

Operating Instruction of New Model High Pressure Aerator



Thank you very much for choosing us. The new and good-looking machine will bring you a very safe, quiet and clean working environment. Meanwhile, Our team will provide you with the best service. When you opening the box, please check whether the accessories are complete against the packing list. if you have any questions, please contact your sales manager timely to reduce your loss.

Packing list

- 1 Manual 1 pc
- 2 Power Cord 1 pc (Please make sure if the power plug is suitable for local outlet)
- 3.High Pressure Outlet Hose 1 pc (Quick connector is available on 2 ends. Testing Plug is on 1 end.)
- 4.High Pressure Pumps 1 unit
- 5. Maintain tooling and accessories;



Spare parts list:

| Serial No. | Name | Serial No. | Name | Serial No. | Name |
|------------|---------------------|------------|--------------------------------|------------|---------------------------|
| 1 | Face spanner | 11 | S8 Hex key spanner | 21 | High pressure piston ring |
| 2 | 10x14x19Box Spanner | 12 | Outer dia. 30*1.5 sealing ring | 22 | U model valve block |
| 3 | Cleaning pin | 13 | Outer dia40*2sealing ring | 23 | 1 stage valve plate |
| 4 | 14-17 open-end | 14 | 33 inner piston | 24 | 2 stage valve |

| | spanner | | rings | | plate |
|----|------------------------|----|---------------------------------|----|----------------------------------|
| 5 | 12-140 pen-end spanner | 15 | 40 outer piston rings | 25 | 2nd level piston spring |
| 6 | screwdriver | 16 | Outer dia. 16*1.8 sealing ring | 26 | anti bursting film |
| 7 | Needle grease | 17 | Outer dia 16*1.5 sealing ring | 27 | Discharge valve sealing washer 垫 |
| 8 | S2 hex key spanner | 18 | 6mm inner sealing sleeve | 28 | Φ7 conical spring |
| 9 | S2.5 Hex key spanner | 19 | Outer dia. 10.*1.2 sealing ring | 29 | Φ conical spring |
| 10 | S5 Hex key | 20 | Outer dia 14*1.5 sealing ring | | |

Machine Parameter:

- 1, Model:GX-4*2E-110
- 2, Power supply: 110V 60HZ
- 3, Power:1.2KW
- 4, Max current:13A
- 5, Weight:
- 6, Operating noise:64-72db
- 8.Speed of filling air; (0-4500Psi) 6min/L
- 9.cooling method; water cooling+ windy cooling
- 10.Lucbrating method:Oil-free dry lucbrating
- 11.Operating method:Continuously working for 8 hours

Acceptance test.

While purchasing our products, please buy a bottle of around 1L of advanced neutral coolant for your local cars at the same time. Because its features are suitable for your local climate environments.

1: The connection of the power supply: choose the appropriate power outlet, connect the power supply to the machine, and toggle the red boat-shaped over-current protection switch, At this moment, the light of the stop red button will light up and hear the sound of the fan inside the machine. So switch the boat switch to turn off the power supply immediately after making sure that both items are normal!

2, Open the cover of coolant water tank on the top of the machine, add coolant to full, wait for 2 - 3 minutes, turn on the boat switch, and water pump starts to work. At this moment, the water flow on the side of the machine shows that the wheel will turn, and there will be a return water flow out of the water tank mouth. The water in the tank will be reduced, please continue to add it to level with the water outlet, and make sure everything is normal and close the water tank cover.

3. Pump up and pressure maintaining test: open the vent valve knob, remove the protective sleeve of

high-pressure outlet , start the machine and run for 5 minutes. Connect the quick joint of the high pressure hose to the high pressure outlet of the machine, screw and close the vent valve while the machine is running, and observe the pressure gauge. It normally takes 20 seconds from 0 to 4500Psi. If more than 25 seconds or the pointer hovers in a certain range, there is a possibility of air leakage.

Please check whether the quick joint is connected properly, you can rotate the quick joint with pressure and seal automatically.

When the pressure reaches 4500Psi and the machine stops automatically, observe whether the pointer of the pressure gauge falls back. It is normal to drop 2 to 3 units. If it falls back to 3000Psi, please tighten the vent valve and start up to check again.

Air leakage usually happened in the connection between the quick joint and the machine, the joint between the quick joint and the filled vessel, or the valve of the filled vessel.

4. Operation rules of high pressure air inflation

I: It is prohibited that use this machine inflate for the vessel not conformity. Please choose the one which was checked and qualified. No use the high pressure vessel bottle that more than year limitations. Unqualified, expired high-pressure bottles will cause the risk of bursting in the process of inflation and use, please pay attention to it!

II: Please read the instructions of high-pressure cylinders carefully to understand the maximum pressure and normal working pressure of your cylinders, as well as their service life.

Please do not try to charge a pressure higher than the specified value.

III. In the process of inflation, please stay away from high-pressure cylinders as far as possible.

Do not remove any screws and accessories from the machine during inflation.

IV: Check the coolant often and add it in time. Tightening the lid of the water tank will reduce the evaporation of the coolant, and the lack of coolant for a long time will shorten the service life of the machine due to high temperature.

V: please do not modify the main part of the high-pressure air pump without authorization. The air outlet can be modified with multiple joints to inflate multiple cylinders at the same time.

VI. Operate the machine in strict accordance with the following procedures;

1. Open the vent valve,
2. Start the machine.
3. When the pressure shown on the pressure gauge is about the same as that on the cylinder, open the valve on the cylinder slowly.
4. Do not turn off the power immediately after charging and shutting down. Leave the machine cooling for 2- 3 minutes.
5. Close the valve on the cylinder before opening the vent valve.

VII: Please twist grease injector for 1 bar after machine working for 4 to 6 hours .If inject too much grease it would be affect the quality of the gas.

Frequently questions and solution:

1. Plug in the power toggle switch but the indicator light of the machine is not on, and it will not start.-----As the pin plug is a standard part, you can use other electrical appliances with the pin plug to test whether the cable is in good condition. If so, please check whether the pin plug and the boat-shaped over-current switch are damaged.

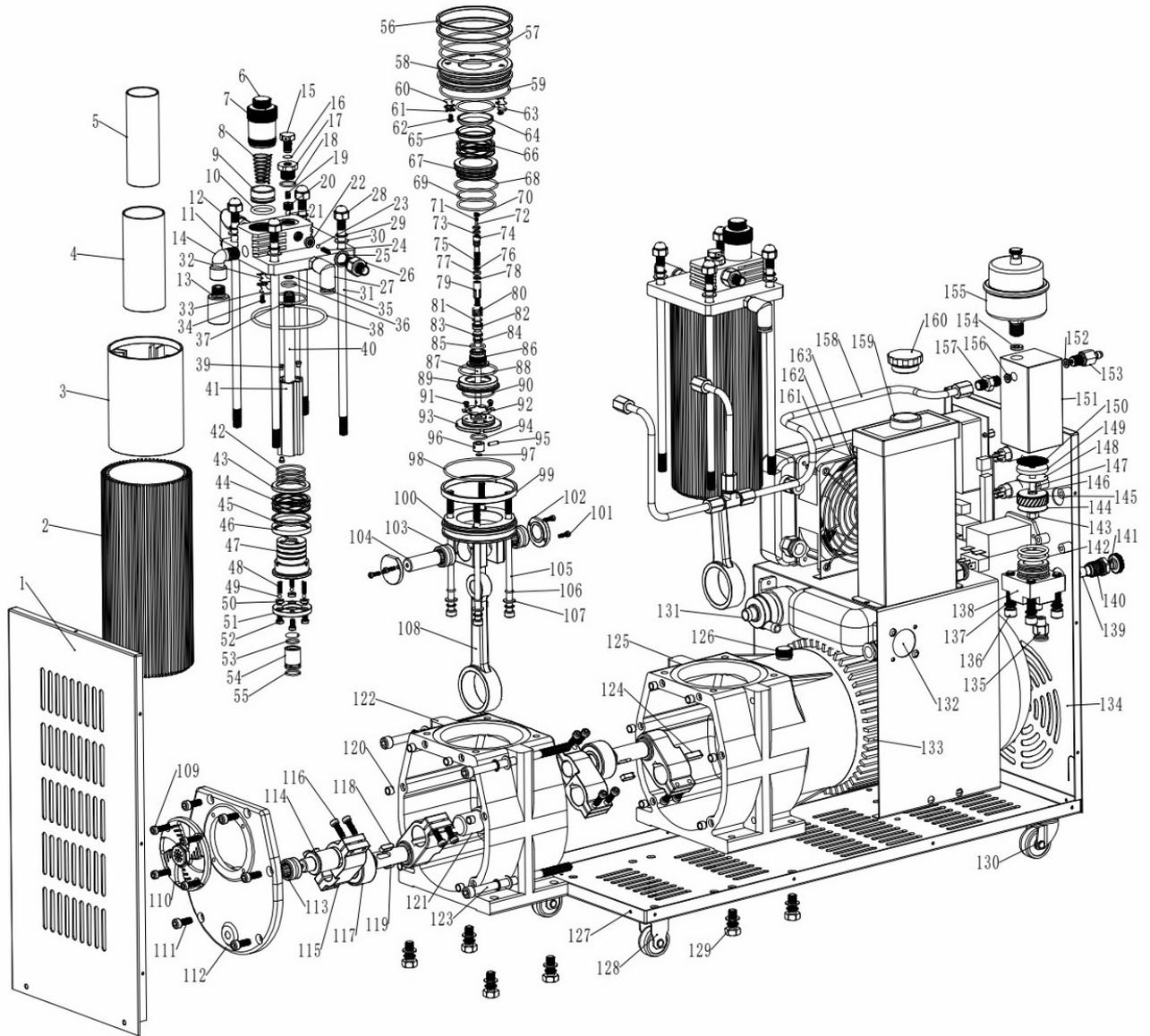
2. Indicator lights and fan pumps can operate very well, but the machine cannot start.
-----Check whether or not the control pointer and running pointer of the pressure gauge overlapped. Check if the plug between the circuit board and the button is loose or not.

3.The speed of filling air become slow down, and it takes twice times.-----
There is something wrong with the head of a pump and can't filling air.
Remove the high pressure one-way valve on a pump head at the top of the machine, install the maintenance screw, and install the hose with the test plug.
Start the machine, if the pressure gauge is not displayed, there is something wrong with the other pump head. Otherwise, there is something wrong with the pump head.

4. The air cannot filled completely , or the speed is too slow.
-----Test with the test plug, and if the speed is normal, please check if the valve of the cylinder is leaking or the quick joint is leaking or not.
If there is still a problem after testing plug, please remove the protective cover of the machine and check whether the air pipe inside the machine is leaking.
Check if air tube inside machine is leak or not. The way of checking air leakage is to use leak detection fluid or soapy water, apply it to the joint with a brush, or start the machine to listen to the sound of air leakage with your ears.

Maintenance Notes: Please add grease in time, if you forget to add it and the speed of filling air is slow down, you can turn the filling amount for 1 round.
Disassemble and maintain the machine under the guidance of a mechanical engineer or our after-sales personnel. Environmentally sanitary exclusively lubricating grease only can be added.

Corresponding spare parts name and equipment explosive view.:



| Serial No. | Name | Serial No. | Name | Serial No. | Name | Serial No. | Name |
|------------|---------------------------|------------|-------------------------------|------------|---------------------------|------------|--------------|
| 1 | Back side panel | 42 | outer dia. 30*1.5sealing ring | 83 | 6mm inner sealing sleeve | 124 | 6*24flat key |
| 2 | 1st level cylinder sleeve | 43 | 2nd level piston spring base | 84 | sealing base locating pad | 125 | Crank case |
| 3 | Tracheal tube | 44 | Wave spring | 85 | outer dia. 16*1.8sealing | 126 | M10 vent cap |

| | | | | | | | |
|----|---------------------------------------|----|-------------------------------------|-----|-------------------------------------|-----|-----------------------------------|
| | | | | | ring | | |
| 4 | 2nd level cylinder sleeve | 45 | 40taper washer | 86 | Sealing socket | 127 | baseboard |
| 5 | 3 rd level cylinder sleeve | 46 | 40conical washer | 87 | High pressure rod | 128 | wheel |
| 6 | Oil cylinder screw | 47 | 2nd level piston | 88 | outer dia40*2sealing ring | 129 | M8*19outer hex screw |
| 7 | Oil cylinder | 48 | 2nd level piston spring | 89 | 1st level valve space ring | 130 | Universal wheel |
| 8 | Oil cylinder spring | 49 | 4mm steel ball | 90 | outer dia33*1.5sealing ring | 131 | water pump |
| 9 | Oil cylinder piston | 50 | 2nd level piston valve pad | 91 | M3*4 round head hex socket screw | 132 | Water flow display |
| 10 | Outer dia. 25*3 sealing ring | 51 | 2nd level piston valve base | 92 | U valve slice | 133 | motor |
| 11 | Cylinder base | 52 | M4*8low head hex socket screw | 93 | 1st level valve base | 134 | Back side panel |
| 12 | Joint PL10-01 | 53 | outer dia14*1.5sealing ring | 94 | outer dia17*1.5sealing ring | 135 | PC8-01 connector |
| 13 | Pr-filter | 54 | 2nd level piston screw sleeve | 95 | 3*10.5 pin | 136 | M8*40 hex screw |
| 14 | Elbow 90 degree joint | 55 | outer dia16*1.5sealing ring | 96 | High pressure rod bushing | 137 | M8 spring pad |
| 15 | explosion -proof nut | 56 | 78*3rider ring | 97 | outer dia6*1sealing ring | 138 | filter base |
| 16 | explosion -proof film | 57 | outer dia73*2sealing ring | 98 | outer dia73*2sealing ring | 139 | vent valve sealing pad |
| 17 | Explosion-proof nut base | 58 | Dead plate | 99 | 78*6 rider ring | 140 | vent nut |
| 18 | outer dia17*1.5sealing ring | 59 | outer dia73*2sealing ring | 100 | Down dead base | 141 | Vent valve |
| 19 | φ 7 conical spring | 60 | Two stage valve slice | 101 | M3*10 hex socket head screw | 142 | outer dia. 32*3sealing ring |
| 20 | One way base | 61 | two stage valve protective slice | 102 | bearing cap | 143 | M6cap nut |
| 21 | One way valve | 62 | M3*6ground head hex socket screw | 103 | N4900 bearing | 144 | water-protective board |
| 22 | Two stage valve | 63 | outer | 104 | Connecting rod pin | 145 | separate washer |

| | | | | | | | |
|----|----------------------------------|----|--------------------------------------|-----|--------------------------------|-----|--------------------------------------|
| | washer | | dia. 40*2sealing ring | | | | |
| 23 | 4mm steel ball | 64 | 33inner piston ring | 105 | M6*130 inner hex socket screw | 146 | outer dia. 9*1.5sealing ring |
| 24 | 4.2*15 spring | 65 | 33taper washer | 106 | outer dia. 8.8*1.5sealing ring | 147 | filter tube |
| 25 | 12mm complex washer | 66 | wave spring | 107 | M6flat washer | 148 | filter board |
| 26 | output connector | 67 | dead plate pressure ring | 108 | Connecting rod | 149 | wool pad |
| 27 | Connector PL8-01 | 68 | outer dia. 45*2sealing ring | 109 | M5*16inner hex socket screw | 150 | metal screening |
| 28 | M8 cap nut | 69 | outer dia. 40*2sealing ring | 110 | round cover of bent shaft box | 151 | filter body |
| 29 | M8 spring washer | 70 | high pressure piston pressuring ring | 111 | M6*15inner hex socket screw | 152 | sealing washer |
| 30 | M8 flat washer | 71 | Φ3conical spring | 112 | bent shaft cover | 153 | outlet quick connector terminal male |
| 31 | M8srew | 72 | high pressure valve plug | 113 | N4900bearing | 154 | sealing washer of pressure gauge |
| 32 | one stage valve slice | 73 | high pressure piston open ring | 114 | Locating shaft | 155 | pressure gauge |
| 33 | one stage valve protective board | 74 | high pressure piston | 115 | complex bent shaft two stage | 156 | Sealing washer |
| 34 | M3* round head inner hex screw | 75 | high pressure piston spring | 116 | M5*16inner hex screw | 157 | M10X1 connector |
| 35 | Copper slice | 76 | high pressure piston copper washer | 117 | 5203 double row bearing | 158 | metal high pressure tube |
| 36 | Outer dia 16*2sealing ring | 77 | high pressure piston ring | 118 | 5*16 key block | 159 | Water tank |
| 37 | Outer dia. 37*2sealing ring | 78 | high pressure piston washer | 119 | Complex bent shaft 1 stage | 160 | Water tank cover |
| 38 | Outer dia78*3sealing ring | 79 | high pressure piston base | 120 | 8mm locating sleeve | 161 | Heat sink |

| | | | | | | | |
|----|--------------------|----|-------------------------------|-----|------------------------------|-----|--------------------------|
| 39 | water location pin | 80 | sealing base spring | 121 | conversion shaft | 162 | cooling fan |
| 40 | high pressure tube | 81 | outer dia. 10*1.2sealing ring | 122 | Two stage crankcase | 163 | fan protective screening |
| 41 | Inner liner | 82 | 6mm taper washer | 123 | M8*130inner hex socket screw | | |

Circuit diagram;

启动: start 停止: off 压力表 pressure gage 控制板 control board 计时器 timer
过流开关 over current switch 水泵 water pump 电机 motor 风扇 fan

