BOTTLE JACKS

MODEL NO: **SJ2.V4 SJ2BMC.V4 SJ3.V4 SJ5.V4 SJ5BMC.V4 SJ8.V4 SJ10.V4 SJ12.V4 SJ15.V4 SJ20.V4 SJ30.V5**

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

1. SAFETY

- ✓ The user shall work in accordance with the instruction handbook.
- ✓ The operator shall be provided with all necessary information about training and about pumping and translating forces
- ✓ It is necessary that the operator can watch the lifting device and the load during all movements.
- ✓ Inspect and lubricate the jack regularly to ensure it is in good working order and condition.
- × **DO NOT** use the jack if damaged or a fault is suspected - check Section 7 Troubleshooting. If necessary, immediately repair or replace damaged parts.
- ✓ *Use recommended parts only, the use of unauthorised parts may be dangerous and will invalidate your warranty.*
- ✓ Ensure the work area is clean, tidy and free from unrelated materials and has adequate lighting.
- ✓ Use jack on level and solid ground, preferably concrete. Avoid tarmacadam since jack may sink in.
- ✓ Park the vehicle and apply hand brake (if automatic, place in “Park” mode). Switch off the engine and place chocks under the wheels.
- ✓ Ensure a minimum distance of 0.5m between vehicle and static objects such as doors, walls, etc. to allow for tilting during jacking.
- ✓ Ensure all persons are out of the vehicle before jacking. **DO NOT** enter vehicle whilst it is supported on the jack or axle stands.
- ✓ Check vehicle weight and recommended lifting points by referring to the vehicle owner’s manual. Ensure the lifting point is not corroded.
- ✓ Check lifting point is centred and stable on jack saddle (off centre loads can slip). Position jack so as to avoid operating it from under vehicle.
- ✓ Keep all unauthorised persons away from the jack when lifting and lowering.
- ✓ The design provides the operator with a high degree of control, minimising the risk of sudden or uncontrolled descent when operated correctly.
- ✓ If more than 400N of effort is generated in lifting, the efforts shall be lowered by an additional person.
- ❑ **WARNING!** Use the jack for lifting only, NOT for supporting the lifted load. ALWAYS USE ADEQUATELY RATED AXLE STANDS.
- ✓ Keep hands etc. clear of moving parts during raising and lowering of the vehicle.
- ❑ **WARNING!** Roadside wheel changing is hazardous. Be extra vigilant, you may not be able to avoid jacking on tarmacadam. Get everyone out of vehicle. NEVER go under vehicle. Traffic may cause vehicle to rock. Use hazard warning lights. If in doubt call professional help.
- × It is not allowed to work under the raised load until it is secured by suitable means
- × This product is not designed for use in marine or offshore environments. Installation or operation on sea-going vessels shall only be permitted where compliance with relevant marine standards, environmental conditions, and corrosion protection requirements has been verified.
- ✓ The product shall only be used under environmental conditions that do not adversely affect its stability, positioning, or safe operation. Use in conditions where external forces, including wind, may introduce instability or unintended movement shall be avoided. When not in use, the product shall be positioned or secured to prevent displacement.
- ✓ Use a qualified person to lubricate and maintain the jack. Confirm that only recommended hydraulic jack oil is used during maintenance.
- × **DO NOT** exceed the rated capacity of the jack and **DO NOT** operate the jack beyond its maximum pump stroke.
- ❑ **WARNING! DO NOT** allow the vehicle to move, or try to start the engine, when the vehicle is jacked up.
- × **DO NOT** jack a vehicle if it may result in the spillage of fuel, battery acid, or other dangerous substances.
- ❑ **WARNING!** Remember, it is very dangerous to go under a vehicle supported by a jack even if additional supports are used.
- × **DO NOT** place any part of your body under vehicle whilst it is supported by the jack. Wait until adequately rated axle stands have been correctly positioned.
- × **DO NOT** use jack to support extensions or cradles.
- × **DO NOT** modify jack in any way. **DO NOT** use the jack for any other purpose.
- × **DO NOT** top up jack with brake fluid. Use Sealey hydraulic oil only (Part No: HJO500MLS or HJO5LS).
- × **DO NOT** allow untrained persons to operate the jack.
- × **DO NOT** remove any labels from the jack. If labels are damaged or unclear, replace them.
- × **DO NOT** operate the jack when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- × This product shall not be used in applications involving direct contact with foodstuffs unless expressly specified and validated in accordance with applicable food safety regulations. Where such contact may occur, appropriate protective barriers or certified materials shall be implemented.
- ✓ Ensure there are no persons or obstructions beneath the vehicle before lowering.
- ✓ Clean and securely stow the jack with the ram in the down position. **DO NOT** leave the ram extended.
- ✓ When not in use, store the jack in a safe, dry, childproof area.
- × **DO NOT** go under a vehicle unless it is supported by adequately rated axle stands. NOTE: Seek advice before jacking caravans or trailers.
- × The product shall not be used for the lifting or transportation of persons. Use for such purposes is strictly prohibited unless the equipment has been specifically designed, certified, and approved in accordance with applicable standards for personnel lifting.

NOTE: The A-weighted emission sound pressure level at the operator position is less than 70 dB(A).

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1.1. STATIC ELECTRICITY

1.1.1. The bottle jack does not typically generate significant static electricity; however, use in environments where static discharge could pose a hazard (e.g. flammable atmospheres) shall be avoided unless appropriate control measures are implemented in accordance with applicable safety requirements.

1.2. **FIRE HAZZARD**

1.3. Hydraulic oil presents a low fire risk under normal operating conditions. In the event of fire involving hydraulic oil, use foam, dry chemical powder, carbon dioxide (CO^2) or water spray as recommended in the hydraulic oil Safety Data Sheet. **DO NOT** use a direct water jet on burning oil.

2. INTRODUCTION

Base and reservoir machine welded for increased strength and reduced chance of leakage. Fitted with overload valve. Supplied with 2-piece handle. Model No's SJ12 to SJ50 fitted with carrying handle. Model No's SJ2BMC and SJ5BMC are supplied in a tough storage case and are suitable for recovery trucks. The case prevents the jack from damaging other items and also prevents the spread of grease, oil or dirt.

3. SPECIFICATION

In the table below the dimensions are cross-referenced to (fig.1).

Model No:		SJ2.V4	SJ2BMC.V4	SJ3.V4	SJ5.V4	SJ5BMC.V4	SJ8.V4
Applicable Standards:		EN 1494:2000+A1:2008					
Capacity:		2 Tonne		3 Tonne	5 Tonne		8 Tonne
Minimum Height:	A	158mm		180mm	200mm		200mm
Hydraulic Lift:	B	90mm		110mm	125mm		125mm
Screw Extension:	C	60mm		60mm	80mm		80mm
Maximum Height:	D	308mm		350mm	405mm		405mm
Nett Weight:		2.45kg	2.45kg	3.1kg	4kg	4kg	4.95kg

Model No:		SJ10.V4	SJ12.V4	SJ15.V4	SJ20.V4	SJ30.V5
Applicable Standards:		EN 1494:2000+A1:2008				
Capacity:		10Tonne	12Tonne	15Tonne	20 Tonne	30Tonne
Minimum Height:	A	200mm	210mm	230mm	235mm	260mm
Hydraulic Lift:	B	125mm	125mm	150mm	145mm	145mm
Screw Extension:	C	80mm			60mm	N/A
Maximum Height:	D	405mm	415mm	460mm	440mm	405mm
Nett Weight:		5.2kg	6.0kg	7.3kg	10.1kg	17.45kg

4. OPERATION

- ❑ **WARNING!** Operators shall ensure appropriate protective measures are in place during use. This may include the use of suitable personal protective equipment (PPE), such as safety footwear and gloves, to reduce the risk of injury from handling operations, load interaction, or accidental movement.
- ❑ **WARNING!** Ensure you prepare vehicle and use jack according to Section 1. Check that the ground upon which the jack will stand is level and solid.

4.1. WARNING! Before lifting ensure Section 1 Safety Instructions are followed strictly.

4.2. Before using the jack, purge the hydraulic system, in order to eliminate any air that may have accumulated during transit, referring to (fig.1) as follows:
a) Fit jack handle over release valve (1) and turn anti-clockwise to open valve.
b) Insert jack handle into the handle sleeve (2) and pump several times to ensure full internal lubrication and to bleed air from the system.
c) Fit jack handle back over the release valve (1) and turn clockwise to close.
Position the jack saddle (4) under the vehicle manufacturer's recommended lifting point. Position jack so as to avoid having to operate it from under the vehicle and so that the handle can be moved up and down without hitting any part of the vehicle.

4.2.1. Using the screw extension as necessary, raise the saddle to the lifting point. Ensure that the saddle is centred correctly beneath the lifting point.

4.2.2. Pump the handle up and down using the full stroke until the required lift is achieved.

4.2.3. Should the jack become overloaded, a safety overload valve will open, and stop the vehicle from lifting.

4.2.4. Lower the vehicle onto suitable axle stands before attempting any work.

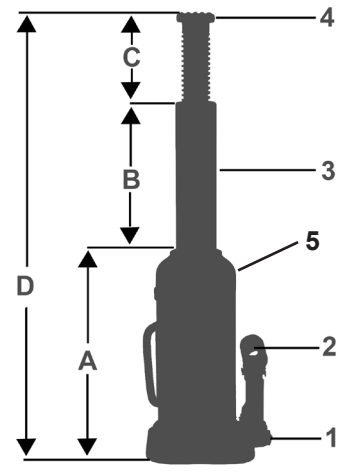
4.3. LOWERING

4.3.1. Ensure that the axle stands are removed and that there are no persons or obstacles beneath the vehicle, or in the path of its descent.

4.3.2. The unit is equipped with a descent control system to ensure smooth lowering. Turn the

4.3.3. release valve (1) anti-clockwise and lower slowly and carefully.

fig.1



1. Release Valve
2. Handle Sleeve
3. Ram
4. Saddle
5. Oil filling port

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NOTE

When lifting a load using the bottle jack, the position of the load's centre of gravity shall be carefully considered. The jack shall be positioned so that the lifting point is directly aligned with the centre of gravity of the load. Incorrect positioning may result in instability, tilting, or sudden movement of the load, creating a risk of injury or equipment failure.

5. MAINTENANCE

IMPORTANT: Jacks shall be maintained and repaired in accordance with the manufacturers instructions. Such maintenance and repair shall be carried out by qualified persons.

5.1. The bottle jack shall be subject to regular inspection and maintenance to ensure safe operation. A visual check shall be carried out before each use to identify any obvious defects, including leaks, damage, or deformation. Periodic maintenance inspections shall be performed at intervals determined by frequency of use and operating conditions, but at least annually. More frequent inspections shall be carried out where the jack is used intensively or in harsh environments.

NOTE: Use Sealey quality hydraulic jack oil, Model No.s HJO500MLS / HJO5LS to top up or replace the hydraulic fluid.

5.2. Regular inspection and maintenance shall be carried out to ensure safe operation. This shall include checking for fluid leakage, structural damage, wear, and proper functioning of mechanical components. The jack shall not be used if defects are identified until appropriate corrective action has been taken.

5.3. Keep the jack clean and lubricate all moving parts with acid free oil on a regular basis.

5.4. To check oil level, lower the jack fully. Remove filler plug. The correct oil level is to the bottom of the filler opening.

5.5. After a year of extensive use, the oil should be replaced in order to extend the life of the jack. Drain the oil through the filler plug opening. Make sure that no dirt is allowed to enter the jack or the fresh oil.

5.6. To replace the oil, fill as required. Pump (unloaded jack) 5 or 6 times to expel air. Pump jack to full height and pour off excess oil before refitting plug.

NOTE: Ensure waste oil is disposed of in accordance with local authority regulations.

× **DO NOT** use the jack if believed to have been subjected to abnormal load or shock. Inspect and take appropriate action.

5.7. Check the pump piston and piston rod periodically for signs of corrosion. Clean exposed areas with a clean oiled cloth.
Owing to their size and weight, hydraulic products should ideally be repaired by local service stockist. 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.

NOTE: No modifications shall be carried out which adversely affect the compliance of the jack with this standard.

5.8. Regularly check that all labels and markings on the machine are still present, readable, and unchanged from their original condition.

6. OIL SPILLAGE

In the event of hydraulic oil spillage, the affected area shall be contained and cleaned immediately using suitable absorbent materials. Contaminated materials shall be disposed of in accordance with applicable environmental regulations. Measures shall be taken to prevent slip hazards and environmental contamination. The source of the leak shall be identified and rectified before the bottle jack is returned to service.

When refilling the hydraulic system, the characteristics of the hydraulic fluid used in the jack and the level of hydraulic fluid as it is given by the manufacturer shall be observed.

7. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Jack will not lift the load	1) Overloaded 2) Oil level low 3) Release valve not correctly closed 4) Air in system 5) Packing worn or defective	1) Be sure to use jack with adequate capacity 2) Top up oil level 3) Check and close release valve 4) Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 5) Return jack to authorised service agent
Jack does not lift high enough or feels "spongy"	1) Oil level low 2) Worn seals 3) Air in system 4) Release valve not closed	1) Top up oil level 2) Return jack to authorised service agent 3) Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 4) Check and close release valve
Jack lifts but will not hold load	1) Release valve partially open 2) Dirt on valve seats 3) Air in system 4) Faulty seals	1) Check and close release valve 2) Lower jack, close release valve. Pull up lifting arm to full height by hand. Open the release valve to lower arm 3) Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 4) Return jack to authorised service agent
Jack will not lower completely	1) Ram damaged 2) Air in system 3) Release valve partially open	1) Contact authorised service agent 2) Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 3) Check and fully open release valve

8. TRANSPORT AND STORAGE

8.1. When the jack is not in use, the ram and piston must be in their lowest positions to minimise corrosion. Remove the handle to secure the jack.

8.2. The bottle jack shall be transported and handled in a manner that prevents mechanical damage or contamination. During storage, the product shall be kept in a clean, dry environment and protected from corrosion, impact, and unauthorized use. The jack shall be stored in an upright position where practicable to avoid oil leakage.

8.3. **MANUAL HANDLING**

8.4. Before lifting or carrying the bottle jack, assess its weight and use safe manual handling techniques.

8.5. All models are fitted with a carrying handle. The carrying handle shall be used when transporting the bottle jack.

8.6. Ensure the carrying handle is securely gripped before moving the jack.

8.7. Where the weight of the bottle jack presents a manual handling risk, assistance or suitable lifting equipment shall be used.

9. HANDLING OF LOADS

9.1. The bottle jack shall only be used to lift loads that are stable, evenly distributed, and within its rated capacity. Loads that are unstable, off-centre, or liable to shift during lifting shall not be handled, as these may lead to loss of stability or sudden load displacement.

9.2. The bottle jack shall be positioned only at suitable, designated lifting points on the load. These points are typically specified by the load or vehicle manufacturer. Where provided, diagrams or markings shall be followed to ensure correct placement of the jack and any additional lifting equipment. Incorrect positioning may lead to damage to the load or unsafe lifting conditions.

10. ACCIDENT OR BREAKDOWN

10.1. RETURN TO SERVICE FOLLOWING AN ABNORMAL CONDITION

10.2. Following any abnormal condition (e.g. jack displacement or instability), the bottle jack shall first be made safe using appropriate secondary lifting equipment. The jack shall be inspected for damage or malfunction before being returned to service, and shall not be reused unless its safe condition has been verified.

11. END OF LIFE

11.1. Before decommissioning, the bottle jack shall be fully unloaded and depressurised. Residual hydraulic fluid shall be handled and disposed of in accordance with applicable environmental regulations. Hazards during decommissioning may include fluid release, manual handling risks, and sharp edges; appropriate precautions shall be taken to mitigate these risks.

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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505. **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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