



LOW PROFILE PROFESSIONAL TROLLEY JACK WITH ROCKET LIFT 3 TONNE

MODEL NO: **3100TB.V2**

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.



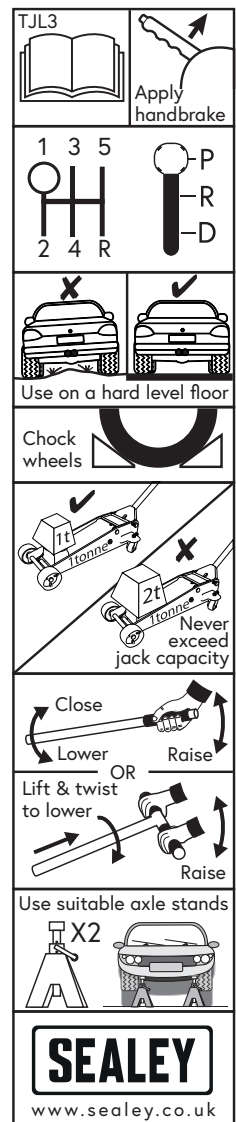
Refer to
instructions



Wear safety
footwear

1. SAFETY

- ❑ **WARNING!** ALWAYS USE AXLE STANDS
- ❑ **WARNING!** Please note that the handle socket of this jack is retained under tension and must be released before use. Caution should be taken when releasing, as the handle socket will suddenly raise to its upright position if not controlled.
- ✓ The user shall work only in accordance with this instruction manual.
- ✓ The operator shall be provided with all 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.
- ✓ 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 the jack may sink in.
- ✓ Chock the wheels of the vehicle.
- ✓ Ensure the vehicle handbrake is engaged, engine is switched off and transmission is in gear (or "PARK" if automatic).
- ✓ Ensure there is adequate space around the jack when operating or performing maintenance.
- ✓ Ensure a 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.
- ✓ This jack is for lifting vehicles. Ensure there are no passengers in the vehicle when operating.
- ✓ It is necessary that the operator can watch the lifting device 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.
- ✓ Ensure the jack wheels are free to move and that there are no obstructions.
- ▲ **DANGER:** Use the jack for lifting only, **NOT** for supporting the lifted load. Ensure there are no persons or obstructions beneath the vehicle before lowering.
- * It is not allowed to work under the raised load until it is secured by suitable means. Use suitable axle stands under the vehicle before proceeding with any task.
- ✓ Ensure that only hydraulic jack oil is used in the jack.
- ✓ Lifting of persons is prohibited.
- * **DO NOT** operate the jack if damaged.
- * **DO NOT** allow untrained persons to operate the jack.
- * **DO NOT** allow to come into contact with foodstuffs.
- * **DO NOT** operate on sea ships.
- * **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** top up hydraulic system with brake fluid. Use hydraulic jack oil only. (Sealey Part No: HJO500MLS or HJO5LS)
- * **DO NOT** adjust the safety overload valve.
- ✓ When not in use store jack, fully lowered, in a safe, dry, childproof area.
- ✓ If more than 400N of effort is generated in lifting, the efforts shall be lowered by an additional person.
- ✓ Jacks shall be maintained and repaired in accordance with the manufacturer's instructions. Such maintenance and repair shall be carried out by qualified persons. Use a qualified person to lubricate and maintain the jack.
- ✓ 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.
- ❑ **WARNING!** Environmental conditions such as wind, rain, or debris may affect jack stability and operator control.
- * **DO NOT** use the jack in adverse weather conditions.
- ✓ Fire fighting: Refer to MSDS.



2. INTRODUCTION

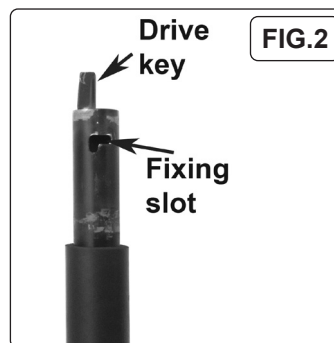
Dual piece hydraulic unit with heavy base design and large jacking pad for greater load stability. Lift-and-twist dead man's lowering mechanism operates via T-shaped handle providing a smooth, controlled lowering of the load helping prevent accidental lowering. Rocket Lift feature brings lifting arm into contact with jacking point with minimal pumps. Polyurethane wheels provide smoother manoeuvrability and help prevent damage to workshop floor. Protective jack handle sleeve helps prevent accidental damage to car bodywork when pumping the handle. Foot pedal for quick approach of the lifting saddle to the vehicle in confined spaces. Includes removable rubber saddle pad and built-in tool tray for fasteners and tools. 3 Year Guarantee - 2nd & 3rd year subject to T&C's and registration on website (www.sealey.co.uk).

3. SPECIFICATION

Model No:..... 3100TB.V2
Applicable Standards:..... EN 1494
Capacity:..... 3 Tonne
Consumable Parts:..... Jack Pad - 3100TB.A
Length:..... 825mm

Maximum Chassis Height: 175mm
Maximum Saddle Height: 550mm
Minimum Saddle Height: 95mm
Nett Weight: 45kg

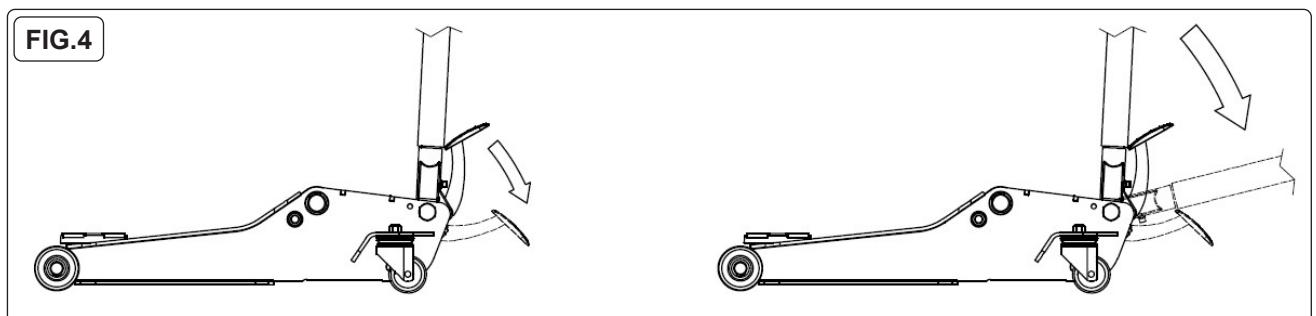
4. ASSEMBLY



- ❑ **WARNING!** Before use ensure you have read, understood and applied Section 1 Safety precautions.
- IMPORTANT:** Before use, the operator is to visually inspect the jack for cracked welds, damaged or missing parts or hydraulic leaks.
- 4.1. RELEASING THE RETAINING CLIP (FIG.1, 2 & 3)**
- 4.1.1. Seek assistance from a second person if required.
- 4.2. Line up the spring button in the upper part of the two piece handle with the hole in the lower piece handle (fig.1). Roll back protective sleeve to expose it if required, and engage button into the hole to fasten both halves together.
- 4.2.1. Fix the T bar handle to the top of the handle tube using the cap screw and nut supplied (fig.1).
- 4.2.2. The lower handle section slots into the cylinder drive mechanism. Align the fixing slot in the end of the shaft (fig.2) with the threaded hole in the mounting bracket.
- 4.2.3. Push down on the handle and hold down while unscrewing the handle fixing bolt (see fig.3 inside the white square) that is securing the handle socket in the down position.
- 4.2.4. Remove the clip from the handle fixing bolt and the lower chassis bar.
- 4.2.5. Gently, and in a controlled manner, slowly allow the handle and handle socket to raise to their upright position.
- 4.2.6. Replace the handle fixing bolt to secure the handle in the socket. Use the M6 bolt and spring washer to fix the handle to the pumping mechanism and tighten the bolt (fig.1).
- 4.2.7. Check engagement of the handle to the pumping mechanism and adjust it's location if needed.

5. OPERATION

- ❑ **WARNING!** Before use ensure you have read, understood and applied Section 1 Safety precautions.
- IMPORTANT:** Before use, the operator is to visually inspect the jack for cracked welds, damaged or missing parts or hydraulic leaks.
- ❑ **WARNING!** This jack is designed for lifting of vehicles. **DO NOT** use for any other purposes.
- 5.1. PURGING HYDRAULIC CIRCUIT**
- Before using the jack, purge hydraulic circuit in order to eliminate any possible air in the system by pulling the handle upwards and turning it anti-clockwise. **NOTE:** The handle has a self-returning device (Dead Man principle) which requires the user to hold the handle in position whilst in this position or lowering is taking place. Whilst in this position, pump the jack several times to ensure internal lubrication and to bleed any accumulated air from it. At the end of the last downward stroke shut the valve off again by rotating the handle clockwise.



- 5.2. LIFTING (FIG.4)**
- Pull the handle upwards and turn the handle clockwise to close the valve. Pump the handle up and down using maximum strokes until the vehicle reaches the desired working height. Using the foot pedal instead of the handle, the 'Rocket Lift' performance can be applied.
- NOTE:** should the jack become overloaded, a safety excess pressure valve will open, and stop the jack from lifting.

5.3. WEIGHT DISTRIBUTION

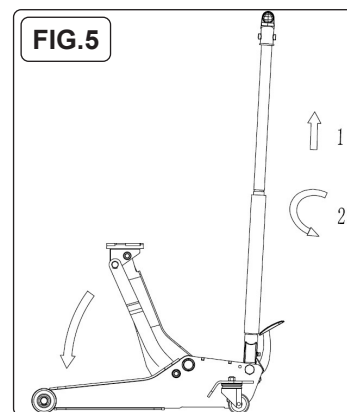
Up to 80% of the lifted load is carried by the front jack wheels placing exceptional stress on the point of contact with the supporting floor. For this reason use on a hard level concrete surface only.

5.4. LOWERING THE LOAD (FIG.5)

Pull the handle upwards and turn it anti-clockwise. **NOTE:** The handle has a self-returning device (Dead Man principle) which requires the user to hold the handle in position whilst lowering is taking place. The rate of lowering is governed internally by the jack.

- ❑ **WARNING!** Ensure there are no persons or obstacles beneath the vehicle, or in the path of its descent.
- ### 5.5. EMERGENCY

In the event of an emergency involving the jack, immediately stop all operations and ensure the area is clear to prevent further risk. **DO NOT** attempt to move or lower any suspended load until the equipment has been inspected by a qualified person. Where applicable, notify your supervisor and follow your workplace's emergency procedures. If there are any injuries or serious hazards, contact emergency services without delay. Clearly tag the equipment as "Out of Order" and prevent further use until it has been inspected, repaired, and confirmed safe for operation.



6. MAINTENANCE

IMPORTANT: Only fully qualified personnel should attempt maintenance or repair.

Jacks shall be maintained and repaired in accordance with the manufacturer's instructions. Such maintenance and repair shall be carried out by qualified persons. 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. Correct operation shall be confirmed before resuming normal use of the jack.

6.1. BEFORE EACH USE

Before each use check for broken, cracked, bent, or loose parts, or any visible damage to welds, ram, pump, saddle, lifting arm, frame and all parts including nuts, bolts, pins and other fasteners. If any suspect item is found remove jack from service and take necessary action to remedy the problem. **DO NOT** use the jack if believed to have been subjected to abnormal load or shock. Inspect and take appropriate action.

6.2. REFILLING THE HYDRAULIC SYSTEM

When refilling the hydraulic system, the characteristics and fluid level specified by the manufacturer must be strictly followed. To check the oil level, fully lower the jack. Remove filler plug (fig.6). The correct oil level should be approximately 5mm below the filler opening. If oil level is low, fill as required using a good quality jack oil, such as Sealey Hydraulic Jack Oil. Pump unloaded jack 15 to 20 times to expel air and then refit plug. **DO NOT** use brake fluid, or any fluid other than hydraulic jack fluid as this may cause serious damage to the jack and will invalidate the warranty!

6.3. CLEANING / MAINTENANCE

Keep the jack clean and lubricate all moving parts with oil on a regular basis. Periodically check the pump piston and piston rod for signs of corrosion. Clean exposed areas with a clean oiled cloth. Every three months remove the locking rings on the caster wheels and lubricate the ball bearings with acid free grease. After a year of extensive use, the oil should be replaced in order to extend the life of your jack. To drain the oil, remove the filler cap and valve. Make sure that no dirt is allowed to enter the hydraulic system's oil. Dispose of oil according to local authority regulations.

6.4. IN THE EVENT OF AN OIL SPILL

Refer to MSDS. Prevent spilled oil from spreading and, in particular, prevent it from getting into drains and waterways. Use absorbing material such as earth, sand, cat litter or commercial products.

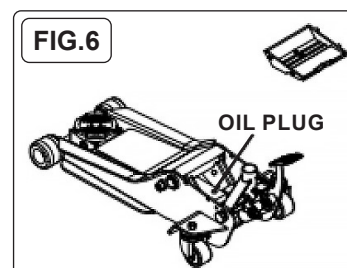
6.5. STORAGE / HANDLING

Store the jack, fully lowered, in a safe, dry, childproof area. Keep the ram in the lowest position to minimise corrosion. This will also increase stability as the centre of gravity will be at its lowest. Remove the handle to deactivate the jack. If the jack is to be transported, place it in the original packaging. Handle the item with care, using appropriate assistance if required.

IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THE JACK.

Hydraulic products are only repaired by local service agents. We have service/repair agents in all parts of the UK.

DO NOT RETURN JACKS TO US. Please telephone us on 01284 757500 to obtain the address and phone number of your local agent. If jack is under guarantee please contact your stockist.



7. TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | REMEDY |
|---|---|--|
| Jack will not lift the load. | Overloaded. | Be sure to use jack with adequate capacity. |
| | Oil level low. | Top up oil level. |
| | Release valve not correctly closed. | Check and close release valve. |
| | Air in system. | Check and close release valve and air vent (if fitted) and pump the handle 15 to 20 times. Close valve and re-try. |
| | Piston rod not functioning. | Clean and replace oil. |
| | Packing worn or defective. | Replace packing. |
| Jack does not lift high enough or feels "spongy". | Oil level too high or too low. | Fill or remove excess oil. |
| | Worn seals. | Return jack to local service agent. |
| | Air in system. | Open release valve and air vent (if fitted) and pump the handle 15 to 20 times. Close valve and re-try. |
| | Release valve not closed. | Check and close release valve and re-try. |
| Jack lifts poorly. | Pump packing or valves malfunctioning. | Replace packing and/or clean valves. |
| | Oil is dirty. | Replace oil. |
| | Air in the system. | Open release valve and air vent (if fitted) and pump the handle 15 to 20 times. Close valve and re-try. |
| Jack lifts but will not hold load. | Release valve partially open. | Check and close release valve. |
| | Dirt on valve seats. | Lower jack, close release valve. Place foot on front wheel and pull up lifting arm to it's full height by hand. Open the release valve to lower arm. |
| | Air in system. | Open release valve and air vent (if fitted) and pump the handle 15 to 20 times. Close valve and re-try. |
| | Faulty Seals. | Replace packing or contact local service agent. |
| | Packing worn or defective. | Replace packing. |
| Jack will not lower completely. | Unit requires lubrication. | Oil all external moving parts. |
| | Piston rod bent or damaged. | Replace rod or contact local service agent. |
| | Jack frame/link system distorted due to overloading/poor positioning. | Replace damaged parts or contact service agent. |
| | Air in system. | Open release valve and air vent (If fitted) and pump the handle 15 to 20 times. Close valve and re-try. |
| | Release valve partially open. | Check and fully open release valve. |
| | Jack spring damaged. | Replace spring or contact service agent. |
| Jack does not lower at all. | Release valve still closed. | Check and fully open release valve. |

If the above does not solve the problem contact your local Service Agent by checking www.sealey.co.uk.



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.



REGISTER YOUR PURCHASE HERE

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 36 months from purchase date, proof of which is required for any claim.

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