

Air Compressors Quick Start Manual

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Symbols

In this manual and/or the machine the following symbols are used;

	Warning/ Danger		Wear ear protection.
	Read manual before use.		Wear eye protection.
	In accordance with essential applicable safety standards of European directives		Double insulated.

General power tools safety warnings

Working area

- Keep working area clean and well lit. Dark areas can lead to accidents.
- Do not operate power tools in potentially explosive surroundings, for example, in the presence of inflammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders at a distance when operating a power tool. Distractions can cause you to lose control of it.

Electrical safety



Always check that the power supply corresponds to the voltage on the rating plate.

- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the compressor. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a compressor outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- Do not use in rain or humidity conditions. Water entering increases the risk of a short circuit.
- Avoid accidental starting of the tool. Make sure the switch is "OFF" before connecting the power cord to the grid.
- Do not overload compressor. Do not use power tools for a different purpose than the one for which they are intended.

Personal safety

- Always use ear and eye protection when working with the machine or perform maintenance.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from the power tool. Loose clothes, jewellery or long hair can become entangled in the moving parts.

Service

Your power tool should be serviced by a qualified specialist using only OEM spare parts. This will ensure that it meets PCL's required safety standards.

Specific safety instructions for air compressors



WARNING! Make sure that both air consumption and maximum effective pressure of pneumatic tools are compatible with the pressure set by the pressure switch and the volume of air supplied by the compressor.

- During operation the compressor and pipes reach high temperatures. Contact causes burns.
- Keep a minimum distance of 4 meters between the compressor and working area.
- The compressor gases must not contain substances that could lead to fire or explosion on the compressor.
- During operation, to ensure correct lubrication, the compressor must be placed on a table horizontal surface.
- To ensure optimal cooling, the compressor will be placed at a minimum distance of 50 cm from the wall.
- When uncoupling, the hose will be held by hand to avoid injury from hose whip.
- Always wear safety goggles to protect your eyes from flying objects.
- Do not weld the tank. In case of faults or corrosion, please replace immediately.
- Avoid using air pipes and power extension cables with excessive length.
- To extend operating life, the compressor must be used in a suitable environment (well ventilated, and never in places affected by dust, acid, vapors, explosive or flammable gas at an ambient temperature + 5°C ... + 40°C).
- The machine is double insulated. This means it has two completely independent types of insulation that prevents the operator to enter into direct contact with the metal parts. This measure represents the highest degree of protection against electrocution.

Application

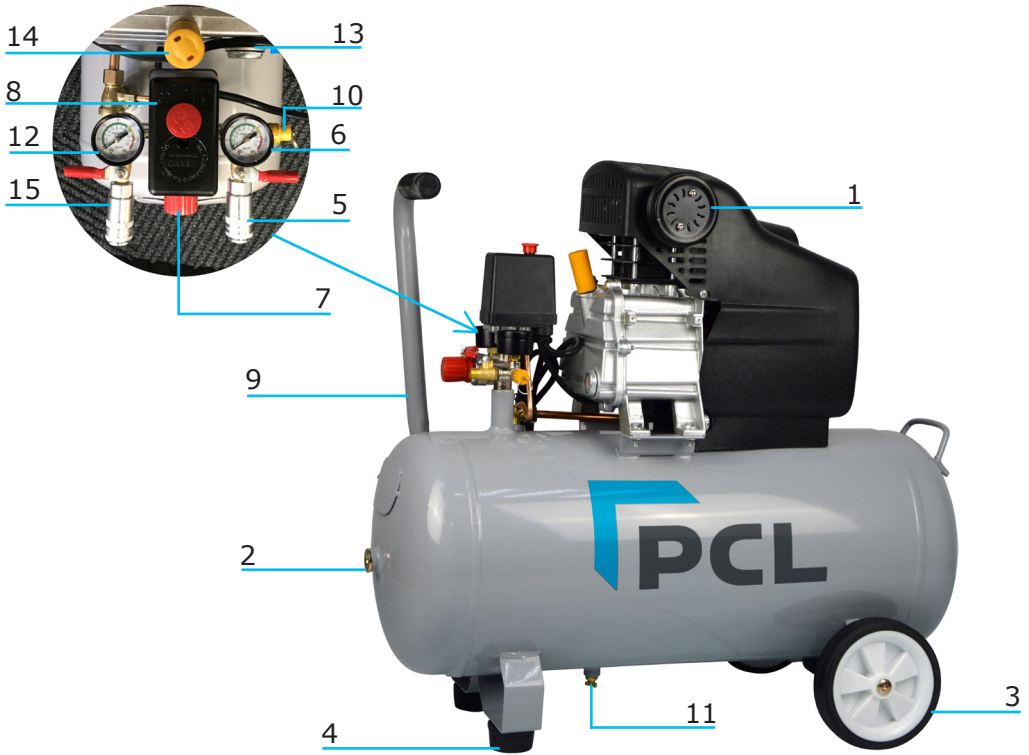
This compressor is intended for personal use for the production of compressed air. **DO NOT RUN THE COMPRESSOR WITH ANY OTHER TYPES OF GAS.**

Operations: swelling, operations that require connection of pneumatic tools, painting, washing with aqueous detergent, by following the specific rules.

IT IS NOT DESIGNED FOR CONSTANT PROFESSIONAL USE.

Decription

1. Air filter
2. Pressure tank
3. Wheel
4. Support foot
5. Quick coupling for adjusted pressure
6. Pressure gauge for adjusted pressure
7. Pressure regulator
8. On/Off switch
9. Transport handle
10. Safety valve
11. Drain valve
12. Pressure gauge for tank
13. Oil discharge screw with eyehole level
14. Oil filling cap
15. Quick coupling for pressure tank takeover



Operation



WARNING! Before commissioning must check the oil level in the compressor.



WARNING! IN case of any abnormal noise, immediately turn off the tool and contact an authorized service facility for repairs.

Assembly and component checking

- Install wheels (3) and foot (4) - with bolts and nuts provided.
- Replacing the air filter (1) - Remove the brackets used during transport with a screwdriver or similar tool and attach an air filter (1) by screwing on the device. (Fig. 7)
- Changing the oil cap closure (14) - Remove the transport cover from the oil filler hole using a screwdriver and place the cap closure (14) in the spout (Fig 8).
- The compressor is equipped with power-connection cable with protective contact plug. It can be plugged into any socket with protective contact 230V ~ 50Hz which is equipped with a safety 16 A. Before starting, check whether the mains voltage corresponds to the operating voltage stated on the data plate device. Power cords and extension cords or long cable drums causes low voltage and prevent proper starting.
- Safety valve (10) is adjusted to the maximum allowable pressure of the pressure tank. Do Not modify or remove the safety valve seal. To function properly in the event of switch damage, safety valve should be checked weekly. Firmly pull ring out until the compressed

air comes out. Then release the safety valve again.

- Check oil level: place the compressor on a flat, horizontal surface. The oil level should be between MAX and MIN values of the viewfinder.

Start / stop the operation. Compressor start by pulling out the button. (8)
To switch off, the button (8) must be pressed down. (Fig. 2)

Pressure regulation

With pressure regulator (7) working pressure can be adjusted, as measured by gauge (6). Set pressure could be taken from the quick coupling (5). The pressure in the tank could be measured at any time with pressure gauge (12) and could be taken from the quick coupling (16).

Pressure switch adjusting

The pressure switch is set by factory, do not adjust.

- Starting pressure: 6 bar
- Stop pressure: 8 bar

Condensation discharge

Water condensation should drain weekly by opening the drain valve (11) located in the bottom of the tank. **WARNING!** Condensation liquid may contain traces of oil.

Cleaning and maintenance



WARNING! Before any intervention on the machine, disconnect the power supply from the mains and wait until the compressor has cooled completely!
Risk of burns!



WARNING! Before performing any cleaning or maintenance operation completely drain the air tank.

General cleaning

Regularly clean the machine housing with a soft cloth, preferably after each use. If the dirt does not come off used a soft cloth moistened with soapy water.

Never use solvents such as petrol, alcohol, ammonia, etc. These solvents may damage the plastic parts.

Air filter cleaning (1)

The air filter prevents dust and dirt intake. It is necessary to clean the filter after no more than 100 hours of operation. A clogged air filter greatly reduces compressor power. Remove the filter and loosen the butterfly screw, remove the filter from two halves of the plastic housing, clean it and blow it with compressed air at low pressure (approx. 3 bar). Place the filter back into original position.

Oil replacement

Recommended Oil SAE 15W / 40 or similar.

The oil must be changed after filling the first 100 hours of operation. After the oil must be replaced every 500 hours of operation.

To replace the oil, stop the engine and pull the plug. Once you have completely evacuated the air from the tank, you can unscrew the oil drain cap (15) from the compression chamber. To avoid an uncontrolled leakage of oil, place a gutter underneath, and collect the oil in a container. If the oil does not drain completely tighten the oil drain cap (15) back in place. Fill with new oil through the hole (14) until the level needed. Then tighten the oil cap.

Used oil and condensate must be disposed of in compliance with protection of environment and current legislation.

Maintenance

Our machines have been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper machine care and regular cleaning.

Technical data

	CM2024D	CM2550D	CM3100DT
Air Receiver	24 l	50 l	100 l
Air Displacement	188 l/min 6.6 cfm	206 l/min 7.3 cfm	355 l/min 12.5 cfm
Voltage / Phase	230 v 50 Hz	230 v 50Hz	230v 50Hz
Motor	2 HP 1.6 kW 2850 rpm	2.5 HP 1.8 kW 2850 rpm	3 HP 2.2 kW 2850 rpm
Maximum pressure	8 bar 116 psi	8 bar 116 psi	8 bar 116 psi
Sound Pressure Level	82 dB (Lwa)	89 dB (Lwa)	89 dB (Lwa)
Dimensions	590x280x620mm	750x340x660mm	1090x410x740mm
Weight	23 kg	29 kg	62 kg
Operating mode*	S2 15 min	S2 15 min	S2 15 min
Recommended oil	SAE 15W40 for air compressors		

* The operation mode S2 15 min (Short time): the engine can be operated at nominal power (1500W) only for the period indicated on the plate (15 min). Otherwise the engine will overheat and the thermal protection will switch of the power supply. During the pause the motor will be cooled again to the operating temperature.

Storage

- Thoroughly clean the whole machine and its accessories.
- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.
- Protect it from exposure to direct sunlight. Keep it in the dark, if possible.
- Don't keep it in plastic bags to avoid humidity build up.

PCL LIMITED WARRANTY

PCL warrants the components of each unit to which this Limited Warranty applies against defects in materials and workmanship for a period of twelve (12) months from date of sale (as evidenced by bill of sale or equivalent) or for a period of eighteen (18) months from date of shipment from PCL manufacturing facility (identifiable by the serial number and noted on original bill of lading from the manufacturing facility), whichever period is shorter. During this warranty period and subject to the conditions set forth in this statement, PCL will, at its option, repair or replace component parts that were defective at the time of shipment from PCL manufacturing facility, subject, however, to the following specific EXCLUSIONS: hoses and connections.

Repair or replacement will not extend the warranty period.

Customer must give PCL timely notice of any warranty claim by contacting an authorized PCL service centre. Claims must be accompanied by (1) evidence, by a bill of sale or equivalent, which clearly establishes date of purchase of the unit and (2) the serial number, found on the unit. Customers must properly pack parts in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk for loss or damage in shipment. Return shipment to customer will be freight collect unless otherwise agreed. For service at a customers location, customer will be charged the then prevailing service rates .

The Limited Warranty applies to PCL manufactured units only. Items listed in the applicable operators manual under routine maintenance are not covered by this or any other warranty. Failure to complete maintenance as stated in any applicable maintenance schedule will void the Limited Warranty. The Limited Warranty is expressly conditioned upon proper and normal use and service of the unit and upon strict compliance by customer with all of PCL instructions and recommendations for installation, operation and maintenance. The Limited Warranty does not apply to the unit or parts that are damaged or become defective due to improper handling, maintenance, storage, use, or operation, and does not cover ordinary wear and tear, corrosion, or erosion.

THE LIMITED WARRANTY SET FORTH IN THIS STATEMENT CONSTITUTES PCL'S SOLE WARRANTY FOR THE UNIT AND THE REMEDIES SET FORTH HEREIN CONSTITUTE CUSTOMERS SOLE REMEDIES FOR BREACH OF WARRANTY. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, IN FACT OR BY LAW, INCLUDING WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Determination of the suitability of the unit for the use contemplated by the customer is the sole responsibility of the customer. PCL shall not, under any circumstances, be liable in contract, tort or otherwise (including negligence and strict liability) for indirect, special, incidental, or consequential damages, and PCL's total liability shall not exceed the net purchase price for the unit. PCL shall be excused for delay or inability to perform obligations due to events beyond its reasonable control.



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Warranty Registration

Please complete and mail this form to activate warranty
Or visit us at www.pclairtechnology.com

Name _____ Title _____

Company Name _____

Type of Business _____

Address _____

City _____ County _____ Post Code _____

Telephone _____

Part Number _____ Serial No _____

Purchased From _____

Purchase Date _____

Mail to:

Warranty Department

PCL

Holbrook Rise

Holbrook Industrial Estate

Sheffield

S20 3GE

United Kingdom

CM2024D/CM2550D/CM3100DT Declaration of Conformity

That the following compressor complies with appropriate basic safety and health requirement of EC Directives based on its design and type, as brought into circulation by us.

In case of any alteration to the machine, not agreed upon by us, this declaration will lose its validity.

Products: AIR COMPRESSOR
Trade Mark: PCL
PCL Model No: CM2024D / CM2550D / CM3100DT

<u>Declaration of Conformity</u>	
We	Pneumatic Components Ltd, Holbrook Rise, Sheffield, S20 3GE, England
Declare under our sole responsibility that the	CM2024D / CM2550D / CM3100DT - AIR COMPRESSORS
Conforms with the directive and the standards	Machinery Directive 2006/42/EC 2006/95/EC LVD Directive Electromagnetic Compatibility 2014/30/EU EN 1012-1:2010, EN ISO 12100:2010 EN 60204-1:2006/AC:2010 EN 61000-6-4:2007/A1:2011 EN 61000-6-2:2005/AC:2005

CE Declaration of Conformity issues by the manufacture and application of CE Mark is permitted after all applicable requirements are met in accordance with European Union Rules. This attestation is specific to directives stated above and compliance to additional directives may be required.

Signed: *Steve Martin*

Steve Martin, QA Process Manager
Date: 26/04/2017