



# 3000KG AIR OPERATED COIL SPRING COMPRESSOR

MODEL NO: **RE3000**

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



Coil-bound

Beware coil binding



Wear safety footwear



Warning: Keep bystanders away



Warning: Crushing of hands



General Warning

## 1. SAFETY

### 1.1. GENERAL SAFETY.

- WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
- WARNING!** Wear approved safety hand and eye protection (standard spectacles are not adequate).
- WARNING! TRAPPING DANGER** – Keep hands and fingers away from the spring and compressing jaws in use.
- ✓ Keep the work area clean, uncluttered and ensure there is adequate lighting.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Remove ill-fitting clothes. Remove ties, watches, rings, other loose jewellery. Contain and/or tie back long hair.
- ✓ Wear appropriate protective clothing.
- ✓ Familiarise yourself with the applications, limitations and potential hazards of the spring compressor.
- ✗ **DO NOT** use the spring compressor for a task it was not designed to perform.
- ✗ **DO NOT** allow untrained persons to use the spring compressor.

### 1.2. PRE-OPERATIONAL SAFETY.

- ✗ **DO NOT** operate compressor if parts are damaged or missing as this may cause failure and/or personal injury.
- ✓ Before commencing compression, make a visual inspection of machine to ensure pins are securely positioned and that there is no sign of wear or fatigue – if found, **DO NOT** use and refer to your local Sealey stockist for advice and replacement parts.
- ✓ Ensure jaw locating pins are properly positioned and safety clips are attached correctly.
- ✓ Before commencing compression of spring, ensure coils of the spring are seated securely in the yokes of the compressor and cannot slide out during compression.
- ✓ **ALWAYS** ensure that the safety guard locks in place.

### 1.3. OPERATIONAL SAFETY.

- ✓ When applying compression to the spring, always stand to one side of the compressor.
- ▲ **DANGER!** Stop compressing the spring before the coils touch / bind.
- ▲ **DANGER!** Before attempting to remove top cap nut, always use a tool or similar to test if the compression has been relieved, **DO NOT** use your hands / fingers.
- ✓ We recommend the use of purpose made strut tools to remove the top-nut from the shock piston.
- ✓ Once compressed, and the strut removed, we recommend releasing the tension on the spring. **DO NOT** leave the spring under compression in the machine unattended and **DO NOT** leave in compression for prolonged periods, i.e. overnight.
- ✓ Before releasing the compression ensure that the top strut-nut is securely tightened to the manufacturer's tolerance.
- ✓ Release the compression slowly keeping your hands and fingers away from the spring assembly.
- ✓ Be sure that the tension on the spring is fully controlled by the strut assembly before removing it from the yokes of the compressor.

### 1.4. POST OPERATIONAL SAFETY.

- ✓ When not in use, clean and store the spring compressor in a safe, dry, childproof location.
- ✓ Maintain the spring compressor in good condition. Replace or repair damaged parts. Use genuine parts only.
- ✓ Unauthorised parts may be dangerous and will invalidate the warranty.

## 2. INTRODUCTION

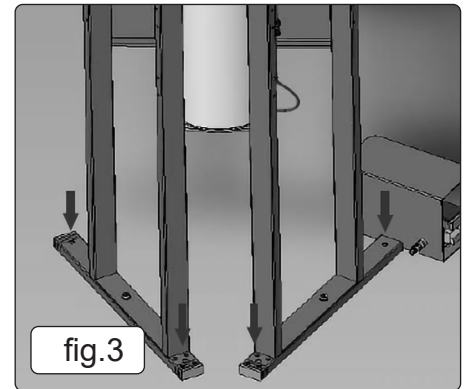
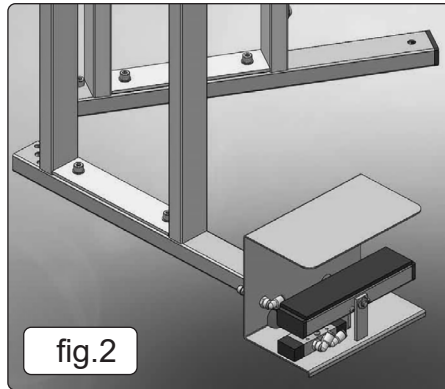
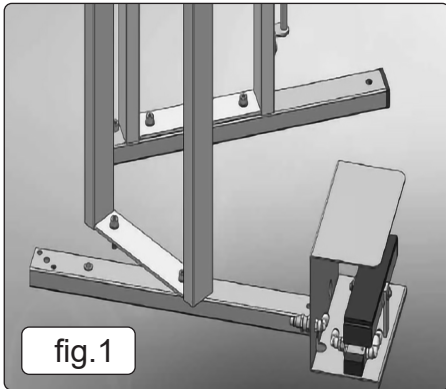
Fast and safe compression of suspension coil springs. 3000kg Air-operated unit with safety locking guard. Adjustable swivel upper arm clamps. Also includes a suspension strut clamp. Fits a wide range of left and right-handed coil spring configurations and diameters

## 3. SPECIFICATION

Model no.: .....	RE3000	Accessories (Not Included).....	RE01 - Right Handed Yoke Small
Maximum Load: .....	3000kg		RE02 - Right Handed Yoke
Upper Arm Travel: .....	330mm		RE03 - Left Handed Yoke
Actuation: .....	Foot Pedal		RE04 - Upper Coil Spring Bracket
Maximum Air pressure: .....	145psi (10bar)		

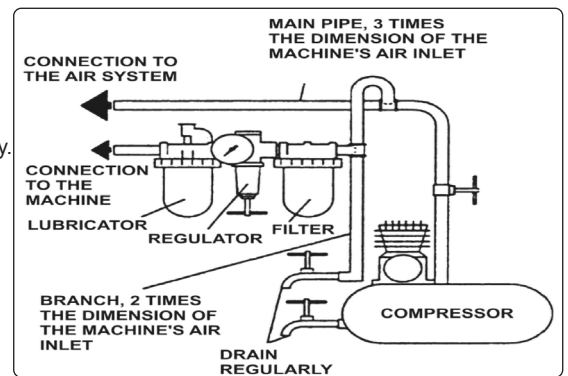
## 4. ASSEMBLY

- 4.1. The machine is supplied assembled and mounted on a wooden pallet. Remove the cardboard box, the parts of the packing and the pallet.
- 4.1.1. Position the unit in a suitable location near an air line feed.
- 4.1.2. Re-align the unit's mounting foot that has the foot pedal attached to it and bolt firmly in position (see fig 1 and fig 2).
- 4.1.3. Firmly bolt the unit to the floor using suitable fixings for the floor's make up (fig.3) (fixings not supplied).



## 5. AIR SUPPLY

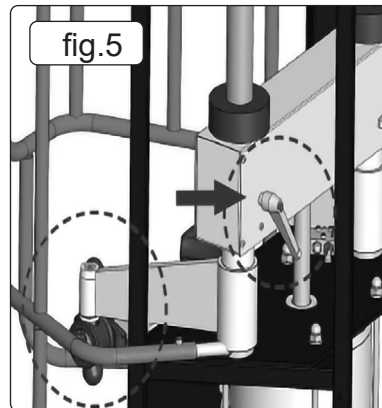
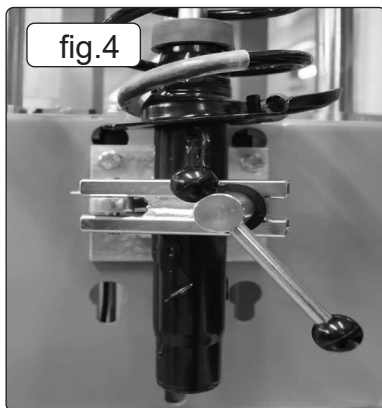
- WARNING!** Ensure the air supply is always clean and does not exceed 145psi (10bar) whilst operating the compressor. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.
- 5.1. A maximum air pressure of 145psi (10bar) is required to operate at full capacity.
- 5.2. Ensure foot control lever is in the 'Off' position before connecting air supply.
- 5.3. Drain the air supply water separator daily to avoid water in the air line which may damage the ram.



## 6. OPERATION

### 6.1. COMPRESSING A STRUT SPRING.

**NOTE!** Before removing the strut from the vehicle it is recommended to refer vehicle manufacturers instructions. With the strut and spring removed from the vehicle, select the most suitably sized yoke or the strut clamp according to the size of the spring and fit it onto the compressor using the vice to hold it in position (fig.4).



- 6.1.1. Position the lowest coil of the spring in the lower yoke and rotate the strut and spring so that the coil is held as low as possible.
- 6.1.2. Swing the upper arms (fig.5) into position and locate the upper clamps on the uppermost available coil (fig.6). Ensure that the coil is placed inside the recesses of the clamp to ensure that the coil will not break free under compression.
- 6.1.3. Having correctly positioned the spring on the lower and upper yokes, tighten both of the locking knobs (fig.5 fig.6).
- 6.1.4. Position the locating plate so that it is just underneath the bottom of the strut and secure it in place.
- 6.1.5. Shut the safety guard ensuring that the locking mechanism is fully engaged.
  - ▲ **DANGER!** Stop compressing the spring before the coil windings touch/bind.
  - WARNING!** If the spring/strut is not located correctly in the jaws, it is possible that the strut top retaining cap could be subject to sideways forces. Watch closely as the spring reaches it's final phase of compression and ensure the top cap assembly rotates freely before attempting to remove it.
  - WARNING!** Keep hands away from the spring whilst compressing.
- 6.1.6. Check to make sure that the spring is safely secured and then gradually press the pedal to start to compress the spring coils. Ensure the spring is securely held.
- 6.1.7. When the strut is loose within the spring, unscrew the strut top plate nut and remove the plate from the top of the strut. Gradually discharge the pressure on the spring by operating the foot control pedal. When all the pressure has been released, take care to support the strut and spring when they become loose. Move the locating plate and withdraw the strut from the compressor. Release the spring from the upper retaining clamps and remove from the compressor.
- 6.2. **FITTING A STRUT SPRING**
  - 6.2.1. Assembly is the reverse of disassembly.

- 6.2.2. Offer the new strut spring up to the compressor's yokes and fit it in the same position as that of the old spring. Position the lowest coil of the spring in the lower yoke and rotate the spring, so that the coil is held as low as possible. Swing the small upper arms into position and locate the upper clamps on the uppermost available coil. Ensure that the coil is placed inside the recesses of the yokes to ensure that the coil will not break free under compression. Tighten the locking knobs.  
**NOTE:** There must be coils free at either end to allow them to seat on the strut plates, without the strut and compressor yokes interfering.
- 6.2.3. Insert the strut up inside the spring, and move the locating plate just underneath the bottom of the strut to support it and secure the plate in place by tightening the knob.
- 6.2.4. Shut the safety guard, ensuring that it locks in place and fully engages the safety catch.  
▲ **DANGER!** Stop compressing the spring before the coil windings touch or bind.  
□ **WARNING!** Keep hands away from spring.
- 6.2.5. Compress the spring using the correct pedal on the foot control unit, ensuring that the spring is securely held in place within the clamp recesses at all times. When the spring is compressed sufficiently, fit the strut top plate to the strut, and using a new nut, secure it in position.
- 6.2.6. Decompress the spring carefully and slowly, using the pedal on the foot control unit, ensuring the spring is located correctly into the strut top plate.
- 6.2.7. Remove complete strut carefully from the spring compressor.
- 6.2.8. When re-fitting the strut to the vehicle, the locking plate nut will need to be fully tightened using a torque wrench, to a setting in accordance with the vehicle manufacturer's specification.

## 7. MAINTENANCE

- 7.1. Before each use, check the spring compressor to ensure it is not damaged or worn. If in any doubt **DO NOT** use the spring compressor. Remove it from service immediately and contact your local Sealey stockist for advice and/or repairs.
- 7.2. Any other maintenance required should be carried out by an authorised service agent.
- 7.3. If the spring compressor is not being used for a considerable length of time, disconnect the air supply and discharge any air in the cylinder by depressing the foot control lever. Drop a little Sealey air tool oil into the air inlet and cover to prevent the ingress of any foreign matter.

## 8. TROUBLESHOOTING

Symptom	Cause	Solution
The machine does not work.	Check the connection to the compressed air system.	Connect the machine to the local pneumatic system through the Quick connector.
The two arms do not run properly along the columns.	Dust and dirt on the columns.	Clean the columns and the sliding parts with a dry rag, <b>NEVER LUBRICATE WITH GREASES OR OILS</b>
The piston's shaft, after moving forward does not stay in place and goes back.	There is an air leak in the cylinder.	Contact customer service to repair the Cylinder

**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.

**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 is required for any claim.

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