OPERATION & MAINTENANCE

AIR COMPRESSOR

JUMBO

STARTER/CHARGERS

AIR COMPRESSORS

Drill Presses

CUT OFF Saws

Metalworking

POWER TOOLS

GAS TOOLS

WOODWORKING

GENERATORS

A SELECTION FROM THE WIDE RANGE OF

Quality Products
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**TECHNICAL DATA**

- **Model**: JUMBO
- **Motor**: 230 VAC 50Hz 1ph
- **Motor Rating**: 0.65 HP - 0.48kW
- **Speed**: 2850 RPM
- **Guaranteed Sound Power Level**: 88dBL

**PARTS LIST (Compressor)**

- **Dimensions (mm)**: 330x190x290
- **Duty Cycle**: The Compressor may be used continuously.

Please note that the details and specifications contained herein are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice. Always consult the machine's data plate.

© Copyright CLARKE International, September 2003
Thank you for purchasing this Clarke JUMBO Air Compressor, designed for DIY use only, where an output of not more than 3.5cfm is required. The machine may be run continuously and is supplied with a paint spraygun and 3 metre hose.

JUMBO AIR COMPRESSOR

GUARANTEE

This product is guaranteed against faults in manufacture for 12 months from purchase date. Please keep your receipt as this is required. This guarantee does not affect your statutory rights.

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SAFETY PRECAUTIONS

WARNING!
Compressed air can be dangerous. Follow these safety instructions carefully.

Never direct a jet of compressed air at people or animals. Compressed air can be dangerous.

- Never spray towards people or animals.
- Always use appropriate protective equipment, such as Clarke’s safety-goggles, or glasses, dust masks, or ear defenders, etc., when spraying.
- Always wear a sturdy approved breathing mask when painting.
- When spraying:
  - Always wear a suitably approved breathing mask when painting.
  - If in doubt, check the paint manufacturer’s instructions.
  - An air feed mask may be required when spraying some types of paint.
  - Spraying to protect against inhalation of paint or spray fumes.

Air compressors work at high pressure.
- Always inspect equipment and hoses before use. Checking for any damage or leaks. Have any damaged or leaking hoses replaced.
- Always operate the compressor with any guards in place.
- Never operate the compressor with any guards removed.
- DO NOT adjust or tamper with the safety valve in any way. The maximum working pressure (116 psi - approximately 8 bar) is clearly marked on the compressor.
- The compressor will become hot during operation. DO NOT touch the cylinder head or discharge pipe while the compressor is in use.
- The compressor will become hot during operation. DO NOT touch the cylinder head or discharge pipe while the compressor is in use.
- Always release any pressure from the air hose (by operating the tool briefly) before disconnecting any hoses or tools.
- Always follow the manufacturer’s instructions for the air compressor.
- If in doubt, check the paint manufacturer’s instructions.
- An air feed mask may be required when spraying some types of paint.
- Spraying to protect against inhalation of paint or spray fumes.

NEVER
Spray towards people or animals.

AlWAYS
Use appropriate protective equipment such as Clarke’s safety-goggles, or glasses, dust masks, or ear defenders, etc., when spraying.

When spraying:
- Always wear a suitably approved breathing mask when painting.
- If in doubt, check the paint manufacturer’s instructions.
- An air feed mask may be required when spraying some types of paint.
- Spraying to protect against inhalation of paint or spray fumes.

NEVER
Spray towards people or animals.
ELECTRICAL CONNECTIONS

Connect the mains lead to a standard 230 Volt (50Hz) electrical supply through an approved BS1363, 13amp plug or a suitably fused isolator switch.

We recommend that the compressor is connected to the mains supply through a Residual Current Device (RCD).

WARNING! THIS APPLIANCE MUST BE EARTHED

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

Green & Yellow - Earth
Brown - Live
Blue - Neutral

As the colours of the appliance cord of this appliance may not correspond with the following code, the wires in the mains lead are coloured in accordance with the following code:

Brown - Live
Blue - Neutral
Green & Yellow - Earth

WARNING: THIS APPLIANCE MUST BE EARTHED

In double insulation a moulded plug is fitted with a fuse. It is not necessary to fit a separate fuse. Replacements should be made with a BS1362 13amp fuse.

In single insulation a fuse is fitted to each plug. It is the responsibility of the user to ensure that the fuse is of the correct rating and that it is replaced with a fuse of the same rating.

Fuse Replacement

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

Fuse Replacement

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewirable) please note:

1. The plug must be thrown away if cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse carriers can be obtained from your local dealer or manufacturer.
5. The fuse in the plug must be replaced with one of the same rating (13amps). The fuse must be ASTA approved to BS1362.

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

ACCESSORIES

Your Jumbo Air Compressor can be used in conjunction with a range of optional accessories for inflating tyres, air blowing and many other uses.

Please quote part number 3110150 for details of the accessories available from your nearest dealer.

Should you experience any difficulties obtaining accessories, please contact the Clarke sales department (telephone 01992 565300) for details of your nearest dealer.

For Spare Parts and Service, please contact your nearest dealer.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
E-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com

or CLARKE International on one of the following numbers:

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
E-mail as follows:
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E-mail as follows:
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SERVICE: Service@clarkeinternational.com

or CLARKE International on one of the following numbers:
For a professional looking finish paint must be thinned. If manufacturer's recommendations on thinning are not provided, the following can be used as a general guide:

- Water based paints (emulsions): 10-20% water.
- Oil based paints (gloss): up to 10% thinners.
- Cellulose paints: up to 50% cellulose thinners.

HANDLING THE GUN

The first requirement for a good resultant finish is the proper handling of the gun. The gun should be perpendicular to the material that is to be covered. The distance between the gun and the surface to be covered should be 6 to 12 inches. The material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.

Before connecting your Jumbo to the mains supply, ensure:

(A) The Dipstick, contained in the bag of loose items, is installed. Remove the plastic travel plug in order to do so.

(B) The GREEN coloured ON/OFF Rocker switch is in the 'O' position.

(C) The Pressure Regulator at the air outlet, 'A' Fig. 2, is in the low pressure or 'Start' position, i.e. turned fully anticlockwise. It may be necessary to release the Locking Ring ('B' Fig. 2) in order to turn the Regulator Knob.

IMPORTANT!

The Jumbo is supplied with the outlet air pressure regulated to a maximum 8bar...116psi. It is IMPORTANT that in order to avoid damage to the spraygun (provided), the pressure is regulated to a maximum 3.5bar...50psi MAX.

In order to achieve this it is necessary to replace the spring within the Regulator chamber as follows:

1. Unscrew the Regulator Locking Ring - 'B'.
2. Unscrew the Retaining Screw - 'C', sufficiently for the Regulator Knob - 'A' to be unscrewed and removed completely.
3. Replace the spring within the knob.
4. Replace the spring within the Regulator Locking Ring - 'B'.
5. Turn the Regulator Knob to the 'Start' position, i.e. turned fully clockwise.
6. Replace the retaining screw - 'C'.

NOTE: To reduce overspray and obtain maximum efficiency, always spray with the lowest possible atomising air pressure.
PAINT SPRAYING HINTS

WARNING
NEVER attempt to spray unless you are wearing suitable, approved respiratory and eye protection.

REMEMBER that some modern paints require specialist respiratory protection... always consult the paint manufacturer's instructions.

1. GENERAL PREPARATION
   a. Ensure that the area in which you will be spraying is clean and dust free.
   b. Connect spray gun to compressor via suitable flexible hose.
   c. With no paint in spray gun, test system for air leaks.
   d. Cover adjacent pieces of equipment to prevent overspray. Mask areas of the article not to be sprayed.
   e. Ensure surface to be painted is clean, dry and free from oil and dust. Check paint manufacturer's instructions for any special surface preparation required.

   REMEMBER - TIME SPENT PREPARING SAVES TIME SPENT FINISHING

2. PAINT PREPARATION
   a. Achieve the correct paint viscosity. This should be done according to paint manufacturer's instructions, and will vary according to type of paint.
   b. Having mixed the paint thoroughly in a separate container, pour into the spray gun paint container through a fine filter.
   c. It is usually best to experiment with a couple of practice spray coats on a piece of material with the same type of surface as the article you wish to spray, e.g. metal for a car body panel, wood for a piece of furniture etc.
   d. Some common problems:

   PROBLEM | CAUSE | CORRECTION
   --- | --- | ---
   Paint does not atomise | Paint is too thick, air pressure is too low. | Add thinners. Increase air pressure (not above 50 psi, unless specified by paint manufacturer).
   Paint dries before hitting surface | Paint is too thin. Air pressure is too high. | Add more paint. Reduce air pressure with a rough texture.
   Finish is pitted like an animal or the area to be sprayed is too close to the spray gun. | Increase distance between spray gun and work. | Spray gun at least 30cm from the work.

   IMPORTANT! Retain the spring for future use...i.e., whenever higher pressures are required...up to 8bar.

   Connect the spraygun, or the other tool to be used, to the air outlet of the Jumbo using the air hose, which is fitted with quick fit adaptors at each end. An air tight seal is formed by the rubber washer... not over tighten. If the face of a rubber seal becomes damaged, then it may either be turned over or otherwise replaced.

   Switch the machine ON at the rocker switch. The Jumbo should start immediately. However, if at any time it hesitates to do this, then immediately trigger the spraygun or tool in order to release any built up pressure.

   The syphon spraygun supplied with your Jumbo Air Compressor is most versatile and can be used to apply a variety of paint material. It features one basic control, the Paint Control knob.

   The knob is at the rear of the spraygun, and adjusts the position of the main needle and consequently the volume of paint which can be sprayed. Minimum paint flow is achieved by having this control screwed in (clockwise) and vice versa.

   Turn the paint control knob so that the desired volume of paint is produced. The air pressure may, within limitations, be increased by turning the Pressure Regulator clockwise or decreased by turning it anticlockwise. Turn the Pressure Regulator, whilst triggering the gun, to the desired pressure for the type of work... animal or the area to be sprayed. When the desired pressure is achieved, lock the regulator knob with the locking ring.

   You may need to experiment to find the settings best suited for a particular job. When spraying paint, or similar material, it is usually best to operate at the lower setting for the first coats.

   NOTE: The duty pump should be more than ¾ filled. Please refer to the Pumps on Spraying page 65.

   IMPORTANT: Begin the spraying for the first use: "1." When high air pressures are used...

   IMPORTANT: Always consult the paint manufacturer’s instructions... never attempt to spray unless you are wearing suitable, approved respiratory and eye protection.

   NEVER attempt to spray unless you are wearing suitable, approved respiratory and eye protection.

   WARNING
### 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 local CLARKE Dealer.

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### FAULT FINDING

With considerate use, your CLARKE Air Compressor should provide you with long and trouble-free service. Routine checks should be made on both the electrical supply as well as the compressed air lines and connections. If any fault appears, the reason for which is not immediately obvious, please contact your local CLARKE Dealer.

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<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
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<tr>
<td>Compressor does not start.</td>
<td>Compressed air in cylinder head is not at the set pressure.</td>
<td>Replace or repair the motor.</td>
</tr>
<tr>
<td>Compressor head gasket blown or valve broken.</td>
<td>The compressor overloads easily.</td>
<td>Contact your CLARKE Dealer.</td>
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<tr>
<td>Compressor head gasket blown or valve broken.</td>
<td>Compressor head gasket blown or valve broken.</td>
<td>Replace Piston (contact your CLARKE dealer).</td>
</tr>
<tr>
<td>Compressor head gasket blown or valve broken.</td>
<td>Compressor head gasket blown or valve broken.</td>
<td>Contact your CLARKE dealer.</td>
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<td>Contact your CLARKE dealer.</td>
</tr>
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</table>

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### SHUTTING DOWN THE COMPRESSOR

1. Press the ON/OFF switch to the OFF position. Never use the mains switch to stop the motor.
2. IMPORTANT! Always depress equipment trigger (spraygun) to release air from the hose and compressor before disconnecting from the machine.
3. Switch off the air supply and disconnect the air hose from the machine.

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### ROUTINE CARE AND MAINTENANCE

**WARNING:** Never operate the compressor without the air intake filter fitted.

### CAUTION

Before carrying out any of this service work, always disconnect the Jumbo from the mains supply and if necessary allow the machine to cool down before starting. Do not attempt any repair or adjustment yourself if you are uncertain as to how it should be done.

It is important to keep the air filter clean. This may be done with the help of a small soft brush and vacuum cleaner. In particular the air intake filter should be inspected monthly as this would adversely affect the valves, including possible damage, and entail more extensive dismantling and cleaning.

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**YEARLY or 1000 HRS:**

Replace the air intake element.

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**EVERY 2 YEARS or 2000 HRS:**

Have the intake and delivery valves checked—see your Clarke dealer.