



INSTRUCTIONS FOR: AIR RATCHET WRENCH MODEL No's: SA20/S, SA21/S

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

- ✓ Employ all workshop safety rules, regulations, and conditions when using wrench.
- WARNING!** Disconnect from air supply before changing accessories or servicing.
- ✓ Maintain the wrench in good condition and replace any damaged or worn parts. *Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.*
- WARNING!** Check correct air pressure is maintained and not exceeded. Recommended 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.
- ✓ Only use impact sockets which are specifically designed for use with a ratchet/impact wrench.
- ✓ 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.
- ✗ **DO NOT** use the ratchet for a task it is not designed to perform.
- WARNING! DO NOT** use wrench if damaged or thought to be faulty. (Contact Service Agent).
- ✗ **DO NOT** use wrench unless you have been instructed in its use by a qualified person.
- ✗ **DO NOT** drop, throw or abuse the wrench as it is a precision tool.
- ✗ **DO NOT** carry the wrench by the hose, or yank the hose from the air supply.
- ✗ **DO NOT** operate wrench if you are tired, under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** carry wrench with your hand on the power lever in order to avoid unintentional starting.
- ✗ **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 air powered ratchet wrench has a hardened steel anvil and twist-to-reverse mechanism. With trigger operated power control the wrench is suitable for use in the engine bay where there is limited space for hand operated ratchets.

MODEL No:	SA20/S	SA21/S
Drive size:	3/8" Sq.	1/2" Sq
Max torque:	50ft/lb.	60ft/lb
Air consumption:	4cfm.	4cfm
Operating pressure:	90psi.	90psi
Air inlet size:	1/4" BSP.	1/4" BSP
Weight:	1.2kg.	1.2kg
Noise Power:	108.47dB(A).	108.47dB(A)
Noise Pressure:	97.47dB(A).	97.47dB(A)
Vibration Emission:	6.56m/s ²	6.56m/s ²

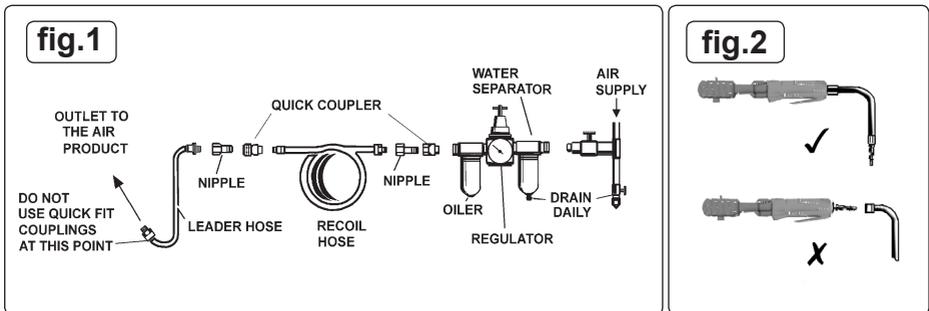
3. PREPARING WRENCH FOR USE

3.1. Air Supply

- 3.1.1. Ensure the wrench air 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 that the air supply is clean and does not exceed 90 psi while operating the wrench. 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 wrench.
- 3.1.5. Clean the 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 the 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 wrench. To overcome this, connect a leader hose to the wrench. 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.

- 4.1. Only use sockets specifically designed for use with a ratchet wrench.
- 4.2. Connect the wrench to the air hose as in section 3.
- 4.3. Place the socket over the subject nut and depress the trigger to operate the wrench.
- 4.4. To change ratchet direction turn the switch on the tool head. F = Forward R = Reverse. **DO NOT** use any additional force upon the wrench in order to remove a nut.
- 4.5. The flow of air may be regulated by turning the screw above the trigger.
- 4.6. **DO NOT** allow wrench to run in "idle rotation" for an extended period of time as this will shorten its life.

5. MAINTENANCE

- ❑ **WARNING!** Disconnect wrench from air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts. *Use genuine parts only. Non-authorised parts may be dangerous and will invalidate the warranty.*
- 5.1. Lubricate the air wrench daily with a few drops of Sealey air tool oil dripped into the air inlet to prolong its life.
- 5.2. Clean the wrench after use. **DO NOT** use worn, or damaged sockets.
- 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 wrench 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 wrench out with gum solvent oil or an equal mixture of SAE No 10 oil and paraffin. 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 wrench 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 adequately managed.

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

Measured vibration emission value (a): 6.56m/s²

Uncertainty value (k): 0.69m/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.

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.

- Keep hands away from sockets when in use.
- Do not use ill-fitting or worn Sockets and Extensions as this will increase vibration.
- 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.

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.

To reduce friction and increase the power and longevity of the tool; regularly lubricate the drive shaft and check and top up the gearbox (if fitted).

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.