# AIR PALM ORBITAL SANDERS

MODEL NO's: **SA800.V6 SA801.V6 SA803.V1**

**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 & 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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

Refer to instructions | Wear eye protection | Wear protective gloves | Wear a mask | Wear ear protection

## 1. SAFETY

❑ **WARNING!** Read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the sander. Failure to do so can result in serious bodily injury.
❑ **WARNING!** Only qualified and trained operators should install, adjust or use the sander. **DO NOT** modify this sander. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
× **DO NOT** discard the safety instructions; give them to the operator.
× **DO NOT** use a sander if the tool has been damaged.
✓ Tools shall be inspected periodically to verify that the ratings and markings required are legibly marked on the tool. The employer/user shall contact the manufacturer to obtain replacement marking labels when necessary.
❑ **WARNING!** The product shall not be operated at a speed exceeding the rated speed.
❑ **WARNING!** Ensure that Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
❑ **WARNING!** Disconnect from air supply and dust-free system (if applicable) before changing accessories, servicing or maintenance.
✓ Maintain the sander in good condition (use an authorised service agent).
✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
✓ Use the sander in a suitable work area. Keep area clean, tidy and free from unrelated materials. Ensure that there is adequate lighting.
✓ Before each use check abrasive pad for condition. If worn or damaged replace immediately.
✓ Ensure that there are no flammable or combustible materials near the work area.
❑ **WARNING!** Always wear approved eye or face protection when operating the sander.
✓ If dust is generated, 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 and loose jewellery. 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 work piece is correctly secured before operating the sander. Never hold a workpiece by hand.
✓ Check the work piece to ensure that there are no protruding nails, screws, stones, etc.
✓ Avoid unintentional starting.
❑ **WARNING!** Ensure that the correct air pressure is maintained and not exceeded.
✓ 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 these tools poses a health risk. It is the owner's responsibility to correctly assess the potential hazard, 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** cut, grind, saw or sand any materials containing asbestos.
× **DO NOT** carry the sander by the hose, or yank the hose from the air supply.
× **DO NOT** get the sander wet or use in damp or wet locations. These models are dry sanders only.
× **DO NOT** operate sander when you are tired or under the influence of alcohol, drugs or intoxicating medication.
× **DO NOT** use sander near flammable liquids, solids or gases, such as paint solvents and including waste wiping or cleaning rags etc.
× **DO NOT** leave the sander operating unattended.
× **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 dust-free system, (if applicable) and store in a safe, dry, childproof location.

**1.1. LEAD PAINT WARNING!**

**IMPORTANT!** Paint once contained lead as a traditional ingredient. Contact with the toxic dust from the removal of such paint must therefore be avoided. The following action must be taken before using the sander on a surface that you suspect may contain lead paint.
✓ User must determine potential hazard relating to age of paint to be removed (modern paints do not have lead content).
▲ **DANGER!** Keep all persons and pets away from the work area.
✓ The following are particularly vulnerable to the effects of lead paint dust: Pregnant women, babies and children.
✓ We recommend personal protection by using the following safety items:

**a)** Paint Spray Respirators.
**b)** PE Coated Hooded Coverall.
**c)** Latex Gloves.

✓ Take adequate measures to contain the paint dust, flakes and scrapings.
✓ Continue to wear safety equipment as in section 1.1.3 and thoroughly clean all areas when task is complete.
✓ Seal paint waste in bags or containers for disposal according to local regulations.
❑ **WARNING!** Never carry an air tool by the hose.
✓ Keep the product safe by regular preventative maintenance.

**1.2. AIR PRESSURE**

Air under pressure can cause severe injury:

✓ Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
✓ Never direct air at yourself or anyone else.
✓ Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
✓ Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whipcheck safety cables shall be used to safeguard against possible hose-to-tool or hose-to-hose connection failure.
× **DO NOT** exceed the maximum air pressure stated on the tool.

**1.3. HAZARDS**

✓ Be aware that failure of the workpiece or accessories, or even of the inserted tool itself can generate high-velocity projectiles.
✓ Always wear impact-resistant eye protection during operation of the sander. The grade of protection required should be assessed for each use.
✓ For overhead work, wear a safety helmet.
✓ The risks to others should also be assessed at this time.
✓ Ensure that the workpiece is securely fixed.

**1.4. ENTANGLEMENT**

✓ Choking, scalping and/or lacerations can occur if loose clothing, personal jewellery, neck wear, hair or gloves are not kept away from the tool and its accessories.

**1.5. OPERATIONAL**

✓ Use of the tool can expose the operator's hands to hazards, including cuts and abrasions and heat.
✓ Wear suitable gloves to protect hands.
✓ Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
✓ Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
✓ Maintain a balanced body position and secure footing.
✓ Release the start-and-stop device in the case of an interruption of the energy supply.
✓ Use only lubricants recommended by the manufacturer.
✓ Personal protective safety glasses shall be used; suitable gloves and protective clothing are recommended.
✓ Inspect the backing pad before each use. **DO NOT** use if cracked or broken or if it has been dropped.
✓ Avoid direct contact with the moving sanding pad in order to prevent pinching or cutting of hands or other body parts. Wear suitable gloves to protect hands.
✓ Never run the tool unless abrasive is applied to the workpiece.
✓ There is a risk of electrostatic discharge if used on plastic and other non-conductive materials.
✓ Potentially explosive atmospheres can be caused by dust and fumes resulting from sanding or grinding.
✓ Always use dust extraction or suppression systems which are suitable for the material being processed.
✓ Exposure to high noise levels can cause permanent, disabling hearing loss and other problems, such as tinnitus (ringing, buzzing, whistling or humming in the ears). Therefore, risk assessment and implementation of appropriate controls for these hazards are essential.
✓ Appropriate controls to reduce the risk can include actions such as damping materials to prevent workpieces from "ringing".
✓ Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
✓ Operate and maintain the sander as recommended in the instruction handbook, to prevent an unnecessary increase in the noise level.
✓ Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise.
✓ If the sander has a silencer, always ensure it is in place and in good working order when the tool is being operated.
✓ Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
✓ Wear warm clothing when working in cold conditions and keep your hands warm and dry. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the sander or polisher, tell your employer and consult a physician.
✓ Operate and maintain the sander or polisher as recommended in the instruction handbook, to prevent an unnecessary increase in vibration levels.
✓ Hold the tool with a light but safe grip, taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.

**1.6. REPETITIVE MOTION**

✓ When using a sander to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body while using a sander. The operator should adopt a comfortable posture whilst maintaining secure footing and avoiding awkward or off-balance postures. The operator should change posture during extended tasks; this can help avoid discomfort and fatigue. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell the employer and consult a qualified health professional.

**1.7. ACCESSORY**

✓ Disconnect the sander from the energy supply before fitting or changing the inserted tool or accessory.
✓ Avoid direct contact with the inserted tool during and after use, as it can be hot or sharp.
✓ Use only sizes and types of accessories and consumables that are recommended by the manufacturer of sanders; **DO NOT** use other types or sizes of accessories or consumables.
❑ **WARNING!** Grinding wheels and cutting-off tools shall not be used.
✓ Check that the maximum operating speed of the inserted tool is higher than the rated speed of the sander.
✓ Self-fixing sander discs shall be placed concentrically on the supporting pad.

**1.8. WORKPLACE**

1.8.1. Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by use of the tool and also of trip hazards caused by the air line. The sander is not intended for use in potentially explosive atmospheres and is not insulated against contact with electric power.

1.8.2. Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by use of the tool.

**1.9. DUST AND FUME**

1.9.1. Dust and fumes generated when using sanders can cause ill health (for example cancer, birth defects, asthma and/or dermatitis); risk assessment and implementation of appropriate controls for these hazards are essential.

1.9.2. Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.

1.9.3. Operate and maintain the sander as recommended in these instructions, to minimize dust or fume emissions.

1.9.4. Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.

1.9.5. Where dust or fumes are created, the priority shall be to control them at the point of emission.

1.9.6. All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.

1.9.7. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in dust or fumes.

1.9.8. Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.

## 2. INTRODUCTION

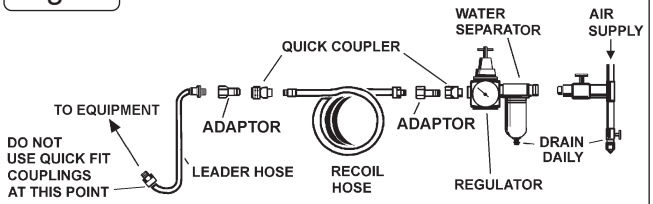
Polycarbonate outer housing with soft rubber handgrip reduces chill and vibration. Features adjustable air regulator for additional control and exhaust muffler to reduce noise emission. Model No. SA801 features dust-free outlet for use with centralised dust extraction systems. Model No. SA803 features a self-generated vacuum with hose and bag. All models supplied with hook-and-loop pad.

## 3. SPECIFICATION

| | SA800.V6 | SA801.V6 | SA803.V1 |
|---|---|---|---|
| Air Consumption: | 4cfm | 4cfm | 4cfm |
| Free Speed: | 11000rpm | 11000rpm | 11000rpm |
| Inlet Size: | 1/4"BSP | 1/4"BSP | 1/4"BSP |
| Nett Weight: | 1.03kg | 1.03kg | 1.03kg |
| Noise Power/Pressure: | 100/89dB(A) | 100/89dB(A) | 100/89dB(A) |
| Operating Pressure: | 91psi | 91psi | 91psi |
| Orbit Size: | Ø2.5mm | Ø2.5mm | Ø2.5mm |
| Pad Size: | Ø150mm | Ø150mm | Ø150mm |
| Thread Size: | 5/16"UNF | 5/16"UNF | 5/16"UNF |
| Vacuum Outlet: | N/A | Ø35mm | Ø35mm |
| Vibration/Uncertainty: | 1.8/0.9m/s² | 1.8/0.9m/s² | 1.8/0.9m/s² |
| Dimensions (mm) | 195x147x110 | 238x147x110 | 238x147x110 |


## 4. PREPARATION

fig.1



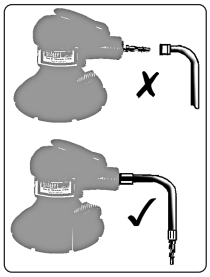




fig.2

**4.1. AIR SUPPLY**

4.1.1. Ensure the sander air valve (or throttle is in the "Off" position before connecting to the air supply.

4.1.2. You will require an air pressure and an air flow according to the specification above.

❑ **WARNING!** Ensure the air supply is clean and does not exceed 91psi while operating the sander.

4.1.3. Too high an air pressure and/or unclean air will shorten the product life due to excessive wear, and may be dangerous, causing damage and/or personal injury.

4.1.4. Drain the air tank daily. Water in the air line will damage the sander and will invalidate your warranty.

4.1.5. Clean air inlet filter weekly. Recommended hook-up procedure (fig.1).

4.1.6. The length of the air hose should not exceed 5m.

4.1.7. The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.

4.1.8. Keep hose away from heat, oil and sharp edges. Check hoses for wear and make certain that all connections are secure.

**4.2. COUPLINGS**

4.2.1. 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 (figs.1 & 2).

## 5. OPERATION

**For part numbers refer to attached Parts List**

❑ **WARNING!** Disconnect from the air supply before carrying out any of the adjustments below.

5.2.1. Before each use of tool make sure that the pneumatic system is not damaged. Damaged parts should be replaced before use.

5.2.2. Dry the pneumatic system before use.

**5.1. SELECT FOR USE WITH BAG OR EXTRACTION SYSTEM SA801.V6, SA803.V1 ONLY**

5.1.1. Fit dust collecting bag to the extraction port at the rear of the sander.

**5.2. FIT SANDING DISC**

5.2.1. Disc should be placed concentrically. It is recommended to attach the disc to the sanding sheet with holes cut out so that the holes in the disc match the holes in shield. This will increase the efficiency of removal of dust created during operation.
**IMPORTANT!** Before attachment of the sanding discs you should check it for damage, **DO NOT** use damaged sanding discs.

**5.3. OPERATION OF THE SANDER**

5.3.1. Press trigger fig.2 to start the sander and allow the disk to reach its full speed, before use.

5.3.2. Speed is adjustable using the regulator lever (fig.3).


fig.2

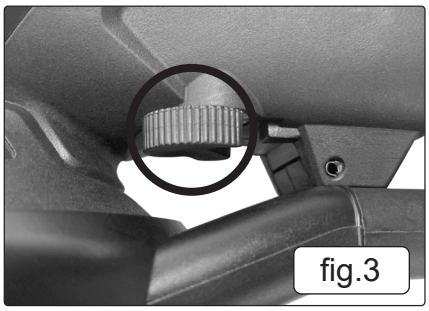


fig.3

## 6. MAINTENANCE

❑ **WARNING!** Disconnect sander 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.

6.3.1. If the air supply does not have an oiler, lubricate the air sander 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.

6.3.2. Clean the sander after use and change pads when required.

6.3.3. 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.
**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 problems continue, contact your local Sealey service agent. For a full service contact your local Sealey service agent.

6.3.4. When not in use, disconnect from air supply, clean sander and store in a safe, dry, childproof location.

6.3.5. Keep the product safe by regular preventative maintenance.

**6.1. FIT NEW PAD**

6.2. Push supplied spanner between pad and sander and turn pad until nut is held. Undo nut anticlockwise. Spin on new pad and tighten clockwise with spanner.

**6.3. STORAGE**

6.3.1. The equipment should ideally be stored in a purpose designed facility where it can be kept secure from unauthorised use.

**6.4. END OF SERVICE**

6.4.1. Through years of normal wear, the air palm orbital sander will eventually become unserviceable. When this happens ensure that it is disposed of in accordance with local authority regulations.

## 7. TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSES | POSSIBLE SOLUTIONS |
|---|---|---|
| Insufficient Torque | Not enough air pressure or airflow. | Check for loose connectors and make sure that air supply is providing enough air flow (CFM) at required pressure (PSI) to the tool's air inlet. **DO NOT** exceed maximum air pressure. |
| | Incorrect or insufficient lubricant. | Using air tool oil to lubricate according to directions. |
| | Abrasion of hammering mechanism. | Replace parts. |
| | Motor components wear. | Check and replace worn parts. |
| | Sundries mixed in the motor components. | Disassemble and remove impurities. |
| Low Speed | Not enough air pressure or airflow. | Check for loose connectors and make sure that air supply is providing enough air flow (CFM) at required pressure (PSI) to the tool's air inlet. **DO NOT** exceed maximum air pressure. |
| | Incorrect or insufficient lubrication. | Using air tool oil to lubricate according to directions. |
| | Blade wear. | Replace worn blade. |
| | Sundries mixed in the motor components. | Disassemble and remove impurities. |
| Air leak | Air inlet leak. | Replace the air inlet connector. |
| | Aging of sealing ring. | Replace sealing ring. |
| | Choke wear. | Replace the choke. |

## 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 subject to the vibration testing section of the Machinery Directive 2006/42/EC.
This tool is to be operated in accordance with these instructions.

Measured vibration emission value (a): .....1.8 m/s²
Uncertainty value (k): ..... 0.9m/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.*

**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 HSE website www.hse.gov.uk - Hand-Arm Vibration at Work.

**ENVIRONMENT PROTECTION**
Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

REGISTER YOUR PURCHASE HERE

**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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.
**IMPORTANT:** No Liability is accepted for incorrect use of this product.
**WARRANTY:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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