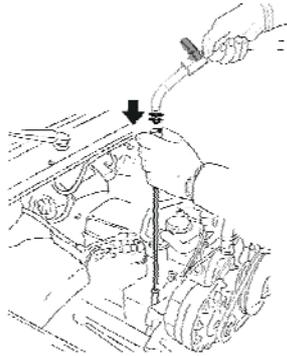


Fig. 3

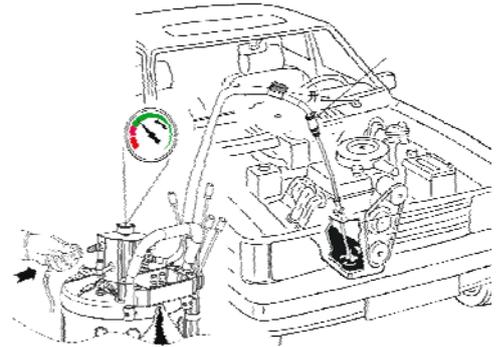


Fig.4

Place the machine in a flat ground to avoid sliding during operation.

Oil temperature higher than 80 ° C will cause seriously damage to the components, in worst case it could bring to machine failure.

4) Oil Collection

1. Lift the vehicle to proper height
2. Move the oil extractor below the car engine, oil tray position right under the vehicle oil drain hole.
3. Ensure ball valve⑤ is off
4. Open the wing valve⑦ (by rotating it in anticlockwise direction, vertical sitting as open)
5. Open the mini ball valve①, release tank pressure
6. release oil drain bolt
7. Waste oil is transfer from the oil tray to the oil tank

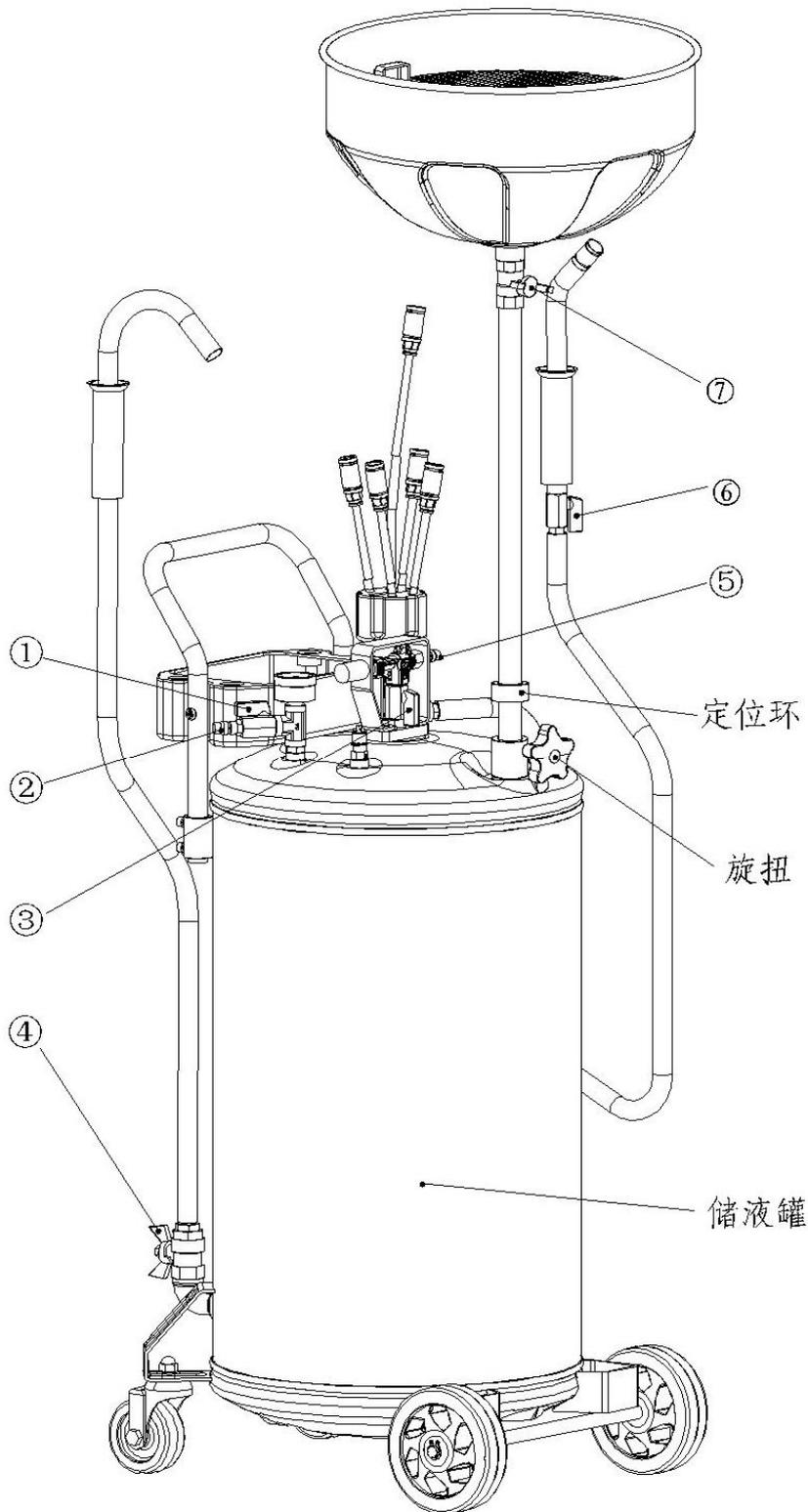
5) Tank Emptying

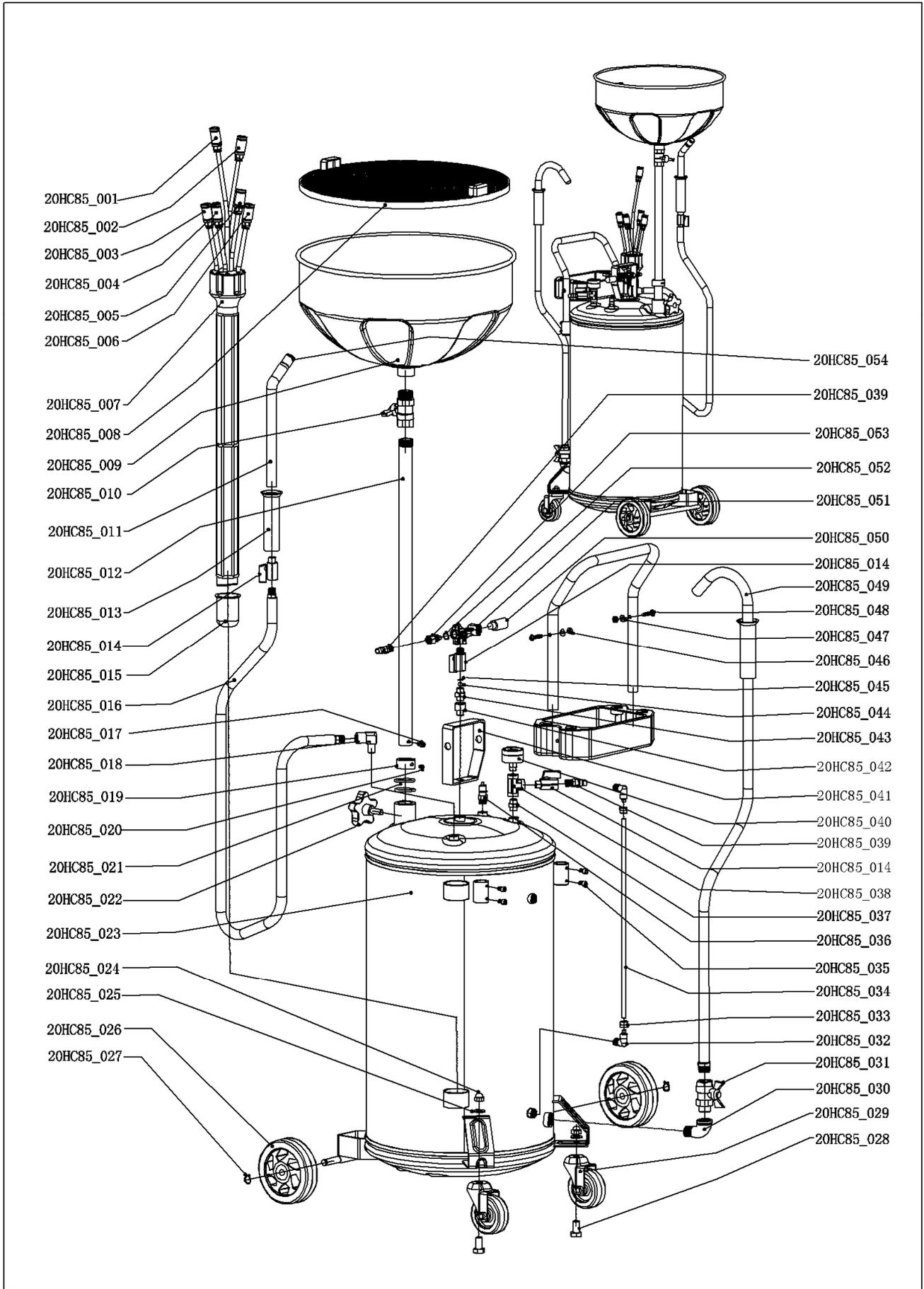
1. Turn off all ball valve
2. Hold the ejection hook and insert it into the external disposal tank
3. Connect the air compressor with the air inlet ①
4. Turn on the mini ball valve ① gradually, adding tank pressure.

(The valve will automatically release pressure when the tank pressure reach 1.0 bar/15.4PSI, automatic recover when pressure reach 0.8bar/11.6PSI)

5. Turn on FI.G3 wing valve ④ for oil ejection

6. Cut off air source after ejection, empty tank pressure and turn off all valves.





1.

BOM part list

Parts No.	Des.	qty	Parts No.	Des.	qty
20HC85_001	oil extraction probe	1	20HC85_028	hexagonal screw	2
20HC85_002	oil extraction probe	1	20HC85_029	Universal wheel	2
20HC85_003	oil extraction probe	1	20HC85_030	Quarter bend	1
20HC85_004	oil extraction probe	1	20HC85_031	Wing valve	1
20HC85_005	oil extraction probe	1	20HC85_032	Stick	2
20HC85_006	oil extraction probe	1	20HC85_033	Hexagonal cover	2
20HC85_007	Probe sleeve	1	20HC85_034	Hose	1
20HC85_008	strain	1	20HC85_035	Inside hexagonal screw	4
20HC85_009	Oil tray	1	20HC85_036	Safety valve	1
20HC85_010	Wing valve	1	20HC85_037	connector	1
20HC85_011	Extraction hook	1	20HC85_038	joint	1
20HC85_012	Lifting pole	1	20HC85_039	Wing nozzle	2
20HC85_013	Handle	1	20HC85_040	Pressure meter	1
20HC85_014	Mini ball valve	1	20HC85_041	Protection ring	1
20HC85_015	Oil cup	1	20HC85_042	Connector	1
20HC85_016	Extraction probe	1	20HC85_043	Safety valve	1
20HC85_017	Inside hexagonal screw	1	20HC85_044	Teel ball	1
20HC85_018	Quarter bend	1	20HC85_045	Snap spring	1
20HC85_019	Locking ring	1	20HC85_046	Hexagonal screw	2
20HC85_020	Hexagonal screw	1	20HC85_047	nut	2
20HC85_021	O ring	2	20HC85_048	Flat head hexagonal screw	2
20HC85_022	Plum knob	1	20HC85_049	Oil hose set	1
20HC85_023	Oil tank	1	20HC85_050	Silencer	1
20HC85_024	Screw	2	20HC85_051	Vacuum generation	1
20HC85_025	Nut	2	20HC85_052	O ring	1
20HC85_026	Directional wheel	2	20HC85_053	Screw	1
20HC85_027	Snap spring	2	20HC85_054	O ring	2