

**Fengda®**  
Professional airbrush tools

**ECO**

**Save This Manual** keep this manual for the safety warnings and precautions, assembly, operating. Only use the machine as explained in this booklet and only for its intended purpose.  
keep this manual and the receipt in a safe and dry place for future reference.

## Owner's Manual & Safety Instruction



**MODEL: FD-186**

### **NOTICE**

Clean the Airbrush **IMMEDIATELY** after use.  
Delayed or inadequate cleaning will permanently clog the Airbrush.

## 1. Features & Functions

1. Air tank; providing smooth air flow, zero pulse.
2. Air pressure gauge; air filter; pressure adjustable.
3. Piston type; Oil free & None air polluted. Low noise.
4. It can start with air, continuous working, powerful.
5. Auto start and auto stop function.
6. Thermally protected inside. Safety Protect devices for air tank.

## 2. Application Field

Airbrush air compressor FD-186, together with airbrush, can be widely used in craftwork spraying, cosmetics, temporary tattoo, tanning, hobbies/models, fingernail painting and so on. Moreover, it is also as the air source for medical, environment protect, breed aquatics Industrial, food Industrial, chemical industrial, laboratory and so on.

## 3. Specification

**Type:** Single Cylinder Piston Compressor With Air Tank

**Power:** 125W

**Speed:** 1450/1700 r.p.m

**Air flow:** 20-23L/min

**Auto Stop Function:** Stop at 4BAR, Re-start at 3BAR

**Air tank:** 3.0L

**Weight:** 5.0 KG

**Dimension:** 330X145X310mm

Suitable for airbrush with nozzle range 0.2mm~1.0mm.



#### 4. Operation directory

1. Usually the outlet thread size of our air compressor is 1/8" BSP. If you need the 1/4" BSP or other NPT screw thread, you may get the other adapters to fix the outlet, then you can connect with different air hoses.
2. The original air hose have rubber airproof inside; the user can make the airtight by hand, and get good performance. If the air hose is not the original, usually the air hose and air compressor cannot be well airproof. However, 100% airtight is only effective for auto stop function air compressor. Seal thread tape can be used to prevent leakage. This elastic tape is available in all stores selling sanitary products.
3. Connect the air compressor, air hose and airbrush (or other air tools), plug into the mains supply, turn on the switch, then the air compressor will start work. The press gauge will show the max pressure, and you can adjust the working pressure by adjusting the pressure adjustor.
4. Checking the air leakage. Please do not use any air tools before the compressor reach the maximum pressure and observe whether it will be auto-stop. If the compressor will not be auto-stop, please turn off the switch, then check the index on pressure gauge, if it is very steady, means the airtight is very good; While the index decline down quickly, it means there has the air leakage in the area of the connection. Please check and make it airtight, because any small leakage will affect the performance of the compressor.  
(It may lead to frequently auto-stop and auto-start).
5. The difference between maximum pressure and working pressure. The compressor's maximum pressure is the highest pressure it can build up, and the working pressure is the one shown on the pressure gauge When the connected airbrush is opened. Apparently, the working pressure is the constant pressure the compressor can maintain during airbrushing. The level of this working pressure depends on the nozzle diameter of the airbrush to which it is connected; the larger the nozzle diameter, the bigger the amount of air which can escape and the lower the compressor's working pressure.

6. The compressors have tank which can store compress air before delivery to the airbrush (or other air tools). The tank is very useful, and the advantages is followings:
- a. Tanks provide a reservoir of pressurized air that you can draw from while you're spraying.
  - b. You can draw air at a regulated pressure from the tank instead of the average pressure of the piston cylinders.
  - c. Because you're drawing air from the tank, then can eliminate the tiny pulsation in the air supply caused by the physical motion of pistons pressurizing air.
  - d. The life of the compressor engine increases because it makes air as the tank needs instead of always being on.
  - e. Tanks are great first line moisture traps.

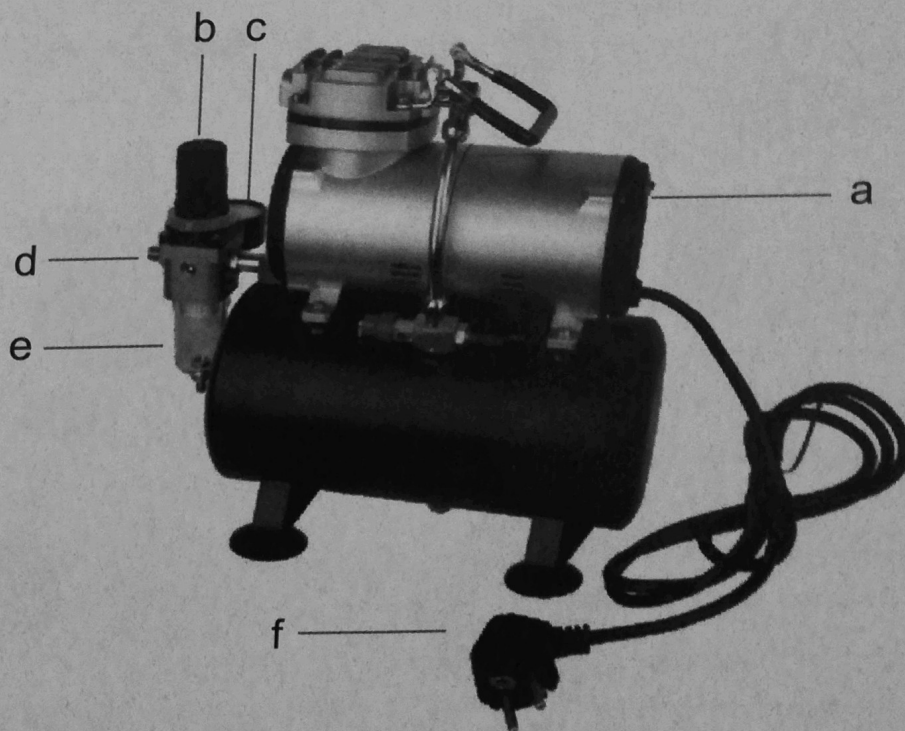
## 5. Notice

1. The users should choose the right air compressor with suitable air flow and pressure according to the actual work requirement.
2. Before connecting the compressor, check the main voltage compatible with the electrical characteristics of the motor.
3. Please follow local electrical rules, and safety rules. And use the socket which must be earthing.
4. Never leave the appliance exposed to dust, acids, vapors, explosive or flammable gasses or atmospheric agents (rain, sun, fog, snow).
5. The vacuum pump must be used in suitable environments (well-ventilated, with an ambient temperature between  $+5^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ ).
6. Never use the appliance in your bare feet or wet feet, as well as the wet hand.
7. Never allow the children to touch the working machine or insert the stick into the machine. It will cause the danger of scald or get an electric shock.
8. Do not open or tamper with any part of the compressor. Contact an authorized Service Center.



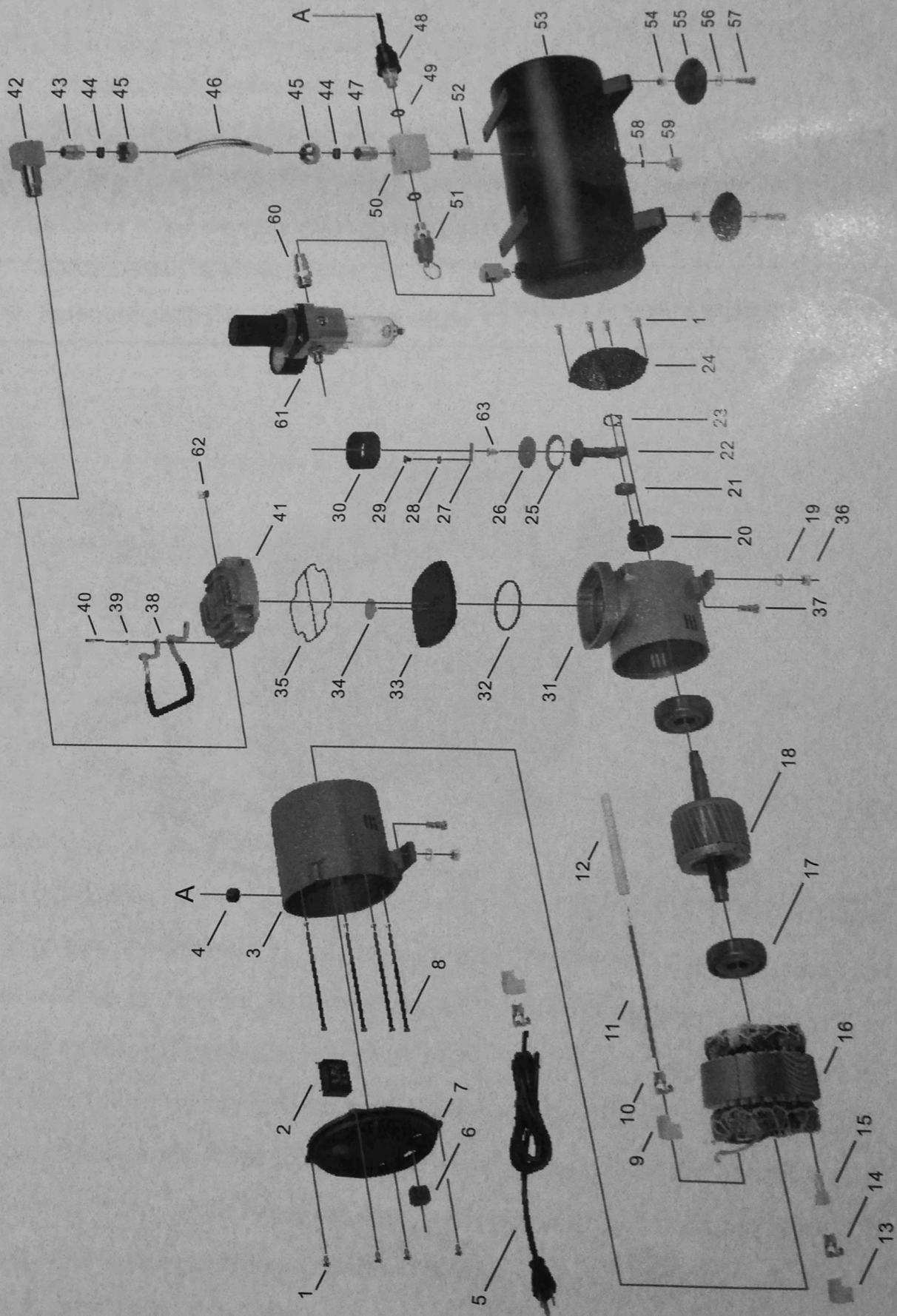
- 9 . Please release the water by opening the water drain valve under the tank when the compressor does not use for long time. Store the compressor in well ventilated and dry place.
10. In order to prolong the compressor life of the dual pressure ones, please turn off the compressor if the user do not use the air for long time under high pressure continuous working switch,

## 6. Air compressor structure



- a. Power switch
- b. Pressure regulator
- c. Pressure gauge
- d. Connection
- e. Air filter
- f. Power plug

## 7. Spare part list





# PARTS LIST

PARTS NO.	DESCRIPTION	QTY	PARTS NO.	DESCRIPTION	QTY
#1	Round-Head Screw	8	#41	Cylinder Cap	1
#2	Condenser	1	#42	Connector	1
#3	Housing	1	#43	Adaptor	1
#4	Ply-yarn drill	1	#44	Seal Ring	2
#5	Power Cord with Plug Spring	1	#45	Forcing Screw Cap	2
#6	Ply-yarn drill	1	#46	Bent Pipe	1
#7	Back Cover	1	#47	Adaptor	1
#8	Fixed Screw	4	#48	Pressure Switch	1
#9	Bent-head Sheath	1	#49	O-Ring	2
#10	Plug Spring	1	#50	4-Splitter	1
#11	Line	1	#51	Safety Valve	1
#12	Pipe	1	#52	Tank Screw	1
#13	Bent-head Sheath	1	#53	Tank	1
#14	Plug Spring	1	#54	Screw Cap	4
#15	Wire Connector	3	#55	Rubber Feet	4
#16	Fixed Motor	1	#56	Flat Gasket	4
#17	Bearing	2	#57	Screw	4
#18	Rotary Motor	1	#58	O-Ring	1
#19	Flat Gasket	4	#59	Drain Valve	1
#20	Crank	1	#60	Adaptor	1
#21	Bearing	1	#61	Air Filter	1
#22	Connect Rod	1	#62	Stopper	1
#23	Snap Ring	1	#63	Screw	1
#24	Front Cover	1			
#25	Piston Ring	1			
#26	Connect Rod Cover	1			
#27	Metal Sheet	1			
#28	Stainless Gasket	1			
#29	Connect Rod Screw	1			
#30	Cylinder	1			
#31	Compressor Body	1			
#32	O-Ring	1			
#33	ClapBoard	1			
#34	Mushroom Ring	1			
#35	O-Ring	1			
#36	Screw Cap	4			
#37	Screw	4			
#38	Handle	1			
#39	Gasket	4			
#40	Bolt	4			