

INSTRUCTIONS FOR:

AIR HYDRAULIC VEHICLE LIFT 2.5TONNE

MODEL NO: AVR2500A

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.



Read the manual Crushing danger instructions

1. SAFETY GENERAL SAFETY.

- WARNING! Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
 WARNING! TRAPPING DANGER Although the vehicle lift movements are slow in operation, keep hands and limbs away from the steelwork
- during elevating and lowering. The lowering speed increases during decent and decreases whilst elevating.
- ✓ 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 steel toe capped shoes.
- \checkmark Remove ill-fitting clothes. Remove ties, watches, rings, other loose jewellery.
- ✓ Familiarise yourself with the applications, limitations and potential hazards of the vehicle lift.

footwear

- **X DO NOT** use to achieve a task the vehicle lift was not designed to perform.
- **X DO NOT** allow untrained persons to assemble or use the vehicle hydraulic lift.
- **X DO NOT** lift the vehicle with people inside.

PRE OPERATIONAL SAFETY and *SAFETY FEATURES.

- X DO NOT exceed the load capacity of 2.5tonne. See your vehicle manual for weight. *In the pump is a calibration valve to prevent lifting of loads exceeding capacity.
- ✓ Ensure adequate level space around the vehicle for the operator and the lift.
- X DO NOT operate the vehicle lift if parts are damaged or missing as this may cause failure and/or personal injury.
- ✓ Before commencing lift, make a visual inspection of the vehicle lift to ensure there is no sign of damage or loose fixings.
- X DO NOT use the unit and refer to your local Sealey dealer for advice on replacement parts.
- ✓ Tighten all hydraulic and pneumatic fittings and ensure hydraulic system is bled and oil level is correct.
- ✓ Before commencing lift ensure the vehicle bodywork is structurely sound.
- ✓ Before commencing the vehicle lift apply the vehicle hand brake and leave in first gear. Refer also to section 5.8.1.
- *Be aware of an automatic valve on the ram cylinder infeed on the lift which prevents oil spilling out in the event of accidental damage to the delivery hose.

OPERATIONAL SAFETY.

- X DO NOT stand on or drive over the hydraulic pump "umbilical" hose or mains air line.
- Position the pump, in use, such that there is no tripping hazard. Return the pump to the tray in the base frame when not in use.
- ✓ After lifting to required working height, ensure that both pawl bars are engaged in a channel notch. Refer to fig.7.

POST OPERATIONAL SAFETY.

- ✓ When not in use, place the pump back on its tray in the base frame, clean and store the lowered vehicle lift in a safe, dry, childproof location.
- ✓ Maintain the vehicle lift in good condition. Replace damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- WARNING! The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

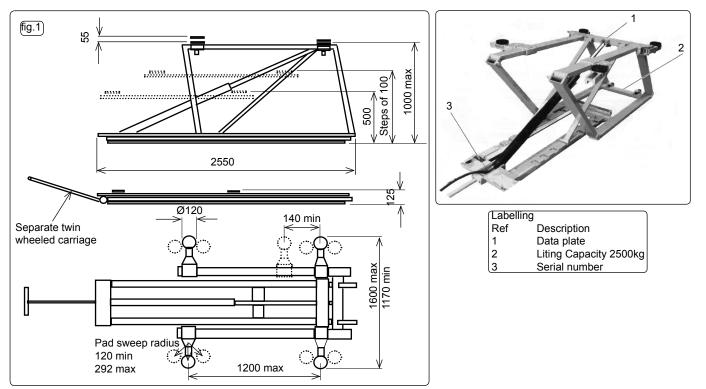
2. INTRODUCTION

Manoeuvrable low profile lift with retracting wheels for easy positioning under vehicles. Four multi-positioning, height adjustable saddles with rubber pads. Maximum lift of 1000mm with six height locking positions. Suitable for use with a wide range of vehicles.

3. SPECIFICATION

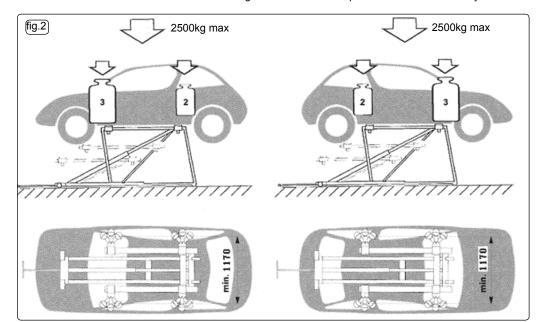
3.1 Lift specifications

Model No: AVR2500A	
Maximum Load: 2500kg	
Maximum Lift Height: 1000mm	
Min Overall Height: 125mm	
Overall Width: 1600mm	
Safety Locking Positions: 6	
Weight:	



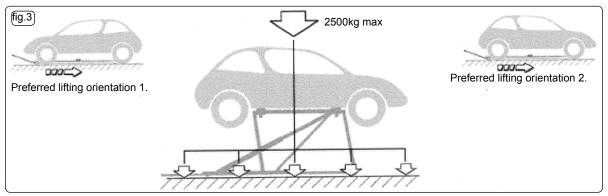
3.3 Vehicle weight distribution

- 3.3.1. Weight of the vehicle must not exceed 2500kg.
- 3.3.2. Vehicle acceptable weight distribution 2:3 or 3:2 reversible.
- 3.3.3. Lifting from the side of a vehicle is not recommended. Weight distribution will require careful assessment by the user.



3.4 Required work surface

- 3.4.1. Lift bearing area must be 1500mm x 2600mm minimum, level and flat within 5mm, without steps.
- 3.4.2. The lift area must be suitable for the load; concrete preferred. **DO NOT** site on tar macadum.

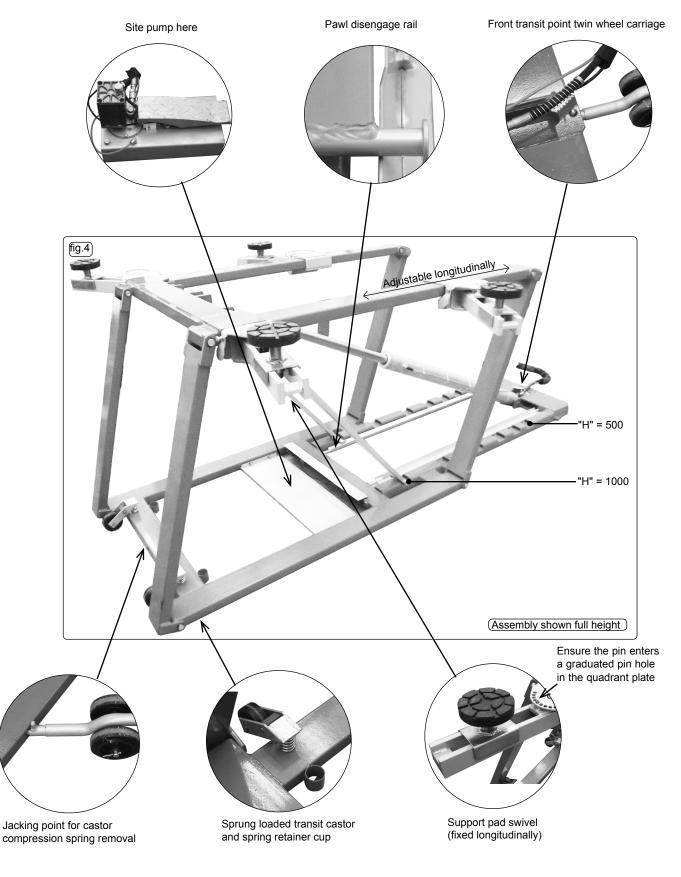


Original Language Version

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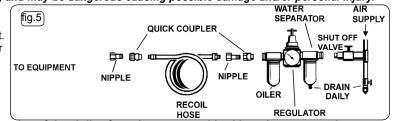
Assembly 4.1.

- 4.1.1. The major structural components including the hydraulic ram are pre-assembled, requiring only attachments. Use the picture below to check all parts are present.
- 4.1.2. A separate twin wheeled carriage enables transporting the lowered assembled vehicle lift. This carriage is also used for removing compression springs from the base frame sprung loaded castors. Refer to section 5.8.2 and 5.8.3. 4.1.3. See the 'Maintenance' section for air line and hydraulic line circuit connections.



5. OPERATION

- 5.1. Ensure the air supply valve is in the "Off" position (fig.5) before connecting to the air supply. The air/hydraulic lift requires a minimum air pressure of 6-7bar to operate. Mains air supply, suggested minimums, 200ltr compressor and 1/2" pipework.
- WARNING! Ensure the air supply is clean and does not exceed 7bar). Too high an air pressure and unclean air will shorten the life of the unit due to excessive wear, and may be dangerous causing possible damage and/or personal injury.
- **5.2.** Drain the air supply tank daily and clean the air inlet filter screen weekly.
- **5.3.** For recommended supply, see diagram (fig.5) to right.
- Line pressure should be increased to compensate for unusually long air hoses (over 8 metres).
- 5.5. Keep hose away from heat, oil and sharp edges. Check hoses for wear and make certain that all connections are secure.



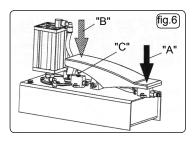
not available in the mains air supply line, disconnection of the air line from the pump would achieve the same result.

5.6. Operating the pump (fig.6)

5.6.1. Elevate by depressing the pump pedal position "A" and hold.

WARNING! In an emergency, if a shut off valve is

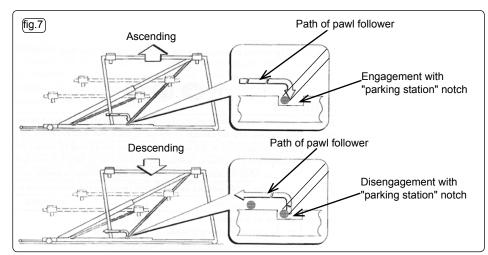
- 5.6.2. Park the lift at any pawl prop notched height by removing the foot from the pump with a bias toward position "B". See fig.7 and note 5.8.7.
- 5.6.3. Control descent by briefly depressing the pump pedal position "A", to enable pawl prop disengagement, followed by fully depressing pump pedal position "B", depressing valve "C" and hold. See fig.6.



"Operater present" pump

5.7. Test run

- 5.7.1. Before each use, check the vehicle lift is functioning correctly and ensure it is not damaged or worn.
- 5.7.2. With the air line connected operate the lift valve pedal to trial elevate, release the valve to stop. Lower the lift by operating the hydraulic release valve pedal. It will only elevate or descend whilst the pedal is being operated ("Operater present" system).
- 5.8. Lifting the vehicle
- 5.8.1. Lock, chock and handbrake vehicle wheels as required. Remove any objects left on the boot lid, bonnet and roof.
- 5.8.2. The vehicle lift assembly is mounted on two sprung loaded castors at one end for transit. Manouevrability is obtained by inserting the pin of the twin wheeled carriage, as shown in fig.1 at the opposite end. Partially elevate the frame with the twin wheeled carriage lever and position beneath the vehicle as shown in fig.2 and fig.3.
- 5.8.3 Remove the two compression springs by elevating the frame with the twin wheeled carriage lever at the sprung loaded castor end. This will remove the compression spring forces, allowing removal from the castor bracket and placing them into the retaining cups.
- 5.8.4. With the fully lowered frame centrally positioned beneath the vehicle, locate the support pads on to their respective swivel arms and decide on safe and mechanically stable areas for lift.
- 5.8.5. "Inch" elevate the lift with the foot pedal and rotate the pads anticlockwise to contact the vehicle, ensuring the pin enters a graduated pin hole in the quadrant plate of the swivel arm (fig.4). This will prevent unexpected movement of the load.
- 5.8.6. With the air line connected, operate the lift valve pedal to trial elevate, release the valve to stop if required.
- 5.8.7. Continue to elevate, observing the pivotting pawl props. Notches in the base frame govern fixed height "parking stations". The first "parking station" represents an elevated height of 500mm; although distances vary between notches they each represent a 100mm graduated step in elevated lift. Release the pump foot pedal at the required "parking station" notch, and allow both prop arms to engage with the notch (fig.7). Lower the lift by operating the hydraulic release valve pedal, until the prop engages with the notch edge.
- 5.8.8. Lower the lift by operating the foot pedal; this action operates a 3 port 2 position pneumatic valve. Two small pneumatic cylinders in the area of the pump utility tray, rotate the pawl prop guide rails, lifting the props out of the "parking station" notches. See fig.7, fig.4 and pneumatic circuit fig.8. Control descent by briefly depressing the pump pedal position "A" (fig.6), to enable pawl prop disengagement, followed by fully depressing pump pedal position "B"(fig.6), depressing valve "C"(fig.6) and hold.



PROBLEM	CAUSE	REMEDY
Lift does not elevate	Mains air at 6bar to 7bar not connected.	Check connection and available air pressure
	Low oil level	Add oil. (5litre capacity tank)
	Hydraulic system not primed correctly	Operate the foot pedal in "RELEASE" mode and the air valve at the same time to start the pump.
		Contact your Sealey Dealer when above remedies do not resolve the problem. DO NOT attempt to service hydraulic pump module.
	Oil filter blocked	Clean or replace
	Hydraulic hose accidentally punctured or crushed by an external load.	Replace the hose and bleed entire system. Remove the external load.
Lift elevates unevenly.	Tank not vented.	Vent the tank using the vent screw on the cap.
Lift descends as soon as elevating action ceases.	Air in hydraulic system.	Operate the foot pedal in "RELEASE" mode and the air valve at the same time to start the pump.
	Pump seal faulty	Contact your Sealey Dealer. DO NOT attempt to service hydraulic pump module.
Lift fails to lower.	Pawl prop has not disengaged from parking station.	Check the pawl lift cylinders are operating. Check the mechanism, repair if required. Test valve function item "C" in fig.6.
	Insufficient load on the lift.	Choose a safe method of increasing the load.
	3 port 2 position valve malfunction.	Replace the valve after first isolating the mains air supply.
	Obstacle beneath the lift.	Raise the load until the pawl props register with the nearest notch, making it safe to remove the obstacle.

IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THIS PRODUCT.

Hydraulic products are only repaired by local service agents. We have service/repair agents in all parts of the UK. <u>DO NOT RETURN THE PRODUCT TO US.</u> Please telephone us on 01284 757500 to obtain the address and phone number of your local agent. If product is under guarantee please contact your dealer.

De-commissioning product

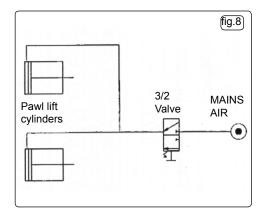
Should the product become completely unserviceable and require disposal, draw off the oil into an approved container and dispose of the product and the oil according to local regulations. See also 'Environmental Protection'.

7. MAINTENANCE

- 7.1. Before each use, check the vehicle lift to ensure it is not damaged or worn. If in any doubt **DO NOT** use the unit. Remove it from service immediately and contact your local Sealey dealer for advice/repairs.
- 7.2. Refilling the hydraulic system with oil is rarely necessary but the level should be checked in the event of a loss of performance. To check oil level, ensure the ram is fully lowered, remove filler plug and check that level is within10mm of filler hole. Add a good quality jack oil, such as SEALEY HYDRAULIC JACK OIL.
- 7.3. Change the oil every 100 working hours.
- WARNING: DO NOT use brake fluid, or any fluid other than hydraulic jack oil as this will cause serious damage to the jack and will invalidate the warranty!

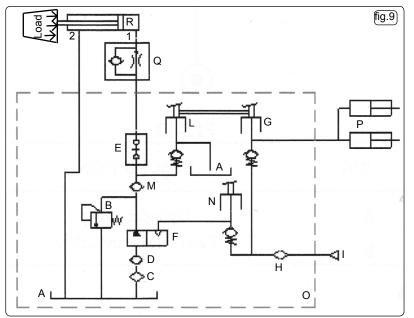
7.2. Pneumatic circuit (fig.8)

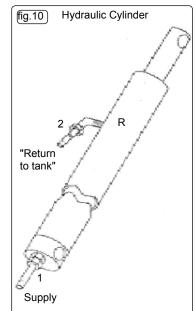
- 7.2.1. See section 5.6
- 7.2.2. The two cylinders are mounted adjacent to the hydraulic pump stowage tray on the main frame. They are actuated by the foot pedal on the hydraulic unit. See 5.8.8.



7.3. Hydraulic circuit (fig.9)

- 7.3.1. Connect the cylinder tubing (1) to the delivery tube and connect the "back to tank" tube (2) to the recovery tube.
- 7.3.2. With mains air 'ON' (see the pneumatic circuit fig.8 and fig.5), raise and lower a few times to remove air from the hydraulic circuit. For lowering, a load will be required to exhaust the oil "back to tank".





Reference	Description
A	Tank
В	Pressure relief valve 250bar (29,000 kPa)
С	Oil filter
D	Pump valve
E	Silencer
F	Pump
G	3 port 2 position vavle
Н	Air filter
1	Air line adaptor
L	Control valve (lower lift)
М	Delivery valve
Ν	Control valve (elevate lift)
0	Air actuated hydraulic pump assembly
Р	Pawl lift pneumatic cylinders
Q	"Parachute" valve (tube rupture)
R	Hydraulic cylinder (ram)



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.

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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 phone 01284 757500.

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 cl



Sole UK Distributor, Sealey Group, Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk, IP32 7AR

la	aim.		
	01284 757500	Web	www.sealey.co.uk
	01284 703534	email	sales@sealey.co.uk

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