

CLARKE[®]

air



200L BELT-DRIVEN AIR COMPRESSOR MODEL NO: BOXER II 23/200

PART NO: 2245320

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC 02/26

INTRODUCTION

Thank you for purchasing this CLARKE Air Compressor.

Before attempting to operate the machine, it is essential that you read this manual thoroughly and follow all instructions given. This will ensure the safety of yourself and others and you can look forward to the product giving you long and satisfactory service.

SPECIFICATION

MODEL	Boxer II 23/200
Part Number	2245320
Motor Power	5.5 HP
Voltage	400 V ~ 50 Hz
Air Displacement	603 L/min (21 cfm)
Max Working Pressure	10 Bar (145 psi)
Receiver Capacity	200 L
Ingress Protection	IP20
Duty cycle	S3/50%
Oil requirements	ISO100 (SAE46) compressor oil
Dimensions (L x W x H)	1300 x 470 x 960 mm
Guaranteed Sound Power Level	97 dB(A)
Weight	122.5 kg

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

SAFETY PRECAUTIONS








Before using your compressor it is in your own interest to read and pay attention to the following safety rules.

1. Compressed air is dangerous. **DO NOT** point a jet of air at persons or animals, and **DO NOT** discharge compressed air against the skin.
2. **DO NOT** operate your compressor with the guard removed.
3. Repairs must only be carried out by a qualified engineer. If problems occur, contact your CLARKE dealer.
4. Before carrying out any maintenance make sure that the pressure is released from the air reservoir and that the compressor is disconnected from the electrical supply.
5. **DO NOT** leave pressure in the receiver overnight or when transporting.
6. **DO NOT** adjust or tamper with the safety valves. The maximum pressure is factory set, and clearly marked on the compressor.
7. **DO NOT** operate in wet or damp conditions. Keep the compressor dry at all times. Similarly, clean air will allow the compressor to work efficiently. **DO NOT** use in dusty or otherwise dirty locations.
8. Some of the metal parts can become quite hot during operation. **DO NOT** touch/ remove these until the compressor has cooled down.
9. When spraying flammable materials e.g. cellulose paint, ensure that there is sufficient airflow and keep clear of any source of ignition.
10. Before spraying any material always consult paint manufacturers instructions for safety and usage.
11. Protect yourself. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and fumes.
12. **DO NOT** apply strain to electrical cables and make sure that air hoses are not kinked or wrapped around the compressor.
13. When disconnecting air hoses or other equipment from your compressor, make sure that the air supply is turned off at the outlet and vent all pressurised air from within the reservoir and other equipment attached to it.
14. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
15. Make sure that all individuals using the compressor have had any necessary training and have read and fully understand these operating instructions.
16. Make sure that any equipment or tool used in conjunction with your compressor, has a safe working pressure exceeding that of the compressor.

17. Be careful when transporting the compressor to prevent tipping over.
18. Permanently installed systems must be installed by a competent engineer.
19. These compressors produce noise levels in excess of 70dB(A). Persons working near the compressor must be supplied with ear protection.

SAFETY SYMBOLS

The following safety symbols may be found on the product or packaging.

	Read this instruction booklet carefully before positioning, operating or adjusting the compressor.
	Risk of electric shock. The compressor must be disconnected from the mains supply before removing any covers. DO NOT use in a damp environment.
	Risk of accidental start-up. The compressor could start automatically in the event of a power cut and subsequent reset.
	This compressor contains surfaces which may reach a high temperature during operation.
	Wear safety glasses when using a compressor
	Wear ear protectors when using this compressor
 97 dB	This compressor produces a high sound level during operation.

ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

This compressor requires a 16A plug and connection to a MCB Type C meeting the requirements of BS EN 60309 and having a rated capacity of greater than 16 Amps.

A standard 13 Amp (BS1363) plug must NOT be used.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

GREEN AND YELLOW - EARTH (E)

BLUE - NEUTRAL (N)

BROWN - LIVE (L)

As the colours of the flexible cable of this appliance may not correspond with the coloured markings identifying terminals, proceed as follows:

- Connect GREEN AND YELLOW coloured cable to terminal marked "E" or Earth Symbol or coloured Green and Yellow.
- Connect BROWN cable to terminal marked 'L' or coloured Red.
- Connect BLUE cable to terminal marked "N" or coloured Black.

BEFORE USE

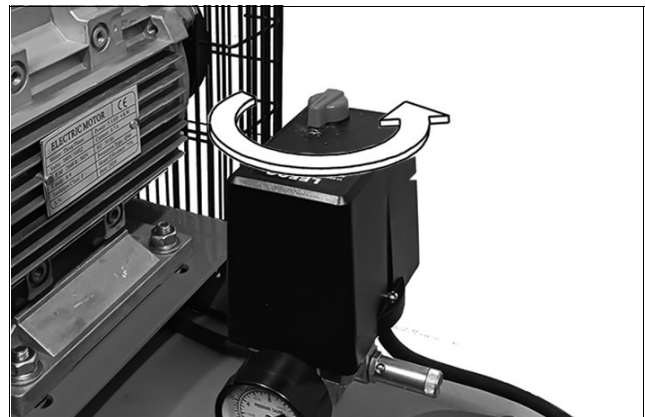


CAUTION: TO PREVENT INJURY, GET ASSISTANCE WHEN LIFTING OR MOVING THIS COMPRESSOR DURING UNPACKING AND INSTALLATION.

Before installing your compressor, confirm that its output will be sufficient for the airline equipment to be used. We recommend installing on a firm, level site and the use of floor mountings with anti-vibration pads. **DO NOT** bolt the machine directly to the floor.

Before connecting your compressor to the power supply, check the following:

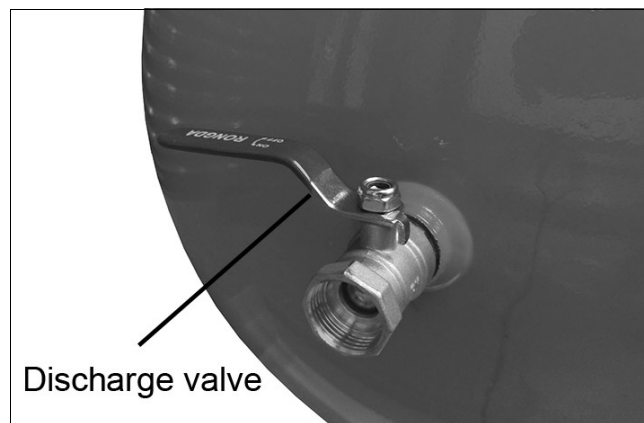
- Ensure the ON/OFF switch is set to the OFF position.
- Make sure that the compressor is on level ground.
- Make sure that the supply voltage matches the voltage shown on the data label.



FIT THE OUTLET VALVE

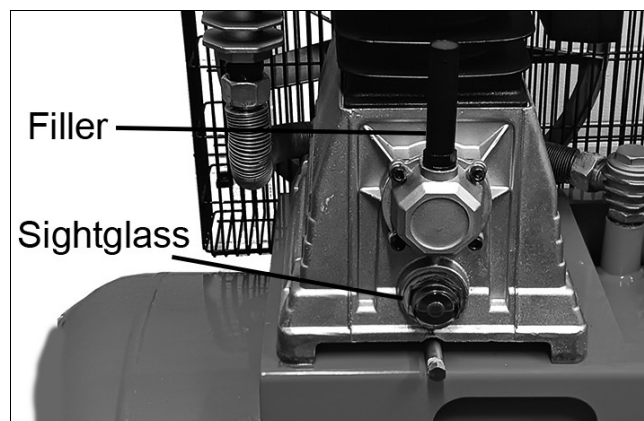
The outlet valve is supplied loose for shipping.

Screw it into the port on the end of the reservoir and seal the connection with PTFE tape.

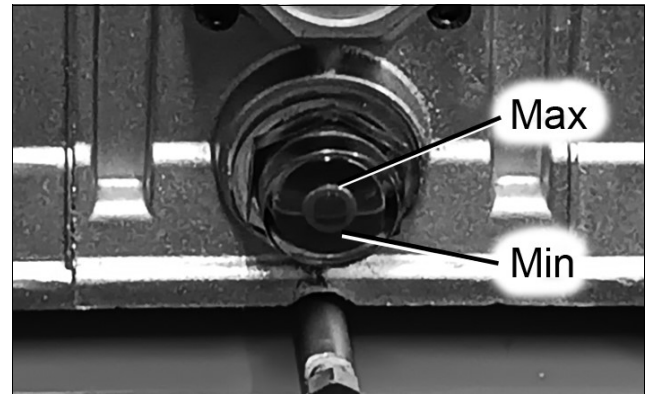


CHECK THE OIL LEVEL

1. To add oil, unscrew the filler and using a funnel, fill the compressor pump with oil.
2. Ensure the oil level is between the min. and max. marks on the sight-glass.



- Only use CLARKE -ISO100 (SAE46) compressor oil, available from your CLARKE dealer Part No. 3050796.
- Take care not to overfill.



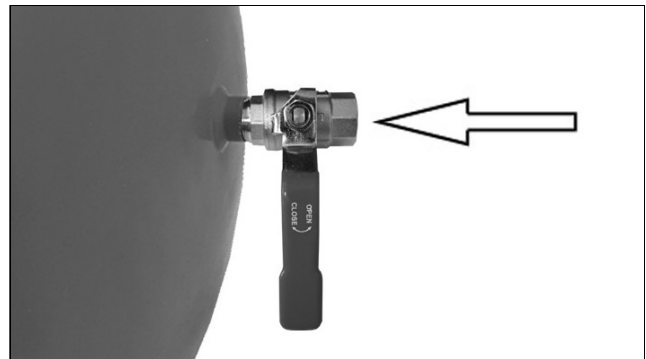
OPERATION

ATTACHING AIR TOOLS



WARNING: BEFORE CONNECTING AIR TOOLS, MAKE SURE THAT YOU READ THE INSTRUCTIONS SUPPLIED WITH THE TOOL. ALSO ENSURE THAT THE TOOL IS SUITABLE FOR USE WITH THE COMPRESSOR AND HOSE SPECIFICATIONS.

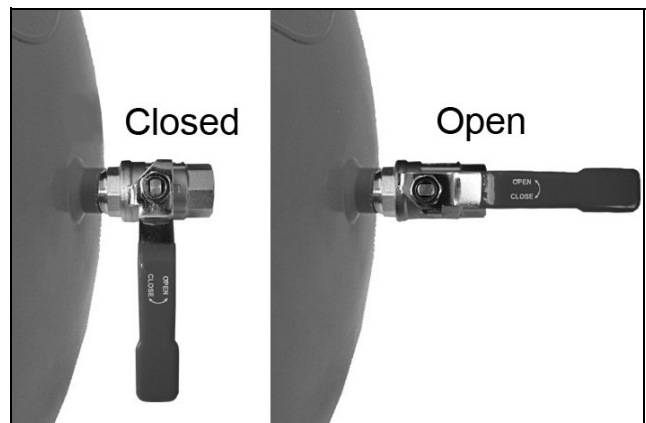
1. Attach the air hose to the outlet valve.
2. Attach your chosen air tool to the other end of the air hose.



3. Turn the outlet valve to the open position.

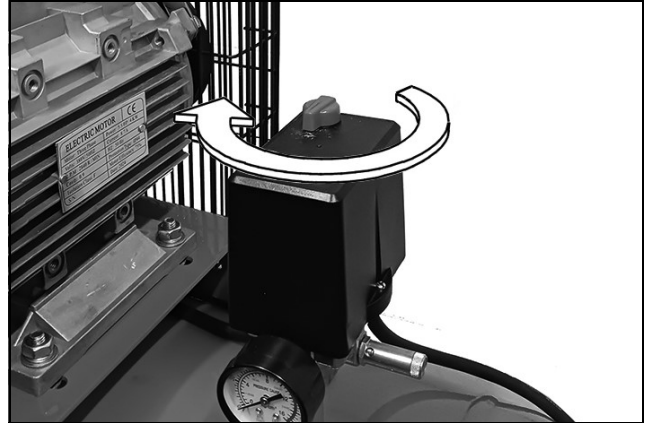
NOTE: The outlet valve is shown without the air hose fitted for clarity.

NOTE: To adjust the output pressure we recommend that a pressure regulator (not supplied) be fitted between the compressor and the air tool.



TURNING THE COMPRESSOR ON

1. Plug the compressor into the power supply.
2. Twist the On/Off switch to Auto.
 - The compressor will operate until the reservoir is fully pressurised. It will then shut down.
 - The compressor will start up again when the pressure in the reservoir decreases.



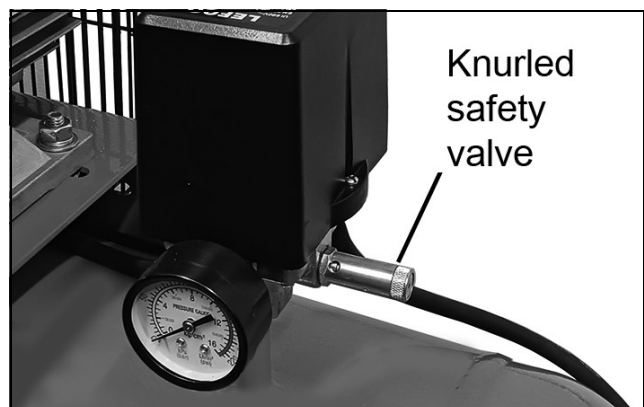
CHECKING THE SAFETY VALVE



WARNING: DO NOT REMOVE OR TRY TO ADJUST THE SAFETY VALVE.

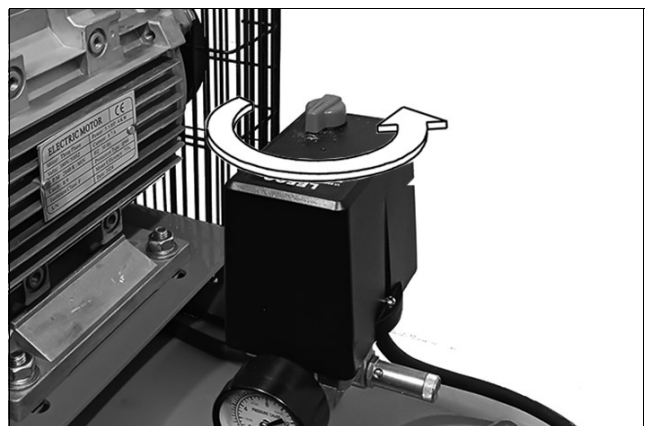
To make sure that the safety valve works correctly;

1. Unscrew the knurled part of the safety valve.
 - Air will be released when you twist the valve end and stop when returned.
2. If the valve does not operate in this way, do not use the compressor. The valve must be repaired/replaced by a qualified service agent.

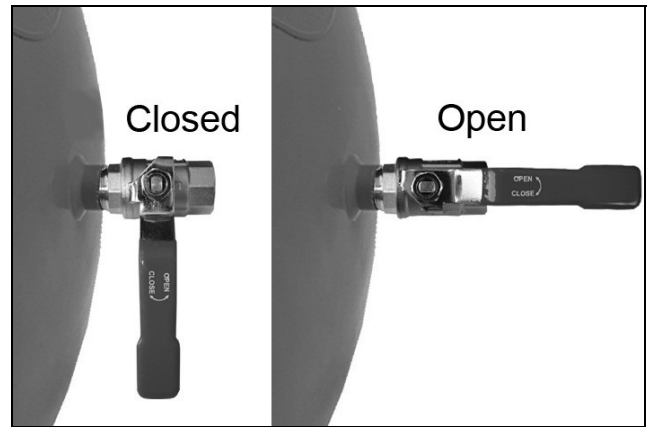


REMOVING TOOLS FROM THE AIR HOSE

1. Twist the On/Off switch to the Off position to stop the compressor.



2. Turn the outlet valve to the closed position.
3. Operate the tool to depressurise (vent) the air hose.
4. Disconnect the air tool from the hose.



SHUTTING DOWN

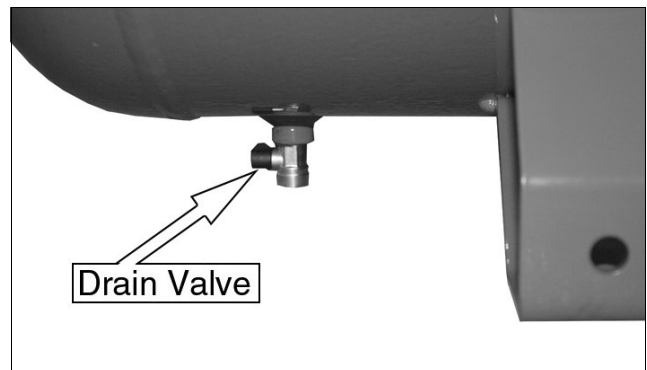
1. Disconnect the compressor from the power supply and remove any air tools and hoses as above.
2. Slowly open the outlet valve to depressurise the reservoir.
 - You will hear a hissing sound as the reservoir depressurises.
3. **DO NOT** leave the compressor unattended if the reservoir is pressurised.

DRAINING THE RESERVOIR



CAUTION: YOU MUST DRAIN THE RESERVOIR AFTER EACH DAYS USE AND BEFORE YOU PLACE YOUR COMPRESSOR INTO STORAGE.

1. Turn the compressor off and disconnect from the power supply.
2. Put a container below the drain valve to collect the condensate.
3. Open the drain valve slowly.
 - Condensation will drain from the reservoir.
4. Close the drain valve when the reservoir has fully drained.



MAINTENANCE



WARNING: MAKE SURE THAT THE COMPRESSOR IS DISCONNECTED FROM THE ELECTRICAL POWER SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE

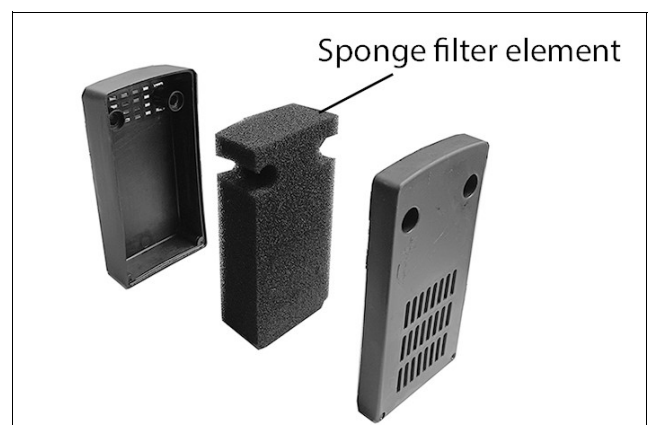
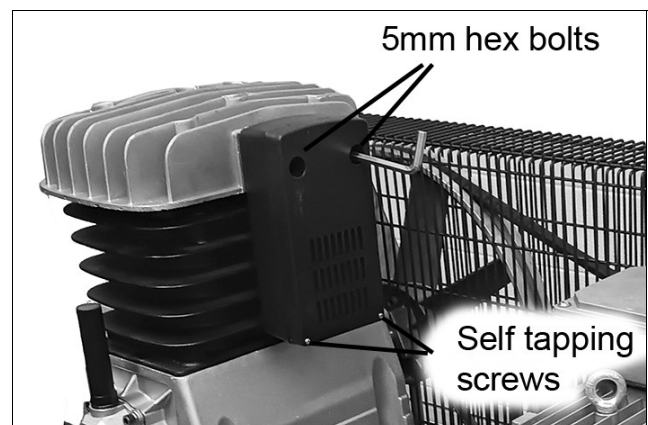
CHECKING THE OIL

Ensure the oil level is between the min and max marks on the sightglass. See "Check the Oil level" on page 6 and top-up if necessary - (use CLARKE ISO100 /SAE46 compressor oil, available from your local CLARKE dealer).

CLEANING THE AIR FILTER

The air filter should be examined monthly or more often in dusty conditions.

1. Remove the two securing bolts and two self-tapping screws before lifting the filter assembly from the compressor.
 - A 5mm hex key is required.
2. Separate the two halves of the casing and remove the filter element.
3. Clean the filter using a soft brush.
 - If necessary, the filter can be carefully cleaned in warm soapy water.
 - Rinse and let the filter dry completely before refitting.
 - If the filter or filter element is damaged contact your CLARKE dealer for a replacement.
4. Reassemble the filter and refit it to the compressor.



REPLACING THE OIL

After the first 100 hours use, replace the oil using CLARKE ISO100 (SAE46) compressor oil. Then replace the oil after every 500 hours of operation or every 6 months.

To empty the oil from the machine, remove the oil drain plug from the crankcase.



REPAIRING THE NON-RETURN VALVE

If the reservoir pressure decreases for no apparent reason it is possible that the non-return valve is leaking. To check this;

1. Make sure that the reservoir is not under pressure and the compressor is switched OFF.
2. Examine the non-return valve and replace the gasket and valve if necessary.

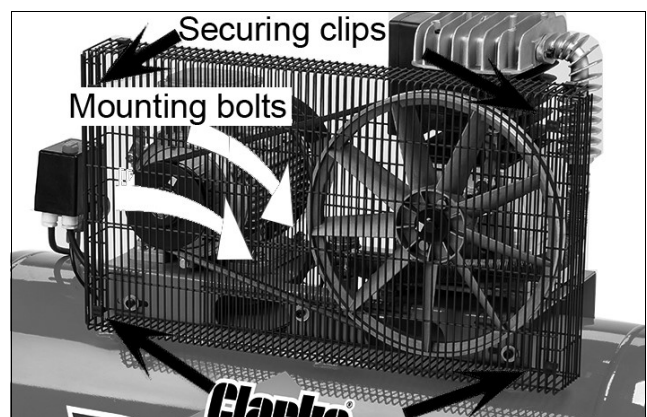


REPLACING THE DRIVE BELT



WARNING: MAKE SURE THAT THE COMPRESSOR IS DISCONNECTED FROM THE ELECTRICAL SUPPLY BEFORE REPLACING THE DRIVE BELT.

1. Using a pair of pliers, rotate the rubber clips on the front of the safety cage.
2. Remove the front of the cage and take out the worn or broken drive belt.
3. Pass the new drive belt over the small pulley before feeding over the large pulley/flywheel.
4. Rotate the large pulley by hand in a clockwise direction whilst guiding the belt on to it.



- Take care to avoid trapping your fingers between the pulley and belt.

5. If the belt is found to be too tight to pass over the pulley or too loose to drive the compressor pump once fitted, the tension can be adjusted by moving the motor after slackening its mounting bolts. Slide the motor to and fro as required before re-tightening the bolts with the belt pulled tight.
6. Replace the cage and secure with the clips before use.



WARNING: NEVER USE THE COMPRESSOR WITH THE GUARD REMOVED.

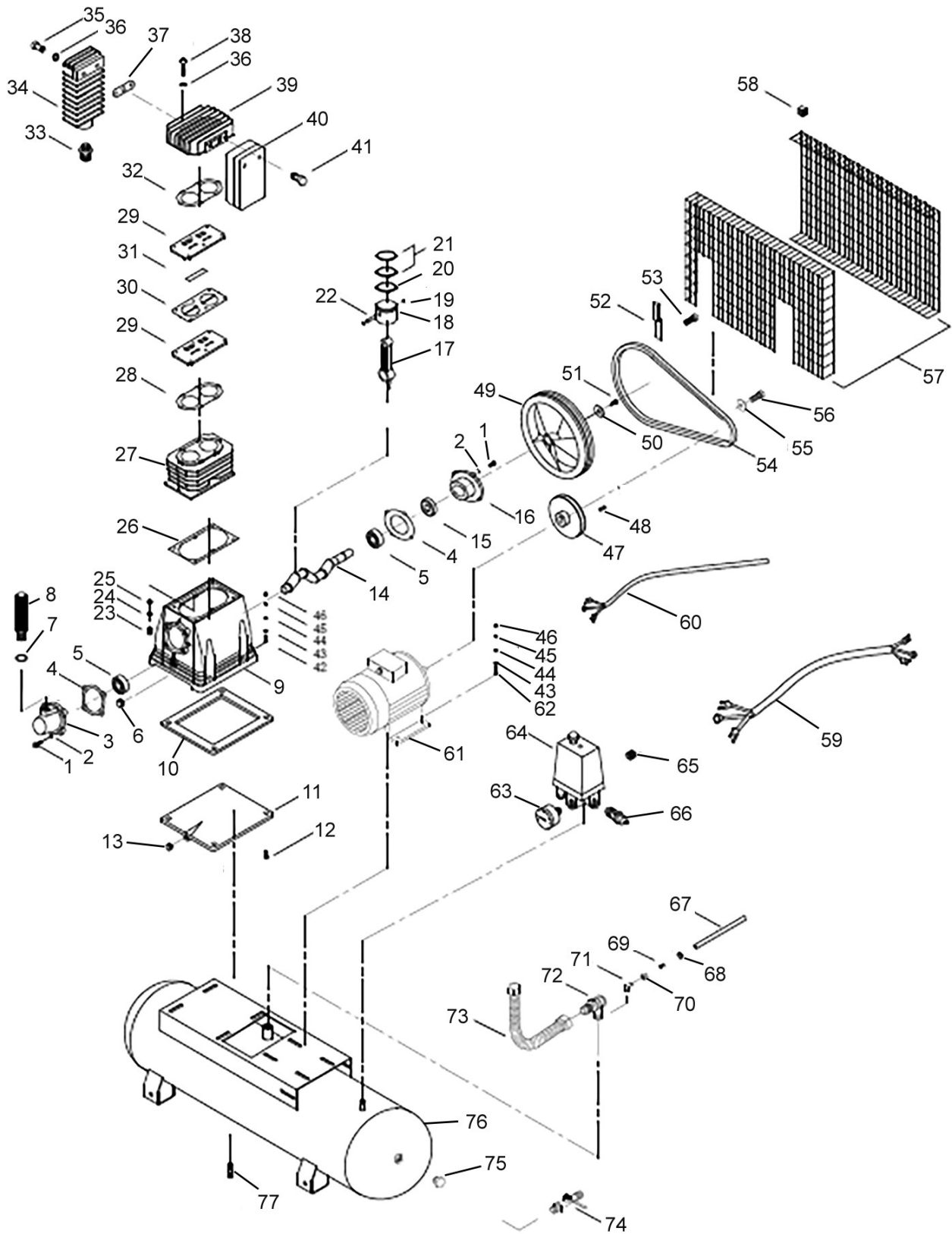
FAULTFINDNG



CAUTION: DO NOT TRY ANY REPAIRS OR ADJUSTMENTS IF YOU ARE UNCERTAIN. IF YOU HAVE ANY QUERIES CONTACT YOUR CLARKE DEALER.

PROBLEM	PROBABLE CAUSE	REMEDY
Compressor has stopped and does not start.	Bad electrical connections.	<ol style="list-style-type: none"> 1. Check electrical connections. 2. Clean and tighten if necessary.
	Motor windings burnt out.	<ol style="list-style-type: none"> 1. Contact your CLARKE dealer for a replacement motor.
Compressor does not reach the set pressure and overheats easily.	Compressor head gasket blown or valve broken.	<ol style="list-style-type: none"> 1. Return the machine to your nearest CLARKE dealer.
Compressor does not start.	The reservoir has already fully pressurised.	<ol style="list-style-type: none"> 1. Open drain valve to expel air. Compressor should start again when pressure reduces.
Air leaking from non-return valve when compressor is not running.	Faulty non-return valve.	<ol style="list-style-type: none"> 1. Vent receiver of air. 2. Remove the valve end plug. 3. Carefully clean the valve seat and the gasket & reassemble.
Compressor very noisy and makes metallic knocking sound.	Compressor is damaged and needs overhaul.	<ol style="list-style-type: none"> 1. Return the machine to your nearest CLARKE dealer.

COMPONENT PARTS



COMPONENT PARTS LIST

NO	DESCRIPTION
1	Screw
2	Spring Washer
3	Front Cover
4	Front Cover Gasket
5	Ball Bearing
6	Oil Sight-glass
7	O-ring
8	Breather
9	Crankcase
10	Baseplate Seal
11	Baseplate
12	Screw
13	Oil plug
14	Crankshaft
15	Oil Seal
16	Bearing Seat
17	Connecting rod
18	Piston
19	Circlip
20	Compression ring
21	Oil ring
22	Piston pin
23	Screw
24	Spring washer
25	Flat washer
26	Cylinder gasket

NO	DESCRIPTION
27	Cylinder
28	Valve plate gasket
29	Valve plate
30	Copper gasket
31	Valve reed
32	Head cover gasket
33	Connector nut
34	Aftercooler
35	Screw
36	Spring washer
37	Aftercooler gasket
38	Screw
39	Spring washer
40	Head cover
41	Air filter
42	Screw
43	Flat washer
44	Flat washer
45	Spring washer
46	Nut
47	Pulley
48	Key
49	Flywheel
50	Flat washer
51	Screw
52	Z Bracket

NO	DESCRIPTION
53	Screw
54	Drive belt
55	Flat washer
56	Screw
57	Safety guard
58	Safety guard fixing
59	Power cable
60	Motor cable
61	Motor
62	Screw
63	Pressure gauge
64	Pressure switch
65	Plug
66	Safety valve
67	Discharge pipe
68	Copper sheathing
69	Core
70	Nut
71	Elbow
72	Check valve
73	Exhaust pipe
74	Ball valve
75	Reservoir end plug
76	Tank
77	Drain valve

DECLARATION OF CONFORMITY - UK



DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

2014/30/EU Electromagnetic Compatibility Directive
 2006/42/EC Machinery Directive
 2000/14/EC Outdoor Noise Directive
 2014/68/EU Pressure Equipment Directive
 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
 2014/29/EU Simple Pressure Vessels Directive

The following standards have been applied to the product(s):


EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014, EN 62321-5:2014, EN 1012-1:2010,
 EN 62321-4:2014/A1:2017, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN ISO 3744:1995,
 EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017, EN 62321-8:2017, EN 60204-1:2018

OUTDOOR NOISE	PRESSURE EQUIPMENT	SIMPLE PRESSURE VESSELS
Notified Body: TÜV SÜD Industrie Service GmbH (ID: 0036), Westendstraße 199, 80686 München, Germany	Notified Body: TÜV Rheinland Industrie Service GmbH (ID: 0035), Am Grauen Stein, 51105 Köln, Germany	Notified Body: TÜV SÜD Industrie Service GmbH (ID: 0036), Westendstraße 199, 80686 München, Germany
Assessment Procedure: Annex VI of above noise legislation	Certificate Number: 01 202 CHN/Q-18 0642	Certificate Number: 12 202 25 03 91252 002
Measured LWA: 93.8 dB	Assessment Category: IV	Assessment Category: N/A
Guaranteed LWA: 97 dB	Assessment Module(s): D (Quality Assurance Type)	Assessment Module(s): C2

This declaration is issued, in accordance with (UK) legislation, under the sole responsibility of the manufacturer. The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2025

Manufacturer: Clarke International Ltd, Hemnall Street, Epping, Essex, CM16 4LG, United Kingdom
Product Description: Air Compressor
Model Number(s): BOXER II 23-200
Serial/Batch Number: Refer to product/packaging label

Document Holder: Alan Pond
Date of Issue: 29/12/2025
Signed:  J.A. Clarke
 Director

BOXER II 23-200 UKCA Clarke DOC 122925

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 2014/29/EU Simple Pressure Vessels Directive

The following standards have been applied to the product(s):

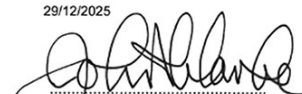
EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014, EN 62321-5:2014, EN 1012-1:2010,
 EN 62321-4:2014/A1:2017, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN ISO 3744:1995,
 EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017, EN 62321-8:2017, EN 60204-1:2018

OUTDOOR NOISE	PRESSURE EQUIPMENT	SIMPLE PRESSURE VESSELS
Notified Body: TÜV SÜD Industrie Service GmbH (ID: 0036), Westendstraße 199, 80686 München, Germany	Notified Body: TÜV Rheinland Industrie Service GmbH (ID: 0035), Am Grauen Stein, 51105 Köln, Germany	Notified Body: TÜV SÜD Industrie Service GmbH (ID: 0036), Westendstraße 199, 80686 München, Germany
Assessment Procedure: Annex VI of above noise legislation	Certificate Number: 01 202 CHN/Q-18 0642	Certificate Number: 12 202 25 03 91252 002
Measured LWA: 93.8 dB	Assessment Category: IV	Assessment Category: N/A
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This declaration is issued, in accordance with (EU) legislation, under the sole responsibility of the manufacturer. The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2025

Manufacturer: Clarke International Ltd, Fitzwilliam Hall, Fitzwilliam Place, Dublin 2, Republic of Ireland
Product Description: Air Compressor
Model Number(s): BOXER II 23-200
Serial/Batch Number: Refer to product/packaging label

Document Holder: Alan Pond
Date of Issue: 29/12/2025
Signed:  J.A. Clarke
 Director

BOXER II 23-200 CE Clarke DOC 122925

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A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS



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