

Clarke®

BANDIT



BANDIT AIR COMPRESSOR

OPERATION & MAINTENANCE
INSTRUCTIONS



1004

DECLARATION OF CONFORMITY	
We declare that this product complies with the following standards/directives:	
<ul style="list-style-type: none"> ■ 98/37/EEC ■ 2000/14/EC ANNEX VI, PROCEDURE 1 	
Notified Body: Intertek Testing Services Shanghai Ltd. Bldg. 86, 1198 Qinzhou Rd., Shanghai 200233, China	
Measured Sound Power Level 81 dBLWA	Guaranteed Sound Power Level 87 dBLWA
Description: Air Compressor	
Model No: BANDIT	
Serial (Batch) No: See Product Date Plate	
Signed:  Engineering Manager	
Clarke INTERNATIONAL <small>Hemnal Street, Epping, Essex CM16 4LG</small>	

DOC No. HO75/27

Clarke International is a trading style of Clarke International Limited

Accessories

A range of accessories, for inflating tyres, air brushing, stapling, blowing, paint spraying etc., is available from your Clarke dealer. Also available in kit form, as illustrated below...Model KIT1000.



NOTE:

If this compressor is supplied with an Air Nailer/Stapler as part of a kit, then a 4.5 metre Recoil Hose is also provided. Part No. 3110458



Thank you for purchasing this Clarke Air Compressor set. Before attempting to operate the machine, please read this instruction manual thoroughly and carefully follow all directions given. This is for your own safety and that of others around you, and also to help you achieve long and trouble free service from your compressor.

Your Air Compressor can be used for a variety of applications including spraying paint and other liquids, powering tools, inflating and cleaning where the average air consumption of the tool being used does not exceed approximately 5 cubic feet per minute (5CFM).

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Guarantee
<p>This product is guaranteed against faults in manufacture for 12 months from purchase date. Please keep your receipt as proof of purchase.</p> <p>This guarantee is invalid if the product has been abused or tampered with in any way, or not used for the purpose for which it is intended.</p> <p>The reason for return must be clearly stated.</p> <p>This guarantee does not affect your statutory rights.</p>

Safety Precautions



WARNING



As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked, or ignored, personal injury to the operator, or damage to property may result.

It is in your own interest to read and pay attention to the following rules:

- ✓ **ALWAYS** ensure that all individuals using the compressor have read and fully understand the Operating Instructions supplied.
- ✓ **ALWAYS** ensure that any equipment or tool used in conjunction with your compressor, has a safety working pressure exceeding that of the machine.
- ✓ **ALWAYS** adjust the pressure regulator to the recommended setting for the particular tool being used.
- ✓ **ALWAYS** protect yourself. Think carefully about any potential hazards which may be created by using the air compressor and use the appropriate protection. **ALWAYS** use Goggles when operating a nailer or similar tool. Face masks will protect you against paint spray and/or fumes.
- ✓ If spraying inflammable materials e.g. cellulose paint, **ALWAYS** ensure that there is adequate ventilation and keep clear of any possible source of ignition.
- ✓ **ALWAYS** make sure that children and animals are kept well away from the compressor and any equipment attached to it.
- ✓ **ALWAYS**, before spraying any material, consult paint manufacturers instructions for safety and usage.
- ✓ **ALWAYS**, when disconnecting air hoses or other equipment from your compressor ensure that air is shut off at the outlet and **ALL** pressurised air is expelled from the air line and other equipment attached to it. (see 'Operation')
- ✓ **ALWAYS** expel air from the receiver and disconnect from the mains supply **BEFORE** carrying out any maintenance.
- ✗ **NEVER** direct a jet of air at people or animals, and **NEVER** discharge compressed air against the skin. **COMPRESSED AIR CAN BE DANGEROUS.**
- ✗ **NEVER** adjust, or tamper with the safety valves. The maximum pressure is factory set, and clearly marked on the machine.
- ✗ **NEVER** leave pressure in the receiver overnight, or when transporting.
- ✗ **NEVER** operate your compressor with any covers removed.
- ✗ **NEVER** exert any strain on electrical cables and ensure that air hoses are not tangled or wrapped around machinery etc.
- ✗ **NEVER** 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.
- ✗ **NEVER** touch metal parts of the machine as these can become quite hot during operation. Wait until the machine has cooled down.
- ✗ **NEVER** attempt to modify your compressor - **in any way.**
- ! Electrical or mechanical repairs should only be carried out by a qualified engineer. If problems occur, contact your Clarke dealer.

Electrical Connections

This product is provided with a standard 13 amp, 230 volt (50Hz), BS 1363 plug, for connection to a standard, 13 amp domestic electrical supply. Should the plug need changing at any time, ensure that a plug of identical specification is used.

⚠ WARNING! THIS APPLIANCE MUST BE EARTHED ⚠

Should the plug need changing at any time, ensure that a plug of identical specification is used. **IMPORTANT:** The wires in the mains lead should be wired up in accordance with the following colour code:

Green & Yellow Earth

Blue Neutral

Brown Live

- Connect the **Green & Yellow** coloured cord to the plug terminal marked a letter "E" or marked with the symbol "⏏"
- Connect the **BLUE** coloured cord to the plug terminal marked a letter "N"
- Connect the **BROWN** coloured cord to the plug terminal marked a letter "L"

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

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
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 covers can be obtained from most DIY or electrical stores.



FUSE RATING

The fuse in the plug must be replaced with one of the same rating (**13amps**) and this replacement must be ASTA approved to BS1362.

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

If in doubt, consult a qualified electrician. Do not attempt any electrical repairs yourself.

CABLE EXTENSION.

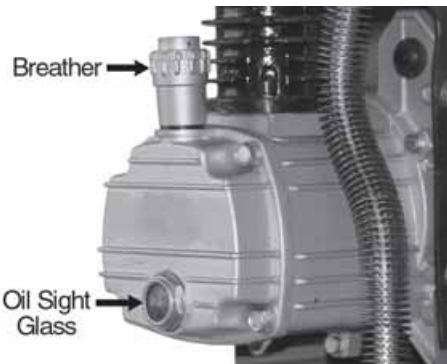
Always use an approved cable extension where the conductor size is at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely.

Pre-Operation Checks

Before using your compressor it is necessary to perform the following operations, ensuring the unit is NOT plugged into the mains supply.

1. Remove the Oil Filler Travel plug and fill with the SAE 30 oil supplied, to the centre of the red dot on the oil sight glass.

Fig.1



2. Screw in the Breather

Fig.2



3. Screw the air filter, supplied, into the cylinder head, fully.



4. Screw in the Tap and Regulator sub assembly tightly, (see Figs 3 & 4), noting that PTFE tape is already in place. Ensure the tap is uppermost.
5. The pressure regulator should be set to its lowest setting e.g. turned fully anti clockwise.
6. Check that the air receiver drain valve at the base of the receiver is fully CLOSED.
7. Ensure the machine is located on a level surface in a clean dry environment with adequate ventilation and plenty of air flow around the unit. DO NOT place any materials whatsoever on the unit.
8. Now connect the air hose to the air outlet, and at the other end to the air tool - screwed on directly.

Fig.3

Tap and Regulator sub-assembly



IMPORTANT: When using the compressor for the first time, open the drain cock and run the compressor for at least 10 minutes, off load, in order for full lubrication to take place (see operation which follows).

Once this is done, allow the compressor to sit for a minute or two, then recheck the oil level. Remove the breather and top up to the middle of the dot in the oil sight glass if necessary.

Operation

Once the hose connections are complete, plug in to the mains supply and start the compressor by pulling the STOP/START switch upwards. Pressure will build up in the receiver, as indicated on the gauge, to a predetermined maximum 116 PSI/8bar, when it will then stop.

At this point, slowly turn the pressure regulator clockwise to reach the desired setting for the air tool to be used, as indicated on the Air Outlet Gauge.

Open the Air Outlet Tap and check to ensure there are no air leaks. Should leaks be apparent, they should be rectified before proceeding.

Operate the air tool in the normal way. (Refer to the Air Tool manual). The air compressor will restart when the pressure has fallen by approximately 20 PSI and this automatic STOP/START process will then continue as necessary to replenish the receiver.

When you have finished with the compressor, always switch OFF at the STOP/START switch on the machine, NEVER by switching OFF at the mains.



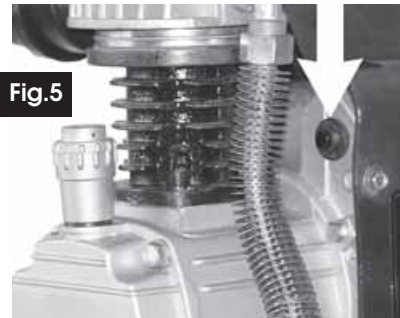
ALWAYS close the outlet tap and turn the pressure regulator fully anti-clockwise, then operate the trigger on the air tool **BEFORE** disconnecting the tool or air hose. **NEVER** attempt to disconnect the tool or air hose before checking to ensure there is no air in the hose.

When using at an output of 8bar, **DO NOT** allow the motor to run for longer than 2 minutes continuously. See 'DUTY CYCLE' on page 9.

THERMAL OVERLOAD

If the machine should overheat, the Thermal Overload will intervene and shut down the compressor. Should this happen, switch OFF the machine by pushing the STOP/START switch downwards, and wait for at least 5 minutes before pressing the RESET button (arrowed in illustration opposite) and trying to start again.

NOTE: It may take longer for the overload to reset, depending upon conditions.



DRAIN VALVE

After a period of use, especially if the weather has been warm and humid, it is quite possible that water (condensate), will have accumulated in the receiver.

To remove this condensate, first switch OFF the machine after ensuring that there is at least some compressed air in the receiver.

Simply loosen the drain valve for a few moments allowing the air and any water to escape - tip the machine over slightly so that the drain is the lowest point, to ensure all condensate is drained. REMEMBER to ALWAYS Re-tighten the drain valve before storage.

Maintenance

IMPORTANT! Before carrying out any service work, ALWAYS disconnect the compressor from the mains supply and release any air in the receiver. If necessary allow the machine to cool down before proceeding.

It is most important to keep the Air Compressor clean, this can be carried out using a small soft brush and a vacuum cleaner. In particular the air filter should be inspected periodically, so that it is always kept clean. If this instruction is not adhered to, a loss of performance could occur, even worse, any dirt passing through the filter could make its way into the cylinder head and adversely affect the valves. This could lead to more extensive damage necessitating its dismantling and replacement parts etc.

BEFORE EACH USE

Drain any condensate which may be present in the receiver, Undo the drain cock and tilt the machine so that the drain valve is at the lowest point in order to do so.

WEEKLY

1. Unclip the air filter cover, remove the filter and blow away any loose dirt. If damaged or badly contaminated, it must be replaced.
2. Clean the fins of the compressor cylinder and the cylinder head to receiver pipe. A clean compressor will work more efficiently.
3. With the machine on a flat level surface, check the oil level, It should be in the centre of the oil sight glass, at the red spot. If necessary, top up with SAE20 or SAE30 non detergent oil, by unscrewing the breather and using a small funnel to top up. Ensure the hole in the breather is completely clear before screwing back in place.
4. Check to ensure all nuts and bolts are tight. Check cylinder head bolts which should be tightened to 13.6 Nm (10lbf ft).

MONTHLY

Start the compressor, and pressurise the system. Inspect all joints for leaks using soapy water, and rectify as necessary.

EVERY 250 HOURS OR 6 MONTHS

(Whichever occurs first)

Change the compressor oil. Drain oil by removing the breather and turning the compressor on to its end. Support it in this position and leave for a period to ensure all oil is drained.

Caution

Do not attempt any repairs or adjustments if you are uncertain as how it should be done. If you have any queries, please contact your nearest CLARKE dealer, or otherwise telephone CLARKE International, Service Department, on: 020 8988 7400).

Shutting Down The Compressor

1. Push the STOP/START switch down to the OFF position.
NEVER USE THE MAINS SWITCH TO STOP THE MOTOR.
2. Depress the tool's trigger to release air from the hose and compressor before disconnecting from the machine.
3. Switch OFF at the mains and remove plug.

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.

PROBLEM	PROBABLE CAUSE	REMEDY
The compressor stops and will not start again.	Bad connections. Thermal Overload has intervened. Motor windings burnt out.	Check electrical connections. Clean and tighten as necessary. Switch off and wait at least 5 minutes before trying to restart Contact your local dealer for a replacement motor.
The compressor does not reach the set pressure and overheats easily.	Compressor head gasket blown or valve broken. Broken piston	Contact your CLARKE dealer. Replace Piston (contact your CLARKE dealer)
Low Pressure	Air Leak - safety Valve Restricted air filter Defective Check Valve	Blip safety valve by pulling the pull ring. If condition persists See your Clarke dealer Clean air filter, or replace See your Clarke dealer

Technical Data

Model	BANDIT
Maximum Air Pressure	8 BAR - 116 PSI
Air Displacement	4.5 CFM
Motor	1.25 HP
Voltage	230 VAC 50Hz 1pH
Motor Speed	2850RPM
Sound Power Level	87dB _{LWA}
Weight	15 kg (unpacked)
Part Number	3110243
Dimensions (mm)	425x325x460mm
Duty Cycle	2 min ON, 2 min OFF**

****Duty Cycle...This is in respect of the compressor motor ONLY. If the motor runs CONTINUOUSLY for more than 2 minutes, there is a danger of damage occurring. Under these circumstances, it must be switched OFF for at least a 2 minute period.**

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 machines data plate

Parts List

No.	Description	Part No	No.	Description	Part No
1	Head Bolt	HTBAN01	29	Bearing	HTBAN27
2	Spring Washer	HTBAN02	30	Stator	HTBAN30
3	Cylinder Head	HTBAN03	31	Fan	HTBAN31
4	Air Filter	HTBAN04	32	End Cover	HTBAN32
5	Elbow	HTBAN05	33	Thermal Overload	HTBAN33
6	Piston set compl.	HTBAN06	34	Plastic Cover	HTBAN34
7	Valve Assy. compl.	HTBAN07	35	Capacitor	HTBAN35
8	Con-Rod	HTBAN08	36	Capacitor	HTBAN36
9	Crankshaft	HTBAN09	37	Screw	n/a
10	Screw	HTBAN10	38	Washer	n/a
11	Cylinder	HTBAN11	40	Pressure Adjuster Block	HTBAN40
12	Crankcase Bolt	HTBAN12	41	Connector	HTBAN41
13	Spring Washer	HTBAN13	42	Air Tap	HTBAN42
14	Gasket	HTBAN14	43	Safety Valve	HTBAN43
15	Oil Sight Glass	HTBAN15	44	Outlet Pressure Gauge	HTBAN44
16	Washer	HTBAN16	45	Tank Pressure Gauge	HTBAN45
17	End Cover	HTBAN17	46	Connector	HTBAN46
18	Bolt	HTBAN18	47	Pressure Relief Valve	HTBAN47
19	Breather	HTBAN19	48	Air Pipe	HTBAN48
20	Gasket	HTBAN20	49	HP Air Pipe complete	HTBAN49
21	Casing	HTBAN21	50	Air Tank	HTBAN50
22	Nut	HTBAN22	51	Handle	HTBAN51
23	Washer	HTBAN23	52	Foot	HTBAN52
24	Screw	n/a	53	Washer	n/a
25	Screw	n/a	54	Nut	n/a
26	Oil Seal	HTBAN26	55	Drain Valve	HTBAN55
27	Bearing	HTBAN27	56	Bolt	n/a
28	Rotor	HTBAN28	57	Washer	n/a

Parts & Service Contacts

For Spare Parts and Service, 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

Parts Drawing

