



No	Part Name	Quan	No	Part Name	Quan
1	1/2-14 pagoda joint	1	26	250*5 sealing O ring	2
2	1/2*3/4 elbow	2	27	Cup center rod	1
3	Oil connecting rod	1	28	Plexiglass cup	1
4	Pan	1	29	Cup bottom	1
5	15*1.9 O ring	2	30	32*3.5 O ring	1
6	Suction nozzle	1	31	32 aluminum gasket	1
7	1/4 elbow	1	32	3/4 ball valve	1
8	1/4 small ball valve	12	33	5 inch 16 hole rubber wheel	2
9	wired hose	1	34	cotter 2.5*25	2
10	1/4 elbow	1	35	3 inch universal wheel	2
11	Cup cover	1	36	M12 hex nut	1
12	48*3.5 sealing O ring	1	37	1/4-8 quick twist elbow	1
13	Center rod connecting nut	1	38	1/2 elbow	1
14	Air outlet plastic connector	1	39	1/2-14 ball valve	1
15	22*3.5 sealing O ring	1	40	16 hoop	2
16	Steel ball	1	41	Oil outlet pipe	1
17	Air outlet cover	1	42	Oil suction pipe	6
18	Y cock	1	43	Oil suction pipe cover	1
19	gauge	1	44	tank	1
20	One-way valve	1	45	1/4 small ball valve	1
21	silencer	1	46	1/2 tee	1
22	Vacuum generator	1	47	1/4 safety valve	1
23	Sealing O ring	1	48	10# handle bolt	1
24	Vacuum outlet connector	1	49	1/2-14 pagoda joint	1
25	Fast connector	2	50	Oil connecting pipe	1

II Technical parameters

Vacuum level: below 0-08PA Working pressure:8-10PA Transparent glass capacity: 10L
Oil storage tank: 80L Media: machine oil and gear lubricant Diameter 4.5mm
collecting speed:0.8L/min The greatest pressure:4KG/cm Diameter 6.5mm
collecting speed:1.6L/min

III Operation instructions

1. Pump waste oil to oil tank:

- a Connect a well-selected oil drain pipe and oil exhaust pipe and then insert them in the sight oil hole of the engine with lubricant, next switch off the oil exhaust pipe;
- b Turn on the switch of transparent glass connected to oil storage tank, switch off the elbow to prevent discharge of oil, switch off the quick coupler on the top of the tank and under the oil funnel;
- c Connect the quick coupler on the top of oil measuring glass to compressed air tube and switch on, while the indication of the vacuum gauge will decrease;
- d when the vacuum pressure lowers below 0.5 PA, switch on the oil exhaust pipe and thus the waste oil will be pumped out of the engine and flows to the tank quickly via the oil exhaust pipe.

2. Pump waste oil to transparent glass

- a Connect a well-selected oil drain pipe and oil exhaust pipe and then insert them in transparent glass of the engine with lubricant, next switch off the oil exhaust pipe;
- b Turn off the switch of transparent glass connected to oil storage tank;
- c Connect the quick coupler on the top of transparent glass to compressed air tube and switch on the compressed air tube, while the indication of the vacuum gauge M/ill decrease;
- d when the vacuum pressure lowers below 0.5 PA around: switch on the oil exhaust pipe and thus the waste oil will be pumped out of the engine and flows to the tank quickly via transparent glass .

3. Flow waste oil to the oil storage tank from transparent glass

Turn on the switch of transparent glass connected to oil storage tank, thus waste oil will be discharged to the oil storage tank from transparent glass .

4. Flow waste oil out of the oil storage tank

- a Turn off the switch of transparent glass connected to oil storage tank (notice: If it turns on excessive air pressure may damage transparent glass and even persons; we will assume no responsibility for man-made injuries due to improper operation.); and switch off the ball valve.
- b switch on the elbow that hooks the tank.
- c Connect the quick coupler on the top of the tank to compressed air tube and switch on the compressed air tube, thus waste oil will be discharged via the elbow (notice: it may switch off the compressed air tube when the safety valve begins to exhaust.)

Notice: Air inflation must be available while pumping oil, by doing so it is to reduce gas consumption and pressure to realize faster pumping.

IV Troubleshooting

1. Solutions for non-reduction of pressure of the vacuum meter

- a Check to confirm the air pressure is 8-10PA.
- b Check to confirm all valves that should be turned off are in proper condition.
- c Check to confirm sound sealing of transparent glass and oil storage tank.

2. Solutions when pressure of the vacuum gauge reduces, yet it fails to suck oil

- a Check to confirm sound sealing of the oil drain pipe and oil exhaust pipe;
- b Check to confirm whether the temperature of the waste oil is too low;
- c Check to confirm whether the oil pipes are switched on;
- d Check to confirm whether the oil pipes are stopped or contact the bottom of the tank.

V Tips for maintenance

Clean this machine to make sure it is without faults for many years

- a Check the machine is with leakage or not regularly; if there is leakage, please repair after examination immediately;
- b Check the tube is connected closely frequently;
- c Do not keep the waste oil in bucket for long time to avoid corrosion to the bucket;
- d Wipe the surface of the machine by using towel or cloth; keep the machine clean and place it in shadow to avoid direct sunshine.

VI Notices

- a Personnel qualified after training can only use this machine;
- b No smoking in surrounding of the machine;
- c This machine can better operate under 60-80°C, then the thickness of the machine oil is as 1.3 times as water, and speed lower than water. In case of below such temperature, it may cause unsmooth pumping and fail to pump oil;
- d This machine should be provided with an air compressor with 10PA output pressure. It is 8PA at the machine nozzle. If it is less than that, the vacuum level is insufficient, which may cause unsmooth pumping and fail to pump oil;
- e When the two points above are met, it should use big-inch oil drain pipe to pump oil. An iron tube is featured by direct flowing; a big iron tube can reach 1.8L/min, and a small one 1.4L/min. while, a plastic tube may bend; a big plastic tube can reach 1.8L/min, medium-sized 0.6 L/min. and a small one 0.4L/min. the oil drain pipe cannot be inserted too deeply, or else it is impossible to suck oil;
- f When the oil exhaust pipe is used for long time, it may leak. If so, check the quick coupler on the top of the pipe to determine it is loose or not (This can be done as follows: insert one sealed end of the pipe in oil, blow to the other end of the pipe to check whether it leaks. If it does, repair or exchange the pipe);
- g For Toyota Camry, the dipstick is above the machine, the oil drain pipe cannot be inserted in it sometimes, and even if it is inserted, it cannot pump oil or turn off. To overcome that, it is suggested to discharge oil with a screw;
- h There is a muffle on the top of transparent glass. When the air compressor is filled with water or operated improperly, oil or water will flow. After solve that problem, there will be no water flowing out.

Instruction for Oil Changer

