Pro-Tech TOOLS

Engine and gearbox lifter 500kg



Instructions for use

Translation of the original instructions

Please read these instructions thoroughly before first use. It is the user's responsibility to familiarise themselves with all the instructions necessary for safe use and operation and to understand all the risks that may arise during the operation of the equipment.

WARNING !!!

The first start-up of this device is a legal step within the meaning of these instructions, in which the user freely and without coercion acknowledges that he has carefully read these instructions, understood their meaning and acquainted himself with all their implications.

The hydraulic transmission work jack is a very useful device for dismantling and assembling vehicle transmissions, as well as suspension components, shock absorbers, silencers, engine silentblocks, etc.

Designation

The hoist is designed for lifting and cannot be used for other purposes. Before use, find out the weight of the load to be lifted, it must not exceed the maximum lifting capacity of the hoist. The hoist must be placed in the centre of gravity of the object to be lifted and placed on a hard and level surface. Secure the lifted load against shifting, e.g. apply the handbrake in the car and support the wheels.

Safety rules

- Before using the hoist, check that the hoist is serviceable. Repair or replace damaged parts. Make sure that you use only original parts or their exact equivalents.

- Place the jack on a flat and firm surface, preferably concrete.

- Keep the workplace clean and make sure it is well lit.

- Before use, make sure that the weight and dimensions of the gearbox do not exceed the lifting capacity of the hoist.

- Make sure the jack height is set to the correct level before use.

- No one should be on site except the person operating the hoist.

- Before moving or transporting the jack with or without a load, make sure the saddle is fully lowered, clean, dry and free of signs of oil.

- Make that the subsoil is stable. In addition, wear non-slip footwear.

- It is forbidden to wear ties, watches, rings and other jewellery when working with the hoist.

- **WARNING! BEFORE LIFTING, MAKE SURE THE LOAD IS POSITIONED STRAIGHT AND CENTERED ON THE SADDLE AND IS WELL SECURED.**

- The speed of lowering the load varies according to its weight and dimensions.

- If you hear any "strange" noises while working, stop using the hoist immediately.

- DO NOT use the hoist if any part is damaged.

- DO NOT use the hoist if the load is heavier than the load capacity of the hoist.

- DO NOT raise or lower the lifting saddle while the jack is positioned under the transmission.

- DO NOT operate the hoist with or without a load and with the saddle raised.

- DO NOT allow the jack to be exposed to rain or moisture.

- DO NOT use the hoist if you are tired, under the influence of drugs, alcohol, or other substances.

- DO NOT use the hoist as a lifting and supporting tool, or a load supporting tool.

- DO NOT use the jack for any purpose other than disassembly, transport, or installation of the transmission.

- DO NOT modify the jack in any way. Any modifications to the hoist made by the user voids the warranty!

- DO NOT adjust the relief valve.

- DO NOT remove any stickers from the jack. If the labels are illegible, replace them with new ones.

Installation

Unpack the product and check that it is complete. If parts are damaged or missing, contact the supplier.

1. Fit the wheels.
2. Bolt the legs to the jack base and check that the position of the jack is stable and level, then tighten the bolts on the jack legs.
3. Place the saddle on the post.

Operating Instructions

WARNING! BEFORE USE, MAKE SURE THAT THE WEIGHT AND DIMENSIONS OF THE LOAD DO NOT EXCEED THE LIFTING CAPACITY OF THE HOIST.

1. POSITIONING THE JACK UNDER THE LOAD

- Make that the vehicle from which the gearbox is to be removed is correctly positioned, lifted and secured.
- Make there are no persons under or around the vehicle.
- Make sure the saddle is in the lowest . Using the handle, move the jack and position centrally under the gearbox.
- Raise the saddle by pumping the foot pedal.
- With the saddle just below the gearbox, align it so that the centre of gravity of the gearbox and saddle are aligned.

2. LOWERING THE LOAD

- Note: Before lifting, lowering, transporting, make sure the load is stable, centered on the saddle and secured to it.
- Slowly turn the valve counterclockwise and lower the saddle slightly to the minimum height before transporting.

- NOTE: The lowering speed is controlled by a safety valve - the faster the valve is unscrewed, faster the hoist lowers.

3. FREIGHT TRANSPORT

- Before transporting the load, make sure the saddle is fully lowered and the load is secured.
- Transport the load on a flat and firm surface, preferably concrete.
- Keep a close eye on the load during transport.
- When lifting the load, make that no one approaches the hoist.

4. REASSEMBLY OF THE GEARBOX

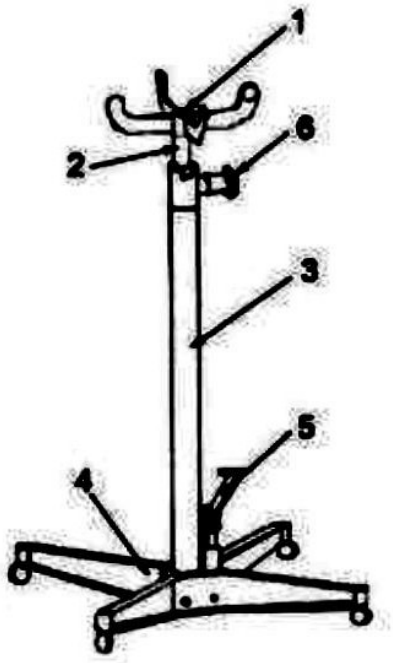
To transport the load, it must be placed back under the vehicle and lifted, reversing the above steps.

Maintenance

- When the jack is not in use, the saddle must be in the lowest .
- Clean the jack, remove any grease stains. Lubricate all moving parts with oil.
- The cylinder is sealed and cannot be accessed. For repair or replacement of the cylinder, contact the service department.
- Before each use, check the hoist for damaged parts.
- Periodically check the piston and pump piston rod for rust.

- Clean the outer parts with a clean cloth moistened with oil.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The jack does not lift	1. Lack of hydraulic oil, damaged suction or pressure valve. 2. The drain valve is open.	1. Contact service. 2. Close the drain valve.
The hoist only lifts halfway	Too little or too much hydraulic oil.	Check the oil. Contact service.
The lifted load does not hold	Damaged valves housing.	Contact service.
The hoist lifts badly	Damaged piston pin housing / piston rod /.	Contact service.



1. Saddle

2. Piston

3. Hydraulic cylinder

4. Stand with wheels

5. Pump pedal

6. Drain valve

Technical data:

Load capacity: 500 kg
Minimum height: 1050 mm
Maximum height: 1820 mm
Lift height: 770 mm
Shift with four metal wheels Weight:
30 kg