

MAINTENANCE AND REPAIR RECORDS

MAINTENANCE  
REPAIR DATE

MAINTENANCE  
REPAIR ITEMS

REMARKS

# **OIL-FREE SILENCING AIR-COMPRESSOR MANUAL**

**CHICAGO**  

---

**AIR COMPRESSORS** 

# MANUAL

## Foreword Safety Requirements

- I . Products receive
- II . Installation and Precautions
  1. selection of installation places
  2. wiring
- III . Pre-operation inspection matters
- IV . Precautions before operation
- V . The adjustment of the pressure control system
- VI . Safety valve
- VII . Motor repair
- VIII . Regular inspection and maintenance matters
- IX . Common Faults and exclusion
- X . Pump head exploded view
- XI . Air compressor warranty paper

## OPERATION MANUAL

Safety requirements described

### OPERATE

1. Remove all attachments for security and maintenance signs
2. Open then close the drain valve to confirm to drain all sewage
3. Check to make sure all safety equipment are in proper operating state
4. Air compressor maximum allowable working temperature is +40'c, minimum temperature-5'c, humidity less than 80%.
5. Air compressor should release the tank pressure before moving, air compressor should be placed stability, prevent movement of the machine caused by vibration

### MAINTAIN

1. All maintenance work should be done after the compressor stopped and released the pressure
2. Should cut off the power (unplugged) to repair air compressor
3. Air compressor safety valve annually checked at least once, the pressure gauge should be measured at the time limit prescribed by the relating department, the air pressure switch should be checked regularly to ensure that it is in normal working condition
4. All shields, warning signs and other safety system should be checked regularly to ensure good.
5. The air tank should be regularly done the pressure test, five-year inspection cycle at least once
6. Regular cleaning or clean up the air compressor parts, easy to Volatile and flammable cleaning agents should not be used under any circumstances, including harmful cleaning agents. After the cleaning is finished, all parts should be rinsed and dried

### I . Receive product

Upon receipt of the product, Please check the following.

1. Check the air compressor with the purchase of the Model specifications is compatible
2. Whether it be damaged during transport
3. Whether the lack of availability of accessories and bolts loose
4. Accompanying files (using manual, warranty documents, etc.) are included.

Any case happens in these case mentioned before, please contact the source you buy from within one week, they must help you to solve all problems.

### II . Installation and Precautions

Warning: non-dusty, high humidity environments, storage and use of air compressor any case, the air compressor shall avoid raining or watering.

1. selection of installation places
  - A. clean air, well-ventilated place to prolong the service life of the machine and reducing energy consumption
  - B. Full sunshine, enough room to do maintenance, keeps the air filter clean
  - C. The machine placed horizontal, cannot be too close to the wall, so as not to affect the cooling effect (should be left with the wall distance of more than 30 cm)

Machine placed in a smooth, hand push will not swing

### 2. Wiring

Warning: inferior socket due to poor quality causing the machine is not working properly, or even damage to the machine, please use good quality socket.

- A. Power cord should be rubber cone, cable ground wire should be grounded.
- B. Before connecting power, please carefully check the voltage and frequency of the power supply is properly matched with the machine requires
- III . Pre-operation inspection matters
1. Check the various parts of the bolt or nut with or without loosening, if loosening, tighten
  2. Airline is normal
  3. Wires and electrical switch is properly as the machine requires, the wiring is correct or not
- IV. Precautions before operationWarning: never to remove the muffler when operation of the air compressor
- After Pre-operation checking, fully open the exhaust volume valve, then put the air pressure switch button in the open position, start the machine to run for about 3-5 minutes under no loading condition, which can increase the life of the air compressor and motor.
2. The machine works well in no loading condition, then close the exhaust volume valve, the air tank began to save the air, air pressure gradually increased to a predetermined pressure, and then it's the time to do the protection function test
  3. Protection function test  
Predetermined pressure is reached, the air pressure switch automatically cut off the power supply, the motor stops running the exhaust volume valve opens, the air compressor automatically start working when the air pressure inside the tank is reduced to the starting pressure, until the pressure inside the tank reaches

- a predetermined pressure .
- V. The adjustment of the pressure control systemWorking pressure of the air pressure switch is adjusted at the factory, Please do not make changes to the settings, if it prove s necessary to change , should consult our technical department before the change, and under the guidance of our technical staff to do pressure adjustment Horizontal the switch Figure vertical switch Figure
1. Increase / decrease the use of pressure: obedient / counterclockwise rotation pressure adjustment screw (Figure)
  2. Adjust the pressure, not to exceed the rated working pressure of the air compressor
- VI. Safety valve
- Safety valve discharge pressure has been set in the factory, Do not adjust it, if you really need to change the safety valve setting pressure, please contact us
- VII. Motor repairMotor and air compressor surfaces should be kept clean
- The motor vibration and noise will be significantly increased, when its inside bearing is the end of life, please change the bearing in time
- VIII. Regular inspection and maintenance matters
1. Keep the machine clean
  2. The tank drain valve open daily, to remove sewage
  3. Clean the air filter paper surface dust with compressed air blowing after the machine works one month, about six months to replace the air filter
  4. monthly check the tightness of the various parts of screws
  5. Replaced piston rings about every six months (the replacement depends on the working situation)

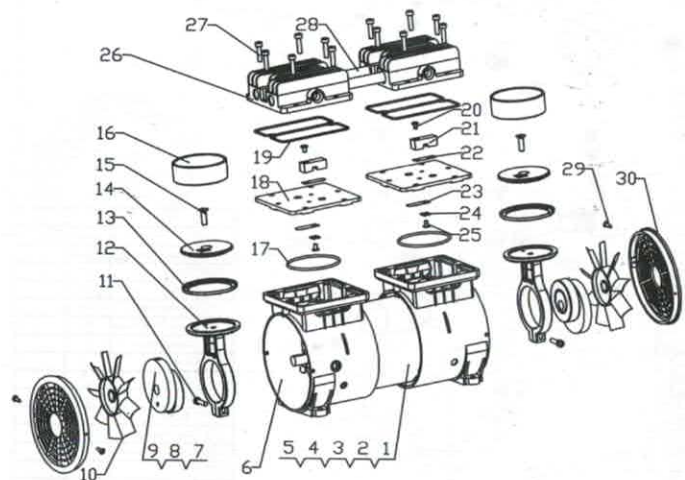
6. Should clean up the intake and exhaust volume valves every six months

IX. Common Faults and exclusion

Common malfunction	The cause of the malfunction	Solution
The air pressure cannot rise or rise to a certain extent, then no longer rising.	Coupler leaking Exhaust pipe leaking Air consumption too large Piston rings over-use Dust on valve, fail to seal Seal ring not working	Check and exclude Replacing the exhaust pipe Reduce the air consumption Replacement of piston rings Clean or replace the valve Replace the seal rings
Motor overheating	Working pressure exceeds the rated pressure The voltage is too high or too low Capacitance damage The motor bearings resistance	To use at rated pressure installation stabilizer Replace the capacitor Replacement of bearings
Machine over- vibration	The machine placed not smooth Rubber feet loosed or broken Crank screws loose Piston rings over-use	Place the machine smooth Tighten screws or replace the cushion Re-install the crank by professional persons Replacement of piston rings
No sound	No Power Plug and socket connection problem Motor malfunction	Power input Using quality plug and socket Send to professional place to repair
Machine over- noise	Piston rings over-use Bearing damage Object in the machine	Replacement of piston rings Replacement of bearings Removing object

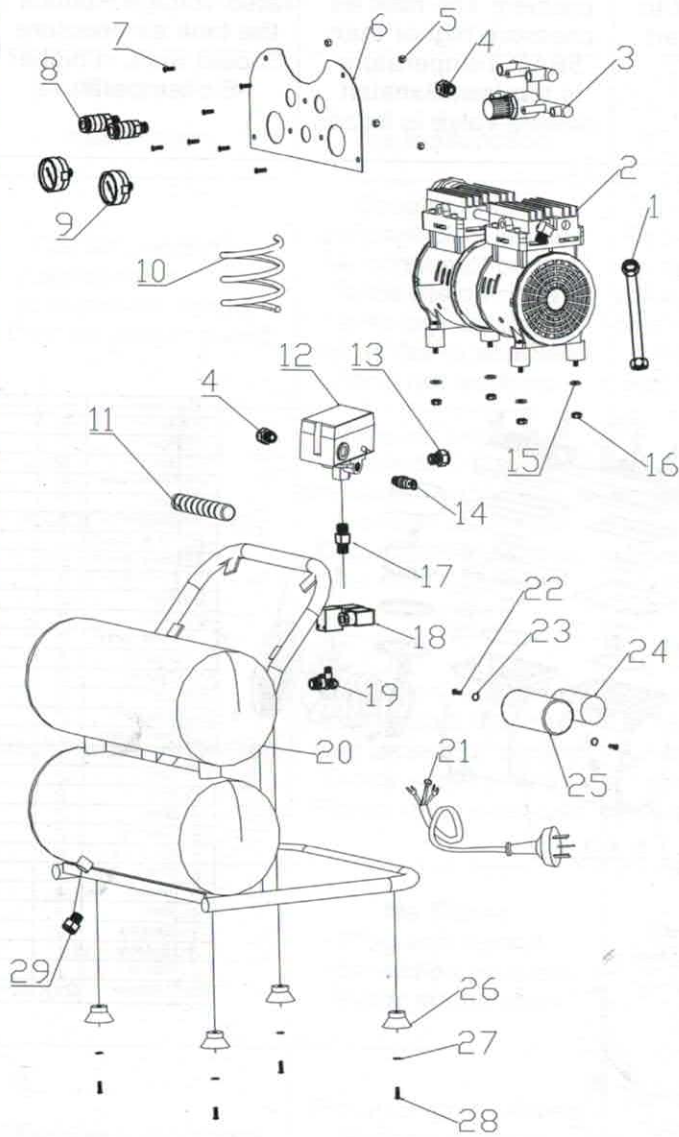
Machine is difficult to start or cannot start	Exhaust valve blocked Voltage is too low Plug and socket connection problem The tank air pressure higher than 5BAR Temperature is too low, Exhaust volume-valve is frozen	Exclude object Adjust the voltage to the rated voltage Reduce the tank air pressure Should work in higher -5°C temperature
---	---	---

X. exploded view



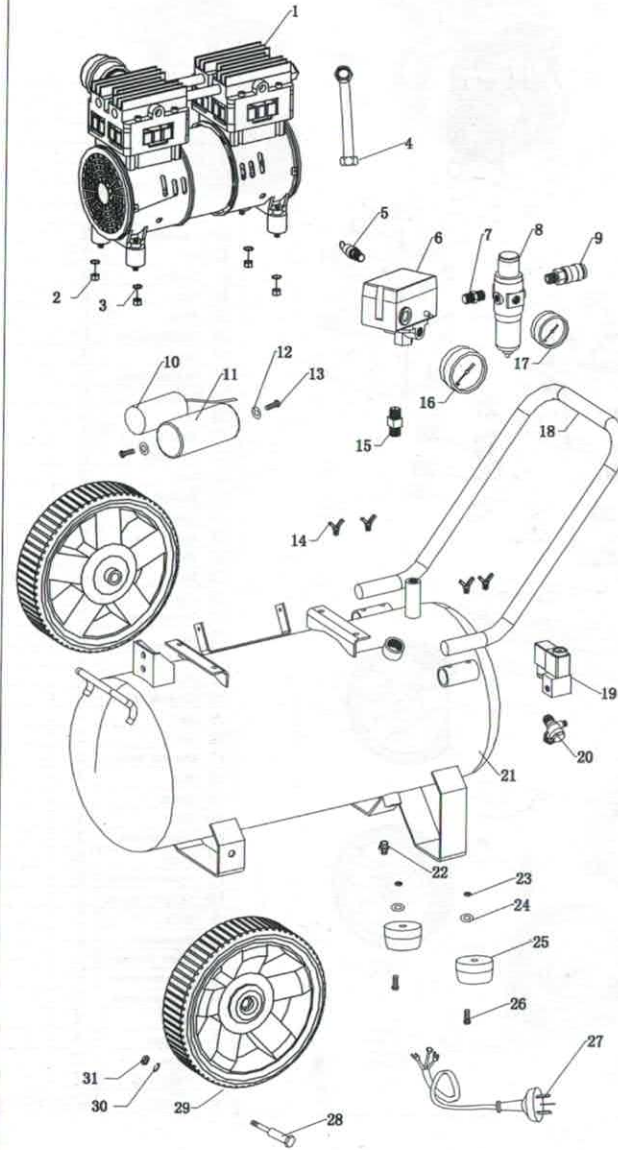
30	Cover	2	
29	Bolt	4	
28	Pipe	2	
27	Bolt	12	
26	Cylinder cover	2	
25	Bolt	2	
24	Gasket	2	
23	Valve sheet	2	
22	Valve sheet	2	
21	Limit block	2	
20	Bolt	2	
19	Ring	2	
18	Valve plate	2	
17	Ring	2	
16	Cylinder	2	
15	Bolt	2	
14	Platen	2	
13	Piston ring	2	
12	Connecting rod	2	
11	Bolt	2	
10	Fan	2	
9	Bolt	2	
8	Bearing	2	
7	Crank	2	
6	Crank case	2	
5	Gasket	4	
4	Bolt	4	
3	Bearing	2	
2	Rotator	1	
1	Stator	1	
No.	Name	Qty.	Note

# HUSH20



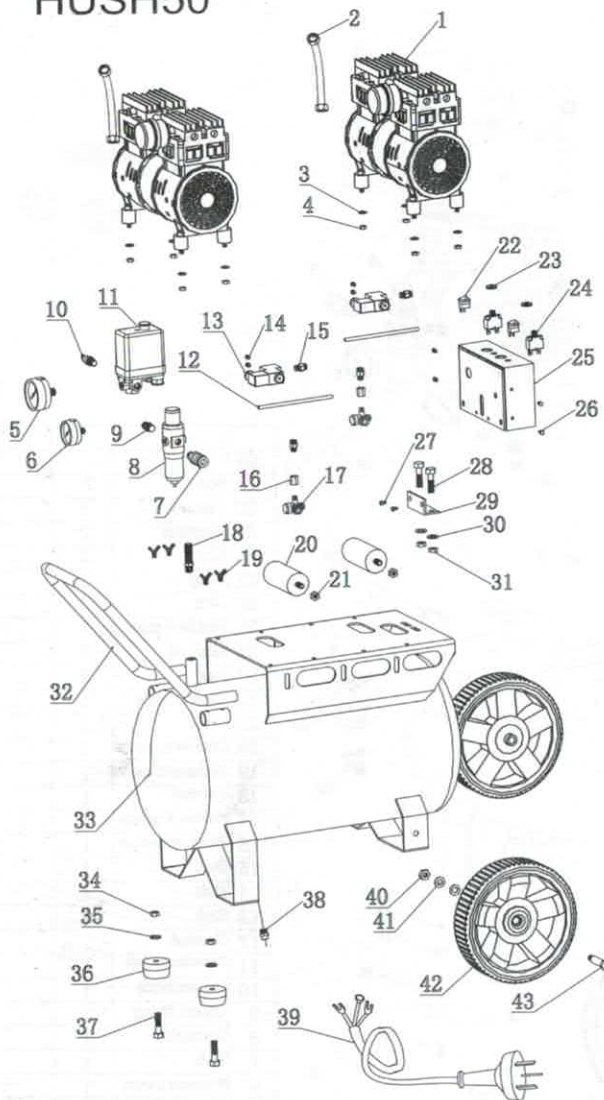
No.	Name	Qty	Note
29	Drain valve	1	
28	BOLT	4	
27	Gasket	4	
26	Rubber pad	4	
25	Capacitance box	1	
24	Capacitance	1	
23	Gasket	2	
22	BOLT	2	
21	Plug	1	
20	Tank	1	
19	One way valve	1	
18	Solenoid valve	1	
17	BOLT	1	
16	Nut	4	
15	Gasket	4	
14	Safety valve	1	
13	Blocking	1	
12	Pressure switch	1	
11	Handle sleeve	1	
10	Pipe	1	
9	Pressure gauge	2	
8	Quick fitting	2	
7	BOLT	4	
6	Panel	1	
5	Nut	4	
4	Joint	2	
3	Support	1	
2	Pump 550	1	
1	Pipe	1	

# HUSH30



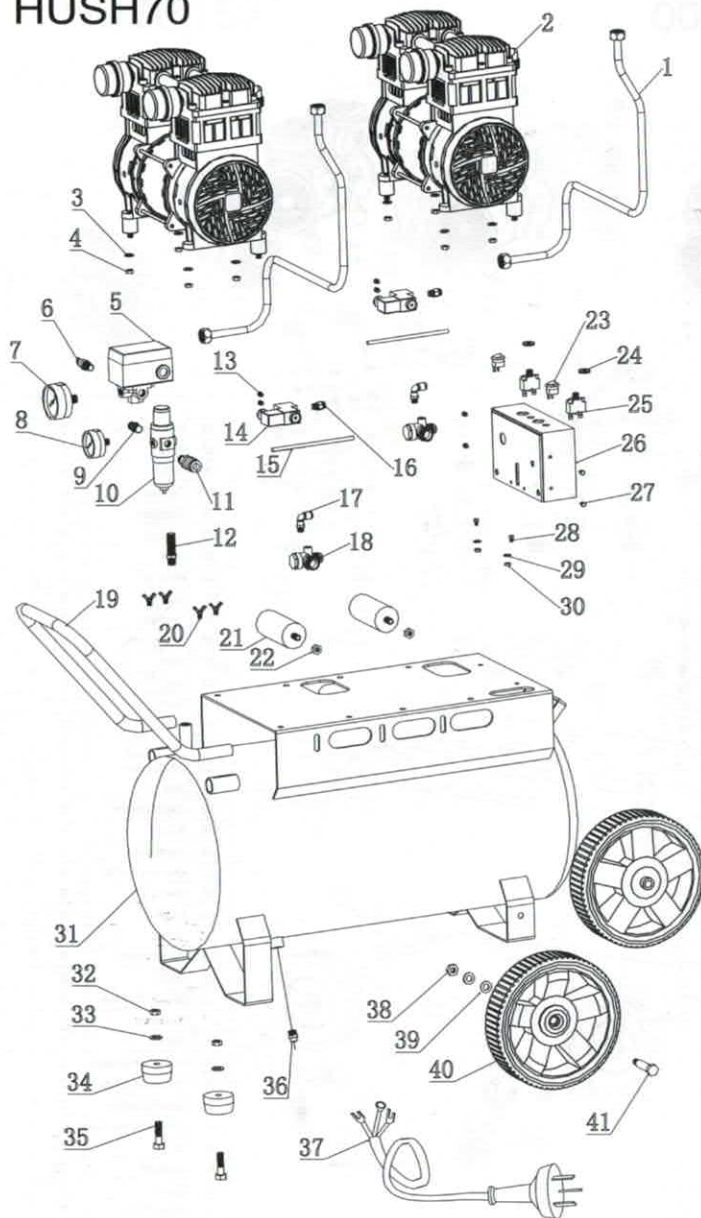
No.	Name	Qty.	Note
32			
31	Nut	2	
30	Gasket	4	
29	Casters	2	
28	Bolt	2	
27	Plug	1	
26	Bolt	2	
25	Rubber pad	2	
24	Gasket	2	
23	Nut	2	
22	Drain valve	1	
21	Tank	1	
20	One-way valve	1	
19	Solenoid valve	1	
18	Handrail	1	
17	Pressure gauge	1	
16	Pressure gauge	1	
15	Bolt	1	
14	Bolt	4	
13	Bolt	2	
12	Gasket	2	
11	Capacitance box	1	
10	Capacitance	1	
9	Quick fitting	1	
8	Decantor	1	
7	Bolt	1	
6	Pressure switch	1	
5	Safety valve	1	
4	Pipe	1	
3	Gasket	4	
2	Nut	4	
1	Pump 750	1	

# HUSH50



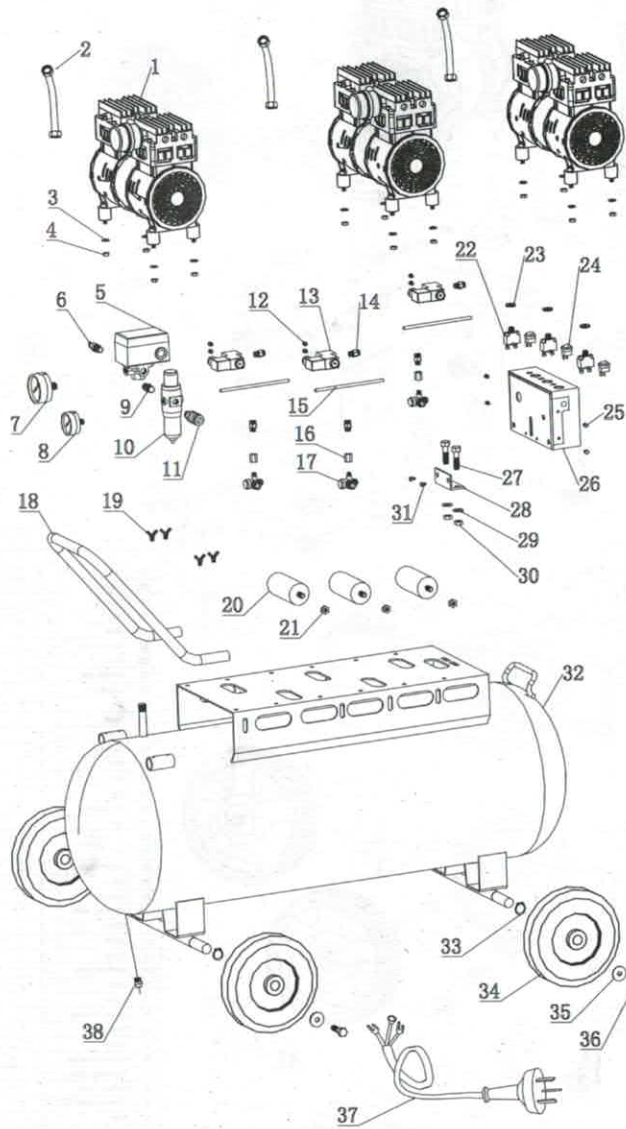
No.	Name	Qty	Note
43	Casters	2	
42	Nut	2	
41	Gasket	2	
40	Nut	2	
39	Plug	1	
38	Drain valve	1	
37	Bolt	2	
36	Rubber pad	2	
35	Gasket	2	
34	Nut	2	
33	Tank	1	
32	Handrail	1	
31	Nut	2	
30	Gasket	2	
29	Angle iron	1	
28	Bolt	2	
27	Bolt	2	
26	Bolt	4	
25	Box	1	
24	Protector	2	
23	Nut	2	
22	Switch	2	
21	Nut	2	
20	Capacitance	2	
19	Bolt	4	
18	Bolt	1	
17	One way valve	2	
16	Nut	2	
15	Joint	4	
14	Bolt	4	
13	Solenoid valve	2	
12	Pipe	2	
11	Pressure switch	1	
10	Safety valve	1	
9	Bolt	1	
8	Decantor	1	
7	Quick fitting	1	
6	Pressure gauge	1	
5	Pressure gauge	1	
4	Nut	8	
3	Gasket	8	
2	Pipe	2	
1	Pump 750	2	
No.	Name	Qty	Note

# HUSH70



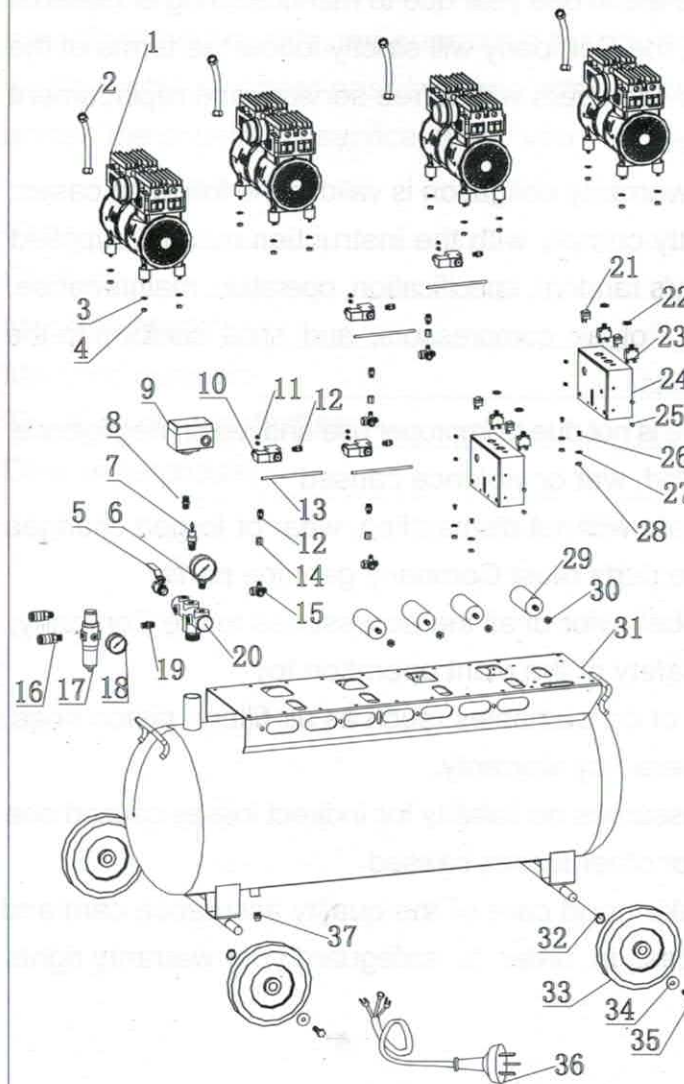
41	Bolt	2	
40	Camms	2	
39	Gasket	4	
38	Nut	2	
37	Plug	1	
36	Drain valve	1	
35	Bolt	2	
34	Rubber pad	2	
33	Gasket	2	
32	Nut	2	
31	Tank	1	
30	Nut	2	
29	Gasket	2	
28	Bolt	2	
27	Bolt	4	
26	Box	1	
25	Protector	2	
24	Nut	2	
23	Switch	2	
22	Nut	2	
21	Capacitance	2	
20	Bolt	4	
19	Handrail	1	
18	One-way valve	2	
17	Joint	2	
16	Joint	2	
15	Pipe	2	
14	Solenoid valve	2	
13	Bolt	4	
12	Joint	1	
11	Quick fitting	1	
10	Decantor	1	
9	Joint	1	
8	Pressure gauge	1	
7	Pressure gauge	1	
6	Safety valve	1	
5	Pressure switch	1	
4	Nut	8	
3	Gasket	8	
2	Pump 1100	2	
1	Pipe	2	
No.	Name	Qty	Note

# HUSH100



38	Drain valve	1	
37	Plug	1	
36	Bolt	4	
35	Gasket	4	
34	Casters	4	
33	Gasket	4	
32	Tank	1	
31	Bolt	2	
30	Nut	2	
29	Gasket	2	
28	Angle iron	2	
27	Bolt	2	
26	Box	1	
25	Bolt	4	
24	Switch	3	
23	Nut	3	
22	Protector	3	
21	Nut	3	
20	Capacitance	3	
19	Bolt	4	
18	Handrail	1	
17	One-way valve	3	
16	Joint	3	
15	Pipe	3	
14	Joint	6	
13	Solenoid valve	3	
12	Bolt	6	
11	Quick fitting	1	
10	Decantor	1	
9	Joint	1	
8	Pressure gauge	1	
7	Pressure gauge	1	
6	Safety valve	1	
5	Pressure switch	1	
4	Nut	12	
3	Gasket	12	
2	Pipe	3	
1	Pump 750	3	
No.	Name	Qty	Note

# HUSH150



38			
37	Drain valve	1	
36	Plug	1	
35	Bolt	4	
34	Gasket	4	
33	Casters	4	
32	Gasket	4	
31	Tank	1	
30	Nut	4	
29	Capacitance	4	
28	Nut	4	
27	Gasket	4	
26	Bolt	4	
25	Bolt	8	
24	Box	2	
23	Protector	4	
22	Nut	4	
21	Switch	4	
20	Seven-way Joint	1	
19	Joint	1	
18	Pressure gauge	1	
17	Decantor	1	
16	Quick fitting	2	
15	One-way valve	4	
14	Joint	4	
13	Pipe	4	
12	Joint	8	
11	Bolt	8	
10	Solenoid valve	4	
9	Pressure switch	1	
8	Joint	1	
7	Safety valve	1	
6	Pressure gauge	1	
5	Ball valve	1	
4	Nut	16	
3	Gasket	16	
2	Pipe	4	
1	Pump 750	4	
No.	Name	Qty	Note



## XI. Air compressor warranty paper

Thank you for your choose our oil-free silencing air-compressor.

The Company's guarantee to the user: the air compressor from the delivery date within one year due to manufacturing or material adverse failure, the Company will strictly follow the terms of the warranty, to provide users with a free service, and replacement of damaged parts

1. The equipment warranty obligation is valid in the following cases:  
User must strictly comply with the instruction manual supplied with the company's random, specification, operation, maintenance, and maintenance of air compressors, and shall conform to the normal work habits
2. This product failure is not due to improper use and repair, negligence or non-acts of God, war or violence caused  
Product nameplate without dismantling, wear or forged changes
3. The use of spare parts must Company genuine parts  
(CAUTION: the behavior of all the accessories to the Company, may affect the safety of the plant operation to)
4. The normal use of consumables (such as air filters, piston rings, etc.) are not covered by warranty.
5. The Company assumes no liability for indirect losses caused due to the machine or other losses caused
6. Users Please take good care of the quality assurance card and purchase invoices, in order to safeguard your warranty rights enjoyed

## Air compressor quality assurance card

Thank you for choosing our oil-free air compressor.

If you are under the normal conditions of use, quality problems or failures that affect the use of the air compressor in materials and manufacturing quality, we guarantee for you to provide the best quality in the shortest possible time after-sales service network across the country by service, thank you

User: \_\_\_\_\_

Contact: \_\_\_\_\_

Machine Model: \_\_\_\_\_

Machine number: \_\_\_\_\_

The date of manufacture: \_\_\_\_\_

Date of purchase: \_\_\_\_\_