

Item	Part No	Description	Item	Part No	Description	Original Date:	240700
1	SA77S01	HOUSING	24	SA77S24	O-RING	Issue Date:	240700
2	SA77S02	WORK SPINDLE	25	SA77S25	AIR INLET	Issue No:	1
3	SA77S03	WOOD RUFF KEY	26	SA77S26	O-RING	Date Modified:	220800
4	SA77S04	BEARING	27	SA77S27	VALVE STEM		
5	SA77S05	FRONT PLATE	28	SA77S28	SPRING		
6	SA77S06	ROTOR	29	SA77S29	O-RING		
7	SA77S07	ROTOR BLADE	30	SA77S30	SCREW CAP		
8	SA77S08	CYLINDER	31	SA77S31	BALANCER		
9	SA77S09	END PLATE	32	SA77S32	SCREW		
10	SA77S10	STEEL BALL	33	SA77S33	RETAINER PLATE		
11	SA77S11	SCREW	34	SA77S34	WASHER		
12	SA77S12	RETAINING RING	35	SA77S35	BEARING		
13	SA77S13	BUFLER	36	SA77S36	CAP		
14	SA77S14	END COVER	37	SA77S37	SCREW		
15	SA77S15	BUSHING	38	SA77S38	WASHER		
16	SA77S16	SUPPORT	39	SA77S39	BEARING		
17	SA77S17	TRIGGER	40	SA77S40	DRIVE SPINDLE		
18	SA77S18	SCREW	41	SA77S41	RETAINING RING		
20	SA77S20	SCREW	42	SA77S42	PAD		
21	SA77S21	AIR REGULATOR	43	SA77S43	RUBBER GRIP		
22	SA77S22	SPRING-BACK PLATE	44	SA77S44	O-RING		
23	SA77S23	AIR REGULATOR					

**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:** Call us for a copy of our latest catalogue and promotions on 01284 757525 and leave your full name and address including your postcode.

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 OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

## 1. SAFETY INSTRUCTIONS

- WARNING!** Ensure 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 sander in good condition (use an authorised service agent).
- Replace or repair damaged parts. Use genuine parts only. Non-authorised parts may be dangerous and will invalidate the warranty.
- Use in suitable clean and tidy working area, free from unrelated materials and ensure there is adequate lighting.
- Before each use check abrasive discs and backing pads for condition. If worn or damaged replace immediately.
- Ensure the backing pad rating is the same as, or greater than the RPM rating of the sander.
- Ensure there are no flammable or combustible materials near the work area.
- WARNING!** Always wear approved eye or face and hand protection when operating the sander.
- Use face, dust, or respiratory protection in accordance with COSHH regulations.
- Depending on the task, sander noise level may exceed 85dB in which case wear safety ear defenders.
- Remove ill fitting clothing. Remove ties, watches, rings, 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 the floor is not slippery and wear non-slip shoes.
- Keep children and unauthorised persons away from the working area.
- Check moving parts alignment on a regular basis.
- Ensure workpiece is secure before operating the sander. Never hold a workpiece by hand.
- Check the workpiece to ensure there are no protruding screws, bolts, nuts, nails, stones, 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 sander poses a health risk. It is the operator's responsibility to correctly assess the potential hazard and issue guidelines for safe periods of use and offer suitable protective equipment.
- DO NOT use the sander for a task it is not designed to perform.
- DO NOT operate sander if any parts are damaged or missing as this may cause failure and/or personal injury.
- WARNING!** DO NOT sand any materials containing asbestos.
- DO NOT carry the sander by the hose, or yank the hose from the air supply.
- DO NOT force, or apply heavy pressure to the sander, let the sander do the work.
- DO NOT place attachments close to your face and do not point at other persons or animals.
- DO NOT operate sander when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- DO NOT use sander where there is flammable liquids, solids or gases such as paint solvents and including waste wiping or cleaning rags etc.
- DO NOT carry the sander with your finger on the power lever.
- DO NOT direct air from the air hose at yourself or others.
- When not in use disconnect from air supply and store in a safe, dry, childproof location.

### 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 sander 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 persons and pets away from the working area. The following persons are particularly vulnerable to the effects of lead paint dust: *Expectant 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 task is complete. Ensure paint waste is disposed of in sealed bags or containers according to local regulations.

## 2. INTRODUCTION & SPECIFICATIONS

The SA77 has a light weight aluminium body with a smooth double bearing counter balance assembly for fatigue-free operation.

Pad size .....	.150mm	Air Inlet .....	1/4" BSP
Orbital stroke .....	.3/16"	Sound .....	.86dB (A)
Thread size .....	.5/16" UNF	.....	.88dB (C)
Free Speed .....	.10000rpm	Weight .....	.1.9kg
Operating Pressure .....	.90psi		
Air Consumption .....	.4cfm		

## 3. PREPARING SANDER FOR USE

### 3.1. Air Supply

- 3.1.1. Ensure the sander 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 sander. 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.
- 3.1.4. Drain the air tank daily. Water in the air line will damage the sander and will invalidate your warranty.
- 3.1.5. Clean air inlet filter weekly. Recommended hook-up procedure 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 air sander. To overcome this, connect a leader hose to the sander. A quick change coupling may then be used to connect the leader hose to the air line recoil hose. See fig 1 & 2.

fig 1

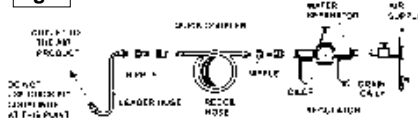
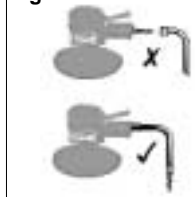


fig 2



## 4. OPERATING INSTRUCTIONS

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

### 4.1. Assembly.

- 4.1.1. Apply appropriate sanding disc to the backing pad. Use only pads with speed ratings equal to or higher than the speed rating of the sander. DO NOT use cloth backed sanding pads.

- 4.1.2. Connect air supply to sander and press the control valve lever and check that the sander is working correctly.

- 4.1.3. The air flow may be regulated by turning the control lever on the side of the handle.

### 4.2. Operating.

The sander is designed to provide a combined "rotary" and "random orbit" action.

Always use sanding disc with grit appropriate for the job. Work progressively from coarse grades to finer grades. DO NOT go from coarse to fine in one step as it may be difficult to remove swirl marks left by the coarser grit. DO NOT apply excessive pressure, let the sander do the work for you. Start the sander and bring the sanding disc to the work surface evenly and slowly. Move the sander back and forth in overlapping areas. Remove the sanding disc from the work surface before stopping the sander. Regularly check the sanding pad for wear, always changed a cracked or damaged pad.

DO NOT allow sander to run in "idle rotation" for an extended period of time as this will shorten life of the bearings.

## 5. MAINTENANCE

**WARNING!** Disconnect sander from air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts.

*Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.*

- 5.1. Lubricate the air sander daily with a few drops of good grade air sander oil such as Sealey AAT500 or ATO1000, dripped into the air inlet before use.

- 5.2. Clean the sander after use and change pads when required.

- 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 sander 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 sander out 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. For a full service contact your local Sealey service agent.

- 5.5. When not in use, disconnect from air supply, clean sander 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 EEC 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.

**Air Operated Orbital Sander**  
**Model: SA77**

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

Signed by Mark Sweetman

24th July 2000

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