



# AIR OPERATED HYDRAULIC BOTTLE JACKS

MODEL NO: YAJ12S, YAJ18S.V2, YAJ20SLE

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 protective  
gloves



Wear safety  
footwear

## 1. SAFETY

- ✖ Use jack only in accordance with this instruction manual.
- ✓ It is necessary that the operator can watch the lifting device and the load during all movements.
- ✓ The operator shall be provided with all the necessary information about training and about pumping and translating forces.
- ✓ Ensure the jack is in sound condition and good working order. Take action for immediate repair or replacement of damaged parts. Use genuine parts only. **DO NOT** modify the jack. The use of non-genuine parts may be dangerous and will invalidate the warranty. Replace hoses 'like for like'.
- ✓ Locate the jack in a suitable, well lit working area. Keep working area clean and tidy and free from unrelated materials. Use jack on level and solid ground, preferably concrete. Avoid tarmac as jack may sink in.
- ✓ Chock wheels of vehicle.
- ✓ Ensure the vehicle handbrake is engaged, engine is switched off and transmission is in gear (or "PARK" if automatic).
- ✓ Ensure minimum distance of 0.5m between vehicle and static objects such as doors, walls, etc. to allow for vehicle tilting.
- ✓ Ensure all non-essential persons keep a safe distance whilst the jack is in use.
- ✓ Ensure there are no passengers in the vehicle.
- ✓ The operator of the jack must watch the jack and the load during all movements.
- ✓ Place jack under only those lifting points recommended by vehicle manufacturer (see vehicle handbook).
- ✓ Check that the lifting point is stable and centred on the jack saddle.
- ▲ **DANGER:** Use the jack for lifting only, **NOT** for supporting the lifted load.
- **WARNING! DO NOT** work on, or under, a vehicle which is supported only by a jack (or jacks) - always use axle stands.
- ✓ Ensure there are no persons or obstructions beneath the vehicle before lowering.
- ✓ Use suitable axle stands under the vehicle before proceeding with any task.
- ✓ Use a qualified person to lubricate and maintain the jack.
- ✓ Ensure that only hydraulic jack oil is used in the jack.
- ✖ **DO NOT** operate the jack if damaged.
- ✖ **DO NOT** allow untrained persons to operate the jack.
- ✖ **DO NOT** operate the jack when tired or under the influence of drugs, alcohol or intoxicating medication.
- ✖ **DO NOT** exceed the rated capacity of the jack.
- ✖ **DO NOT** allow the vehicle to move during lifting or lowering, or use the jack to move the vehicle.
- ✖ **DO NOT** jack vehicle if there is a risk of spillage of fuel, battery acid, or other dangerous substances.
- ✖ **DO NOT** work under the vehicle until appropriately rated axle stands have been correctly positioned.
- ✖ **DO NOT** use the jack for purposes other than that for which it is intended.
- ✖ **DO NOT** use with foodstuffs.
- ✖ **DO NOT** top up hydraulic system with brake fluid. Use hydraulic jack oil only. (Sealey Part No: HJO500MLS or HJO5LS)
- ✓ In the event of oil spillage ensure an oil spill kit is to hand. Consult Sealey website for Materials Safety Data Sheet for characteristics of fluids included with the product. Fire fighting procedure/equipment should be in accordance with the Materials Safety Data Sheet.
- ✖ **DO NOT** adjust the safety overload valve.
- ✓ Lifting of persons is prohibited.
- ✖ **DO NOT** use in severe weather conditions, risk assess the task. **DO NOT** use on ships.
- ✓ Beware of static electrical shock from jack when used on some surfaces.
- ✓ In the event of blockage stop using the jack and consult professional advice.
- ✓ When not in use store jack, fully lowered, in a safe, dry, childproof area. Ensure if transported the jack is secured in an upright position.
- ✖ **DO NOT** snatch the hose from the air supply, and **DO NOT** direct air from the air hose at yourself or others.
- **WARNING!** Turn off air supply and de-pressurise the control nozzle before removing the pump unit from any installation or mobile system.
- ✓ No modifications shall be carried out which adversely affect the compliance of the jack with the standard.
- ✓ Check the state of the markings and that the markings remain as the initial one.
- ✓ Failure to comply with this instruction may damage the unit and will invalidate your warranty.
- ✓ Lifetime of the jack: Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

## 2. INTRODUCTION

Powerful and reliable, ideal for workshop or roadside use. At modest cost, it takes the effort out of lifting heavy plant, tractors and commercial vehicles. Features dead man's control and sectional pump handle for manual operation.

### 3. SPECIFICATION

| Model no's                 | YAJ12S      | YAJ18S.V2  | YAJ20SLE      |
|----------------------------|-------------|------------|---------------|
| Air consumption            | 7.5cfm      | 7.5cfm     | 7.5cfm        |
| Capacity                   | 12 Tonne    | 20 Tonne   | 20 Tonne      |
| Chassis Length x Width     | 193 x 141mm | N/A        | 205 x 165.5mm |
| Maximum Height             | 510mm       | 510mm      | 322mm         |
| Minimum Height             | 260mm       | 260mm      | 178mm         |
| Overall Width              | N/A         | 175mm      | N/A           |
| Piston stroke              | 170mm       | 170mm      | 84mm          |
| Screw extension            | 80mm        | 80mm       | 60mm          |
| Working pressure:          | 109-123psi  | 109-123psi | 109-123psi    |
| Nett Weight                | 11.75kg     | 11.75kg    | 12.5kg        |
| Applicable standard EN1494 |             |            |               |

### 4. AIR SUPPLY

- 4.1. You will require the air pressure detailed in the Specification section, to get the best performance from this jack.
- ❑ **WARNING!** Ensure the air supply does not exceed the stated maximum pressure while operating the jack. Too high an air pressure and unclean air will shorten the product's life due to excessive wear, and may be dangerous causing possible damage and personal injury.
- 4.2. Drain the air tank daily. Water in the air line will damage the jack.
- 4.3. Clean the air inlet filter screen weekly.
- 4.4. Keep the air hose between the compressor and the air jack as short as possible, and install an air filter and oiler (fig.2).
- 4.5. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 3/8" I.D. and fittings must have the same inside dimensions.
- 4.6. Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.

### 5. OPERATION

Refer to fig.1

- 5.1. Connect air supply.
- 5.2. Insert handle into handle socket.
- 5.3. PREPARATION**
- 5.3.1. Before first use carry out the following:
  - (a) **Check oil level:** open release valve (not more than three turns) and press down on saddle to ensure piston is fully down, then remove filler plug. Oil should be level with bottom of filler hole. Fill as necessary and replace plug.
  - (b) **Bleed system:** With release valve open, operate the manual pump for three strokes to bleed any air from the system. Close release valve.
  - (c) **Lubricate:** Oil the pivots of the manual pump mechanism and the screw thread of the saddle post. Put two or three drops of air tool oil into the inlet of the air valve. Connect to air supply and operate for three seconds to distribute lubricant.
  - (d) **Air supply:** an air in-line filter is recommended (fig.2).
- 5.4. RAISING**
- 5.4.1. Ensure compliance with all safety instructions - section 1 Safety.
- 5.4.2. Check that release valve is closed.
- 5.4.3. Position jack so that saddle is under vehicle jacking point. If necessary screw up saddle to just below jacking point. **DO NOT** use handle in the release valve to move jack - damage will result.
- 5.4.4. Press the air valve trigger to raise, release trigger to stop. Alternatively use the handle to operate the manual pump.
- 5.4.5. Always support the jacked vehicle on axle stands before working on or under it.**
- 5.5. LOWERING**
- 5.5.1. Check beneath vehicle for any obstructions and remove axle stands.
- 5.5.2. **Slowly** open release valve with handle and control the rate of descent by smoothly opening or closing the valve.  
**NOTE:** The release valve should not be closed abruptly (except in an emergency) since this shock loads the hydraulic system.
- 5.5.3. After use jack should be stored with the piston and the manual pump socket both fully down.

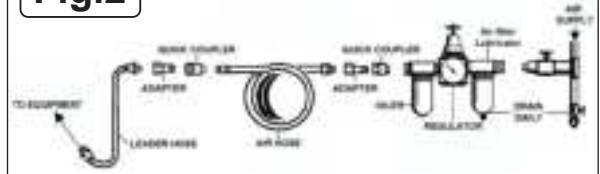
### 6. MAINTENANCE

- 6.1. Jacks shall be maintained and repaired in accordance with the manufacturer's instructions. Such maintenance and repair shall be carried out by qualified persons.
- 6.2. Check the state of the markings the markings shall remain as they were from new.
  - 6.2.1. Clean and lubricate on a regular basis.
  - 6.2.2. Regularly check oil level via filler hole. With piston fully down remove filler plug ,oil should be level with bottom of filler hole. Top-up as necessary. Use a good quality jack oil such as Sealey Hydraulic Jack Oil. **DO NOT use brake fluid.**
  - 6.2.3. Annual oil replacement is recommended for jacks in daily use. Remove filler plug and release valve, place jack on its side and allow to drain. Replace release valve and refill with oil. Bleed system as in para. 5.3.1.(b), re-check level and replace filler plug.
  - 6.2.4. Ensure no dirt enters hydraulic system when draining, filling or removing/replacing components.
  - 6.2.5. Always dispose of waste oil safely and legally. If in doubt consult your local authority.
- Owing to their size and weight, hydraulic products should ideally be repaired by local service agents. we have service / repair agents in most parts of the UK. Before returning your product please call our technical helpline on 01284 757505 for advice and trouble shooting guidance. If the jack is under guarantee please contact your stockist.

Fig.1



Fig.2



## 7. TROUBLESHOOTING

|                                                |                                                                               |                                                                                            |
|------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Jack will not lift load.                       | 1. Release valve not fully closed.<br>2. Oil level low.<br>3. Air supply low. | 1. Close valve firmly.<br>2. Top-up to correct level.<br>3. Min. requirement 3cfm @ 90psi. |
| Jack will not hold load.                       | 1. Release valve not fully closed.                                            | 1. Close valve firmly.                                                                     |
| Jack will not lift smoothly or to full height. | 1. Oil level low.<br>2. Air in hydraulic system.                              | 1. Top-up to correct level.<br>2. Bleed system - see para. 5.3.1.                          |
| Jack will not lower completely.                | 1. Release valve not sufficiently open.                                       | 1. Slowly open valve further.                                                              |



### 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.



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**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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