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Item	Model & Part No	Model & Part No	Description	Item	Model & Part No	Model & Part No	Description
1	SA20/S-01	SA21/S-01	HOUSING	22	SA20/S-22	SA21/S-22	DRIVE BUSHING
2	SA20/S-02	SA21/S-02	AIR INLET	23	SA20/S-23	SA21/S-23	RATCHET YOKE
4	SA20/S-04	SA21/S-04	TRIGGER	24	SA20/S-24	SA21/S-24	CYLINDER
5	SA20/S-05	SA21/S-05	PIN	25	SA20/S-25	SA21/S-25	ROTOR
6	SA20/S-06	SA21/S-06	VALVE STEM	26	SA20/S-26	SA21/S-26	ROTOR BLADE
7	SA20/S-07	SA21/S-07	O-RING	27	SA20/S-27	SA21/S-27	FRONT PLATE
8	SA20/S-08	SA21/S-08	SPRING	28	SA20/S-28	SA21/S-28	BEARING
9	SA20/S-09	SA21/S-09	VALVE PLUG	29	SA20/S-29	SA21/S-29	END PLATE
10	SA20/S-10	SA21/S-10	WASHER	30	SA20/S-30	SA21/S-30	BEARING
11	SA20/S-11	SA21/S-11	O-RING	31	SA20/S-31	SA21/S-31	PIN
12	SA20/S-12	SA21/S-12	THREAD RING GEAR	32	SA20/S-32	SA21/S-32	WASHER
13	SA20/S-13	SA21/S-13	CAP	34	SA20/S-34	SA21/S-34	SPRING
14	SA20/S-14	SA21/S-14	GEAR	35	SA20/S-35	SA21/S-35	LOCK PIN
15	SA20/S-15	SA21/S-15	PIN	36	SA20/S-36	SA21/S-36	RATCHET PAWL
16	SA20/S-16	SA21/S-16	GEAR PLATE	37	SA20/S-37	SA21/S-37	PIN
17	SA20/S-17	SA21/S-17	CRANK SHAFT	38	SA20/S-38	SA21/S-38	REVERSE BUTTON
18	SA20/S-18	SA21/S-18	RATCHET ANVIL	39	SA20/S-39	SA21/S-39	RETAINER RING
19	SA20/S-19	SA21/S-19	RATCHET HOUSING	40	SA20/S-40	SA21/S-40	SPRING
20	SA20/S-20	SA21/S-20	BUSHING	41	SA20/S-41	SA21/S-41	STEEL BALL
21	SA20/S-21	SA21/S-21	NEEDLE BEARING	42	SA20/S-42	SA21/S-42	WASHER

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.

INSTRUCTIONS FOR
AIR RATCHET WRENCH
 Models: **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

- 3 Employ all workshop safety rules, regulations, and conditions when using wrench.
- p **WARNING!** Disconnect from air supply before changing accessories or servicing.
- 3 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.*
- p **WARNING!** Check correct air pressure is maintained and not exceeded. Recommended 70-90psi
- 3 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.
- 3 Only use impact sockets which are specifically designed for use with a ratchet/impact wrench.
- 3 Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- 3 Keep children and unauthorised persons away from the working area.
- 7 **DO NOT** use the ratchet for a task it is not designed to perform.
- p **WARNING! DO NOT** use wrench if damaged or thought to be faulty. (Contact Service Agent).
- 7 **DO NOT** use wrench unless you have been instructed in its use by a qualified person.
- 7 **DO NOT** drop, throw or abuse the wrench as it is a precision tool.
- 7 **DO NOT** carry the wrench by the hose, or yank the hose from the air supply.
- 7 **DO NOT** operate wrench if you are tired, under the influence of alcohol, drugs or intoxicating medication.
- 7 **DO NOT** carry wrench with your hand on the power lever in order to avoid unintentional starting.
- 7 **DO NOT** direct air from the air hose at yourself or others.
- 3 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.

MODELSA20/S

Drive size3/8" Sq
 Max torque50ft/lb
 Air consumption4cfm
 Operating pressure90psi
 Air inlet size1/4" BSP
 Weight1.2kg

MODELSA21/S

Drive size1/2" Sq
 Max torque60ft/lb
 Air consumption4cfm
 Operating pressure90psi
 Air inlet size1/4" BSP
 Weight1.2kg

3. PREPARING WRENCH FOR USE

3.1. Air Supply

- 3.1.1. Ensure 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 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 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 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.

fig 1

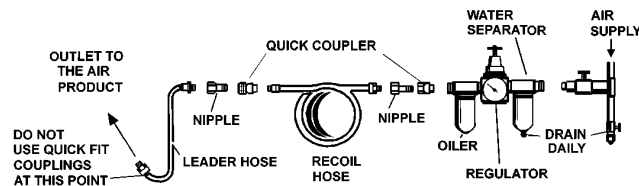
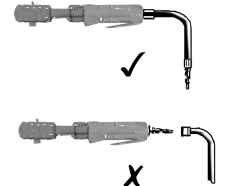


fig 2



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 chapter 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.

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-authorized 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.

Declaration of Conformity



We, the sole importer into the UK, declare that the products listed here are in conformity with the following EEC standards and directives. The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Air Ratchet Wrench
Models: SA20/S & SA21/S
98/37/EC Machinery Directive
93/68/EEC Marking Directive

Signed by Mark Sweetman

09th May 2000

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