WEBER UK LIMITED

# HEAVY DUTY TRANSMISSION JACKS



**FEATURING:**

- A HYDRAULIC PUMP FITTED WITH AN AUTOMATIC RELIEF VALVE TO PREVENT OVERLOAD.
- CHROME PLATED PISTON ROD ON RAM AND PUMP.
- SMOOTH HYDRAULIC OPERATION FOR PRECISE RAISING AND LOWERING.
- SENSITIVE LOAD LOWERING BY HAND OPERATED RELEASE.
- EASY MANOEUVRING AND POSITIONING WITH FOUR HEAVY DUTY BALL BEARING SWIVEL CASTORS. TWO WITH DIRECTIONAL LOCKS AND HEAVY DUTY CAST IRON WHEELS.
- FOUR FIXED HANDLES FOR EASE OF PRECISE MOVEMENT.
- TWO POSITION MAIN HANDLE FOR EASE OF GENERAL MOVEMENT.

# HEAVY DUTY TRANSMISSION JACK

This range of Transmission Jacks, permits easy one-man transmission removal and replacement.

These units are ideal for handling other assemblies.

The Jack is fitted with four swivel heavy duty Cast Iron wheeled castors. The two front castors are fitted with DIRECTIONAL LOCKS, which enable the Jack to be moved forward or sideways with ease.

The castors are widely spaced and fitted with BALL BEARINGS for exceptional stability and mobility.

The Jack is fitted with a flat plate head. It is adjustable for complete tilting and has four adjustable arms to stabilize the unit being removed. The head comes complete with a ratchet and web lashing to retain load on lifting head.

The Transmission Jack is fitted with a heavy duty handle for ease of movement. The handle can be locked vertical or in the horizontal position.

There are four fixed handles for ease of precise sideway adjustment.

The Transmission Jack is fitted with a heavy duty double acting hydraulic pump. The handle can be vertical for ease of pumping outside the vehicle or horizontal when working underneath a vehicle.

## SPECIFICATION

| **Model No.** | **CTJ 1000** | **CTJ 1500** | **CTJ 2000** |
|---|---|---|---|
| CAPACITY | 1000 kg | 1500 kg | 2000 kg |
| LENGTH | 1320 mm | 1320 mm | 1320 mm |
| WIDTH | 740 mm | 740 mm | 740 mm |
| HEIGHT OF TABLE (LOWERED) | 235 mm | 235 mm | 235 mm |
| WITH STABILIZER FITTED | 360 mm | 360 mm | 360 mm |
| HEIGHT OF TABLE (RAISED) | 810 mm | 810 mm | 810 mm |
| WITH STABILIZER FITTED | 990 mm | 990 mm | 990 mm |
| WEIGHT (Approx.) | 170 kg | 190 kg | 210 kg |

## WORK EQUIPMENT

Virtually the whole of the UK industry was affected when the provision and use of Work Equipment Regulations 1998 (PUWER 98) (LOWLER98) came into force on the 5 December 1998.
The two sets of regulations – which implemented the requirements of the European Commissions Amending Directive to use of Work Equipment Directive (AUWED) – apply to the majority of workplaces in the UK and include several new provisions relating to safety of work equipment. PUWER 98 – which replaced the existing PUWER 1992 and the Power Press Regulations 1965 and 1972 – included new provisions for management and the use of MOBILE Work Equipment and also introduced new regulations specific to power presses.
Under PUWER 98, the definition of work equipment includes the following:

- Lifting Equipment – such as hoists, lift trucks, elevating work platforms and lifting slings including floor cranes and installations.

PUWER 98 completely replaces the requirements of PUWER 1992, which was originally implemented into UK law as part of the six-pack, of health and safety legislation.

## THE MAIN REQUIREMENTS

While the requirements of PUWER 1992 were carried forward in full, in parts I and II of PUWER 98, the new regulations also contained a number of important additions.
These included:

- A requirement to inspect work equipment where significance risk could result from incorrect use/installation or relocation, deterioration, or as a result of exceptional circumstances.
- A requirement to record the results of those inspections.
- An extension of the duty holder application to include a duty on people who have control of work equipment, such as plant hire companies.
- New guidance and ACoP material on the control of specific risks.

Meanwhile, part III of PUWER 98 comprised of six completely new regulations which deal with risks arising from mobile work equipment including lift trucks, floor cranes etc. These include minimising risks from roll-over, preventing start-up by unauthorised persons, and providing a device for braking.

## LIFTING EQUIPMENT

LOLER 98 replace most of the existing sector-specific legislation on all lifting equipment, creating a single set of regulations that apply to all sectors of industry. LOLER 98 applies over and above the general requirements of PUWER 98 in dealing with specific hazards and risks associated with lifting equipment and lifting operations.

## WARNING

The regulations require employers to carry out a risk assessment of lifting operations – including the selection-suitability of equipment and the use of lifting equipment.

The regulations require employers to carry out suitable training of staff in the safe use of the lifting equipment, including operating and safety maintenance-inspection.
Employers need to consider a number of factors when selecting lifting equipment, these include:

- The load to be lifted,
- It's weight and shape,
- Centre of Gravity and the availability of lifting points,
- How often the lifting equipment will be sued to carry out the task,
- The environment in which the lifting equipment is being used ,
- The personnel available and,
- The personnel's training and experience.

The regulations also require lifting equipment to have adequate strength and stability for its proposed use.
In addition, the risk from positioning and installing lifting equipment need to be minimised and equipment must be marked to indicate its safe working load.
The regulations also require certain types of lifting equipment – for example, hooks, eyebolts and shackles – to be examined every six months. Any other lifting equipment must be examined every 12 months.
However under the regulations an alternative examination scheme can be drawn up and intervals set for examinations based on the results of risk assessments.
In addition, the regulations cover pre-use checks and the steps employers must take to prevent lifting equipment overturning or being overloaded.
They also cover how lifting equipment should be positioned, installed, and how to use the equipment. For example a lift truck must include a purpose-built working platform to carry an employee.

FINAL CHECKLIST

Under health and safety law, employers have a legal duty to ensure the health, safety and welfare of employees and people not in their employment who may be affected by their work activities.
The six-pack of health and safety legislation, which came into force in January 1993, includes the management of Health and Safety at Work Regulations 1992 which requires all employers to carry out a risk assessment in the workplaces to eliminate or reduce any risks found.

IMPORTANT

Under Health and Safety Law, Employers and Self Employed Personnel have a legal duty to ensure the Safe Working Conditions for all employees and personnel that may come into contact with the equipment. e.g. Workshop Presses, Moving and Fixed Cranes, Scissor Lift Trolleys and all types of equipment that could or may present a potential danger to an employee or persons present in the vicinity, must carry out a specific risk and hazard assessment of all equipment in the workplace to eliminate or reduce any risk found, and to record and update the results if this inspection n, and to keep records at all times.

TRANSMISSION JACK MAINTENANCE and OPERATING INSTRUCTIONS
HAND TO PERSON RESPONSIBLE.

Please carefully read the notices and instructions contained in this maintenance and operating instructions manual.
It will provide the operator with important information for the safe use and maintenance of the transmission jack.

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PLEASE KEEP THIS MANUAL SAFE FOR ANY FURTHER INFORMATION YOU MAY REQUIRE.

The transmission jack has been designed to be used as a tool to assist in the dismounting and re-assembling of gear boxes, differentials, clutch and suspension units, UP TO THE TRANSMISSION JACKS MAXIMUM CAPACITY. As stated on the transmission jack, this equipment should never be used for supporting a vehicle in full or in part.
This equipment should only be used for the purpose for which it was designed.
Any other use must be considered improper and unreasonable.
The manufacturer can not be held responsible for the wrong, improper, and unreasonable use of this transmission jack.
Never use a transmission jack on an uneven or unstable floor. The transmission jack must never be used on an inclined or tilting surface.
Only trained and authorized personnel should be allowed to use the transmission jack.
Any alterations or modification to the transmission jack will release the manufacturer from any liability or claim for damages ensuing from or referring to the above actions.
The removal or alteration (including resetting) of the safety/valve devices would constitute a violation of the European Safety Standards and nullify the equipment warranty.
Check that during the operation of the transmission jack that no hazardous conditions are likely to harm the operator, if any operating irregularities occur when operating the transmission jack stop the operation immediately, and rectify the irregularities.
Check that during the operation of the transmission jack that no object or obstruction is located within the working area of the transmission jack.
Never allow any person to stand in such a position that the load could fall on them or cause a personal injury.
Never use the transmission jack or allow a person to use the equipment if a defect or fault is detected. Rectify the fault before the equipment is put to use.
Never place shims or packing under the item to be lifted or under the transmission jack to support or level the load.
Always ensure that the item being worked on is correctly located and firmly on the lifting cradle and that the load support strap is firm and secure.
The transmission jack should not be laid on its side, and should be transported in a vertical position.
When more than one transmission jack is being transported they should not be stacked, and instead sent as individual items in the vertical position.

Important

On receipt of your transmission jack, if the following instructions are carried out, then the unit will give you many years of trouble free service.

Loosen the hydraulic oil filler cap situated at the top of the oil reservoir. (RED or YELLOW PLASTIC BUNG)

DO NOT ADD HYDRAULIC OIL AS THE UNIT IS PRE-FILLED ON DISPTACH FROM THE FACTORY.

Fully open the hydraulic release valve, and pump 1 to 12 strokes with a steady pumping action using full strokes of the pump.
Still pump close the release valve.
DO NOT OVER TIGHTEN THE RELEASE VALVE AS THIS MAY DAMAGE THE RELEASE SEAT.
The hydraulic ram will now start to extend, carry on pumping until the hydraulic ram has extended 3" to 4" inches. Then stop pumping and open the release valve, the weight of the lifting head will return the ram to the fully closed position, the transmission jack is now ready for use.
DO NOT PUMP THE HYDRAULIC RAM BEFORE RELEASING THE OIL FILLER CAP OR OPENING THE RELEASE VALVE.

The stroke restrictor valve fitted to the hydraulic cylinder will prevent damage to the hydraulic cylinder when the jack is extended to the full limit of its strike.
Oil will pass through an orifice in the hydraulic cylinder and return to the reservoir.

DO NOT CONTINUE TO PUMP WHEN THIS LIMIT HAS BEEN REACHED.

THE OIL FILLER CAP MUST BE LOOSE AT ALL TIMES

When the Transmission Jack is in use:

IMPORTANT

THE CORRECT HYDRAULIC OIL FOR THIS UNIT IS TOTAL AZOLLA ZS 32.

The transmission jack is heavy and should not be manually lifted. Therefore it is advisable to use a forklift truck or a similar device for handling the transmission jack.

CAUTION

Extreme caution must be taken when transporting the transmission jack. Normal precautions must be taken for handling heavy and projecting components.

## HEAVY DUTY TRANSMISSION JACK

The Weber range of transmission jacks permits easy, one man transmission removal and replacement.

These units are ideal for handling other assemblies as well.

The jack is fitted with four heavy duty, cast iron wheeled, swivel castors. The two front castors are fitted with DIRECTIONAL LOCKS, which enables the jack to be moved forward or sideways with ease.

The castors are also wide spaced and fitted with BALL BEARINGS for exceptional stability and mobility.

The jack is fitted with a flat plate head which is adjustable for tilting and is complete with four adjustable arms to stabilize the unit being removed. The head also comes complete with a ratchet and weblashing to retain the load on the lifting head.

The transmission jack is fitted with a heavy duty handle for ease of movement. The handle can be locked vertical or in the horizontal position.

There are four fixed hands for ease of precise sideway adjustment.

The transmission jack is fitted with a heavy duty double acting hydraulic pump. The handle can be vertical for ease of pumping outside the vehicle or horizontal when working under a vehicle.

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## FEATURES

THE HYDRAULIC PUMP IS FITTED WITH AN AUTOMATIC RELIEF VALVE T PREVENT OVERLOADING.

CHROME PLATED PISTON ROD ON RAM AND PUMP.

SMOOTH HYDRAULIC OPERATION FOR PRECISE RAISING AND LOWERING.

SENSITIVE LOAD LOWERING BY HAND OPERATED RELEASE.

EASY MANOEUVRING AND POSITIONING WITH FOUR HEAVY DUTY, BALL BEARING, SWIVEL CASTORS. TWO WITH DIRECTIONAL LOCKS AND HEAVY DUTY CAST IRON WHEELS.

FOUR FIXED HANDLES FOR EASE OF PRECISE MOVEMENT.

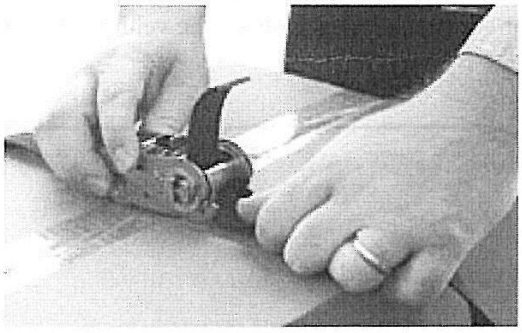
TWO POSITION MAIN HANDLE FOR EASE OF GENERAL MOVEMENT.

# IMPORTANT

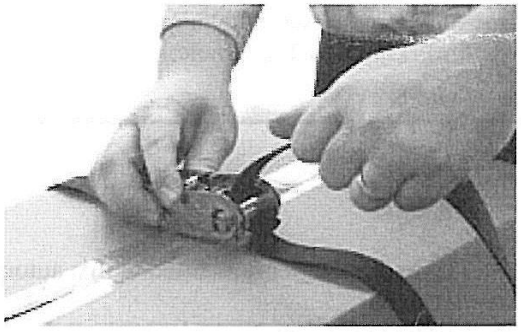
IF AN OIL CHANGE IS COMPLETED EVERY YEAR, AN OIL TOP UP SHOULD NOT BE REQUIRED.
SHOULD A LEAK OR OIL LOSS OCCUR, REMOVE THE PUMP FROM THE HYDRAULIC RESERVOIR.
CHECK THAT THE OIL IS FREE FROM MOISTURE, FOREIGN BODIES AND HAS NOT BEEN CONTAMINATED IN ANYWAY.
IF A TOP UP IS REQUIRED USE ONOLY AZOLLA ZS 32 HYDRAULIC OIL.
DO NOT MIX BLENDS, DIFFERENT BRANDS OR VICOSITY HYDRAULIC OILS.

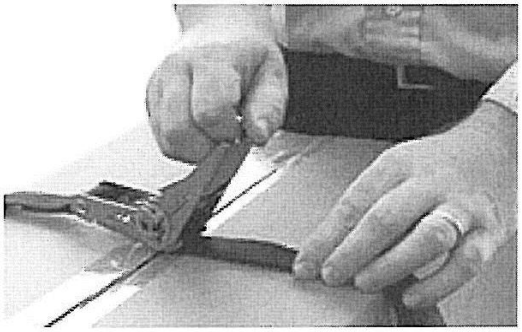
**The below illustrations show the ease of tensioning and releasing the ratchet buckles.**

**1.** To thread ratchet buckle, place webbing THROUGH slot in center rotating spool of closed ratchet.

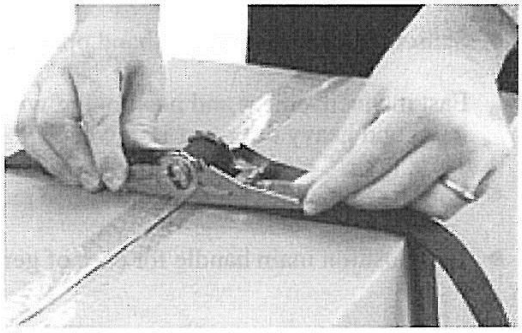


**2.** Pull webbing through, leaving some slack.





**3.** Start ratcheting (raising and lowering handle).



**4.** Webbing will wind itself and be locked in place so that further ratcheting will rapidly increase tension in strap.

INSTRUCTIONS FOR THE SAFE WORKING OF WEBER EQUIPMENT.

Manufactured to a high standard, this product will, if used in accordance with the instructions, and is properly maintained give years of trouble free service.

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**IMPORTANT**

BEFORE USING THIS PRODUCT, PLEASE READ THE INSTRUCTIONS CAREFULLY. MAKE CAREFUL NOTE OF SAFETY INSTRUCTIONS, WARNINGS AND CAUTIONS. THIS PRODUCT SHOULD ONLY BE USED FOR ITS INTENDED PURPOSE. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRENTY.

The use of symbols and adhesive labels in this document and attached to the product is to attract your attention to possible DANGER and REMINDERS, the symbols, labels and warnings, themselves do not ELIMINATE the DANGER, nor are they a substitute for proper accident prevention measures.

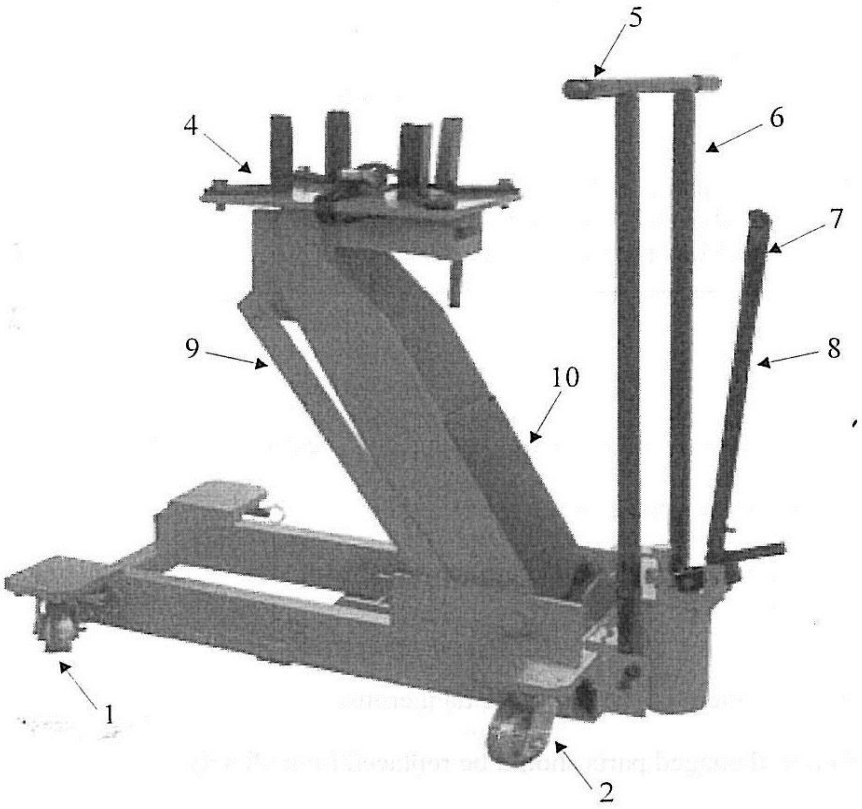
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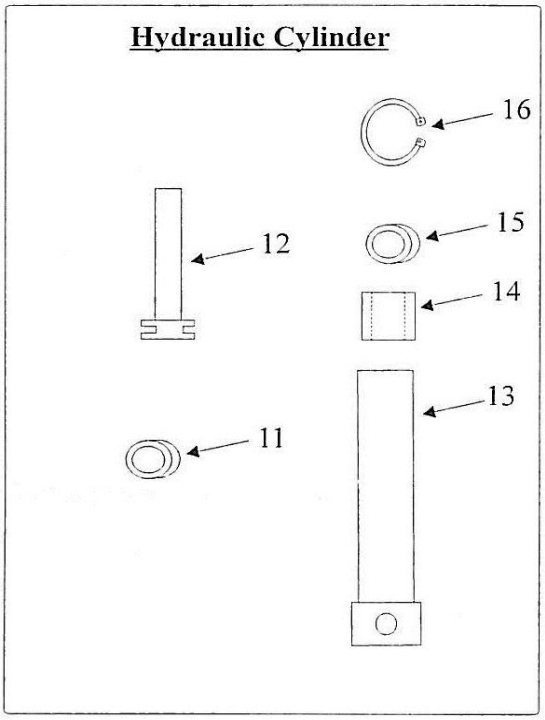
## SAFETY INSTRUCTIONS

1. Familiarise yourself with this products application, as well as the limitations and specific potential hazards.
2. Ensure that the product is stable and suitable for the application.
3. The floor must be stable and solid so that the equipment will not cause injury during use.
4. Take special care to avoid trapping hands or feet.
5. Use only genuine Weber spare parts, non-recommended parts may be dangerous.
6. Check regularly for damaged parts. Broken or damaged parts should be replaced immediately
7. Ensure the space required for use and maintenance of the equipment s adequate, and with good lighting.
8. Keep unauthorised persons and children away from the working area at all times.
9. Maintain the equipment in top condition at all times.
10. Do not use the equipment for anything else other than its intended purpose.
11. Do not exceed he maximum safe working capacity of the equipment.
12. Do not modify or alter this equipment in any way.
13. Do not allow children or untrained persons to operate this equipment.
14. Do not wear loose or ill-fitting clothing, ties, watches, rings and any other jewellery. Tie up or cover long hair as well.
15. Do not stand on the equipment.
16. Do not use this equipment whilst under the influence of drugs, alcohol or any other intoxicating medication.
17. Do not use this equipment if you are fatigued.

## Parts List for heavy duty transmission jack.
## Model numbers CTJ-1000, CTJ-1500 and CTJ-2000

When ordering spare parts quote model number and parts list number.
E.g. CTJ-1000-2, this would be the swivel castor to suit the one tonne transmission jack.



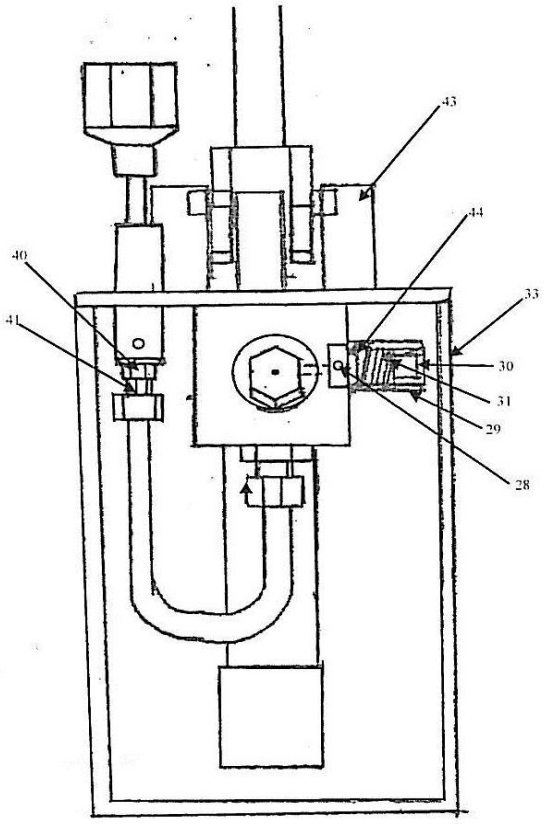



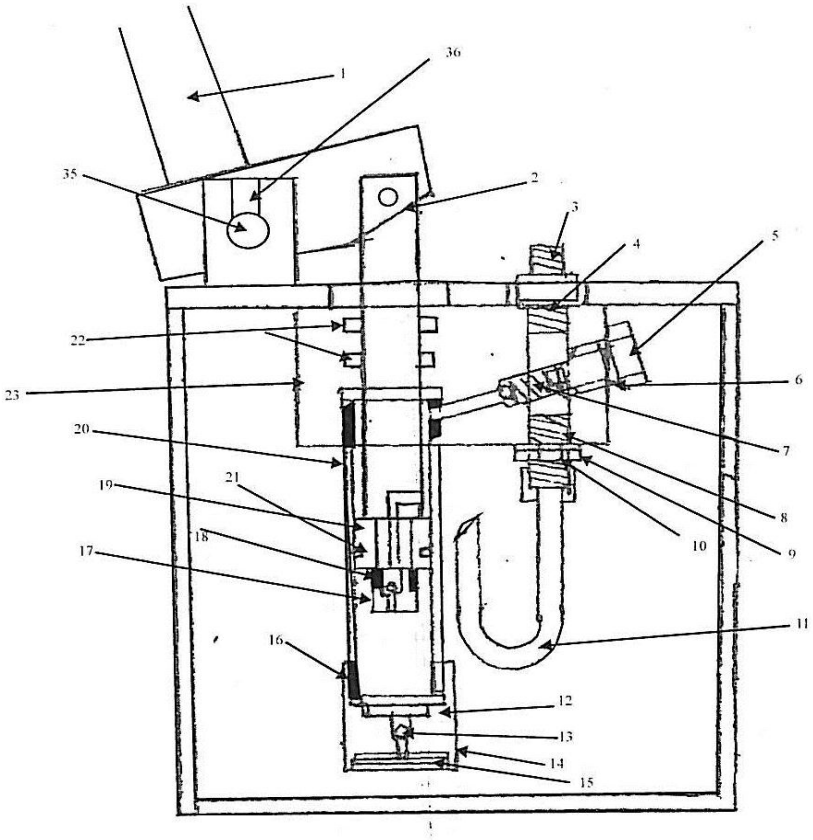

| Part No. | Description | Qty |
|---|---|---|
| 01 | Swivel castor c/w | 2 |
| | directional lock | 2 |
| 02 | Swivel castor | 1 |
| 03 | Adjustment screw | 1 |
| 04 | Table | 1 |
| 05 | Handle gripp | 2 |
| 06 | Jack handle | 1 |
| 07 | Pump handle gripp | 1 |
| 08 | Pump handle | 1 |
| 09 | Parallel link | 2 |
| 10 | Frame cover | 1 |
| 10-A | Main lifting frame | 1 |
| 11 | Ram seal | 1 |
| 12 | Piston rod | 1 |
| 13 | Hydraulic cylinder | 1 |
| 14 | Guide bush | 1 |
| 15 | Scrapper ring | 1 |
| 16 | Cir clip | 1 |

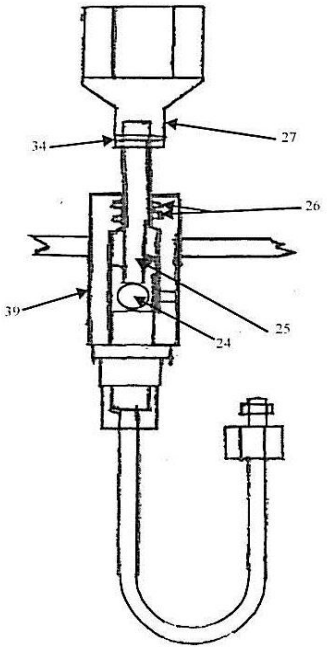
*Please note:-*
*Hydraulic seals are sold as a full kit only.*
*Part Number 17.*

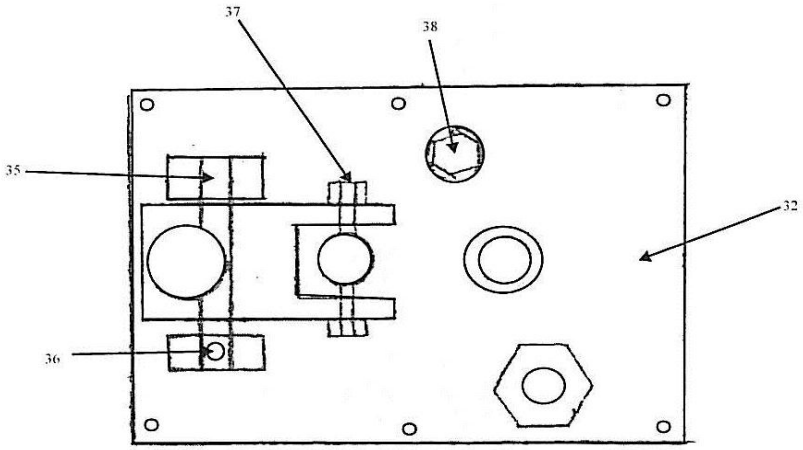
***WARNING***

***DO NOT ADD HYDRAULIC OIL FACTORY FILLED READ INSTRUCTIONS.***




# PT No pump complete H-P-1

Seal kits sold as complete kits only.

PART/ASSEMBLY LIST FOR H-P-1 HYDRAULIC PUMP.

| PART No. | DESCRIPTION | QUANTITY |
|---|---|---|
| 01 | PUMP HANDLE ASSEMBLY | 1 |
| 02 | PISTON ROD | 1 |
| 03 | HYDRAULIC CONNECTOR | 1 |
| 04 | BONDED SEAL | 1 |
| 05 | SET SCREW | 1 |
| 06 | BONDED SEAL | 1 |
| 07 | SPRING | 1 |
| 08 | STEEL BALL | 1 |
| 09 | BONDED SEAL | 1 |
| 10 | HYDRAULIC CONNECTOR | 1 |
| 11 | HYDRAULIC FLUID PIPE | 1 |
| 12 | PUMP CYLINDER END CAP | 1 |
| 13 | STEEL BALL | 1 |
| 14 | FILTER | 2 |
| 15 | RETAINING WASHER | 1 |
| 16 | COPPER WASHER | 1 |
| 17 | PISTON ROD END CAP | 1 |
| 18 | STEEL BALL | 1 |
| 19 | PISTON | 1 |
| 20 | PUMP CYLINDER | 1 |
| 21 | PISTON SEAL | 2 |
| 22 | SEAL | 2 |
| 23 | PUMP BODY | 1 |
| 24 | STEEL BALL | 1 |
| 25 | VALVE RELEASE SHAFT | 1 |
| 26 | “O” RING | 2 |
| 27 | RELEASE HANDLE | 1 |
| 28 | STEEL BALL | 1 |
| 29 | PRESSURE OVERLOAD BODY | 1 |
| 30 | OVERLOAD ADJUSTMENT SCREW | 1 |
| 31 | SPRING | 1 |
| 32 | TOP PLATE | 1 |
| 33 | RESERVOIR (HYD. OIL) | 1 |
| 34 | SPRING PIN | 1 |
| 35 | HANDLE PIVOT SPINDLE | 1 |
| 36 | ALLAN SCREW | 1 |
| 37 | LOCK NUT & BOLT | 1 |
| 38 | FILLER PLUG | 1 |
| 39 | RELEASE VALVE BODY | 1 |
| 40 | HYDRAULIC FITING | 1 |
| 41 | OLIVE (HYDRAULIC FITTING) | 2 |

NOTE: HYDRAULIC SEALS ARE SOLD AS COMPLETE KITS ONLY.

**TRANSMISSION JACK OPERATING AND MAINTENANCE INSTRUCTIONS. MODEL NOS. CTJ1000, CTJ1500, CTJ2000**

MAX. CAPACITY: CTJ1000 = 1000 KG CTJ1500 = 1500 KG
CTJ2000 = 2000 KG

SAFETY PRECAUTIONS FOR TRANSMISSION JACKS.

1. Never exceed the safe working load of the TRANSMISSION JACK
2. Do not over tighten the release valve on the hydraulic pump as this will lead to jerky action when lowering load. **NEVER USE A SPANNER OR GRIPS TO TIGHTEN THE RELEASE VALVE.**
3. Never wheel the transmission jack around the workshop fully loaded unless the height of the suspended load is adjusted to clear the floor. Move the transmission jack slowly and avoid sudden stops which may cause the load to become dislodged.
4. The simple maintenance procedures described later in this manual should be carried out at monthly intervals. This will ensure efficient operation of the jack with minimum wear.
5. Always ensure that the load to be lifted is adequately secured before moving the transmission jack.
6. Never allow any person to stand or lay in such a position that a load or transmission jack could trap or cause injury.
7. Always ensure that the load is firmly secured to the transmission jack before commencement of operation.
8. When unpacking the transmission jack check carefully and report any loss or damage to the carrier and supplier immediately.
   THIS SHOULD BE CARRIED OUT BY COMPETENT PERSONS ONLY.

**Service**

A full after Sales and Service for this machine from Weber UK Ltd, Unit 10, First Avenue, Bluebridge Ind Est, Halstead, CO9 2EX. Tel: 01787 476319

| Handle Raises Under Load | Handle Lowers Under Load | Will Not Lift Load | Will Not Lift Full Height | Will Not Hold Load | Pump Feels Spongy Under Load | FAULT FINDING |
|---|---|---|---|---|---|---|
| | | X | X | | X | The hydraulic unit could be low on oil. See maintenance |
| | | X | X | | X | The hydraulic unit could be airbound. See maintenance |
| X | X | X | | X | | Valves might not be closing. Make certain release valve is closed. |

## BLEEDING THE SYSTEM

NOTE: The hydraulic unit leaves the factory filled with hydraulic fluid. However air can enter the valve block during transit and this should be bled before the jack is put into service.

## IMPORTANT

On receipt of your transmission jack if you carry out the following simple instructions the unit will give you many years of trouble free service.

1. Loosen Oil Filler Cap situated at the top of the Oil Reservoir. DO NOT ADD OIL AS UNI IS PRE-FILLED ON DISPATCH FROM THE FACTORY.

2. Fully open release valve and pump 11-12 times with a steady pumping action. Still pumping, close release valve. DO NOT OVER TIGHTEN AS THIS MAY DAMAGE VALVE SEAT.
   Jack will now start to extend. Carry on pumping till jack has extended 5" to 6" inches.
   Stop pumping and open release valve jack will return o the fully closed position. Jack is now ready for use.
   DO NOT PUMP JACK BEFRE RELEASING OIL FILLER CAP OR OPENING RELEASE VALVE.

3. AFTER STORAGE OR TRANSPORTATION, BE SURE THE ABOVE INSTRUCTIONS ARE CARRIED OUT BEFORE PUMPING HYDRAULIC UNIT.

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## MAINTENANCE – INSPECTION

1. Check and inspect the jack to ensure links are not worn and all nuts and bolts are tight.

2. Check for wear and damage.

3. Oil all moving parts with engine oil.

4. Check the oil level in the hydraulic tank by lowering the jack fully. The hydraulic oil should be changed in all units every 12 months. Refill with AZOLLA ZS 32 and not overfill.
   DO NOT USE BRAKE OR SHOCK ABSORBER FLUIDS AS THESE WILL HARM THE HYDRAULIC SEALS IN THE CYLINDER AND PUMP

## UK Declaration of Conformity for Machinery

# Supply Machinery (Safety) Regulations 2008

*Trolley-Type Transmission Jack - Model(s): CTJ1000/CTJ1500/CTJ2000*

are in conformity with the provisions of the Supply of Machinery (Safety) Regulations 2008 as amended 01st January 2021 and with national implementing legislation.

We hereby certify that the equipment covered by this test certificate has been tested to An overload without showing any defect. The safety valve has been set at maximum working capacity and is recommended for the safe working load stated above. Provided the safe working practice as prescribed on the instructions and test/declaration of conformity is adhered to.

Signed……. Date……01/01/2021……

*Subject to changes and misprints. E & OE*

## EC Declaration of Conformity for Machinery

# Directive 2006/42/EC

Trolley-Type Transmission Jack - Model(s): CTJ1000/CTJ1500/CTJ2000

are in conformity with the provisions of the Machinery Directive (Directive 2006/42/EC) as amended 29th December 2009 and with national implementing legislation.

We hereby certify that the equipment covered by this test certificate has been tested to An overload without showing any defect. The safety valve has been set at maximum working capacity and is recommended for the safe working load stated above. Provided the safe working practice as prescribed on the instructions and test/declaration of conformity is adhered to.

Signed……. Date……01/01/19……

*Subject to changes and misprints. E & OE*