

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

⚠ IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

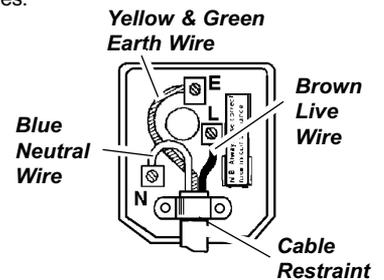
1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY. ⚠ WARNING! It is the user's responsibility to read, understand and comply with the following:
 You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear or damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply.
See 1.1.1. & 1.1.2. above and use a Portable Appliance Tester (PAT).
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply leads and plugs for wear or damage and connections to ensure that none is loose.
- 1.1.6. **Important:** Ensure the voltage marked on the product is the same as the power supply to be used, and check that the plug is fitted with the correct capacity fuse.
- 1.1.7. **DO NOT** pull or carry the appliance by its power supply lead.
- 1.1.8. **DO NOT** pull plug from socket by the power cable.
- 1.1.9. **DO NOT** use worn or damage leads, plugs or connections. Immediately replace or have repaired by a qualified electrician.
- 1.1.10. **NOTE: THIS PRODUCT IS INTENDED FOR USE ON AN INDUSTRIAL 30AMP SUPPLY WHICH MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN.** It may be possible to operate the compressor on a "Domestic" 13 amp outlet under the following conditions: The mains supply must conform to IEE Wiring Regulations, and the "spur" used to run the compressor must not include any other socket which could be used for another appliance. The distance of the socket from the mains distribution point must not exceed 5 metres.
An extension lead must not be used.

1.1.11. **Note:** Under certain conditions the compressor will draw more than 13 amps. Consequently, we recommend a 30 amp supply and suggest that a direct round pin plug/socket is installed by a qualified electrician. In the event that you choose to use a domestic 13 amp supply, we provide the plug wiring instructions as follows:
 (UK only - see diagram at right). Ensure the unit is correctly earthed via a three-pin plug.

- a) **Connect the green/yellow earth wire to the earth terminal 'E'.**
- b) **Connect the brown live wire to the live terminal 'L'.**
- c) **Connect the blue neutral wire to the neutral terminal 'N'.**
- d) **Ensure the plug is fitted with a 13 amp fuse.**
- e) **After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends past the cable restraint and that the restraint is tight.**



NOTE: IF THE FUSE BLOWS REPEATEDLY WHEN USED ON A DOMESTIC 13 AMP SUPPLY, CONTACT A QUALIFIED ELECTRICIAN TO INSTALL A 30 AMP SUPPLY.

1.2. GENERAL SAFETY INSTRUCTIONS

- 3 Familiarise yourself with the application and limitations of the compressor.
- 3 Ensure the compressor is in good order and condition before use. If in any doubt do not use the unit and contact an electrician/service agent.
- ⚠ **WARNING! Compressor must only be serviced by an authorised agent. DO NOT tamper with, or attempt to adjust, pressure switch or safety valve.**
- 3 Before moving or maintaining the compressor ensure that it is unplugged from the mains supply and that the tank pressure has been vented.
- 3 Only use recommended attachments and parts. To use non-recommended items may be dangerous and will invalidate your warranty.
- 3 Read the instructions regarding any accessory used with the compressor. Ensure the safe working pressure of any air appliance used exceeds the compressor output pressure. If using a spray gun, check that the area selected for spraying is provided with air change system/ventilation.
- 3 Ensure the air supply valve is turned off before disconnecting the air supply hose.
- 3 Use the compressor in a well ventilated area and ensure it is placed on a firm surface.
- 3 Keep tools and other items away from the compressor when it is in use and keep area clean and clear of unnecessary items.
- 3 Ensure the air hose is not tangled, twisted or pinched.
- 3 Keep children and unauthorised persons away from the work area.
- 7 **DO NOT** dis-assemble compressor for any reason. The unit must be checked by qualified personnel only.
- 7 **DO NOT** use the compressor outdoors, or in damp, or wet, locations and **DO NOT** operate within the vicinity of flammable liquids, gases or solids.
- 7 **DO NOT** touch compressor cylinder, cylinder head or pipe from head to tank as these may be hot and will remain so for some time after shutdown.
- 7 **DO NOT** attempt to move the compressor by pulling the air tool hose.
- 7 **DO NOT** use the compressor for a task for which it is not designed.
- 7 **DO NOT** deface the certification plate attached to the end of the compressor tank.

- 7 **DO NOT** cover the compressor or restrict air flow around the machine whilst operating.
- s **DANGER! DO NOT direct the air hose towards people or animals.**
- 7 **DO NOT** operate the compressor without an inlet air filter (see fig.1.A).
- 7 **DO NOT** allow anyone to operate the compressor unless they have received full instructions.
- p **WARNING! The air tank is a pressure vessel and the following safety measures apply:**
DO NOT tamper with the safety valve, DO NOT modify or alter the tank in any way and DO NOT strap anything to the tank. DO NOT subject the tank to impact, vibration or to heat and DO NOT allow contact with abrasives or corrosives. DO drain condensation from tank daily, inspect inside walls for corrosion every three months and have a detailed tank inspection carried out annually.
The tank shell must not fall below the certified thickness at any point.
- p **WARNING! If an electrical fuse blows, ensure it is replaced with an identical fuse type and rating (See para. 1.1.11).**
- 3 When not in use, store the compressor in a safe, dry, childproof location.

2. INTRODUCTION & SPECIFICATIONS

The SA1015/3 and SA1020/3 Compressors have twin cylinder pumps belt driven by 230V 1ph motors and are capable of supplying air at up to 10 bar. In addition to pneumatic tools, the compressors are suitable for running accessories for blowing, washing, spraying and tyre inflation.

2.1. Specifications

Model	Max Motor Output (hp)	Voltage/Phase	Current (A)	Pump Type	Pump Speed (rpm)	Piston Displacement (cfm)	Free Air Delivery (cfm)			Tank Capacity (l)	Max. Pressure (psi/bar)	Noise Level (dB.A)
							Max.	At 2.5 Bar*	At 6.0 Bar*			
SA1015/3	3	230/1	13	K9	1800	14	10.6	10.2	9.9	150	145/10	79
SA1020/3	3	230/1	13	K9	1800	14	10.6	10.2	9.9	200	145/10	79

* Note: 2.5 bar is recommended pressure setting for spraying.
6.0 bar is recommended pressure setting for air tools.

All performance figures are ± 5%

2.2. Weights & Dimensions

Model	Weight (kg)	Dimensions Length x Width x Height (mm)
SA1015/3	79	1280 x 420 x 830
SA1020/3	91	1420 x 420 x 1000

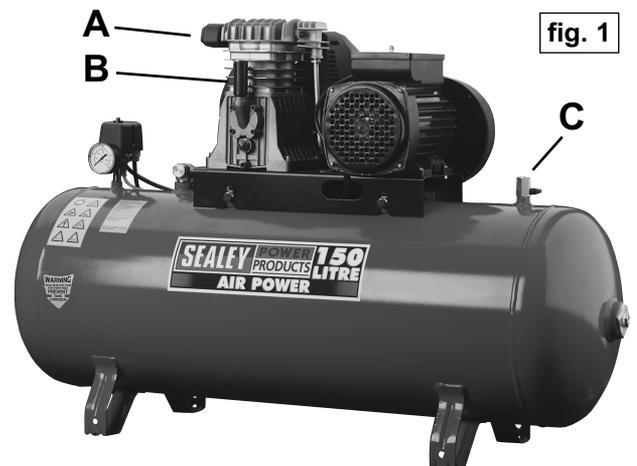


fig. 1

3. PREPARATION

- 3.1. Remove compressor from packaging and inspect. If anything is found to be missing or damaged contact your supplier.
- 3.2. Save the packing material for future transportation of the compressor. We recommend that you store the packing in a safe location, at least for the period of the guarantee. Then, if necessary, it will be easier to send the compressor to the service centre.
- 3.3. Confirm that the voltage shown on compressor data plate corresponds with the supply voltage.
- 3.4. The compressor should be operated on a flat surface, or one that does not exceed 15° either transversely or longitudinally (fig.2), and should be in a position that allows good air circulation around the unit.
- 3.5. Confirm that the air filter (fig.1.A) is fitted to the inlet port of the cylinder head and that the breather (fig.1.B) is fitted to oil filler port.
- 3.6. Confirm that the oil level is at the maximum mark on the sight glass (fig.3).

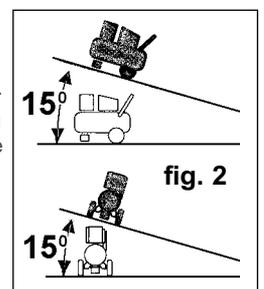


fig. 2

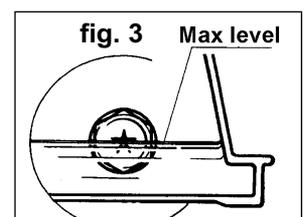


fig. 3 Max level

4. OPERATION

IMPORTANT

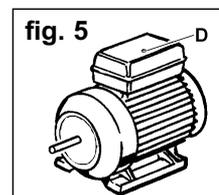
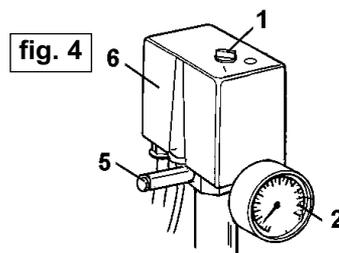
- a. The motor on this compressor is 3HP/230V and at normal mains voltage will start within the capacity of a 13 amp fused circuit. Certain local conditions relating to electrical supply in the UK can result in the voltage varying between a low of 216 volts and a high of 253 volts. At such times of fluctuating voltage the 13 amp fuse in the compressor plug may blow. This is normal and is not a fault with the compressor. However if it happens regularly we recommend that you consult an electrician with a view to installing a 30 amp supply, with contact breaker, to avoid the inconvenience of frequent fuse replacement.

WARNING! An extension lead **MUST NOT** be used to connect compressor to the mains as the resulting voltage drop would reduce motor output and pump performance, causing the 13 amp fuse to blow.

- b. Take care when selecting tools for use with the compressor. Air tool manufacturers normally express the volume of air required to operate a tool in cubic feet per minute (cfm). This refers to free air delivered by the compressor ('air out') which varies according to the pressure. Do not confuse this with the compressor displacement which is the air taken in by the compressor ('air in'). 'Air out' is always less than 'air in' - due to losses within the compressor - and so it is important that, before choosing equipment, you study the 'Free Air Delivery' figures shown in the Specification chart, Section 2.

WARNING! Ensure that you read, understand and apply Section 1 safety instructions.

- 4.1. Make sure the main switch (fig.4.1) is in position "O" (Off).
- 4.2. Plug the lead into mains supply and start the compressor by turning the main switch to "I" (On).
- 4.3. When starting the compressor for the first time, leave it running with air outlet (fig.1.C) closed. Make sure that the pressure in the tank rises and that the compressor stops automatically when the max. pressure value allowed - written on the plate and shown on the gauge (fig.4.2) - is achieved. The compressor will now operate automatically. The pressure switch stops the motor when the maximum tank pressure is reached and restarts it when pressure falls below the minimum threshold - approx. 2 bar (29psi) less than the maximum pressure.
- 4.4. Stop the compressor by turning the main switch (fig.4.1) off. The compressed air inside the compressor head will flow out, making the restart easier and preventing the motor from being damaged. **DO NOT**, other than in an emergency, stop the compressor by switching off the mains socket, or by pulling the plug out, as the pressure relief will not then occur and motor damage may result upon restart. When the compressor runs correctly and is stopped correctly there will be:
- a whistle of compressed air when the motor stops,
 - a protracted whistle (about 20-25 seconds) when the compressor starts with no pressure in the tank.
- 4.5. The compressor is equipped with an overload cut-out to protect the motor. The manual reset (fig.5.D) should not be operated until 3 minutes after cut-out, to allow the motor to cool. To restart, turn main switch off, reset 'D' and then turn main switch on. If, after restarting, the compressor again automatically cuts out turn off at the main switch and contact Service Agent.



Note: a) If the motor does not cut in and out, but runs continuously when using an air appliance, the capacity of the compressor may be too small for the equipment or tool.

b) The gauge (fig.4.2) indicates the pressure inside the main tank, **NOT** the pressure supplied to the air equipment. Should the pressure in the tank exceed the pre-set switch (fig.4.6) maximum, a safety valve (fig.4.5) will activate.

WARNING! For this reason **DO NOT** tamper with or adjust the switch or safety valve.

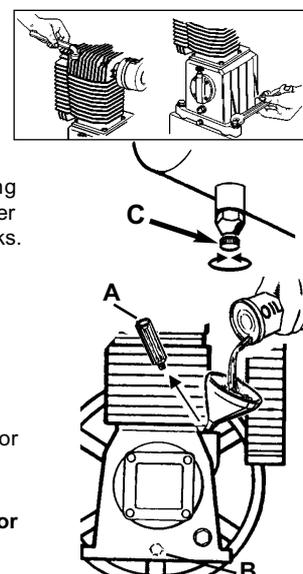
5. MAINTENANCE

In order to keep the compressor in good working condition, periodic maintenance is essential.

IMPORTANT! Failure to carry out maintenance tasks may invalidate the warranty on your compressor.

WARNING! Before performing any maintenance operation, switch off compressor, disconnect from power supply and vent air from tank.

- 5.1. **After the first 50 working hours.** Operations to be carried out:
- Check that all bolts/nuts are tight, particularly those retaining the crank case and cylinder head.
 - Replace the lubricating oil - see para 5.6.
- 5.2. **Daily.** Operation to be carried out :
- Drain condensation by opening the valve 'C' located under the tank.
- 5.3. **Monthly (or more frequently, if the compressor operates in a very dusty atmosphere):**
- Check oil level and, if necessary, top up.
 - Remove the air filter element and clean by blowing through, with an air line at low pressure, from the clean side. Do not operate compressor without a filter as foreign bodies or dust could damage the pump.
 - Check belt tension.
 - Check for oil leaks.
- 5.4. **3-Monthly.** Operation to be carried out a) Check tank for internal corrosion.
- 5.5. **Every 500 hours.** Operations to be carried out :
- Change air filter element.
 - Check the automatic cut-out at max. pressure and the automatic cut-in at 2 bar below.
- 5.6. **Every 1000 hours.** Operations to be carried out :
- Replace the lubricating oil. For oil specifications see 5.8.
Remove the oil breather 'A' and screw 'B', draining the oil into a container. Drain when the compressor is hot so that oil drains rapidly and completely. Wash breather in kerosene, fuel oil or similar. Replace screw 'B' and refill through the filler aperture. Do not over-fill. Replace breather.



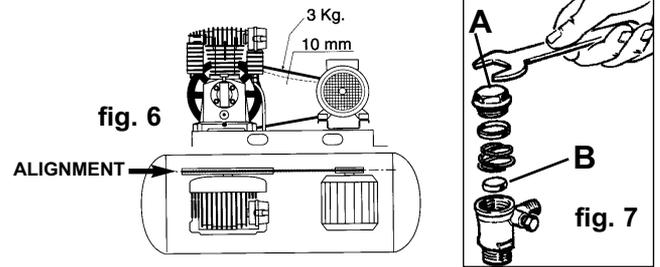
WARNING! Never mix different oils and do not use non-detergent/low quality oils as compressor may be damaged.

WARNING! Dispose of waste oil only in accordance with local authority requirements.

- b) Check belt tension. A force of 3kg applied at the belt mid-point should give a deflection of approx. 10mm (fig.6). If adjustment is required remember to maintain the alignment of the two pulleys (fig.6). Adjust by repositioning motor.
- c) Check all tube fittings and electrical connections.
- d) Inspect pressure tank inside and out for damage or corrosion.

5.7. Scheduled maintenance table

Maintenance Operations	Weekly	Monthly	3 Monthly	500 hrs.	1000 hrs.
Drain condensation	●				
Check oil level		●			
Clean intake filter		●			
Check belt tension		●			
Check for oil leaks		●			
Check tank for internal corrosion			●		
Replace air filter				●	
General cleaning of compressor				●	
Internal & external inspection of tank					●
Replace oil					●
Check tube fittings and electrical connections					●
Check condition of belt and pulleys					●



5.8. Recommended oils

Recommended oil for compressors, suitable for room temperatures ranging from +5°C to +25°C:
SEALEY CPO or equivalent SAE 40 compressor oil.

Room temperatures below +5°C:
SAE 20 compressor oil.
Approximate oil capacity: 0.45 litres.

6. TROUBLE SHOOTING

Fault	Cause	Remedy
Pressure drop in the tank	Air leaks at connections	Run compressor to max. pressure, switch off. Brush soap solution over connections and look for bubbles. Tighten connections showing leaks. If problem persists contact Authorised Service Agent.
Pressure switch valve leaks when compressor is idle	Non-return valve seal defective	Empty the air tank, remove the non-return valve cap 'A' (fig.7) and clean and, if necessary, replace the seal 'B'.
Compressor stops and does not restart	Overload cut-out operated - motor overheating	Press the button 'D' to restart (fig.5).
Compressor stops and does not restart	Motor failure	Contact Authorised Service Agent.
Compressor does not stop at max. pressure	Pressure switch fault	Contact Authorised Service Agent.
Compressor does not reach max. pressure	Filter clogged Head gasket or valve fault	Replace filter element. Contact Authorised Service Agent.
Compressor speed fluctuates	Belt slipping	Adjust belt. See para. 5.6.b.
Compressor noisy with metallic knock	Bearing or piston damage	Contact Authorised Service Agent.

Declaration of Conformity We, the sole UK importer, declare that the products listed below are in conformity with the following standards and directives.

BELT DRIVEN COMPRESSORS

Models: SA1015/3 & SA1020/3

87/404/EEC Pressure Vessel Directive
89/336/EEC EMC Directive
73/23/EEC LV Directive
98/37/EC Machinery Directive

 The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman



6th June 2001

For Jack Sealey Ltd. Sole UK importer of Sealey Power Products.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this equipment

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor,
Sealey Group,
Bury St. Edmunds, Suffolk.

 01284 757500

 01284 703534

E-mail: sales@sealey.co.uk