VERTICAL TRANSMISSION JACK

MODEL NO: **300TR.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


Warning!

1. SAFETY



- ❑ **WARNING!** Ensure all preliminary checks are carefully carried out before use of transmission jack. Immediately repair or replace damaged parts (use authorised service agent). Ensure use of genuine parts only. Non authorised parts may be dangerous and will invalidate the warranty.
- ❑ **DANGER!** The transmission jack must only be used and transported on level, solid ground, preferably concrete. Ensure the floor surface is swept clean before operation to maintain stability and safe movement. Do not use the jack on tarmacadam or any other soft or uneven surface, as it may sink or topple, leading to serious personal injury or death.
- ▲ **DANGER!** If transmission jack tips or leans **STOP** what your are doing. **MOVE QUICKLY TO A SAFE DISTANCE. DO NOT TRY TO HOLD OR STEADY TRANSMISSION JACK**. Serious personal or fatal injury may result.
- ✓ Use transmission jack in an adequate working area for its function, keep area clean & tidy and free from unrelated materials. Ensure there is adequate lighting.
- ✓ Before use ensure the gearbox weight and size does not exceed the capacity of the transmission jack.
- ✓ Ensure the vehicle is raised and stabilised at the correct height before attempting to move the transmission jack under the vehicle.
- ✓ Keep all unauthorised persons away from the transmission jack during lifting and lowering and when in transit.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non slip shoes.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain and/or tie back long hair.
- ❑ **WARNING!** Ensure load is placed level and centrally on transmission jack saddle and load is fixed in place before attempting to lift, lower, or transport.
- ✓ The operator shall be provided with all necessary information about training and about pumping and translating forces.
- ✓ The lowering speed will vary according to the weight of the load and the release valve setting.
- ✓ If more than 400N of effort is generated in lifting, the efforts shall be lowered by an additional person.
- ✓ Ensure the transmission jack saddle is fully lowered and is clean, dry, and oil free before attempting to move the transmission jack with or without a load.
- ✓ Diligence is required in ensuring that you continually monitor any operation until completed.
- ❑ **WARNING! DO NOT** operate transmission jack if any parts are damaged or missing.
- ❑ **WARNING!** It is not allowed to work under the raised load until it is secured by suitable means.
- ❑ **WARNING!** Static electricity can build up during operation, especially in dry conditions, posing ignition or shock risks. Proper grounding and use of antistatic materials are essential.
- × **DO NOT** exceed the rated capacity of the transmission jack.
- × **DO NOT** allow untrained persons to operate the transmission jack.
- × **DO NOT** place any part of your body within or under the transmission jack during use.
- × **DO NOT** raise or lower vehicle lifting platform whilst the transmission transmission jack is being used.
- × **DO NOT** transport the transmission jack, with or without a load, with the saddle in the raised position.
- × **DO NOT** get transmission jack wet or use in damp or wet locations or areas where there is condensation.
- × **DO NOT** operate the transmission jack when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- × **DO NOT** lift or support vehicles with transmission jack and **DO NOT** use transmission jack as a load sustaining device.
- × **DO NOT** use transmission jack for any purpose other than removal, transportation, installation of transmissions.
- × **DO NOT** move transmission jack without suitable restraint on the load.
- × **DO NOT** make any modifications to the transmission jack, and **DO NOT** adjust or tamper with safety valve.
- × **DO NOT** remove any labels from the transmission jack. If labels are damaged or unclear replace them.
- ✓ Use a qualified person to lubricate and maintain the transmission jack.
- × **DO NOT** use brake fluid to top up hydraulic unit. Use Sealey hydraulic oil only.
- ✓ Before storing in safe area, ensure all parts are clean, free of grease and oil (especially saddle). Lower saddle to the lowest position.
- ✓ The user shall work in accordance with the instruction handbook.
- ✓ It is necessary that the operator can watch the lifting device and the load during all movements.
- ✓ Vertical transmission jacks on sea ships must resist corrosion and vibration, operate only in stable conditions, and meet maritime safety standards.

© Jack Sealey Limited

Original Language Version

- ✓ Wind pressure must be considered during and after use; the transmission jack should not be operated in high winds, and when not in use, it must be secured or stored to prevent tipping or damage.
- ✓ Loads that are unstable, shifting, or poorly secured must be avoided, as they can cause sudden movements or transmission jack failure, leading to hazardous situations.
- ✓ Operation is limited in severe conditions such as extreme temperatures, freezers, or strong magnetic fields, as these can affect transmission jack performance, material integrity, and safety.
- ❑ **WARNING!** This transmission jack is not designed or approved for lifting or supporting persons under any circumstances. Using the transmission jack to lift people poses a serious risk of injury or death and is strictly prohibited.
- ✓ Sufficient space is required both for safe operation and for performing regular maintenance, ensuring easy access, stability, and proper handling of the transmission jack and load.
- ✓ The centre of gravity must be aligned with the transmission jack's lifting point to maintain balance and prevent tipping or load shift during operation.
- ✓ Users should implement safeguards such as securing the work area, maintaining safe distances, and using warning signs or signals to alert others. Personal protective equipment (PPE) and proper training are also recommended for safe operation.
- ✓ Reasonably foreseeable misuse includes overloading the transmission jack, using it on uneven surfaces, lifting non-designated items, or bypassing safety mechanisms, all of which can lead to equipment failure or injury.
- ✓ Use is limited by the transmission jack's IP and IK ratings; it should not be exposed to conditions exceeding its protection against dust, water (IP), or impact resistance (IK), as this may compromise safety and functionality.
- ✓ Use appropriate fire-fighting equipment such as CO_2 or dry powder extinguishers. Be aware of possible leakage of hydraulic fluid, which may be hazardous. In case of leakage, use absorbent materials and follow proper containment and disposal procedures.

2. INTRODUCTION

Manufactured to exacting standards, strong construction for durability and suitable for general workshop applications. Spring loaded dead man's safety release control reduces the risk of inadvertent lowering. 2-Way hydraulic unit ensures that the saddle lowers at a controlled speed at all times, even without load. Extra-large castors allow for increased manoeuvrability. Hydraulic units larger than the economy models for improved performance and durability. Can be fitted with optional Adjustable Gearbox Support - check specification in table.

3. SPECIFICATION

Model No:	**300TR.V2**
Applicable Standards:	EN 1494
Base Size:	606 x 547.5mm
Capacity:	300kg
Maximum Saddle Height:	1936mm
Minimum Saddle Height:	1125mm
Nett Weight:	26kg
Optional Accessories:	ADT3 - Adjustable Gearbox Support
Ram Extensions:	1



4. ASSEMBLY

Unpack the product and check all contents. If any parts are damaged or missing, contact your supplier immediately.

4.1. Assemble the wheels on both sides of the transmission jack base as shown in Fig. 1, using the supplied fixings.

4.2. Screw the legs to the base of the stand. Ensure the stand is at a right angle to a horizontal surface, then tighten the leg screws securely.

4.3. Place the saddle on the end of the hydraulic unit. (see fig.2).

4.4. Remove the transportation oil plug and replace it with the oil filler screw, which can be identified by a hole in the plug head (see fig.2).

fig.1

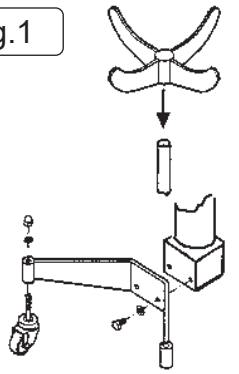


fig.2

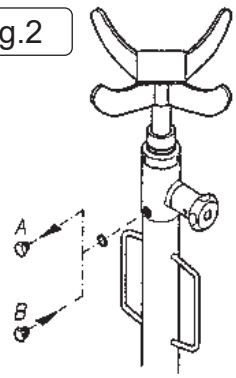
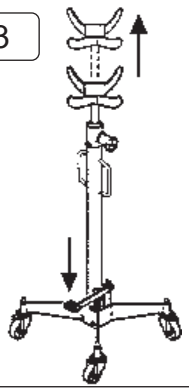


fig.3



5. PRE USE CHECKLIST

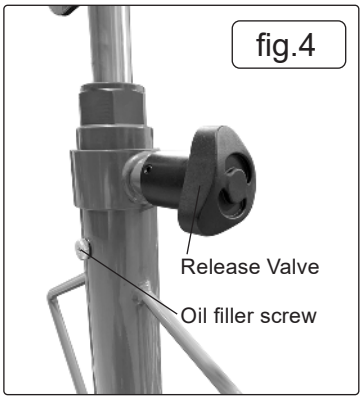
IMPORTANT: Before EACH use, check transmission jack is in sound working order, use following list to form a habitual pre-check procedure. Check unit for the following: Damage, Distortion, Leaning, Worn or missing components. The following must also be checked:

1	Saddle base
2	Piston rod
3	Cylinder/Hydraulic unit
4	Stopper rings and cotter pins
5	All nuts and bolts

6	All seals
7	Jack main frame
8	Foot pumps
9	Swivel castor wheels
10	Transport handle

© Jack Sealey Limited

❑ **WARNING! DO NOT** use transmission jack if any suspect part is found, or if believed to have been subjected to abnormal load or shock. Immediately remove from service and contact your authorised service agent.



6. OPERATION

❑ **WARNING!** Before use ensure you have read, understood and apply Section 1 safety instructions.

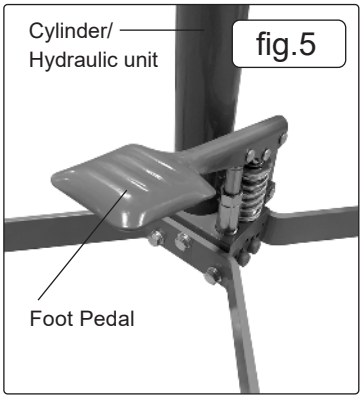
❑ **WARNING!** Ensure you prepare vehicle correctly before attempting to use the transmission jack.

6.1. BEFORE FIRST USE

6.1.1. Allow the transmission jack to stand for one hour to enable the oil to settle before purging the system.
NOTE: Failure to allow sufficient time for the oil to settle may result in air remaining in the hydraulic system. This can prevent the transmission jack from purging completely on the first attempt, and a second purge may be required.

6.1.2. Purge the hydraulic unit to remove any air from the system by turning the release valve counter-clockwise by half a turn, then pumping the foot pedal 15 to 20 times. (fig.5) This ensures proper hydraulic function before use.

6.1.3. Test the transmission jack without a load by raising it to its full height, (see fig.3) then lowering it. To lower the transmission jack, slowly turn the release valve (see fig.4). counter-clockwise to control the rate of descent.



6.2. POSITIONING TRANSMISSION JACK BENEATH LOAD

Before use ensure the transmission weight and size does not exceed the capacity of the transmission jack.

6.2.1. Ensure the vehicle from which the gearbox is to be removed is correctly positioned, handbrake applied and raised to allow the transmission jack to be positioned correctly.

6.2.2. Ensure there are no other persons around or underneath the vehicle. Make sure the saddle is in its lowest position, then use the handle to transport and centrally position the transmission jack beneath the vehicle transmission.

6.2.3. Pump the transmission jack foot pedal to raise the saddle (fig.5). When the saddle is just beneath the transmission, re-adjust the alignment if necessary to ensure it is centrally positioned.

6.3. LOWERING THE LOAD

❑ **WARNING!** Ensue the load is central and stable on the transmission jack saddle and load is fixed in place before attempting to lift, lower, or transport. SLOWLY turn the release valve knob anti-clockwise to GENTLY lower saddle to the lowest minimum height before attempting to transport load. (fig.4)
IMPORTANT: The unit is fitted with a “Dead Man” release valve. The quicker the valve knob is turned the more rapid the transmission jack’s descent. Ensure the transmission jack’s descent is slow and controlled to avoid the risk of sudden dropping which could be dangerous. The valve will automatically return to the closed position when the knob is released.

❑ **WARNING!** Dangerous dynamic shock loads can occur if the release valve is opened or closed too quickly while lowering a load. This sudden action may result in an overload, potentially causing hydraulic system failure, which could lead to property damage and/or severe personal injury.

6.4. TRANSPORTING THE LOAD

❑ **WARNING!** Ensure you have read, understood and apply Section 1 safety instructions.

6.4.1. Ensure the transmission jack saddle is fully lowered and load is fixed in place before attempting to lift, lower, or transport.

6.4.2. Be diligent in continually monitoring the load in transit. Keep all other persons at a safe distance.

6.5. RE-INSTALLING A GEARBOX

To transport, reposition beneath a vehicle, and raise a load up, reverse the procedures outlined above.

7. MAINTENANCE

IMPORTANT: Maintenance and repairs must only be carried out by fully qualified personnel and in strict accordance with the manufacturer’s instructions. Before use, perform a thorough visual inspection for damage or wear, ensure all controls and safety devices function correctly, check fluid levels and for leaks, verify load capacity and stability on solid ground, keep moving parts lubricated, maintain cleanliness, and confirm that operators are properly trained and equipped with necessary safety gear.

7.1. When the transmission jack is not in use, ensure the saddle is fully lowered to minimise ram and piston corrosion. Store the jack in a dry location with the saddle in its lowest position.

7.2. Keep the jack clean and free from oil or grease build-up. Lubricate all moving parts, especially pivot points, axles, hinges, castors, foot pedal, and pump assemblies, with acid-free, light lubricating oil to prevent rust and ensure smooth operation. Reapply lubrication periodically as needed.

7.3. With the jack in its lowest position, remove the (Fig. 4) to check the hydraulic oil level. If the level is low, top up with high-quality hydraulic jack oil as needed. Reinsert and tighten the securely. Then purge air from the hydraulic system as described in Section 6.1 – Before First Use.

7.4. When refilling the hydraulic system, the characteristics of the hydraulic fluid used in the jack and the fluid level specified by the manufacturer must be observed.

7.5. The oil cylinder is a sealed unit and must not be opened or tampered with. For servicing, contact your authorised stockist.

❑ **WARNING! Only a good quality transmission jack oil, such as SEALEY HYDRAULIC JACK OIL must be used, DO NOT use brake fluid.**

7.6. Before each use, follow the pre-check list to ensure components are in good working order. If any suspect item is found remove transmission jack from service and take necessary action to remedy the problem.

× **DO NOT** use the jack if you believe it has been subjected to an abnormal load or shock. If in doubt contact your local service agent.

7.7. Periodically check the pump piston and piston rod for signs of corrosion. Clean exposed areas with a clean oiled cloth.

✓ The typical lifetime of a transmission jack depends on usage, maintenance, and quality, but generally, a well-maintained transmission jack can last 10 to 15 years or more. Regular inspections, proper storage, and timely servicing are key to maximizing its lifespan.

✓ For spare parts, please refer to the spares page at the end of this instruction manual.

© Jack Sealey Limited

7.8. IN AN EVENT OF AN OIL SPILLAGE

Act immediately to contain and clean the affected area. Use absorbent materials such as sand, sawdust, or commercial spill granules to soak up the oil. Collect and dispose of contaminated materials in accordance with local hazardous waste regulations. Clean the surface thoroughly with a suitable degreaser to prevent slipping hazards. Avoid allowing oil to enter drains or watercourses, report significant spills to the appropriate environmental authority if required.

7.9. WASTE REMOVAL AND DISPOSAL

When the transmission jack reaches the end of its service life, it must be dismantled and disposed of responsibly. Before scrapping, disable the unit by releasing all hydraulic pressure and removing any fluids according to local environmental regulations. Separate components such as metal, rubber, and plastics for recycling where possible. Dispose of hydraulic oil and other hazardous materials through authorised waste disposal facilities to minimise environmental impact. Consult local guidelines for proper handling and recycling procedures.

IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THE TRANSMISSION 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 01284 757500 to obtain address and 'phone number of your local agent. If transmission jack is under guarantee please contact your stockist.

De-commissioning the transmission jack: Should the transmission jack become completely unserviceable and require disposal, draw off the oil into an approved container and dispose of the transmission jack and the oil according to local regulations.

8. TROUBLESHOOTING

IMPORTANT! Although the following may identify a problem, we recommend the problem be resolved by an authorised service agent.

PROBLEM	CAUSE	SOLUTION
Jack will not lift	No hydraulic oil, or defective suction valve or delivery valve Release valve is open.	Contact authorised service agent. Close release valve.
Jack will only lift halfway	Hydraulic oil low, or excess of hydraulic oil.	Top up hydraulic oil. Contact authorised service agent.
Raised load will not hold	Defective valves, or defective piston packing	Contact authorised service agent.
Poor lifting	Defective plunger packing.	Contact authorised service agent.

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

Jack Sealey Ltd t/a Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk, IP32 7AR UK
Jack Sealey (EU) Ltd t/a Sealey Group, Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland
Tel: 01284 757500 • **Email:** sales@sealey.co.uk • **Web:** www.sealey.co.uk

© Jack Sealey Limited