



INSTRUCTIONS FOR

AIR RATCHET WRENCH 1/2"SQ DRIVE

MODEL NO: **SA21/S.V3**

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 safety footwear



Wear protective clothing



Wear ear protection



Wear a mask

1. SAFETY

- WARNING!** Ensure that Health & Safety, local authority and general workshop practice regulations are adhered to when using this equipment.
- WARNING!** Disconnect from the air supply before changing accessories, servicing or performing any maintenance.
- Maintain the tool in good condition (use an authorised service agent).
- Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- Use in a suitable work area. Keep area free from unrelated materials and ensure that there is adequate lighting.
- Maintain correct balance and footing. **DO NOT** over reach, ensure the floor is not slippery and wear non-slip shoes.
- WARNING!** Always wear approved eye and hand protection when operating these tools.
- Use face, dust, or respiratory protection in accordance with COSHH regulations.
- WARNING!** Due to the possible presence of asbestos dust from brake linings, when working around vehicle brake systems we recommend that suitable respiratory protection is worn.
- Depending on the task, the tool noise level may exceed 84dB in which case wear safety ear defenders.
- Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain and/or tie back long hair.
- Wear appropriate protective clothing and keep hands and body clear of working parts.
- Keep children and unauthorised persons away from the work area.
- Ensure that the workpiece is secure before operating the tool. Never hold a workpiece by hand.
- DO NOT** operate tool when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- WARNING!** Ensure correct air pressure is maintained and not exceeded. Recommended pressure 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.
- When not in use disconnect from air supply and store in a safe, dry, childproof location.
- DO NOT** use the tool for tasks that it is not designed to perform.
- DO NOT** operate tool if any parts are damaged or missing as this may cause failure and/or personal injury.
- DO NOT** carry the tool by the hose, or yank the hose from the air supply.
- DO NOT** place air line attachments close to your face and do not point at other people or animals.
- DO NOT** direct air from the air line at yourself or others.
- DO NOT** operate tool unless you have been instructed in use by a qualified person.
- DO NOT** carry tool with your finger on the trigger and avoid unintentional starting.
- DO NOT** drop, throw or abuse the tools as they are precision instruments.
- DO NOT** leave the tool operating unattended.
- DO NOT** get the tool wet or operate in damp or wet locations.
- DO NOT** allow tool to free run for an extended period of time as this will shorten its life.

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):2.9 m/s²

Uncertainty value (k):1.45 m/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 HSC website www.hse.gov.uk - Hand-Arm Vibration at Work.

2. INTRODUCTION

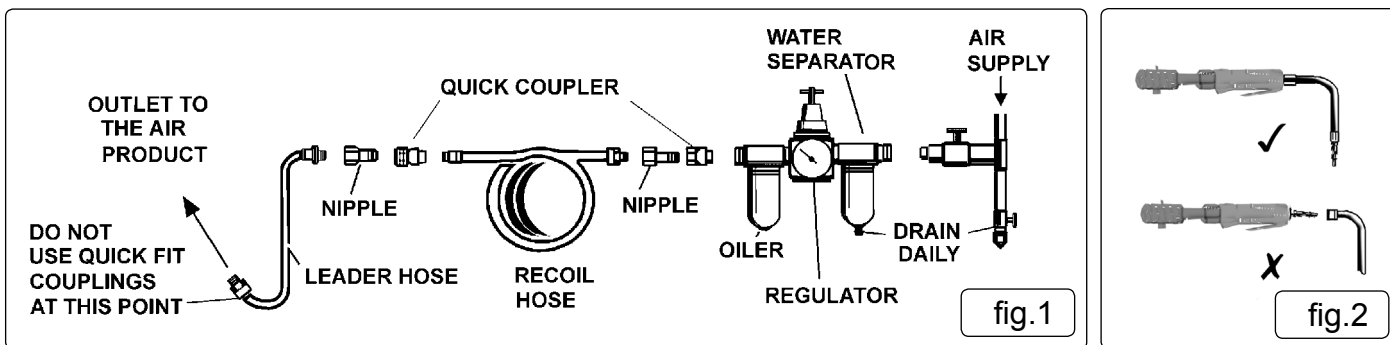
Air powered ratchet with hardened steel anvil and twist reverse mechanism. Trigger operated power control. Suitable for use in the engine bay where there is limited space for hand operated ratchets.

3. SPECIFICATION

Model No.....	SA21/S.V3
Drive	1/2" Sq
Max. Torque	45lb.ft(61Nm)
Free Speed	150rpm
Air Consumption.....	5cfm
Operating Pressure.....	90psi
Air Inlet size	1/4" BSP
Length.....	265mm
Weight.....	1.2kg
Noise power/Pressure.....	106/95dB(A)
Vibration/Uncertainty.....	2.9/1.45m/s ²

4. PREPARATION

- 4.1. Recommended hook-up is shown in fig.1.
 - **WARNING!** Ensure that the air supply is clean and does not exceed 90 psi while operating this tool. Too much air pressure and/or unclean air will cause excessive wear and may be dangerous, causing damage and/or personal injury.
- 4.2. Ensure that the tool trigger is not depressed before connecting to the air supply.
- 4.3. You will require an air pressure of 90psi, and an air flow of 5cfm per tool.
- 4.4. Drain the air tank daily. Water in the air line will damage the tools and invalidate your warranty.
- 4.5. Clean the compressor air inlet filter weekly.
- 4.6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose bore should be 1/4" and fittings must have the same inside dimensions.
- 4.7. Keep hoses away from heat, oil and sharp edges. Check hoses for wear and make certain that all connections are secure.
- 4.8. Couplings - vibration may cause failure of a quick change coupling that is connected directly to the air tools.
- 4.8.1. To overcome this, connect a leader hose (Sealey model number AH2R) to the tools.
- 4.8.2. A quick change coupling may then be used to connect the leader hose to the air line recoil hose. See figs.1 & 2.



5. OPERATION

The air ratchet wrench has a hardened steel anvil with trigger operated power control, it is suitable for use in the engine bay where there is limited space for hand operated ratchets.

- **WARNING!** Ensure that you read, understand and apply the safety instructions in Section 1 before use. Additionally the following safety instructions are specific to this tool.
 - * **DO NOT** use any additional force upon the wrench in order to remove or tighten a nut.
- 5.1. Only use sockets specifically designed for use with a ratchet wrench.
 - 5.2. Connect the wrench to the air supply as in Section 4.
 - 5.3. Place the socket over the subject nut and depress the trigger to operate the wrench.
 - 5.4. To change ratchet direction turn the switch on the tool head. F = Forward R = Reverse.

6. MAINTENANCE

- ❑ **WARNING!** Disconnect the tool from the air supply before changing accessories, servicing or performing maintenance.
- 6.1. Replace or repair damaged parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- 6.2. If the 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.
- 6.3. Clean the tool after use.
- 6.4. 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 Section 4.
 - 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.
- 6.5. For a full service contact your local Sealey service agent.
- 6.6. When not in use, disconnect from air supply, clean tool and store in a safe, dry, childproof location.
- 6.7. **Impact Wrench only** - Check and top up the gearbox oil by removing grub screw located on the right side, above the grip.

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or telephone 01284 757500.



Environmental 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 off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

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.



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