



IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS JACK 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. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- ✓ Regularly inspect and lubricate the jack, ensuring that it is in good working order and condition. **DO NOT** use the jack if damaged or a fault is suspected. Check Section 5 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 that the jacking area is clean and tidy, free from unrelated materials and has adequate lighting.
- ✓ Use the jack on level and solid ground, preferably concrete. *Avoid tarmac since the 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 that 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 manual. Ensure that the lifting point is not corroded.
- ✓ Check that jack saddle is centred and stable on lifting point (off-centre loads can slip). Position jack to avoid operating it from under vehicle.
- ▲ **DANGER!** Use the jack for lifting only, NOT for supporting the lifted load. ALWAYS USE ADEQUATELY RATED AXLE STANDS.
- ✓ Keep hands etc. clear of moving parts during the raising and lowering of the vehicle.
- ▲ **DANGER!** Roadside wheel changing is hazardous. **Be extra vigilant, you may not be able to avoid jacking on tarmac.** Get everyone out of vehicle. NEVER go under the 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/screws prior to jacking vehicle. Refit wheel nuts/screws and part tighten before lowering vehicle.
- ✓ 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, during jacking. DO NOT start the engine when vehicle is jacked up.**
- ✗ **DO NOT** jack a vehicle if this may result in the spillage of fuel, battery acid, or other dangerous substances.
- ✗ **DO NOT** place any part of your body under vehicle whilst supported by jack. Wait until adequately rated axle stands have been correctly positioned.
- ✗ **DO NOT** use the jack to support extensions or cradles. **DO NOT** modify the 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, and **DO NOT** adjust the safety overload valve (fig. 1.5).
- ✓ Ensure that there are no persons or obstructions beneath the vehicle before lowering.
- ✓ Clean and securely stow the jack properly, with the ram in the down position, **DO NOT** leave it 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. DO NOT go under a vehicle without the support of adequately rated axle stands. NOTE:** Seek advice before jacking caravans or trailers.
- ▲ **IMPORTANT! Ensure that you can see the saddle and jacking point throughout the jacking operation in case there is any relative movement.**

2. INTRODUCTION & SPECIFICATIONS

Your 35 ton bottle jack is manufactured to the highest standard. The one piece steel base, reservoir and pump cylinder has been designed to give added strength. Your jack has a fully serviceable ram piston with an extension screw and has been supplied with a 1-piece zinc coated handle. To assist you when reading the following specifications please cross refer letters to fig. 1.

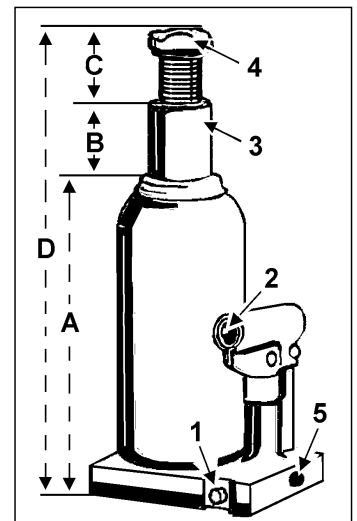
Capacity - tons	.....	.35
A Minimum height - mm	....	.242
B Hydraulic lift - mm	.....	.150
C Screw extension - mm	....	.75
D Maximum height - mm	....	.467
Oil capacity - cm ³	.....	.800

3. OPERATING INSTRUCTIONS

- **WARNING! Before lifting ensure that Section 1 safety instructions are strictly followed.**
- 3.1. Before using the jack, purge the hydraulic circuit, in order to eliminate any air from the system, 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 (2) and pump several times to ensure full internal lubrication and to bleed air from the system.
 - c) When complete place the handle back over the release valve (1) and turn clockwise to close.
 - **WARNING! Ensure that you prepare vehicle and use jack according to Section 1 SAFETY INSTRUCTIONS.**
- Check that the supporting ground upon which the jack will stand is level and solid and not tarmac.
- 3.2. Position the jack saddle (4) under the vehicle manufacturer's recommended lifting point, ensuring that the saddle is correctly centred beneath the load. Ensure that the jack is positioned to avoid having to operate it from under the vehicle, and that the handle is free to move up and down.
 - 3.3. Pump the handle up and down using full stroke range so that the saddle quickly reaches the working height.
 - 3.4. Should the jack become overloaded, a safety excess pressure valve will open and stop the vehicle from lifting.
 - 3.5. **Position axle stands under the vehicle before attempting any work.**
 - 3.6. Lowering the load
 - 3.6.1. 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.
 - 3.6.2. The lowering speed is controlled by the amount you turn the release valve (1). Turn anti-clockwise and lower carefully, avoiding sudden release.

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

fig. 1



4. MAINTENANCE

Lifting Operations and Lifting Equipment Regulations (LOLER) 1998.

This jack, depending on use, may fall within the scope of LOLER. It is the owner's responsibility to determine whether or not it does and, if so, to comply with any applicable requirements, in LOLER, for having the jack thoroughly examined.

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 this may cause serious damage to the jack and will invalidate the warranty!**
- 4.1. When the jack is not in use, the ram must be in the lowest position to minimise ram and piston corrosion. Remove the handle to inactivate jack.
- 4.2. Keep the jack clean and lubricate all moving parts with acid-free oil on a regular basis.
- 4.3. To check oil level, fully lower jack. Remove filler plug. The correct oil level should be to the same level as the filler opening.
- 4.4. After a year of extensive use, the oil should be replaced in order to extend the life of your jack. To drain the oil, remove the filler plug and release valve. Make sure that no dirt is allowed to enter the jack.
- 4.5. To replace the oil, fill as required. Pump (unloaded jack) 5 or 6 times to expel air. Pump jack to full height and allow excess oil to run off before refitting plug. **Note: Ensure waste oil is disposed of in accordance with local authority regulations.**
- 4.6. Before each use check for broken, cracked, bent, or loose parts. Also check for any visible damage to welds, ram, pump, body or stand. If any suspect item is found remove jack from service and take the necessary action to remedy the problem. DO NOT use the jack if it is believed to have been subjected to abnormal load or shock. Inspect and take appropriate action.
- 4.7. Periodically check the pump piston and piston rod for signs of corrosion. Clean exposed areas with a clean oiled cloth.


IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THE JACK.

De-commissioning: If the jack eventually becomes completely unserviceable, draw off the oil into an approved container and dispose of the jack and the oil according to local regulations.

5. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Jack will not lift the load	1) Overloaded 2) Oil level low 3) Release valve not correctly closed 4) Air in system 5) Ram not functioning 6) Packing worn or defective	1) Be sure to use a 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) Clean and replace oil. 6) Replace packing.
Jack does not lift high enough or feels "spongy"	1) Oil level too low 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 lifts poorly	1) Pump packing or valves malfunctioning 2) Oil is dirty 3) Air in the system	1) Replace packing and/or clean valves. 2) Replace oil. 3) Open release valve and air vent (if fitted) and pump the handle a few times. Close valve and re-try.
Jack lifts but will not hold load	1) Release valve partially open 2) Dirt on valve seats 3) Air in system 4) Faulty seals 5) Packing worn or defective	1) Check and close release valve. 2) Lower jack, close release valve. Pull up lifting arm to it's 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) Replace packing or contact local service agent. 5) Replace packing.
Jack will not lower completely	1) Unit requires lubrication 2) Ram damaged 3) Air in system 4) Release valve partially open	1) Oil all external moving parts. 2) Contact 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 open release valve further.
Jack does not lower at all	1) Release valve still closed	1) Check and open release valve.

6. DECLARATION OF CONFORMITY

Declaration of Conformity We, the sole importer into the UK, declare that the product listed below is in conformity with the following standards and directives.	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 35 TON BOTTLE JACK 93/68/EEC CE Marking Directive 98/37/EC Machinery Directive </div>	<p>The construction files for this product are held by the Manufacturer and may be inspected, by a national authority, upon request to Mc Nair Engineering Ltd.</p> <p>Signed by Ian Mc Nair  1st August 2003</p> <div style="text-align: right; font-size: 2em; font-weight: bold;">CE</div>

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.

IMPORTANT: No liability is accepted for incorrect use of product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

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