

Issue: 2
 Date Issued: 230605

Item	Part No.	Description	Item	Part No.	Description
1	SA43/01	Nut, disc	19	SA43/19	Bearing spacer
2	SA43/02	Wheel, disc	20	SA43/20	Rotor
3	SA43/03	Screw	21	SA43/21	Rotor blade
4	SA43/04	Washer, spring	22	SA43/22	Cylinder
5	SA43/05	Disc cover	23	SA43/23	Steel ball
6	SA43/06	Gearshaft	24	SA43/24	Rear plate
7	SA43/07	Ball, steel 3.4mm	25	SA43/25	Housing
8	B/6202ZZ	Bearing	26	SA43/26	Air inlet
9	SA43/09	Bevel Gear	27	SA43/27	Screw
10	SA43/10	Retaining ring	28	SA43/28	Spring
11	B/608ZZ	Bearing	29	SA43/29	Valve stem bushing
12	SA43/12	Spacer	30	SA43/30	Valve stem
13	SA43/13	Angle housing (No handle mounting)	31	SA43/31	Lever
13A	SA43/13A	Angle housing (With handle mounting)	32	SA43/32	Spring pin
14	SA43/14	Screw	33	SA43/33	Stop spanner
15	SA43/15	Screw	34	SA43/34	Disc spanner
16	SA43/16	Packing	35	SA43/35	Handle
17	SA43/17	Pinion gear	PTC/BP3		Backing pad
18	SA43/18	Front plate	PTC/100G		Grinding disc

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.

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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 THIS 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

- WARNING!** Ensure that Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
- WARNING!** Disconnect from air supply before changing accessories or servicing.
- ✓ Maintain the grinder in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Use in a suitable work area. Keep area free from unrelated materials and ensure that there is adequate lighting.
- ✓ Before each use check abrasive disc for condition. If worn or damaged replace immediately.
- ✓ Ensure that the speed rating (rpm) of the disc is the same as, or greater than, the speed rating of the grinder.
- ✓ Ensure that there are no flammable or combustible materials near the work area.
- WARNING!** Always wear approved eye (or face) and hand protection when operating the grinder.
- ✓ Use face, dust, or respiratory protection in accordance with COSHH regulations.
- ✓ Depending on the task, grinder noise level may exceed 85dB in which case wear safety ear defenders.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain and/or tie back long hair.
- ✓ Wear appropriate protective clothing and keep hands and body clear of working parts.
- ✓ Maintain correct balance and footing. Ensure that the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Check moving parts alignment on a regular basis.
- ✓ Ensure that the workpiece is secure before operating the grinder. Never hold a workpiece by hand.
- ✓ Check the workpiece to ensure there are no protruding screws, bolts, nuts etc.
- ✓ Avoid unintentional starting.
- WARNING!** Ensure correct air pressure is maintained and not exceeded. Recommended pressure 70-90psi
- ✓ Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use and ensure that all connections are secure.
- ✓ Prolonged exposure to vibration from this grinder poses a health risk. It is the owner's responsibility to correctly assess the potential hazard and issue guidelines for safe periods of use and offer suitable protective equipment.
- x **DO NOT** use the grinder for a task it is not designed to perform.
- x **DO NOT** operate grinder if any parts are damaged or missing as this may cause failure and/or personal injury.
- WARNING!** DO NOT grind any materials containing asbestos.
- x **DO NOT** carry the grinder by the hose, or yank the hose from the air supply.
- x **DO NOT** force, or apply heavy pressure to, the grinder, let the tool do the work.
- x **DO NOT** place air line attachments close to your face and do not point them at other people or animals.
- x **DO NOT** operate grinder when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- x **DO NOT** use the grinder where there are flammable liquids, solids or gases, such as paint solvents and including waste wiping or cleaning rags etc.
- x **DO NOT** carry the grinder with your finger on the power lever.
- x **DO NOT** direct air from the air line at yourself or others.
- ✓ When not in use disconnect from air supply and store in a safe, dry, childproof location.

DANGER OF FIRE/EXPLOSION HAZARD

- WARNING!** The grinding process can produce streams of sparks which are a potential source of ignition especially when grinding metal.
- x **DO NOT** use the grinder where there are flammable liquids, solids or gases.
- x **DO NOT** allow grinder sparks to make contact with the operator's clothing or any other fabric such as cleaning rags. Fabrics contaminated with inflammable materials such as petrol, oil, grease, paint and solvents are a particular fire hazard.
- ✓ To reduce the risk of clothing catching fire the operator should wear wool or cotton outer garments treated with a fire retardant in preference to man-made fibres.

1.2. LEAD PAINT WARNING!

Paint once contained lead as a traditional ingredient. Contact with the dust from the removal of such paint is toxic and must therefore be avoided. The following action must be taken before using the grinder on a surface that you suspect may contain lead paint.

1. User must determine potential hazard relating to age of paint to be removed (modern paints do not have lead content).
2. **DANGER!** Keep all people and pets away from the working area. The following are particularly vulnerable to the effects of lead paint dust: *Pregnant women, babies and children.*
3. We recommend personal protection by using the following safety items:
 - a) Paint Spray Respirator (Our ref SSP16EN)
 - b) PE Coated Hooded Coverall (Our ref SSP266).
 - c) Latex Gloves (Our ref SSP24).
4. Take adequate measures to contain the paint dust, flakes and scrapings.
5. Continue to wear safety equipment as in (3) above and thoroughly clean all areas when work is complete. Ensure that paint waste is disposed of in sealed bags or containers according to local regulations.

Risk of Hand Arm Vibration Injury

Heavy Duty Angle Grinder Model No. SA43 when operated in accordance with these instructions and tested in accordance with EN 28662-2: 1994 results in the following vibration emission declared in accordance with BS EN12096: 1996.

Measured vibration emission value:1.4m/s²

Uncertainty:0.6m/s²

These values are suitable for comparison with emission levels of other tools that have been subject to the same test.

This tool may cause hand-arm vibration syndrome if its use is inadequately managed.

Recommended Measures to reduce risk of hand-arm vibration syndrome:

This item represents a low Hand Arm Vibration risk to users. The calculated maximum usage period exceeds 8 hours. We recommend appropriate safety equipment is utilised and regular breaks for the operator are employed to reduce any residual risk of fatigue or repetitive strain injury.

2. INTRODUCTION & SPECIFICATION

The SA43 is a well balanced multi-purpose tool suitable for general workshop use. It has an aluminium body and bevel gear housing with steel disc guard and is supplied with grinding disk, locking and pin spanners and safety instructions.

Disc Diameter100mm
Free Speed12000rpm
Operating Pressure90psi
Air Consumption5cfm

Air Inlet1/4" BSP
Weight1.5kg
Grinding Disc Part No.PTC/100G
Backing Disc Part No.PTC/BP3

3. PREPARING GRINDER FOR USE

3.1. Air Supply

- 3.1.1. Ensure that the grinder air valve (or throttle) is in the "off" position before connecting to the air supply.
- 3.1.2. You will require an air pressure between 70-90psi, and an air flow according to the specification above.
- 3.1.3. **WARNING!** Ensure the air supply is clean and does not exceed 90 psi while operating the grinder. Too high an air pressure and/or unclean air will cause excessive wear, and may be dangerous, causing damage and/or personal injury.
- 3.1.4. Drain the air tank daily. Water in the air line will damage the grinder and invalidate your warranty.
- 3.1.5. Clean air inlet filter weekly. Recommended hook-up is shown in fig 1.
- 3.1.6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.
- 3.1.7. Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.

3.2. Couplings

Vibration may cause failure if a quick change coupling is connected directly to the grinder. To prevent this, connect a leader hose - Sealey model number AH2R or AH2R/38 - to the grinder. A quick change coupling may then be used to connect the leader hose to the air line recoil hose. See figs. 1 & 2 on next page.

fig. 1

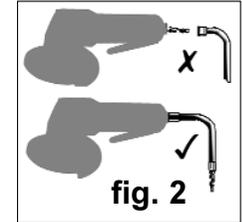
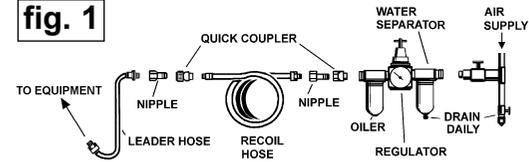


fig. 2

4. OPERATING INSTRUCTIONS

- WARNING!** Ensure that you read, understand and apply the safety instructions before use.

4.1. Assembly

- 4.1.1. The SA43 comes with a handle and two spanners.
 - 4.1.2. The handle screws into the left-hand side of the head.
 - 4.1.3. Remove the disc locking flange nut from the grinder spindle. Use the spanners supplied to hold the spindle and loosen/tighten the lock nut.
 - 4.1.4. Fit the grinding disc over the spindle (with the protruding side downwards) and retain it with the flange nut. Use only discs with speed ratings equal to, or higher than, the speed rating of the grinder.
 - 4.1.5. Connect air supply to grinder and squeeze the control valve lever to check that the grinder is working correctly.
- ### 4.2. Operating
- DO NOT** apply excessive pressure, let the grinder do the work for you. Start the grinder and bring the disc to the work surface evenly and slowly. Move the grinder back and forth in overlapping areas. Remove the grinding disc from the work surface before stopping the grinder. Regularly check the condition of the disc and always change if worn, cracked or otherwise damaged. **DO NOT** run the grinder off the workpiece for extended periods as this will shorten the life of the bearings.



5. MAINTENANCE

- WARNING!** Disconnect the grinder from air supply before changing the disc, servicing or performing maintenance. Replace or repair damaged parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- 5.1. Lubricate the grinder daily with a few drops of good grade air tool oil, such as Sealey ATO/500 or ATO/1000, dripped into the air inlet before use or dispensed automatically through an air system oiler, such as Sealey model SA100L or SA2001/L.
 - 5.2. Clean the grinder after use and change the disc when worn or damaged.
 - 5.3. Loss of power or erratic action may be due to the following:
 - a) Excessive drain on the air supply. Moisture or restriction in the air line. Incorrect size or type of hose connectors. To remedy check the air supply and follow instructions in Section 3.
 - b) Grit or gum deposits in the grinder may also reduce performance. Flush the grinder with gum solvent oil or an equal mixture of SAE No 10 oil and kerosene. Allow to dry before use. If you continue to experience problems, contact your local Sealey service agent.
 - 5.4. When not in use, disconnect from air supply, clean grinder and store in a safe, dry, childproof location.

Declaration of Conformity



We, the sole importer into the UK, declare that the product listed here is in conformity with the following standards and directives. The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

100mm Heavy Duty Angle Grinder
Model: SA43

98/37/EC Machinery Directive
93/68/EEC Marking Directive

Signed by Mark Sweetnam

25th February 2005

For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Tools.