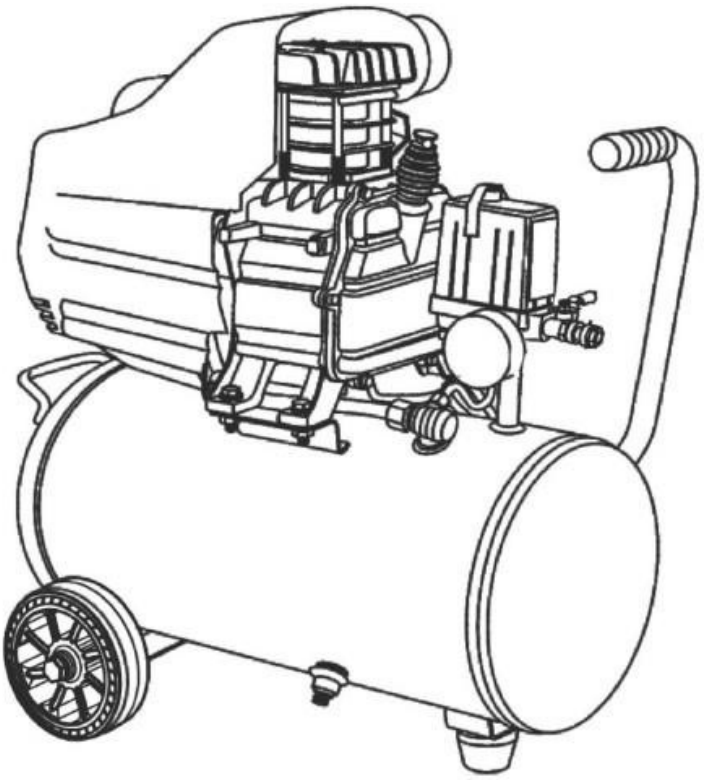
Pro-Tech TOOLS

Compressor 24L 2000W 230V



Instructions for use

Translation of the original instructions

IMPORTANT NOTICE

WHAT NEEDS TO BE DONE BEFORE USING A NEW COMPRESSOR FOR THE FIRST TIME

1. On the top front of the compressor you will find a black plastic shipping plug inserted into the oil fill hole. Remove the shipping plug and replace it by pushing the oil fill plug (supplied in the parts bag) into the oil fill hole.

2. In the parts bag you will also find a black air vent.

Screw this assembly into the hole on the side and top of the compressor head.

3. Check the oil level using the sight glass built into the bottom front of the compressor (just behind the regulator). For normal operation, it should be at half level on the sight glass. If oil needs to be added, use any standard air compressor oil available at home centers and other large stores.

4. There are two outlet fittings on the controller. The air flow for one fitting is controlled by turning the handle of the regulator. The second fitting is free flowing from the tank. Before starting the compressor, screw a metal cap or quick coupler (not supplied) onto the free-flowing fitting.Use nylon sealing tape to prevent leakage when working with the air fitting.

1. INTRODUCTION

1. Before operating or maintaining this air compressor, read this manual carefully to familiarize yourself with proper safety, operating and maintenance procedures. DON'T MISS
INSTRUCTIONS IN THIS MANUAL MAY RESULT in personal injury, property damage, or loss of warranty. Following the instructions in this manual will ensure a longer and safer life for your air compressor.

2. SAFETY INSTRUCTIONS



HAZARD - AN IMMINENT DANGER THAT CAN CAUSE SERIOUS INJURY OR LOSS OF LIFE.

2. TO AVOID THE RISK OF FIRE OR EXPLOSION, NEVER SPRAY FLAMMABLE LIQUIDS IN CONFINED SPACE



It is normal for the motor and pressure switch to produce sparks during operation. If sparks come into contact with gasoline vapors or other solvents, they may ignite.

Do not smoke while spraying. Do not spray where sparks or flame are present. Keep the compressor as far away from the spraying area as possible.

3. The solvents trichloroethane, methylene chloride can chemically react with aluminium used paint spray guns, paint pumps etc. and cause an explosion. If you use these solvents, use only stainless spray equipment. This does not affect your air compressor, but the equipment used.



4. Never use compressed air produced by a compressor directly in the package. It is not suitable for breathing.

WARNING - POTENTIAL DANGER THAT CAN CAUSE SERIOUS INJURY OR LOSS OF LIFE!



1. Do not weld on the air tank of this compressor. Welding on the air compressor tank can weaken the strength and cause an extremely hazardous condition. Welding on the tank in any way will void the warranty.



2. Never use an electric air compressor outdoors when it is raining or on wet surfaces, as this will cause many people to suffer shock.

3. This unit starts automatically, ALWAYS turn off the compressor. Before servicing the compressor and when the compressor is not in use, remove the plug from the outlet and bleed all pressure from the system.



4. Check the maximum pressure specified by the manufacturer for pneumatic tools and accessories, the compressor output pressure must be regulated so that it never exceeds the maximum rated pressure of the tool.

5. High temperatures and moving parts are located under the cover.



Allow compressor parts to cool before handling or servicing.

6. When spraying paint or toxic materials, be sure to read all labels and follow safety instructions. Use a respirator if there is a possibility of inhaling the sprayed material. Read all instructions and make sure the respirator will protect you.



7. Always wear safety goggles when using the air machine.

Never point the nozzle or sprayer at a person or any part of the body.



8. Do not modify the pressure switch or relief valve for any reason, doing so will all warranties, they were preset at the factory to the maximum pressure of this unit.

BEWARE - THE POTENTIAL DANGER THAT CAN CAUSE



1. Drain moisture from the tank daily. A clean, dry tank will help prevent corrosion.

2. Pull the relief valve ring daily to make sure the valve is working properly and to clear the valve of any obstructions.

3. To ensure proper ventilation for cooling, the compressor must be located a minimum of 31 cm (12 inches) from the nearest wall in a well-ventilated area.

4. If transport is necessary, securely fasten the compressor, the pressure must be released from the tank before transport.

5. Protect the air hose and electrical cable from damage and punctures, check them weekly for weak or worn spots and replace them if necessary

ATTENTION!

DISCONNECT POWER AND RELIEVE ALL PRESSURE FROM THE SYSTEM BEFORE ATTEMPTING INSTALLATION, SERVICE, RELOCATION OR ANY MAINTENANCE.

1. Comply with all local electrical and safety codes as well as the National Electrical Code (NEC) and the Occupational Safety and Health (OSHA).

2. Electric motors and starters shall be safely and adequately grounded using a three-prong receptacle.

WARNING

Never use an extension cord with this product. Use an additional air hose instead of an extension cord to prevent loss of power.

Use of an extension cable will void your warranty.

3. BRIEF DESCRIPTION

This air compressor has new design and excellent workmanship, it has the advantages of compact taper, fine appearance, light weight, easy operation, high safety and low noise, it can be widely used engineering, chemical industry, spraying and decoration, automatic control system and other fields where compressed air is needed.

4. GENERAL OVERVIEW AND MAIN COMPONENTS (Figure 1)

(1) Main compressor

(2) Pressure switch

(3) Outlet valve

(4) Control valve

(5) Pressure gauge

(6) One-way valve

(7) Drain cock

(8) The Wheel

(9) Discharge pipe

(10) Air tank

(11) Fan cover



Fig.1

5. MAIN TECHNICAL PARAMETERS

Model	BDM24
Power	2000W
Voltage	220-240 V
Frequency	50 HZ/60 HZ
Air flow	260 l/min
Maximum working pressure	8 bar
Tank capacity	24 L
Net weight	20 kg

6. PREPARATION FOR LAUNCH

(1) The compressor setup area should be clean, dry and ventilated.

(2) Use voltages within ±5% of nominal voltage.

(3) Keep the oil level within the red circle of the spirit level.

(4) We recommend using SAE30 or L-DAB 100 compressor oil above 10℃ and use SAE10 or L-DAB68 below 10 ℃

(5) Open the outlet valve, set the pressure switch knob to the on position (Fig. 2), let the compressor ran for 10 minutes without load to ensure lubrication of moving parts. Before regular servicing.

7. OPERATION AND SETUP

(1) The compressor is controlled by a pressure switch in normal operation. It can stop automatically when the pressure rises to the maximum and restart when the pressure drops to the minimum. The nominal pressure has been set at the factory. Do not change it carelessly. As soon as the engine is switched off, the compressed air in the discharge line should be released through the release valve below the switch. This is a prerequisite for restarting, otherwise the engine will be damaged. The nominal pressure can be adjusted by turning the adjustment screw on the switch (fig.2)

(2) The compressed air outlet pressure can be adjusted by means of a control valve (Fig.2).

(3) When it is necessary to stop the compressor from running, set the pressure switch knob to the off position.

1. Safety valve

2. Drain valve

3. Adjusting screw

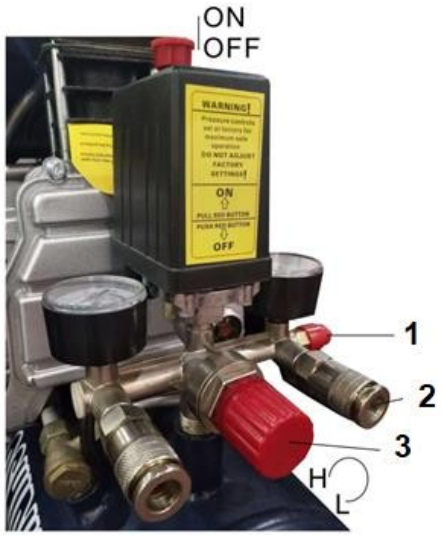


Fig. 2

8. NOTICES

(1) Before starting the compressor, first remove the cover and replace the oil fill plug and air filter (Fig. 3).

(2) Never unscrew any connecting part when the tank is under pressure.

(3) Never disassemble any electrical part before disconnecting plugs.

(4) Never set the safety valve carelessly.

(5) Never use the compressor in a place where the voltage is too low or too high.

(6) Never use an electrical wire longer than 5 m with a smaller by cross-section, as shown in Table 1.

(7) Never to stop compressor, set the switch to off instead.

(8) If the release valve does not work when the engine stops, find out the cause immediately so as not to damage the engine.

(9) Lubricating oil must be clean, the oil level should be kept within the red circle of the buffer

(10) Disconnect the power supply by unplugging the plug and open the outlet valve.



Fig. 3

1. Air filter
2. Oil fill plug

9. MAINTENANCE

(1) Clean the crankcase and change the lubricating oil of the first 10 working hours.

(2) After every 20 working hours, clean the oil level and top up if necessary (Fig. 4)

(3) After every 60 working hours, open the drain cock under exhaust for condensate drainage.

(4) Clean the crankcase and change the oil, clean the air filter and check the relief valve and pressure gauge.



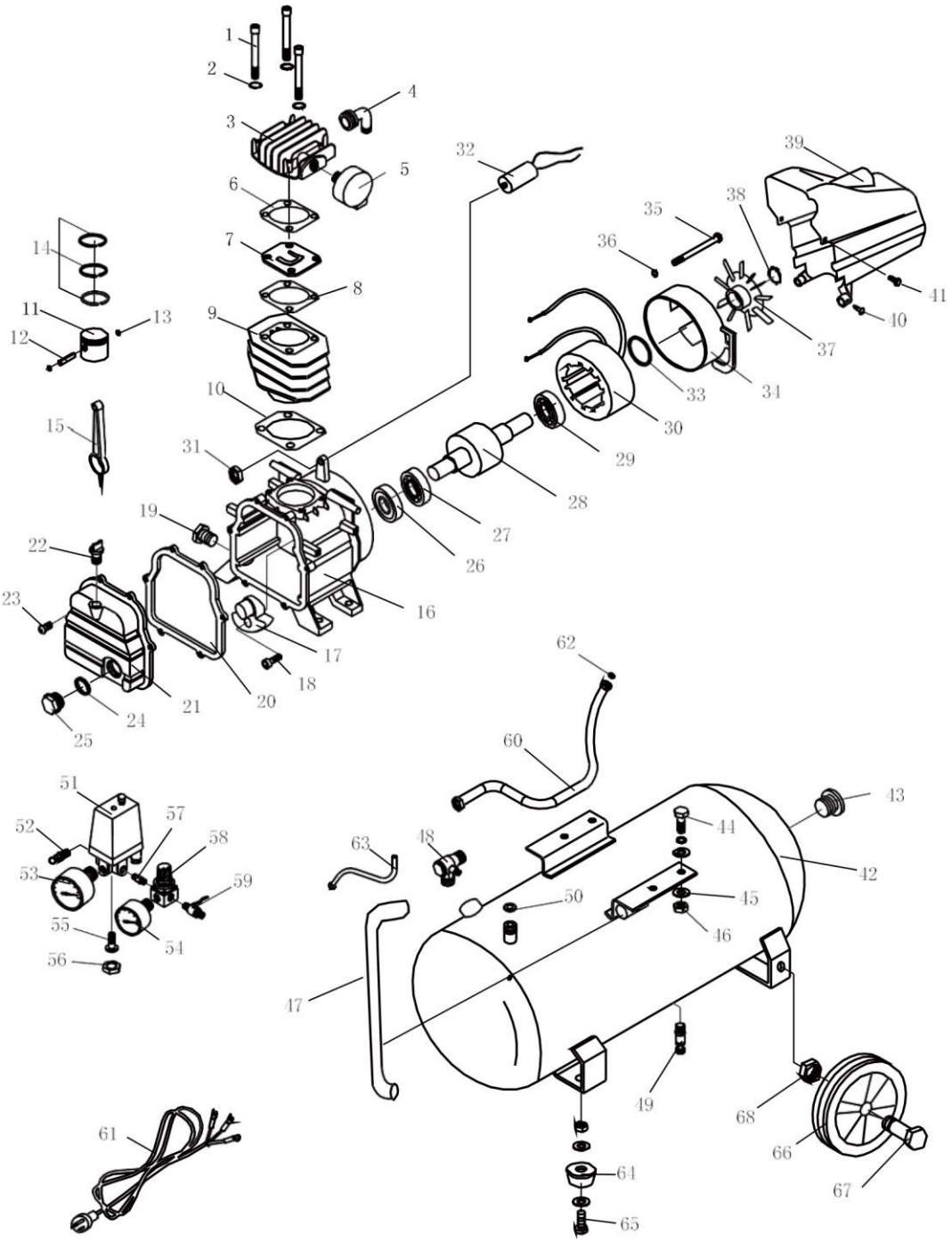
Fig. 4

10. PROBLEMS AND CORRECTIVE MEASURES

Table 2

Problems	Possible cause	Remedies
The engine is unable run, runs too slowly, or heats up	(1) Fault in the wiring insufficient voltage (2) Power lead too thin or too long (3) Fault in the pressure switch (4) Fault in the engine (5) Main compressor jam	(1) Check the link (2) Replace the wiring (3) Repair or replacement (4) Repair or replacement (5) Inspection and repair
Main compressor jam	(1) Moving parts burned due insufficient oil (2) Damaged moving parts or a stuck foreign body	Check the crankshaft, bearing, connecting rod, piston, piston ring, etc. and replace if necessary
Terrible shaking, or abnormal noise	(1) The connecting part has become loose (2) A foreign body has entered the main compressor (3) Piston knocked valve seat (4) Moving parts are seriously worn	(1) Check and tighten (2) Check and clean (3) Replace with a thicker paper gasket (4) Repair or replace
Insufficient pressure, or reduced discharge capacity	(1) Engine runs too slow (2) The air filter is dirty (3) Safety valve leakage (4) Drain pipe leakage (5) Damaged sealing gasket (6) Damaged valve plate, accumulated or stuck carbon (7) The piston ring and cylinder are worn or damaged	(1) Control and correction (2) Clean or replace the filter (3) Check and adjust (4) Check and correct (5) Check and replace (6) Replace and clean (7) Repair or replace
Too high oil consumption	(1) The oil filter is dirty (2) The oil filler plug has become clogged (3) The piston ring and cylinder are worn or damaged	(1) Keep the level within the set range (2) Check and clean (3) Repair or replace

11. REPRESENTATION OF PARTS



LIST OF WORKS

č.	Mark	č.	Mark
1	Screw	35	Screw
2	spring seal	36	spring seal
3	cylinder head	37	fan
4	connector	38	ring
5	air filter	39	fan cover
6	cylinder head gasket	40	nut bolts
7	valve plate	41	nut bolts
8	valve seal	42	tank
9	roller	43	nut bolts
10	cylinder seals	44	Screw
11	piston	45	Pad
12	piston pin	46	nut bolts
13	ring	47	handle
14	piston ring	48	non-return valve
15	Connection	49	drain cock
16	crankcase	50	pad
17	crank	51	pressure switch
18	Screw	52	safety valve
19	Screw	53	manometer
20	rubber seal	54	manometer
21	crankcase cover	55	Screw
22	breathing tubes	56	nut bolts
23	Screw	57	connector
24	oil scoop	58	pressure regulator
25	oil scoop	59	ball valve
26	front bearing	60	power plug
27	front bearing	61	drain pipe
28	rotor	62	release screws
29	backbear	63	release tube
30	stator	64	rubber foot
31	walnut	65	Screw
32	Capacity	66	The Wheel
33	wave seal	67	Screw
34	motor cabinet	68	nut bolts