



# INSTRUCTIONS FOR: AIR FLUX CHIPPER/ NEEDLE SCALER

MODEL No: **SA52**

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 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 needle scaler 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.
- ✓ Only use needles which are specifically designed for use with a needle scaler.
- ✓ Wear approved safety eye/face shield, ear defenders, and hand protection.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and non essential persons away from the working area.
- X **DO NOT** use the needle scaler for a task it is not designed to perform.
- WARNING! DO NOT** use needle scaler if damaged or thought to be faulty. (Contact Sealey service agent).
- X **DO NOT** use needle scaler unless you have been instructed in its use by a qualified person.
- X **DO NOT** carry the needle scaler by the air hose, or yank the hose from the air supply.
- X **DO NOT** operate scaler if you are tired or under the influence of alcohol, drugs or intoxicating medication.
- X **DO NOT** carry scaler with your hand on the power trigger in order to avoid unintentional starting.
- X **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.

## 2. INTRODUCTION & SPECIFICATIONS

The SA52 is a straight type air hammer supplied with interchangeable needle and chisel heads. Suitable for cleaning heavy paint and rust scale from metal surfaces. Palm control trigger mechanism. Replaceable scaler needle set.

Stroke . . . . .	32mm
Free speed . . . . .	4800bpm
Air consumption . . . . .	3cfm
Noise Power . . . . .	104.82dB(A)
Noise Pressure . . . . .	93.83dB(A)
Operating pressure . . . . .	90psi
Air inlet size . . . . .	1/4" BSP
Vibration (No Load) . . . . .	8.56m/s <sup>2</sup>
Uncertainty . . . . .	1.34m/s <sup>2</sup>
Weight . . . . .	1kg



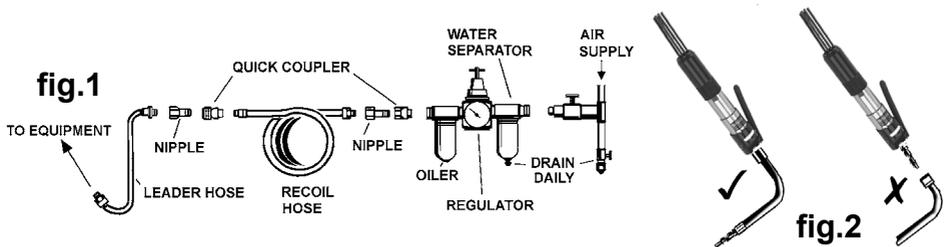
## 3. PREPARING TOOL FOR USE

### 3.1. Air Supply

- 3.1.1. Ensure tool valve (or trigger) is in the "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.  **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 be dangerous causing damage and/or personal injury.
- 3.1.4. Drain the air tank daily. Water in the air line will damage the tool.
- 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 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 tool. To overcome this, connect a leader hose to the tool. A quick change coupling may then be used to connect the leader hose to the air line recoil hose. See fig.1 & 2.



## 4. OPERATING INSTRUCTIONS

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

**Note:** Numbers in brackets refer to item numbers in the parts diagram.

### 4.1. Flux chipper

- 4.1.1. Fit the spring (4) onto the rounded end of the chisel (15) before fitting the chisel into the barrel sleeve (12).
- 4.1.2. Fit the nut (20) over the sharpened end of the chisel (15), screw it onto the barrel sleeve (12) and tighten.
- 4.1.3. Connect the tool to the air hose as in chapter 3.
- 4.1.4. To start the tool, depress the throttle lever.

### 4.2. Needle scaler

- 4.2.1. To use as a needle scaler, unscrew the nut (20) and remove the chisel (15) and spring (4).
- 4.2.2. Fit the needle driver (14) and ensure the spring (18) is located in the needle tube (19).
- 4.2.3. Ensure the needle holder (17) is fitted with needles (16) such that the heads of the needles do not protrude above the surface of the needle holder.
- 4.2.4. Fit the needle holder (17) into the needle tube (19), screw the needle tube (19) onto the barrel sleeve (12) and tighten.
- 4.2.5. To start the tool, depress the throttle lever.

**DO NOT** allow the tool to free run for an extended period of time as this will shorten its life.

## 5. MAINTENANCE

- ❑ **WARNING!** Disconnect tool 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.*

Note: Numbers in brackets refer to item numbers in the parts diagram.

- 5.1. To replace the needles (16), unscrew the needle tube (19) from the barrel sleeve (12). Remove the needle holder (17) and replace the needles (16). (Use genuine Sealey needles only.) Refit the needle holder (17) into the needle tube (19), screw it onto the barrel sleeve (12) and tighten.
- 5.2. Lubricate the tool daily with a few drops of Sealey air tool oil dripped into the air inlet.
- 5.3. Clean the tool after use.
- 5.4. 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 tool may also reduce performance. Flush the tool out with gum solvent oil or an equal mixture of SAE No 10 oil and paraffin. Allow to dry before use.
- 5.5. For a full service contact your local Sealey service agent.
- 5.6. When not in use, disconnect from air supply, clean tool and store in a safe, dry, childproof location.

**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 product.

**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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### **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): . . . . . 8.56m/s<sup>2</sup>**

**Uncertainty value (k):. . . . . 1.34m/s<sup>2</sup>**

*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 ¼" 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](http://www.hse.gov.uk) - Hand-Arm Vibration at Work.