Mobile Oil Dispenser Kit

Operation Instruction

Model No.: HC-1940

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. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safety at the rate for which is was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress Properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye and ear protection**. Always wear ANSI approved impact safety goggles. Wear an ANSI approved dust mark or respirator when working around chemical dusts and mists.
8. **Do not overreach**. Keep proper footing and balance at all times. Do not reach over or across running machines.

9. **Maintain tools with care**. Inspect tool cords and hoses periodically and, if damaged, have them replaced, or repaired by an authorized technician. The handles must be kept clean, dry and free from oil and grease at all times.
10. **Remove adjusting keys and wrenches**. Check that keys and adjusting wrenches are removed from the tool or machine work surface before operating.
11. **Avoid Unintentional Starting**. Be sure the air pressure is in the off position when not in use and before making hose connection.
12. **Stay alert**. Watch what you are doing, use common sense. Do not operate any tool when you are tired.
13. **Check for damaged parts**. Before using any tool, any part that appears damaged should be carefully checked to determine that it will 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.
14. **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.
15. **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.
16. **Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.
17. **Pacemaker safety warning.** People with pacemaker should consult their physician before using this product. Electromagnetic fields in close proximity to a heart pacemaker could cause interference to, or failure of the pacemaker. In addition, people with pacemaker should adhere to the following:
    - Caution is necessary when near the coil, spark plug cables, or

distributor of a running engine. The engine should always be off if adjustments are to be made to the distributor.

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. The compressed air must be filtered to avoid dust and vapour into pump inside.
2. When leaks are found in the equipment or hoses, immediately turn the air pressure off and repair the leaks.
3. Do not exceed the recommended operating air pressure, max. pressure 8bar/115PSI.This could damage equipment. See specification on Page 5
4. Position the pistol so that the circuit can't open accidentally. Otherwise oil could leak onto the ground.
5. Never point the pistol at people or objects (such as electric boards or moving cars etc.)
6. Open the pistol by press only after you are sure that the pistol is in the right place so that the oil doesn't leak onto the ground.
7. Always cut off the air supply after use so that oil can't leak out in case one of the pump's components breaks.
8. Use only original spare parts in case the pump has to be repaired or its components have to e replaced.
9. Empty all the oil from the pump in case it has to be disposed of.
10. When no load, cut off compressed air to stop pump.
11. Do not throw the oil away. Used oil has to be disposed of according to national environmental regulations.

12. The pumps can be used only to deliver lubricants, used oil or antifreeze liquids. Do not use the pump for any other substance. Please contact us if you have any special request.
13. Do not use the pump near open flames. Do not smoke during operation. Use in a well ventilated area.
14. Keep a type ABC fire extinguisher nearby in case of fires
15. Always protect your skin and eyes from contact with oil and solvents. (Such as wear oil-proof gloves and etc.)

Technical Data:

1. Pump Ratio: 5:1
2. Power: Filtered Air Compressor
3. Suit For: All kinds of Engine Oil and Gearbox Oil
4. Air Pressure: 6-8Bar(87~115PSI）
5. Air Consumption: about 240L/Min. (63.5Gallon/Min.)
6. Oil Delivery Speed: about 12~18L/Min. (about 3.2~4.8Gallon/Min.)
7. Length of Pump: 940mm/37inch
8. Air Inlet Connection: 1/4” quick plug
9. Oil Outlet Connection: 1/2”BSP
10. Max. viscosity Oil Delivered: SAE 250
11. Temperature of Oil Delivered: -10~50℃
12. Trolley: 180 ~200Kg

Description:

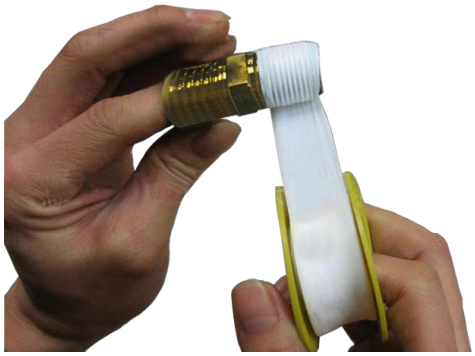
Power from Air Compressor which is safe, environmental-friendly and free of spark. Oil pump can be used to transfer lubrication oil, wasted oil

and antifreeze liquids. The digital meter gun with rigid tube and manual tip, with the appropriate connection to establish a precise controlled of flow through the meter.

Operation:

Preparation

1. Handling and storage of the new pump do not require any special procedures. However after the pump has been used, empty the used oil in the suction tube into an appropriate container always. This can be done by overturning the pump.
2. Unscrew the screw from the unit.
3. Put the oil drum on the trolley.(Max.220kg)
4. Closely tighten the screw with the edge of oil drum, in order to make oil drum be stable on the trolley.
5. Insert the suction tube of pump into the drum and secure with ring nut, suitable for commercial drums with 57 diameter hole and threading 2”G.
6. Connect the oil delivery tube with the oil outlet of the pump ready. (Please wrap PTFE TAPE before connecting joint)



7. Connect filtered air compressor (to be supplied by customer) with Air Inlet (1/4”) of Pump.
8. A pressure regulator to keep the pump’s working pressure at the best possible level (6~8bar) between the pump and the compressed air line, if necessary.
9. A cut-off cock in order to enable the operator to stop the pump at any given moment by cutting the air supply off between the pump and the compressed air line.
10. Now it is ready for oil filling by switch on all cocks.

Attention: Please do not exceed the max. air pressure:115PSI.

Oil Filling

1. Set up the unit on digital meter to your required value before use.(please refer to the manual of “Digital Oil Control Valve” attached)
2. Turn the data on electronic flow meter to “0”.
3. Aim the Oil Outlet to the correct point
4. Switch on all the cocks and press the knob on the delivery pistol to begin oil delivery.
5. View data indicated on the electronic flow meter
6. When reaching your required data, then stop oil filling by releasing the knob on the delivery pistol. But the whole system remains under

pressure. Well position the pistol knob so that the circuit can't open accidentally. Otherwise oil could leak onto the ground.

7. Close all the switchs and put pump, pipe and gun back to original place.

Maintenance:

1. The dust in compressed air can slow down and even block the motor cylinder. The following steps may to prevent this from happening:
   a. Let in 50 grams of Vaseline oil or other lubricator from the air inlet hole weekly operate the pump for several minutes after having let it into the pump.
   b. Turn on the pump for several minutes until moving parts is fully lubricated.
   c. You may repeat the above operation if necessary.
   d. The above steps should be carried out on a weekly base.
2. Making sure no water vapour enter the machine from air compressor. For the pumps that are attached with compressed air treatment equipment, please clear the water retained in the reservoir of the filter-purger frequently.
3. For the pumps that are attached with a lubricator, please pay close attention to the lubricator's oil level and refill with SAE 20, SAE 30 or antifreeze oil for extreme conditions when necessary.

4. The user should perform only routine maintenance operations (such as filters, silencers, cleaning and etc.) with the pump in order not to damage it or compromise its safety. Contact our sales and assistance centers OR local distributors should the pump need any further maintenance.

Troubleshooting:

1. Oil can not be sprayed out from gun

Check the density of oil, if too much high of the density, fill suitable amount of engine oil to mix together.

If normal level of the density, check with rubber seal for any damage or not.(As impurities will cause damage of the rubber seal)

2. Pump can not work

Check pressure reached working pressure or not.

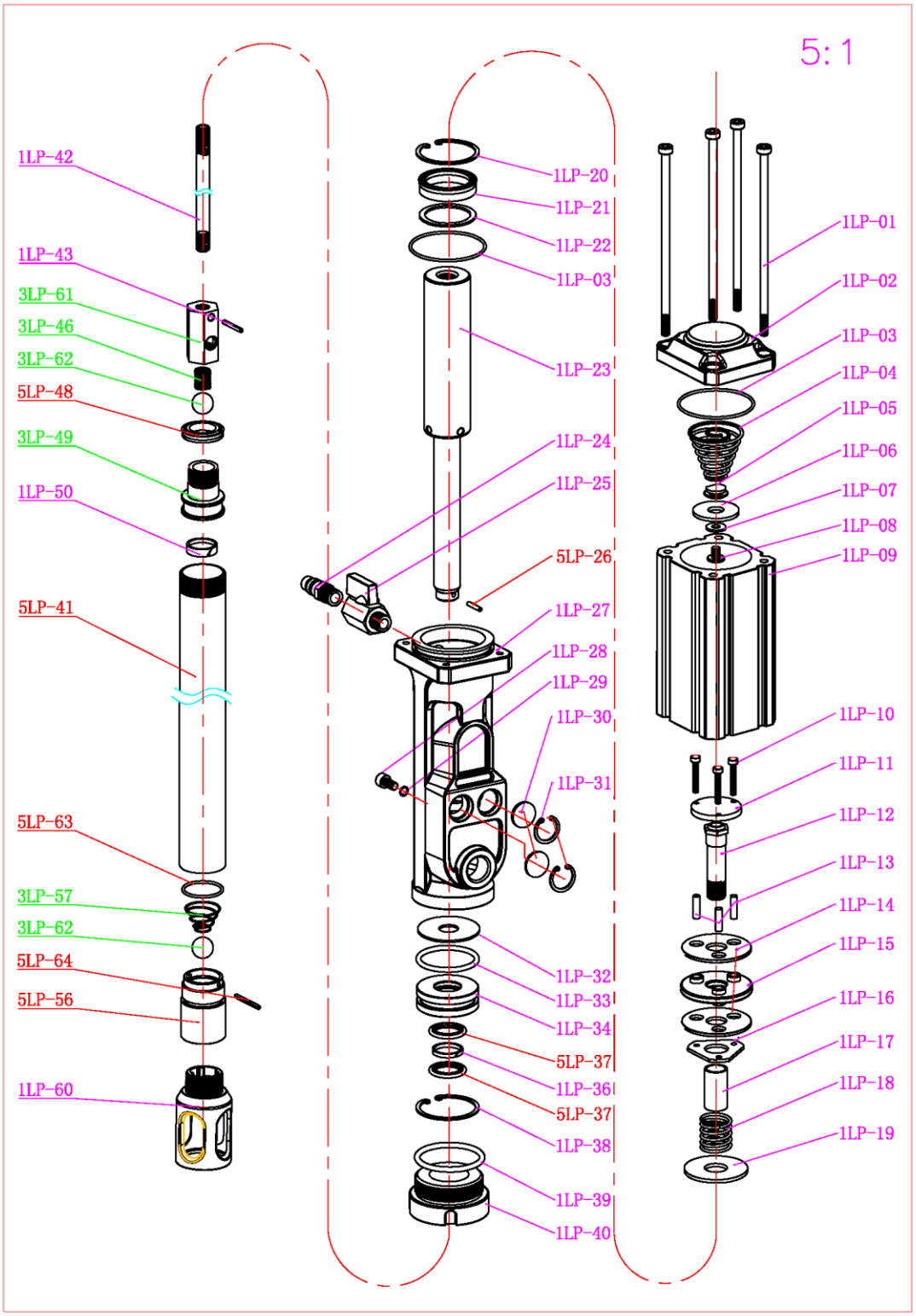
Check any impurities or not.

Check slide flake in the pump damaged or not. If so, replace with a new one.

Check any leakage or not.

If any parts damaged, change to a new one or contact with the distributor immediately.

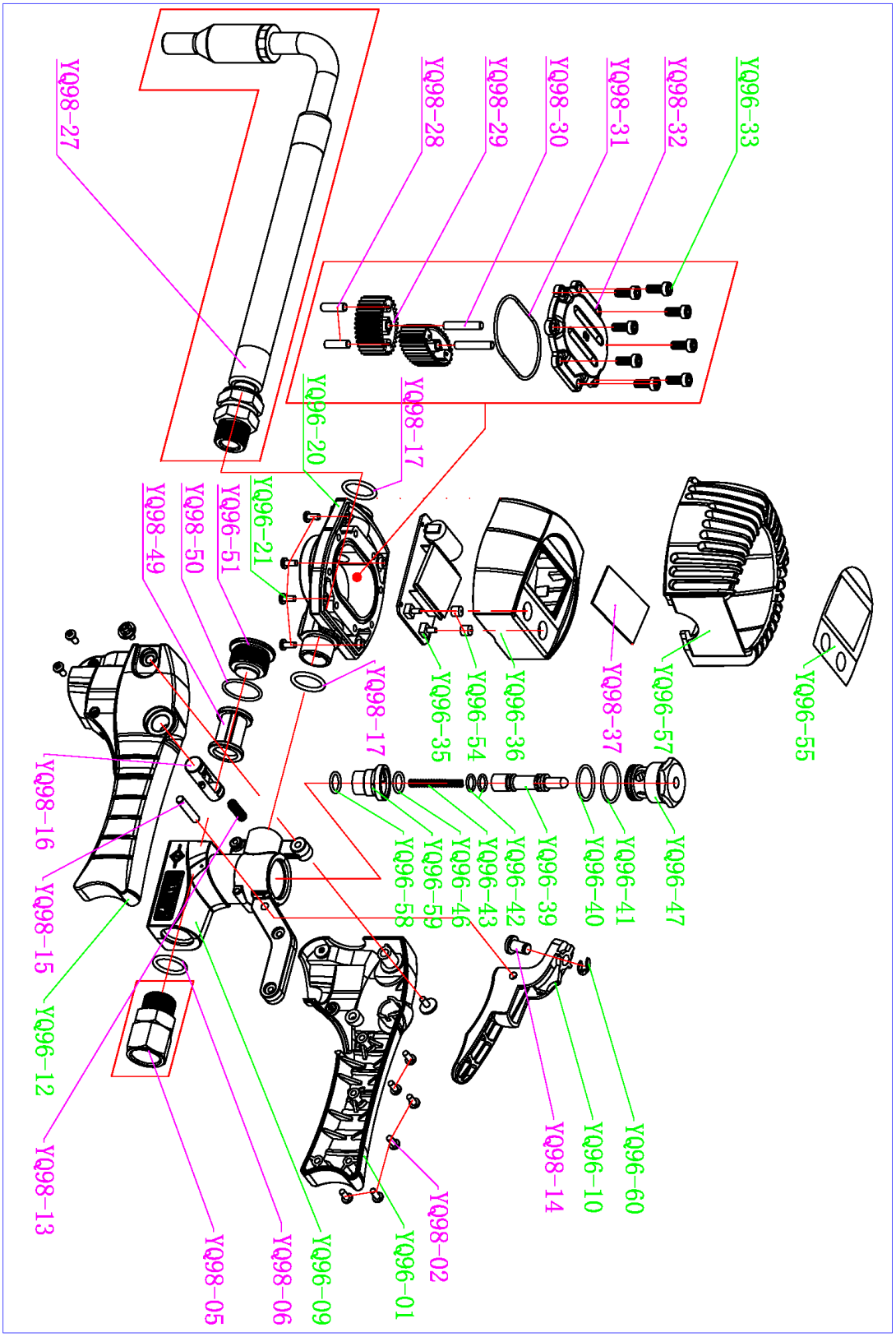
Explosive view(Pump)



Bom list(Pump)

No.	name	spec	qty	No.	name	spec	qty
1LP-01	hex screw	M6*L150	4	1LP-29	grease seal	Φ8×2NBR	1
1LP-02	booster pump top cover		1	1LP-30	Silencer sheet	φ20×L3	2
1LP-03	seal ring	φ55×2.65	2	1LP-31	snap ring	φ21	2
1LP-04	conical spring	φ2.0	1	1LP-32	seal seat cover	Φ14×1.5	1
1LP-05	plunger chip		1	1LP-33	seal ring	φ41×D3.55	1
1LP-06	platen	φ30×φ12×2	1	1LP-34	seal seat	φ47×L23	1
1LP-07	gasket	φ16×φ6×1.2	1	1LP-36	guidance tape	L3.0×1.5	1
1LP-08	hex screw	M6*L10	1	1LP-38	snap ring	φ48	1
1LP-09	piston cavity	Φ60	1	1LP-39	seal ring	φ50*D2.65	1
1LP-10	hex screw	M4×L25	3	1LP-40	connector		1
1LP-11	metal top plate	φ42	1	1LP-42	connecting rod	φ10×L740	1
1LP-12	central spindle		1	1LP-43	elastic pin	φ3.0*L16	1
1LP-13	guide pin	φ6×0.5	3	1LP-50	guidance tape		1
1LP-14	baffle		2	1LP-60	strainer		1
1LP-15	Special shaped seal ring	φ60.6×14.6×12 NBR	1	3LP-46	one way valve spring		1
1LP-16	metal top plate		1	3LP-49	one way valve axle sleeve	φ30×L37	1
1LP-17	location tube	φ17×2×L33	1	3LP-57	one way valve conical spring		1
1LP-18	spring	φ2.0×φ23.5×L24	1	3LP-61	one way valve		1
1LP-19	gasket	Φ17.5	1	3LP-62	steel ball	φ16	2
1LP-20	snap ring	φ45×T2.0	1	5LP-26	elastic pin	φ3.0×L18	1
1LP-21	seal ring	QY-D 35×43×8.0	1	5LP-37	combined seal ring	14.5*21.8*3.2	2
1LP-22	snap ring		1	5LP-41	connecting rod	φ30×L895	1
1LP-23	piston rod	Φ35×L230	1	5LP-48	seal ring	QY-D 25*17*8.0	1
1LP-24	wind nozzle	1/4	1	5LP-56	one way valve	φ28×1.5	1
1LP-25	mini ball valve	1/4	1	5LP-63	seal ring	(φ26*2) NBR	1
1LP-27	booster pump body		1	5LP-64	elastic pin	φ3.0*L25	1
1LP-28	hex screw	M6×10	1				

Explosive view(Oil gun HC-1940)



Bom list(oil gun HC-1940)

No.	name	spec	qty	No.	name	spec	qty
YQ96-01	right handle		1	YQ98-49	strainer		1
YQ98-02	screw	BT3.5*15	4	YQ98-50	seal ring	Φ26*Φ2 NBR	1
YQ98-05	connector	G1/2″	1	YQ98-51	cover		1
YQ98-06	seal ring	Φ18*2.65	1	YQ96-58	seal ring	⌀9.5*⌀1.9	1
YQ96-09	gun body		1	YQ96-59	shaft sleeve		1
YQ96-10	trigger		1	YQ96-60	snap ring		1
YQ96-12	left handle		1	YQ96-20	cavity		1
YQ98-13	spring		1	YQ96-21	screw	BT3.5*22	4
YQ98-14	trigger block		1	YQ98-28	magnetic bar	⌀5.3*L17.3	2
YQ98-15	trigger pin		1	YQ98-29	ellipse gear		2
YQ98-16	trigger lock pin		1	YQ98-30	rotate shaft		2
YQ98-17	seal ring	⌀15*⌀2.65 NBR	1	YQ98-31	seal ring	⌀54.5*⌀1.8 NBR	1
YQ98-27	flexible nozzle		1	YQ98-32	cavity cover		1
YQ96-39	valve coil		1	YQ96-33	hex screw	M5*15	8
YQ96-40	seal ring	⌀20*⌀1.8 NBR	1	YQ96-35	circuit board		1
YQ96-41	seal ring	⌀24*⌀1.8 NBR	1	YQ96-36	upper cover		1
YQ96-42	seal ring	⌀7*⌀2.2	1	YQ98-37	glass plate	55*28*1.0 PMMA	1
YQ96-43	reset spring		1	YQ96-54	key handle cap		2
YQ96-46	seal ring	⌀10*⌀1.8 NBR	1	YQ96-55	key mask	PVC	1
YQ96-47	valve cover		1	YQ96-57	protection sleeve		1