

Jefferson®

PROFESSIONAL TOOLS & EQUIPMENT



20 TONNE HYDRAULIC BOTTLE JACK

JEFJKBTL20

User Manual
v.1.1



1. Safety

IMPORTANT: READ ALL INSTRUCTIONS BEFORE USE

Regularly inspect and lubricate the jack to ensure it is in good working order and condition. DO NOT use the jack if damaged or a fault is suspected - check Section 6 Troubleshooting. If necessary, immediately repair or replace damaged parts.

- Use recommended parts only, the use of unauthorised parts may be dangerous and will invalidate your warranty.
- Ensure the work area is clean, tidy and free from unrelated materials and has adequate lighting.
- Use jack on level and solid ground, preferably concrete. Avoid tarmacadam since jack may sink in.
- Park the vehicle and apply hand brake (if automatic, place in "Park" mode). Switch off the engine and place chocks under the wheels.
- Ensure a minimum distance of 0.5m between vehicle and static objects such as doors, walls, etc. to allow for tilting during jacking.
- Ensure all persons are out of the vehicle before jacking. DO NOT enter vehicle whilst it is supported on the jack or axle stands.
- Check vehicle weight and recommended lifting points by referring to the vehicle owner's manual. Ensure the lifting point is not corroded.
- Check lifting point is centred and stable on jack saddle (off centre loads can slip). Position jack so as to avoid operating it from under vehicle.
- Keep hands etc. clear of moving parts during raising and lowering of the vehicle.

DANGER! *Roadside wheel changing is hazardous. Be extra vigilant, you may not be able to avoid jacking on tarmacadam. Get everyone out of vehicle. NEVER go under vehicle. Traffic may cause vehicle to rock. Use hazard warning lights. If in doubt call professional help.*

- When changing a wheel, slightly loosen wheel nuts/bolts prior to jacking vehicle. Screw wheel nuts/bolts back before lowering vehicle. Finally tighten when vehicle is fully lowered.

- Use a qualified person to lubricate and maintain the jack. Confirm that only recommended hydraulic jack oil is used during maintenance.
- **DO NOT** exceed the rated capacity of the jack and DO NOT operate the jack beyond its maximum pump stroke.

WARNING! *DO NOT allow the vehicle to move, or try to start the engine, when the vehicle is jacked up.*

- Ensure there are no persons or obstructions beneath the vehicle before lowering.
- Clean and securely stow the jack with the ram in the down position. DO NOT leave the ram extended. Ensure stowage area is dry.

WARNING! *Remember, it is very dangerous to go under a vehicle supported by a jack even if additional supports are used.*

DANGER! USE THE JACK FOR LIFTING ONLY, NOT FOR SUPPORTING THE LIFTED LOAD. ALWAYS USE ADEQUATELY RATED AXLE STANDS.

- **DO NOT** jack a vehicle if it may result in the spillage of fuel, battery acid, or other dangerous substances.
- **DO NOT** place any part of your body under vehicle whilst it is supported by the jack. Wait until adequately rated axle stands have been correctly positioned.
- **DO NOT** use jack to support extensions or cradles. **DO NOT** modify jack in any way. **DO NOT** use the jack for any other purpose.
- **DO NOT** top up jack with brake fluid. Use hydraulic oil only. DO NOT adjust the safety overload valve (fig. 1.5).
- **DO NOT** go under a vehicle unless it is supported by adequately rated axle stands. NOTE: Seek advice before jacking caravans or trailers.

2. Features

- Heavy-duty steel construction provides stability and endurance
- High quality, large diameter, hydraulic steel cylinder unit resulting in lower oil pressure needed to raise the load for reduced wear & tear and extended service life
- High-quality, oil-powered hydraulics ensure corrosion resistance and high/low temperature flexibility with 194-372mm lifting range

Warning: *This equipment is designed for lifting purpose only, always use axle stands and wheel chocks to support the vehicle.*

3. Specification

Model Number: JEFJKBTL20

Capacity: 20 Tonne

Minimum Height: 242mm

Weight: NW: 10.8Kg / GW: 11.2Kg

Adjustment Range: 60mm

Maximum Height: 452mm

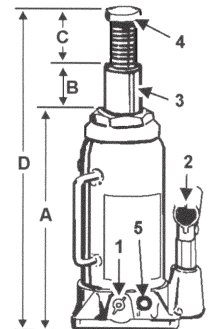
4. Operation

WARNING! BEFORE LIFTING ENSURE SECTION 1 SAFETY INSTRUCTIONS ARE STRICTLY FOLLOWED.

- Before using the jack, purge the hydraulic system to eliminate any air that may have accumulated during transit, as follows:
 - a) Fit jack handle over release valve (Fig. 1.1) and turn anti-clockwise to open valve.
 - b) Insert jack handle into the handle sleeve and pump several times to ensure full internal lubrication and to bleed air from the system.
 - c) Fit jack handle back over the release valve and turn clockwise to close.

FIG. 1

1. Release Valve
2. Handle Sleeve
3. Ram
4. Saddle
5. Overload Valve (Do Not Adjust)



LIFTING

WARNING! ENSURE YOU PREPARE VEHICLE AND USE JACK ACCORDING TO SECTION 1 SAFETY INSTRUCTIONS.

- Check that the ground upon which the jack will stand is level and solid.
- Position the jack saddle under the vehicle manufacturer's recommended lifting point. Position jack so as to avoid having to operate it from under the vehicle and so that the handle can be moved up and down without hitting any part of the vehicle.
- Using the screw extension as necessary, raise the saddle to the lifting point. Ensure that the saddle is correctly centred beneath the lifting point.
- Pump the handle up and down using full stroke until the required lift is achieved.
- Should the jack become overloaded, a safety overload valve will open, and stop the vehicle from lifting.
- Lower the vehicle onto suitable axle stands before attempting any work.

LOWERING

- Ensure that the axle stands are removed and that there are no persons or obstacles beneath the vehicle, or in the path of its descent.
- The lowering speed is controlled by the amount the release valve is opened. Turn valve anti-clockwise and lower slowly and carefully.

5. Maintenance

IMPORTANT: ONLY FULLY QUALIFIED PERSONNEL SHOULD ATTEMPT MAINTENANCE OR REPAIR

WARNING: DO NOT USE BRAKE FLUID, OR ANY FLUID OTHER THAN HYDRAULIC JACK FLUID, AS TO DO SO MAY CAUSE SERIOUS DAMAGE TO THE JACK AND WILL INVALIDATE THE WARRANTY!

- When the jack is not in use, the ram and piston must be in their lowest positions to minimise corrosion. Remove the handle to inactivate jack.
- Keep the jack clean and lubricate all moving parts with acid free oil on a regular basis.
- To check oil level, fully lower the jack. Remove filler plug. The correct oil level is to the bottom of the filler opening.
- After a year of extensive use, the oil should be replaced in order to extend the life of the jack. Drain the oil through the filler plug opening. Make sure that no dirt is allowed to enter the jack or the fresh oil.
- To replace the oil fill as required. Pump (unloaded jack) 5 or 6 times to expel air. Pump jack to full height and pour off excess oil before refitting plug.

Note: Ensure waste oil is disposed of in accordance with local authority regulations.

WARNING: DO NOT USE THE JACK IF BELIEVED TO HAVE BEEN SUBJECTED TO ABNORMAL LOAD OR SHOCK. INSPECT AND TAKE APPROPRIATE ACTION.

- Before each use check for broken, cracked, bent, or loose parts. Also check for any visible damage to welds, ram, pump, body and base.
- If any suspect item is found remove jack from service and take the necessary action to remedy the problem.
- Periodically check the pump piston and piston rod for signs of corrosion. Clean exposed areas with a clean oiled cloth.

6. Troubleshooting

Symptom	Possible Cause	Corrective Action
Jack will not lift the load	1. Overloaded 2. Oil level low 3. Release valve not correctly closed 4. Air in system 5. Packing worn or defective	1. Be sure to use jack with adequate capacity 2. Top up oil level 3. Check and close release valve 4. Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 5. Return jack to local service agent
Jack does not lift high enough or feels "spongy"	1. Low oil level 2. Worn seals 3. Air in system 4. Release valve not closed	1. Top up oil level 2. Return jack to local service agent 3. Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 4. Check and close release valve
Jack will not hold the load	1. Release valve partially open 2. Dirt on valve seals 3. Air in system 4. Faulty seals	1. Check and close release valve 2. Lower jack, close release valve. Pull up lifting arm to full height by hand. Open the release valve to lower arm 3. Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 4. Return jack to local service agent
Jack will not descend to minimum height, or will not remain in lowered position	1. Ram damaged 2. Air in system 3. Release valve partially open	1. Contact local service agent 2. Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try 3. Check and fully open release valve
Jack will not function properly after trying solutions above	1. Internal malfunction or structural damage	1. Stop usage and contact an authorized repair centre

LIMITED WARRANTY STATEMENT

Jefferson Professional Tools & Equipment, or hereafter "Jefferson" warrants its customers that its products will be free of defects in workmanship or material. Jefferson shall, upon suitable notification, correct any defects, by repair or replacement, of any parts or components of this product that are determined by Jefferson to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, service or repair.

Warranty Period

Jefferson will assume both the parts and labour expense of correcting defects during the stated warranty periods below.

All warranty periods start from the date of purchase from an authorised Jefferson dealer. If proof of purchase is unavailable from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

1 Year

- All Jefferson Bottle Jacks

90 Days

- All replacement parts purchased outside of the warranty period

Important: All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.

Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address: www.jeffersonstools.com/warranty and completing the online form.

Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

Warranty Repair

Should Jefferson confirm the existence of any defect covered by this warranty the defect will be corrected by repair or replacement at an authorized Jefferson dealer or repair centre.

Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Jefferson will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no defect can be found or the equipment is not covered under the terms of the Jefferson warranty, the customer will be liable for any labour and return transportation costs incurred. These costs will be agreed with the customer before the machine is returned.

** Jefferson reserve the right to void any warranty for damages identified as being caused through misuse*

Warranty Limitations

Jefferson will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Jefferson's liability under this warranty will not exceed the cost of correcting the defect of the Jefferson products.

Jefferson will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc.) caused by the defect or the time involved to correct the defect. This written warranty is the only express warranty provided by Jefferson with respect to its products.

Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved.

Claiming Warranty Coverage

The end user must contact Jefferson Professional Tools & Equipment (Tel: **+44 (0) 1244 646 048**) or their nearest authorised Jefferson dealer where final determination of the warranty coverage can be ascertained.

Step 1 - Reporting the Defect

Online Method:

- Visit our website www.jeffersonstools.com/warranty and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

Telephone Method:

Contact your Jefferson dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Jefferson repair centre. On receipt of this form Jefferson will arrange to collect the equipment from you at the earliest convenience.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection, **together with a copy of the original proof of purchase**. Please note that Jefferson cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

Please note: Jefferson will be unable to collect or process any warranty requests without a copy of the original proof of purchase.

Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Jefferson engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days). **Note:** If the repair quotation is not accepted Jefferson Professional Tools & Equipment will invoice **1 hour labour time at £30 per hour plus return carriage costs (plus VAT)**.

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at **£30 per hour plus carriage costs** will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Jefferson Repair centre (subject to part availability). Where parts are not immediately available Jefferson will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Jefferson warranty cover please call **+44 (0) 1244 646 048** or send your enquiry via email to warranty@jeffersonstools.com

Disclaimer:

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EC Declaration of Conformity

We, Jefferson Professional Tools & Equipment, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following Directives:

EN 1494:2000+A1:2008 (AS AMENDED) - MOBILE OR MOVABLE JACKS AND ASSOCIATED LIFTING EQUIPMENT

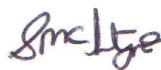
EN 2006/42/EC (AS AMENDED) - MACHINERY DIRECTIVE

Equipment Category: Bottle Jack

Product Name/Model: JEFJKBTL20

Maximum Load: 20 Tonne

Signed by: Stephen McIntyre
Position in the company: Operations Director
Date: 20 March 2017
This technical document is held by: Jimmy Hemphill



Technical file holder's address as shown below

Name and address of manufacturer or authorised representative:

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Email: sales@jeffersonstools.com

IMPORTANT! SAFETY FIRST!

Before attempting to use this product please read all the safety precautions and operating instructions outlined in this manual to reduce the risk of personal injury.

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