COMPRESSOR
MODEL NO: WARRIOR 55
PART NO: (110V) 2323010, (230V) 2322020.

OPERATION & MAINTENANCE
INSTRUCTIONS
INTRODUCTION

Thank you for purchasing this CLARKE Compressor.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required 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.

PARTS AND SERVICING

For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com
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. NEVER direct a jet of air at people or animals, and NEVER discharge compressed air against the skin.
2. DO NOT operate your compressor with any guards removed.
3. Electrical or mechanical repairs should only be carried out by a qualified engineer. If problems occur, contact your Clarke dealer.
4. Before carrying out any maintenance, ensure the pressure is expelled from the air receiver, and the machine 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 machine.
7. DO NOT operate in wet or damp conditions. Keep the machine dry at all times. Similarly, a clean atmosphere will ensure efficient operation. Do not use in dusty or otherwise dirty locations.
8. Some of the metal parts can become quite hot during operation. Take care not to touch these until the machine has cooled down.
9. Always set the pressure regulator to the recommended setting for the tool.
10. When spraying flammable materials e.g. cellulose paint, ensure that there is adequate ventilation and keep clear of any possible source of ignition.
11. Before spraying any material, always consult paint manufacturers instructions for safety and usage.
12. Protect yourself. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and/or fumes.
13. Do not exert any strain on electrical cables and ensure that air hoses are not kinked or wrapped around machinery etc.
14. When disconnecting air hoses or other equipment from your compressor ensure that the air supply is turned off at the machine outlet and vent all pressurised air from within the machine and other equipment attached to it.
15. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
16. Always ensure that all individuals using the compressor have had the necessary training and have read and fully understand these operating instructions.
17. Ensure that any equipment or tool used in conjunction with your compressor, has a safe working pressure exceeding that of the machine.
18. Exercise caution when transporting the machine to avoid tipping the machine over.
19. Permanently installed systems should be installed by a competent engineer.
20. These Machines produce noise levels in excess of 70dB(A). Persons working in the vicinity of the machine must be provided with suitable ear protection.
ELECTRICAL CONNECTIONS

WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

WARRIOR 55, 110V MODEL ONLY

Connect the mains lead to a suitable 110V (50Hz) electrical supply through an approved plug or a suitably fused isolator switch.

If using a portable 110V transformer, make sure it has a rated capacity sufficient to take the load of the air compressor (see specifications on page 12).

WARRIOR 55, 230V MODEL ONLY

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

WARNING! The wires in the power cable of this product are coloured in accordance with the following code:

Blue = Neutral  Brown = Live  Yellow and Green = Earth

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured Blue must be connected to the terminal which is marked N or coloured Black.
- The wire which is coloured Brown must be connected to the terminal which is marked L or coloured Red.
- The wire which is coloured Yellow and Green must be connected to the terminal which is marked E or  or coloured Green.

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.
ASSEMBLY

CAUTION: THE COMPRESSOR IS HEAVY, GET ASSISTANCE WHEN LIFTING OR MOVING THIS COMPRESSOR TO AVOID PERSONAL INJURY.

FITTING THE WHEELS
Fit the wheels using a suitable spanner.

FITTING THE SUPPORT FEET
Fit the 2 support feet into place as shown.

FITTING THE HANDLE
Slide the handle into the position shown and secure in place using the fixings provided.
MOVING THE AIR COMPRESSOR
Before moving the compressor, switch off and disconnect it from the mains power supply.

- Always use the handle.
- Only move the compressor when it is switched off.
- Do not lift by (or put strain on) fittings, valves or hoses.
- Take care when moving the compressor to avoid damaging the valves or fittings.

BEFORE USE
Before connecting your compressor to the mains supply, check the following:-

- Make sure that the ON/OFF switch is in the OFF (pressed down) position.
- Make sure the compressor is on level ground.
- Check that the mains voltage is the same as that shown on the data label on the compressor.

CHECK THE OIL LEVEL
NOTE: The compressor is supplied without any oil inside, there will also be a transit plug inserted into the oil reservoir, which must be removed and the dipstick supplied inserted in its place.

1. Remove the dipstick from the oil reservoir.
2. Add oil until the oil level is between the min and max marks on the dipstick.
   - Only use SAE40 compressor oil, available from your Clarke Dealer.

ATTACHING AIR TOOLS

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

1. Attach the air hose to the regulator.
2. Fit the tool to the end of the air hose.
OPERATION

If the compressor has not been used for 24 hours or more, open the drain valve in the tank to drain any condensate which may have accumulated. See page 10

1. Insert the plug into the power socket and switch on the power.

2. Lift the On/Off button.
   - The compressor will run until the main tank is fully pressurised. It will then switch off.
   - The compressor will start up again when the pressure in the main tank decreases during use.

3. Make sure the safety valve is working correctly by pulling on the ring attached.
   - Air should be released when the ring is pulled and stop when released.
   - If the valve does not operate as expected, it must be replaced by qualified service personnel before the compressor is used.

4. Set the operating pressure you need using the pressure regulator.
   - Clockwise to increase the pressure
   - Anticlockwise to decrease the pressure

**WARNING: DO NOT REMOVE OR ATTEMPT TO ADJUST THE SAFETY VALVE.**
REMOVING TOOLS FROM THE AIR HOSE

WARNING: ALWAYS SET THE PRESSURE REGULATOR TO ZERO BEFORE ATTEMPTING TO REMOVE OR REPLACE A TOOL.

1. Push down on the On/Off button to stop the compressor.

2. Set the pressure regulator to the lowest setting (fully anticlockwise).

3. Activate the tool (spray gun etc) to depressurise the air hose.

4. The tool can then be disconnected from the hose.

SHUTTING DOWN THE COMPRESSOR

1. Follow steps 1-3 in “Removing Tools From The Air Hose” above.

2. Disconnect the compressor from the mains supply.
   - Never leave the compressor unattended while the tank is pressurised.
   - Always release the pressure from the tank when not in use or prior to storage, as described in the following section.
DRAINING THE TANK

CAUTION: YOU MUST DRAIN THE TANK AFTER EACH DAY'S USE AND BEFORE YOU STORE YOUR COMPRESSOR.

1. Turn the compressor off and disconnect from the power supply.
   - Put a container beneath the drain valve to catch any condensation.
2. Open the drain valve slowly.
   - You will hear a hissing sound as the tank depressurises.
   - Any condensation will drain from the tank.
3. Close the drain valve when the tank has fully drained.

RESET BUTTON

This compressor has a thermal overload device which protects the motor.

If the motor overheats the thermal overload device cuts the power, thus preventing damage to the motor.

If the thermal overload device activates, wait 5 minutes for the motor to cool and press the reset button.

If you restart the compressor and the overload cutout activates again,
   - Switch off the compressor.
   - Disconnect the compressor from the mains supply.
   - Have your compressor checked by a qualified service agent.
MAINTENANCE

CHECKING THE OIL LEVEL (DAILY)
Make sure that there is sufficient oil in the oil reservoir (See page 6) and top-up if necessary.

- Only use SAE40 compressor oil, available from your Clarke dealer.

DRAIN THE TANK (DAILY)
When you have finished using the compressor for the day, always open the drain valve to ensure that any condensate is drained off.

CLEANING THE AIR INTAKE FILTER (MONTHLY)
The air intake filter should be inspected on a monthly basis, and more often in dusty conditions,

1. Remove the air filter cover from the compressor as shown.

2. Remove the sponge filter from the filter cover.

3. Clean the sponge and the filter cover using a soft brush.
   - If necessary, the sponge filter may be gently washed in warm soapy water.
   - Rinse and allow the filter to dry thoroughly before refitting.

4. Ensure that the filter and filter cover is replaced in its original position.
   - If the filter is damaged, you should obtain a replacement.
CHECK THE NON RETURN VALVE (EVERY 6 MONTHS)

If the tank pressure decreases for no apparent reason, it is possible that the non-return valve is leaking. To check the valve:

1. Make sure the tank is not under pressure and the machine switched OFF.
2. Examine the non-return valve, and replace the gasket and valve if necessary.

SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Warrior 55 230V</th>
<th>Warrior 55 110V</th>
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<tbody>
<tr>
<td>Max. Pressure</td>
<td>10 Bar</td>
<td>10 Bar</td>
</tr>
<tr>
<td>Voltage</td>
<td>230V @ 50HZ</td>
<td>110V @ 50HZ</td>
</tr>
<tr>
<td>Air Displacement</td>
<td>9 CFM</td>
<td>9 CFM</td>
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<tr>
<td>Receiver Capacity</td>
<td>50 L</td>
<td>50 L</td>
</tr>
<tr>
<td>Fuse Rating</td>
<td>13 A</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimensions (L x W x H) mm</td>
<td>855 x 377 x 690</td>
<td>855 x 377 x 690</td>
</tr>
<tr>
<td>Guaranteed Sound Power Level</td>
<td>97 dB(A)</td>
<td>97 dB(A)</td>
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<tr>
<td>Weight</td>
<td>35.1 kg</td>
<td>35.1kg</td>
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<tr>
<td>Compressor Oil</td>
<td>SAE 30</td>
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</table>

Please note that the details and specifications contained herein, are correct at the time of going to print. We reserve the right to change specifications at any time without prior notice.
**TROUBLESHOOTING**

CAUTION: DO NOT ATTEMPT ANY REPAIR OR ADJUSTMENT IF YOU ARE UNCERTAIN AS TO HOW IT SHOULD BE DONE. IF YOU HAVE ANY QUERIES, CONTACT YOUR CLARKE DEALER.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
</table>
| The compressor has stopped and does not start. | Bad electrical connections. | 1. Check electrical connections.  
2. Clean and tighten as necessary. |
| Overload cutout switch has tripped. | 1. Switch off and wait approx 5 minutes.  
2. Press the reset button and switch on again. |
| Motor windings burnt out. | 1. Contact your Clarke dealer for a replacement motor. |
| The compressor does not reach the set pressure and overheats easily. | Compressor head gasket blown or valve broken. | 1. Return the machine to your nearest service agent. |
| Compressor does not start. | The tank has already fully pressurised. | 1. Open drain valve to expel air. Compressor should start again when pressure reduces. |
| Air leaking from the pressure switch valve when the compressor is not running. | Faulty non-return valve. | 1. Drain receiver completely of air.  
2. Remove the valve end plug.  
3. Carefully clean the valve seat and the gasket  
4. Reassemble. |
| Air pressure from the regulator will not adjust. | The diaphragm within the regulator body is broken. | 1. Replace regulator |
| The compressor is very noisy and makes a metallic knocking sound. | Compressor damaged and needs overhaul. | 1. Return the machine to your nearest service agent. |
## PARTS LIST

<table>
<thead>
<tr>
<th>NO</th>
<th>DESCRIPTION</th>
<th>PART NO</th>
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<tbody>
<tr>
<td>1</td>
<td>Casing Cover</td>
<td>FN116CN0025</td>
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<td>2</td>
<td>Mk285-2,5m 230-240/50</td>
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<td>2</td>
<td>Mk285-2,5m 110/50</td>
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<td>3</td>
<td>Oil Dipstick</td>
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<td>4</td>
<td>Crankshaft</td>
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<td>5</td>
<td>Casing</td>
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<td>6</td>
<td>Connecting Rod</td>
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<td>7</td>
<td>Piston Ring Set</td>
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<td>8</td>
<td>Complete Piston</td>
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<td>Manifold</td>
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<td>13</td>
<td>Filter Element</td>
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<td>14</td>
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<td>15</td>
<td>Intake Filter</td>
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<td>16</td>
<td>Overload Cutout 230v</td>
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<td>Overload Cutout 110v</td>
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<td>17</td>
<td>Bearing</td>
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<td>Seal Ring</td>
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<td>19</td>
<td>Rotor</td>
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<td>20</td>
<td>Condenser 230v</td>
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<td>Bearing</td>
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<td>23</td>
<td>Rear Cover</td>
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<td>24</td>
<td>Fan</td>
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<td>25</td>
<td>Circlip</td>
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<td>26</td>
<td>Housing</td>
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<td>27</td>
<td>Automatic Discharge Valve</td>
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<td>28</td>
<td>Gaskets Set 230v</td>
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<td>Gaskets Set 110v</td>
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<td>29</td>
<td>Tank</td>
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<td>30</td>
<td>Drain Valve</td>
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<td>31</td>
<td>Wheel Kit</td>
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<td>32</td>
<td>Connection Pipe</td>
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<td>33</td>
<td>Olive</td>
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<td>Nipple</td>
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<td>35</td>
<td>Non Return Valve</td>
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<td>36</td>
<td>Rilsan Pipe</td>
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<td>37</td>
<td>Handle</td>
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<td>38</td>
<td>Extension</td>
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<td>39</td>
<td>Cord UK (230 V ONLY)</td>
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<td>40</td>
<td>Safety Relief Valve</td>
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<td>41</td>
<td>Gauge</td>
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<td>42</td>
<td>Switch</td>
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<td>43</td>
<td>Gauge</td>
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<td>44</td>
<td>Pressure regulator</td>
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<td>45</td>
<td>Tap Ball Valve</td>
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<td>46</td>
<td>Double Ended Connector</td>
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<td>47</td>
<td>Base Pioneer</td>
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</table>
DECLARATION OF CONFORMITY

We, Clarke International, as the authorised representative of the manufacturer, declare that the following product(s) comply with the directive(s) and standard(s) listed below.

Product Description: Air Compressor
Model number(s): Warrior 55
Serial / batch Number: N/A

Notified Body: Istitutuo Servizii Europei Technologici SRL
Via Donatori del Sangue, 9
46024 –Moglia (MN)
Italy

Technical Documentation Holder: A.R. Pond
Clarke International
2a Shrubland Road
London E10,7RB
UK

Conformity Assessment Procedure: to 2000/14/EC Annex V
Manufacturer: European Supplier
Noise Related Value: 1.89 kW
Measured Sound Power Level: 96dB
Guaranteed Sound Power Level: 97dB
DECLARATION OF CONFORMITY

This is an important document and should be retained.

Directive(s):

2006/42/EC Machinery Directive.
2006/95/EC Low Voltage Equipment Directive.
2002/95/EC Restriction of Hazardous substances.
2009/105/EC Simple Pressure Vessels

Standard(s):

EN 60335-1, EN 60204-1, EN 61000-6-3, EN 61000-6-4, EN 1012-1.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2011

Signed:

J.A. Clarke
Director

Date of Issue: 04/04/2012

Place of Issue: Clarke International
Hemnall Street
Epping
Essex, CM16 4LG
England
POPULAR ACCESSORIES

Your local Clarke stockists can supply a wide choice of accessories to help you make the very best of your air compressor. These include:

**KIT1000**

5 Piece Air Accessory Kit – KIT100
Kit comprises:
- Paint spray gun
- Recoil hose
- Paraffin gun
- Tyre inflator with gauge
- Blow gun
- All connections ¼" BSP
- Weight 2kg

**CAT116**

3/8" Air Drill

**CAT118**

Sabre Saw

**CAT111**

Orbital Sander

**CAT113**

3" CUTOFF TOOL

**CAT115**

1/2" Reversible Ratchet

**CAT110**

1/2" Square Drive Impact Wrench

**CAT117**

1/2" Impact Wrench

**CAT121**

Dual Action Sander

**CAT108**

1/2" Square Drive Reversible Ratchet

**CAT109**

3/8" Square Drive Reversible Ratchet

A comprehensive choice of Clarke spraying equipment is available for your air compressors, including:

**PRO12**

This professional spraygun is available with a choice of nozzle sizes to suit all air compressors from 1.5HP – 3HP.

**TG2**

Touch up gun ideal for precision paint spraying and touch up work. This syphon fed, external mix spraygun is popular with professionals.

Air hose is available in a range of lengths. Amongst the most popular are:

**BLACK RUBBER AIR HOSE**
Complete with connections, this hose is available in lengths from 10m to 50m

**RECOIL HOSE**
Ideal for DIY and professional use, this recoil hose is available in a range of lengths
A SELECTION FROM THE VAST RANGE OF

QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need.

WELDERS
Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Crane, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, cordless drill sets, saws and sanders.

STARTERS/CHARGERS
All sizes for car and commercial use.

PARTS & SERVICE: 020 8988 7400
E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com
SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

Clarke INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com