

PNEU-box

PNEU-BOX (PB-300)

PORTABLE HIGH PRESSURE AIR COMPRESSOR 4350 PSI

Operation Manual



Please read all instructions and warnings in this manual before using this HPA compressor
RETAIN FOR FUTURE REFERENCE

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1. Safety Introductions

- 1.1 Before preparing to pump an air gun, cylinder or other equipment, make sure that the pumped equipment is under the maximum pressure, and do not pump excessively. Otherwise, it will cause a risk of explosion and injury or death.
- 1.2 When using this machine, you are required to wear goggles to prevent accidental damage to your eyes.
- 1.3 The maximum air pressure of the machine is 300 bar (4350 psi). When the pressure of the adjustable pressure gauge is set, it should not exceed 300 bar (4350 psi). Otherwise, the machine will be damaged or the risk of explosion will occur, and cause injury or death.
- 1.4 This machine can only compress air, use no other gases. Otherwise it will damage the machine or risk explosion, and cause injury or death.

2. Product Specifications

- 2.1 Power input voltage: 110~220V (AC), power output voltage 12V (DC)
- 2.2 Rated Voltage of Compressor: 12V (DC)
- 2.3 Rated power of Compressor: 350W
- 2.4 Maximum pressure output by electric pump: 300bar (4350psi)

3. Description of Product Structure

1. Power Plug-in Outlet
2. ON/OFF Button
3. Temperature Display
4. Pressure Release Valve
5. Burst Disc
6. Release Coupling
7. Adjustable Pressure Gauge
8. Moisture Release Valve
9. Cooling Fan
10. Lubrication Port
11. Handle



4. Operational Instructions

4.1 Power Supply

- 4.1.1 Connect the 2-prong power cord to the power outlet of the compressor (Figure 4.1.1). Be careful not to 3-prong power cord to the wall socket first.
- 4.1.2 Connect the 3-prong power cord to the 110-220V (AC) power socket (Figure 4.1.2).

*** Once the fan inserted into the power supply starts to turn, the buzzer prompts the sound to be emitted. The motor and fan of the compressor will not work.**



Figure 4.1.1



Figure 4.1.2

4.2 External 12V Battery

- 4.2.1 Connect the 2-prong power cord across the connection to the power outlet of the compressor (Figure 4.2.1).
- 4.2.2 Connect the red clamp across the connection to the positive pole of the battery, and the Black clamp across the connection to the negative pole of the battery.

*** Once connected to the battery, the prompting tone from buzzer sounds. The motor and fan of the electric pump will not work.**



Figure 4.2.1

4.3 Air-pumping Operation

- 4.3.1 Connect the power supply according to [4.1](#) power supply instructions for Power Supply Use or [4.2](#) Instructions of External 12V Battery Application.
- 4.3.2 Find out the position of the adjustable pressure gauge and set the ideal pressure value through the knob of the pressure gauge. A clockwise rotating pressure value increases and a counterclockwise rotating pressure value decreases.
WARNING: The maximum pressure of this compressor is 300bar (4350psi). When setting the pressure of the adjustable pressure gauge, it should not exceed 300bar (4350psi). Otherwise, it will possibly damage the machine or risk explosion and even cause injury or death.
- 4.3.3 Connect the female quick connectors from both side of output hose to the male connectors from compressor and pumped equipment, the one with filter connects to compressor (Figure 4.3.3).
Note: Check whether the connection between the female quick connectors and the male connectors are secure.
- 4.3.4 Turn and tighten the release button clockwise, and ensure that the inflated equipment does not leak.
Note: If you want to pump a completely airless PCP air rifle, you need to load it first and then start to pump it. Please refer to your air rifle instructions for further help.
- 4.3.5 Press ON/OFF button, the light changes to green, the compressor starts to work.
Note: You can stop pumping at any time by pressing the start button. If you need to restart the compressor, you need to release the gas in the output hose, referencing to 4.3.6.
- 4.3.6 When the pressure reaches the set pressure value, the compressor will stop automatically. The buzzer emits a reminder sound (low-frequency sound),
Note: The fan of the compressor will continue working to cool down. When the temperature display of the compressor is lower than 45°C, the fan will stop working.
- 4.3.7 Release the air in the hose by rotating the counterclockwise (Figure 4.3.7). When the pressure gauge indicates 0psi/bar, the air in the hose is released completely.
Note: When loosening the release button, there may be gas or liquid ejecting at high speed from the air release button of the compressor. Please keep your fingers/hands/eyes away from this part as far as possible.
- 4.3.8 Remove the pumped equipment and pull out 3-prong power cord or straddle clamp.



Figure 4.3.3



Figure 4.3.7

5. Temperature Protection System

- 5.1 When the temperature is higher than 70°C, the machine stops automatically and alarms (high frequency sounds). And the fan continued to work.
- 5.2 When the temperature is below 45°C, the fan stops working.
- 5.3 You need to press the ON/OFF again to continue working.

6. Maintenance and Maintenance Methods

6.1 Lubricating Oil Refueling Operation Instructions

- 6.1.1 Before using for the first time, first find the Lubrication Port, and then turn the knob cover counter-clockwise (Figure 6.1.1). Fill 1ml (about 10 drops) silicon oil, run the compressor with no load for one minute, so that the cylinder is filled with silicone oil, which will prolong the life and normal operation of the compressor.
- 6.1.2 Fill 0.5ml (5 drops) of silicon oil every 5 cycles.
- 6.1.3 If the compressor has not been operated for more than 5 days, you must start again the 6.1.1 operation.

Note: Only silicone oil can be used to lubricate the compressor. No other lubricants can be used. Otherwise, the guarantee will fail, even cause explosion and lead serious injury or death.

6.2 Moisture Release Operation Instructions

- 6.2.1 The compressor should be cleaned every 15 cycles.
- 6.2.2 Find out the position of moisture release valve, turn the knob cover counter-clockwise (Figure 6.2.1)
- 6.2.3 Fill the lubrication port with 1ml (about 10 drops) of silicon oil, run the compressor with no load for three minutes. Then fill another 1ml (about 10 drops) silicon oil to the lubrication port, continue run the compressor with no load for another two minutes. Finally, turn off the power supply of the compressor and tighten the moisture release valve clockwise.
- 6.2.4 This process will discharge excessive lubricant and moisture in the compressor, so as to achieve the function of pollution discharge.

Note: When loosening the moisture release button, there may be air or liquid, which is ejected from the bottom of the air compressor at high speed. Please keep your fingers/hands/eyes away from this part as far as possible.



Figure 6.1.1



Figure 6.2.1

6.3 Filter Element Replacement

6.3.1 Replacement of filter cotton in filter tank

- 6.3.1.1 Change every 40 cycles. First, it is required to release the air inside the machine. The pressure gauge reading is 0 psi/bar. Find the position of the filter tank at the bottom of the machine. Open the lid of the filter tank counterclockwise with a wrench. Take out the filter cotton with tweezers and replace it with new filter cotton. (Figure 6.3.1.1)

6.3.2 Replacement of filter cotton for flexible pipe

- 6.3.2.1 Change every 20 cycles.
- 6.3.2.2 Push the connecting ring on the female connector and remove the filter and output hose from the compressor (Figure 6.3.2.2).
- 6.3.2.3 Find the joint on the filter and turn the large side of the filter counterclockwise until the filter is separated (Figure 6.3.2.3).
- 6.3.2.4 Find the old filter element located in the larger side of the filter. Pull the old filter element out of the filter with tweezers or other tools (Figure 6.3.2.4).
- 6.3.2.5 Replace the new filter element and press the new filter element into the larger side of the filter.
- 6.3.2.6 The larger side of the filter is screwed clockwise into the smaller side to re-engage the filter (Fig. 6.3.2.3).
- 6.3.2.7 Re-connect the female connector to the air compressor, push the female connector ring and press it into the female connector. Before running the compressor, it is necessary to ensure that the connecting ring is locked.



Figure 6.3.1.1

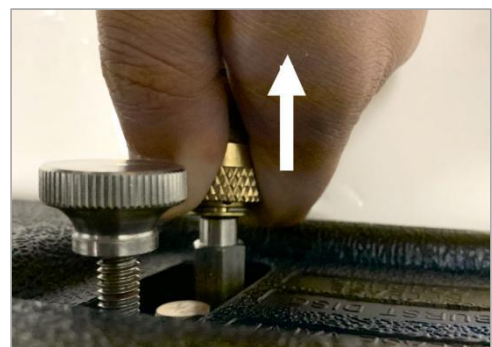


Figure 6.3.2.2



Figure 6.3.2.3

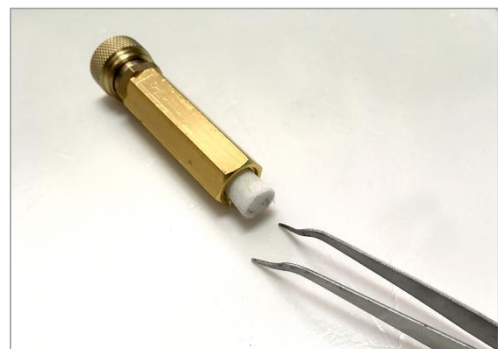


Figure 6.3.2.4

6.4 Burst Disc Replacement

Find the position of the burst disc, use the tool to rotate counterclockwise to remove the damaged burst disc, replace it with the same size (6K) burst disc, tighten it clockwise, otherwise it will leak air (Figure 6.4).



Figure 6.4

7. Troubleshooting

7.1 Compressor doesn't work.

Solution: Make sure that one end of the 3-prong power cord is plugged into a regular wall socket and the other end is plugged into the air compressor. If a 12V battery is used, ensure the normal connection of the crossover wires.

7.2 Compressor can't pump air normally.

Solution: Check whether the air release button and moisture release button are tightened and whether the pumped equipment is leaking.

7.3 Automatic shutdown of electric pump before reaching specific pressure.

Solution: Make sure that the setup of pressure gauge turntable (automatic closing) is set correctly. Whether the temperature of the electric pump is too high, the temperature protection system automatically stops. Press the start button again to blow up when the machine temperature drops to 45°.

7.4 When the compressor has abnormal sound & vibration during use.

Solution: Shut down immediately and unscrew the moisture release valve counterclockwise, then remove the hose and restart the compressor to check for abnormal sound and vibration. If so, please return it to the factory for repair. Do not try to repair it yourself.

MODEL	PNEU-BOX PB-300
DESCRIPTION	Portable High Pressure Air Compressor
POWER	350W
POWER SUPPLY	12V DC
MAX. PRESSURE	300bar (4350psi)
SIZE	323mm x 225mm x 195mm
WEIGHT	8kg