



INSTRUCTIONS FOR: **AIR DIE GRINDER (G3)** MODEL No: **GSA67, GSA671**

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

- ✓ Follow all workshop Health & Safety rules, regulations, and conditions when using tool.
- ☐ **WARNING!** Disconnect from air supply before changing grinding bit or servicing.
- ✓ Maintain die grinder in good condition and replace any damaged or worn parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ☐ **WARNING!** Check correct air pressure is maintained and not exceeded. We recommend 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.
- ☐ **WARNING!** Before each use check grinding bit is secure, and the bit is not worn or damaged. If damaged, replace immediately.
- ✓ Ensure replacement grinding bits are not damaged (cracks, deformations or splinters etc).
- ✓ Always use the correct grinding bit suitable for the material being ground. Ensure the maximum speed specification of the bit is higher than that indicated on the machine data plate.
- ☐ **WARNING!** Always wear approved eye or face protection when operating the die grinder.
- ✓ Use breathing protection in accordance with COSHH regulations if fumes or dust pose a hazard.
- ✓ Wear ear defenders and safety gloves.
- ✓ Keep hands and body clear of the workpiece when operating the die grinder.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Secure unstable workpiece with a clamp, vice or other adequate holding device.
- ✓ Keep children and non essential persons away from the working area.
- ✓ Avoid subjecting grinding bit to excessive strain, always ease grinding bit against workpiece (a harsh impact may break the bit). Maintain a controlled adequate progression.
- X DO NOT get the die grinder wet or use in damp or wet locations.
- X DO NOT hold the workpiece by hand. Use clamps or a vice to secure the workpiece.
- X DO NOT use the die grinder for a task it is not designed to perform.
- ☐ **WARNING!** DO NOT use die grinder if damaged or faulty. Contact your local service agent.
- X DO NOT use die grinder unless you have been instructed in its use by a qualified person.
- X DO NOT carry the die grinder by the air hose, or yank the hose from the air supply.
- X DO NOT direct air from the air hose at yourself or others.
- ☐ **WARNING!** DO NOT grind any materials containing asbestos.
- X DO NOT turn the die grinder on whilst the grinding bit is in contact with the workpiece.
- X DO NOT use die grinder where there are flammable liquids, solids or gases such as paint solvents, including waste wiping or cleaning rags etc as generated sparks may be dangerous.
- X DO NOT touch the workpiece close to the ground surface as it will be very hot. Allow to cool. The workpiece may also be very sharp.
- X DO NOT operate die grinder if you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ 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 clothing or other fabric such as cleaning rags. Fabrics contaminated with flammable materials such as petrol, oil, 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.

2. INTRODUCTION & SPECIFICATIONS

Powerful, Third Generation die grinder. Contoured handle insulates user from chill and vibration. Directional, low noise air exhaust can be rotated 360° giving operator added protection. Includes 4-position air valve and throttle safety device. The GSA67 kit and GSA671 are supplied with chuck wrenches. In addition the GSA67 kit is supplied with a set of 10 x Ø6mm grinding points and carry-case.

MODEL..... GSA67 ... GSA671
 Collet: Ø6mm Ø6mm
 Free Speed: 25,000rpm ..25,000rpm
 Air Consumption: 3cfm 3cfm
 Operating Pressure: 90psi 90psi
 Air Inlet: 1/4"BSP ... 1/4"BSP

MODEL..... GSA67 ... GSA671
 Kit Weight: 1.1kg 0.4kg
 Vibration Level: 2.37m/s² ... 2.37m/s²
 Uncertainty Value: 0.44m/s² ... 0.44m/s²
 Noise power: 99.41dB(A) .99.41dB(A)
 Noise pressure: 88.41dB(A) .88.41dB(A)
 Ø6mm Shankd Stones: 10

3. PREPARING TOOL FOR USE

3.1 Air Supply

☐ **WARNING!** Ensure the air supply is clean and does not exceed 90 psi while operating the die grinder. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury. Recommended hook-up procedure is shown in fig 1.

3.1.1 Ensure die grinder air valve (or trigger) is in "off" position before connecting to the air supply.

3.1.2 You will require an air pressure of 90psi, and an air flow according to specification.

3.1.3 Drain the air tank daily. Water in the air line will damage the die grinder.

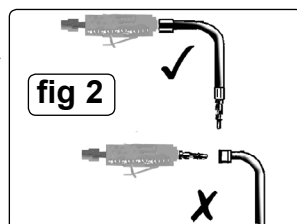
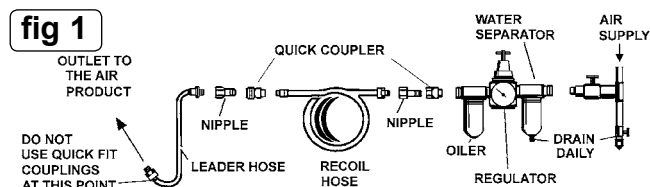
3.1.4 Clean air inlet filter weekly.

3.1.5 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.

3.1.6 Keep hose away from heat, oil and sharp edges. Check hose 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 die grinder. To overcome this, connect a leader hose 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.



4. OPERATING INSTRUCTIONS

4.1 OPERATING

☐ **WARNING!** Ensure you read, understand and apply safety instructions.

4.1.1 Connect the die grinder to the air supply.

4.1.2 To start, hold firmly and push the trigger locking lever forward whilst depressing trigger.

4.1.3 The bit must be running at its maximum speed before attempting to grind the workpiece.

4.1.4 Slowly and smoothly bring the grinding stone toward the workpiece (avoid jerky movements).

Avoid subjecting stone to excessive strain or harsh impacts.

Always hold die grinder firmly and ease grinding stone against workpiece. Maintain a controlled progression.

4.2 CHANGING GRINDING STONES

☐ **WARNING!** Disconnect from the air supply before changing grinding stone.

4.2.1 Check that grinding stones are not damaged in any way such as cracks, deformations or splinters etc. Damaged stones must not be used.

4.2.2 Use wrenches provided to loosen collet locking collar. Insert grinding bit and re-lock collar.

X DO NOT allow die grinder to free run for an extended period of time as this will shorten bearing life.

5. MAINTENANCE

☐ **WARNING!** Disconnect die grinder from air supply before changing accessories, 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 If air supply does not have an oiler, lubricate the air tool daily with a few drops of Sealey air tool oil dripped into the air inlet to prolong its life.

5.2 Clean the die grinder after use.

5.3 Loss of power or erratic action may be due to the following:

a) Excessive drain on the air line. Moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy check the air supply and follow instructions in chapter 3.

b) Grit or gum deposits in the die grinder may also reduce performance. If your model has an air strainer (located in the area of the air inlet), remove the strainer and clean it.

Flush the die grinder out with gum solvent oil or an equal mixture of SAE No 10 oil and paraffin. Allow to dry before use.

5.4 For a full service contact your local Sealey service agent.

5.5 When not in use, disconnect from air supply, clean die grinder and store in a safe, dry, childproof location.

6. PARTS LISTS

GRINDING STONES:

SA67W/01 MOUNTED WHEEL (6mm x 27mm)

SA67W/02 MOUNTED WHEEL (16mm)

SA67W/03 MOUNTED WHEEL (19mm x 16mm)

SA67W/04 MOUNTED WHEEL (25mm x 10mm)

SA67W/05 MOUNTED WHEEL (19mm x 28mm)

SA67W/06 MOUNTED WHEEL (19mm x 19mm)

SA67W/07 MOUNTED WHEEL (25mm)

SA67W/08 MOUNTED WHEEL (18mm x 32mm)

SA67W/09 MOUNTED WHEEL (25mm x 25mm)

SA67W/10 MOUNTED WHEEL (32mm x 32mm)

WARNING! – Risk of Hand Arm Vibration Injury.

This tool may cause Hand Arm Vibration Syndrome if its use is not managed adequately.

This tool is to be operated in accordance with these instructions.

Measured vibration emission value (a): 2.37m/s²

Uncertainty value (k): 0.44m/s²

Please note that the application of the tool to a sole specialist task may produce a different average vibration emission.

We recommend that a specific evaluation of the vibration emission is conducted prior to commencing with a specialist task.

A health and safety assessment by the user (or employer) will need to be carried out to determine the suitable duration of use for each tool.

NB: Stated Vibration Emission values are type-test values and are intended to be typical.

Whilst in use, the actual value will vary considerably from and depend on many factors.

Such factors include; the operator, the task and the inserted tool or consumable.

NB: ensure that the length of leader hoses is sufficient to allow unrestricted use, as this also helps to reduce vibration.

The state of maintenance of the tool itself is also an important factor, a poorly maintained tool will also increase the risk of Hand Arm Vibration Syndrome.

PREPARING FOR USE.

Air Supply.

WARNING!

Ensure the air supply is clean and does not exceed 90psi while operating the tool.

Too high an air pressure and unclean air will shorten the product life due to excessive wear and may cause damage and/or personal injury.

Ensure that the tool air valve (or trigger) is in the “off” position before connecting to the air supply.

Monitor the compressor daily to ensure that moisture is not present in the compressed air. Water in the air line will damage the tool.

Line pressure should be increased to compensate for unusually long air hoses (over 8metres).

The minimum hose diameter should be ½” internal diameter. Fittings must have compatible inside dimensions.

Keep hoses away from heat, oil and sharp edges. Check hoses for wear and ensure that all connections are secure.

Couplings.

Vibration may cause failure if a quick change coupling is connected directly to the tool.

To overcome this, connect a leader hose to the tool (Sealey ref: AH2R or AH2R/38).

A quick change coupling may then be used to connect the leader hose to the air line recoil hose.

CORRECT USE.

Vibration emission is closely linked to the operating pressure in the air supply. The user should ensure that the pressure is set in accordance with our recommendations to assure optimum efficiency and minimise vibration exposure.

- Ensure that the tool is correctly aligned to the work. Misalignment increases the risk of vibration injury.
- Ensure that consumables are selected, maintained and replaced in accordance with Sealey Instructions.
- Sleeve fittings must be used where possible.
- Always support the tool in a stand or on a balancer or a tension device where possible.
- Ensure that the operator is sufficiently experienced in order to be able to handle and operate the tool correctly.
- Ensure that the tool is held with a light but secure grip. Avoid excessive grip force as this will increase the risk of vibration injury.

MAINTENANCE.

If the air system does not have an oiler, lubricate the air tool daily with a few drops of Sealey air tool oil dripped into the air inlet.

Clean the tool after use.

DO NOT use worn or damaged grinding discs (if applicable).

Loss of power or erratic action may be due to the following:

Excessive drain on the air line. Moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy, check the air supply and follow instructions in the PREPARING FOR USE section.

Grit, residual deposits (gum) in the tool may also reduce performance.

Remove the strainer. Clean the strainer and flush the tool out with gum solvent oil or an equal mixture of SAE No: 10 oil and paraffin.

Allow the tool and strainer to dry then lubricate before use.

For a full service, contact your local Sealey service agent.

When not in use, disconnect the tool from the air supply, clean the tool and store the tool in a safe, childproof, location.

Health surveillance.

We recommend a programme of health surveillance to detect early symptoms of vibration injury so that management procedures can be modified accordingly.

Personal protective equipment.

We are not aware of any personal protective equipment (PPE) that provides protection against vibration injury that may result from the uncontrolled use of this tool. We recommend a sufficient supply of clothing (including gloves) to enable the operator to remain warm and dry and maintain good blood circulation in fingers etc. Please note that the most effective protection is prevention, please refer to the Correct Use and Maintenance section in these instructions.

Guidance relating to the management of hand arm vibration can be found on the HSC website www.hse.gov.uk - Hand-Arm Vibration at Work.