



COMPETITION

BEDIENUNGSANLEITUNG - NOTICE D'UTILISATION - OPERATING INSTRUCTIONS



512.5005

-  COMPETITION Hydraulischer Getriebeheber, 500 kg
-  Vérin de fosse COMPÉTITION, 500kg
-  COMPETITION Hydraulic transmission jack, 500 kg
-  COMPETITION Elevador hidráulico de cajas de cambios, 500 kg
-  COMPETITION Sollevatore da fossa idraulico, 500 kg
-  COMPETITION Hydraulisk gearkasseløfter, 500 kg
-  COMPETITION Podnośnik z przekładnią hydrauliczną, 500 kg
-  COMPETITION Hydraulische V-bakkrik, 500 kg
-  COMPETITION Гидравлический подъемник для коробки передач, 500 кг
-  رافعة نواقل حركة هيدروليكية، سعة 500 كغ COMPETITION

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KS Tools Werkzeuge und Maschinen GmbH • Seligenstädter Grund 10 –12 • 63150 Heusenstamm - GERMANY
e-mail: customerservice@competitiontools.com • www.competitiontools.com

KS Tools • PDA Région de Brumath • 1, rue de Londres • 67670 Mommenheim - FRANCE
e-mail : contact@competitiontools.com • www.competitiontools.com



Introduction

Dear customer!

We are very pleased that you decided to purchase this product from KS Tools. Thank you for your confidence in us. You can find all the information you need in these operating instructions. Please read the instructions completely with care and observe the advice given. The operating instruction is part of the item and should be kept intact.

If you have any uncertainties or further questions, please contact:
customerservice@competitiontools.com

1. Provisions for use

The manufacturer is not liable for personal injuries and material damages which result from improper use.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. Pay heed to the vehicle manufacturer's specifications!

2. Technical data

max. Capacity	0,5 t
Lift height min.	1110 mm
Lift height max.	1925 mm
Stroke way	815 mm
Weight	24 kg
Product dimensions LxWxH	600x620x1155 mm
Type of tire	Steel

3. Safety and usage instructions

Tools may in principle only be used for the purpose intended, under the conditions envisaged and within the limitations as to their use.

Save these instructions. For your safety, read, understand, and follow the information provided with and on this product before using. The owner and/or operator of this equipment shall have an understanding of safe use/operating procedures before attempting to use. The owner and/or operator shall be aware that the use of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this device is authorized. If any doubts exists as to the safe and proper use of this product as outlined in this factory authorized manual, remove from service immediately.



Inspect before each use. Do not use if broken, bent, cracked, or damaged parts (including labels) are noted. If the product appears damaged in any way, operates abnormally or is missing parts, it should be removed from service immediately and the manufacturer notified. If you suspect that the product was subjected to a shock load (a load suddenly dropped unexpectedly upon it), immediately discontinue use until product has been checked by a factory authorized service center. It is recommended that an annual inspection be done by qualified personnel.



WARNING

1. INSPECT THE TRANSMISSION JACK BEFORE EACH USE. DO NOT USE THE TRANSMISSION JACK IF IT IS DAMAGED, ALTERED, MODIFIED, IN POOR CONDITION, LEAKING HYDRAULIC FLUID, OR HAS LOOSE OR MISSING HARDWARE OR COMPONENTS. TAKE CORRECTIVE ACTION BEFORE USING THE TRANSMISSION JACK.
2. DO NOT EXCEED RATED CAPACITY. USE ONLY ON A HARD LEVEL SURFACE.
3. STAY OUT FROM UNDERNEATH A LOAD THAT IS BEING LIFTED OR SUSPENDED.
4. APPLY LOAD AS CLOSE TO THE VERTICAL PORTION OF THE LIFTING MEMBER AS POSSIBLE.
5. NO ALTERATIONS OR MODIFICATIONS SHALL BE MADE TO THIS PRODUCT.

4. Product description

This Hydraulic transmission jack is designed to facilitate the removal and installation of Components / e.g. transmission on Passenger cars, Utility vehicles and trailers. It is ONLY intended for lifting and lowering a vehicle.



NEVER load this appliance with more than the maximum specified weight!

4.1 Bleeding / Venting Trapped Air

4.1.1 Procedure for bleeding

During transport or after topping up oil, air can enter the hydraulic system and cause poor lifting performance. In this case, the system must be bled as follows:

1. Turn the drain valve anticlockwise all the way to open the drain valve completely.
2. Pump the handle several times (ca. 15x) rapidly.
3. Turn the drain valve clockwise all the way to close the drain valve.
4. Pump the handle until the lift arm has reached its maximum height and pump a few more times to release the trapped air.
5. Turn the drain valve anticlockwise all the way to lower the lift arm to the lowest position. It may be necessary to apply pressure to the lift arm.
6. Turn the drain valve clockwise to the closed position and check that the lifter is working correctly.

Repeat the steps until the lifting performance has been fully restored.



5. Operation

5.1 Vehicle Preparation

1. Place vehicle on a hard, level surface, such as reinforced concrete, large enough to accommodate vehicle, jacks, jack stand and wheel dolly.
2. Chock all unlifted tires in both directions AND take every precaution necessary to ensure the set up is stable and will prevent all inadvertent vehicle movement.

5.2 Lifting the transmission jack

1. Position the transmission jack so that the saddle is centred and makes firm contact with the load application point.
2. Pump the lifter to raise it until the saddle is in contact with the component. Check that the saddle is centred and makes firm contact with the load lifting point.
3. Continue pumping to raise the component to the desired height.

5.3 Lowering the transmission jack

Carefully open the drain valve by slowly turning it anticlockwise.

6. Maintenance

Incorrect or defective replacement parts can lead to damage.

IMPORTANT: Use only a quality grade hydraulic jack oil. Avoid mixing different types of fluid and **NEVER** use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause failure of the jack and the potential for sudden and immediate loss of load.

6.1 Adding oil

- Place the transmission jack on a level surface and lower the lift arm completely.
- Remove the bleed screw.
- Fill the oil reservoir until the oil level is just below the lower edge of the oil filler opening.
- Refit the bleed screw. Bleed the transmission jack as described above.

6.2 Changing oil

- Open the drain valve completely by turning the handle anticlockwise as far as it will go. Remove the bleed screw.
- Place the transmission jack on its side so that the old oil drains out of the oil filler opening and the liquid can be drained into a suitable container.

Note: Dispose of the hydraulic fluid in accordance with local regulations.

- Fill in new oil through the oil filler opening.
- Keep dirt and other materials away when filling.
- Fill the oil to just below the bottom edge of the hole.
- Refit the bleed screw.
- Bleed the transmission jack as described above.



6.3 Lubrification

A periodic coating of light lubricating oil to pivot points will help to ensure that pump piston linkages move freely.

6.4 Cleaning

Periodically check the pump piston and other components for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

Note: Never use sandpaper or abrasive material on these surfaces.

6.5 Storage

Store the jack with the Lifting arm fully lowered.

7. Troubleshooting

Symptom	Possible Causes	Corrective Action
Hydraulic unit will not lift load	Release valve is not tightly closed	Ensure release valve is tightly closed
	Overload condition	Eliminate overload condition
Hydraulic unit will lift, but not maintain pressure	Release valve is not tightly closed	Ensure release valve is tightly closed
	Transmission jack malfunction	
Hydraulic unit will not lower after unloading	Linkage stuck	Clean and lubricate moving parts
Poor lift performance	Fluid level low	Ensure proper fluid level
	Air trapped in system	Bleed the transmission jack as described
Hydraulic unit will not lift to full extension	Fluid level low	Ensure proper fluid level

8. Checks

All tools are to be checked for damage.



9. Disposal

The tool is to be disposed of or recycled in accordance with the legislation of the respective country.

10. Guarantee

The KS Tools Werkzeuge und Maschinen GmbH guarantee applies for all tools that are used under normal usage conditions.

The following are excluded from the guarantee:

- **Consumables** e.g. any type of cutting tools, cutting inserts and disks, cutting and scraping tools, brooms, brushes, files, batteries, bits or bit sockets, rotor blades in pneumatic devices, isolators on heating coils, any type of fuses, carbon brushes, etc.
- **Faulty functioning** of parts that show usage-related or other natural wear and tear, as well as tool defects that can be traced back to usage-related or other natural wear and tear.
- **Defects** in the tool that can be traced back to a failure to observe the operating instructions, improper use, use under abnormal environmental conditions or unsuitable operating conditions, overloading or improper maintenance.
Also defects in tools caused by the use of accessory parts or other parts that are not KS Tools original parts.
- Tools which have been modified or equipped with additions.
- Minor deviations from the intended quality that are however insignificant for the value and suitability for use of the tool.

The guarantee period is 12 months in cases of industrial or equal use.

The guarantee period starts on the date of purchase by the commercial end customer. The date of the original purchase receipt is decisive. For technical products with limited guarantee types A, B and C, the user must principally submit the purchase receipt in addition to the serial number of the device, if present.

The guarantee applies under consideration of the guarantee type for the duration specified in the price list valid on the day the product was purchased.

If no guarantee claim exists for the product (expiration of the guarantee time, guarantee exclusion for the reasons listed in Sec. 2) but the repair is still possible, this will only be carried out following approval of the cost estimate by the user.



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GERMANY

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