



# INSTRUCTIONS FOR: ALUMINIUM RACING JACK MODEL: 1000RJX

Your new jack is produced and manufactured to a high standard of dependability and will, if used according to these instructions and properly maintained, give you years of trouble free performance.



**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 PRECAUTIONS

- ✓ Ensure the jack is in sound condition and good working order. Take action for immediate repair or replacement of damaged parts.  
*Use genuine parts only. The use of unapproved parts may be dangerous and will invalidate the warranty.*
- ✓ Locate the jack in a suitable, well lit work area.
- ✓ Keep work area clean and tidy and free from unrelated materials.
- ✓ Use jack on level and solid ground, preferably concrete. *Avoid tarmac as jack may sink in.*
- ✓ Place wedges under wheels of vehicle (*but ensure wheels of jack can freely move*).
- ✓ Ensure the vehicle handbrake is engaged, engine is switched off and transmission is in gear (or "PARK" if automatic).
- ✓ Ensure minimum distance of 0.5m between vehicle and static objects such as doors, walls, etc., to allow for vehicle tilting.
- ✓ Ensure all non-essential persons keep a safe distance whilst the jack is in use.
- ✓ Ensure there are no passengers in the vehicle.
- ✓ Place jack under only those lifting points recommended by vehicle manufacturer (*see vehicle handbook*).
- ✓ Check that the lifting point is stable and centred on the jack saddle.
- ✓ Ensure that you can see the saddle and vehicle lifting point at all times during jacking.
- ✓ Ensure the jack wheels are free to move and that there are no obstructions.
- ☐ **DANGER:** *Use the jack for lifting only, NOT for supporting the lifted load.*
- ✓ Ensure there are no persons or obstructions beneath the vehicle before lowering.
- ✓ Use suitably rated axle stands under the vehicle before proceeding with any task.
- ✓ Use a qualified person to lubricate and maintain the jack.
- ✓ Confirm that the recommended *hydraulic jack oil* is used during maintenance.
- ✗ DO NOT operate the jack if damaged.
- ✗ DO NOT allow untrained persons to operate the jack.
- ✗ DO NOT exceed the rated capacity of the jack.
- ✗ DO NOT allow the vehicle to move during jacking, or use the jack to move the vehicle.
- ✗ DO NOT jack vehicle if there is a risk of spillage of fuel, battery acid, or other dangerous substances.
- ✗ DO NOT work under the vehicle until suitably rated axle stands have been correctly positioned.
- ✗ DO NOT use the jack for purposes other than that for which it is designed.
- ✗ DO NOT top up hydraulic system with brake fluid. Use hydraulic jack oil only.
- ✗ DO NOT adjust the safety overload valve.
- ✓ When not in use store jack, fully lowered, in a safe, dry, childproof area.

Model 1000RJX Specification	
Capacity	1000kg
Min. saddle height	87mm
Max. saddle height	446mm
Hydraulic lift	359mm
Length/Width/Height	600/290/155mm
Weight	17kg

## 2. ASSEMBLY

- 2.1. Remove location bolt from the handle base. Insert jack handle and replace the bolt to engage with the end of the handle. Check that rotating the handle rotates the release valve shaft.

## 3. OPERATING INSTRUCTIONS

### 3.1. Before first use

Note that the jack has side handles to assist in carrying and positioning the unit.

- 3.1.1. Before using the jack, purge hydraulic circuit in order to eliminate any air in the system by turning the handle anti-clockwise to open the release valve (fig.1) and pumping 3 or 4 times.
- 3.1.2. Place a few drops of hydraulic jack oil on the pump piston and pump the handle several times to distribute the oil. Thoroughly lubricate all moving parts.

### 3.2. General jacking

☐ **WARNING!** *Before lifting ensure Section 1 safety instructions are strictly followed.*

- 3.2.1. Prepare the vehicle as mentioned in the safety instructions ensuring the ground on which the jack is to stand is level and solid (not tarmac).
- 3.2.2. Position the jack saddle under the vehicle manufacturer's recommended lifting point.

### 3.3. Jacking the vehicle

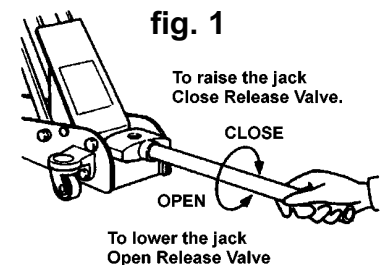
- 3.3.1. Turn the handle clockwise to close the release valve and commence pumping the handle up and down using maximum strokes until the vehicle reaches the working height.
- 3.3.2. Should the jack become overloaded, a safety valve will open and stop the vehicle from lifting.

**Note:** *Ensure that you can see the saddle and vehicle lifting point at all times during jacking so that you will be immediately aware of any movement of the lifting point on the saddle and/or any distortion/failure of the lifting point.*

### 3.4. Lowering the vehicle

- 3.4.1. Turn the handle anti-clockwise, very slowly, to open the release valve.
- 3.4.2. The lowering speed is controlled by the amount you turn the handle. Lower carefully and slowly, avoiding any sudden changes in descent rate which would shock load the hydraulic system.

☐ **WARNING!** *Ensure that there are no persons or obstacles beneath the vehicle, or in the path of descent.*



## 4. MAINTENANCE

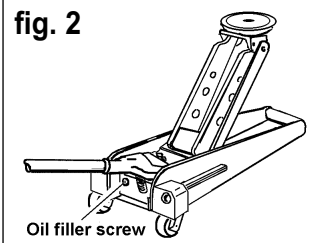
**IMPORTANT:** Only fully qualified personnel should attempt maintenance or repair.

- 4.1. When the jack is not in use, the ram should be in its lowest position to minimise 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 the oil level, fully lower the jack. Remove knurled filler screw (fig.2). The correct level is the bottom of the screw hole. If oil level is low, fill as required.

**NOTE:** Use a good quality jack oil, such as SEALEY HYDRAULIC JACK OIL.

- 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!
- 4.4. Before each use check for broken, cracked, bent or loose parts, or any visible damage to ram, pump, saddle, lifting arm, frame and all parts including nuts, bolts, pins and other fasteners. If any suspect item is found remove jack from service and take the necessary action to rectify. DO NOT use the jack if it is believed to have been subjected to abnormal load or shock. Inspect and take appropriate action.
  - 4.5. After one year the oil should be replaced in order to extend the life of the jack. To drain the oil, remove the filler plug and raise the front of jack. Make sure that no dirt is allowed to enter the hydraulic system. See 4.3. for refill instructions.
  - 4.6. Periodically check the pump piston and the ram for signs of corrosion. Clean exposed areas with a clean oiled cloth.

fig. 2



Oil filler screw

**IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THIS PRODUCT.**

Hydraulic products are only repaired by local service agents. We have service/repair agents in all parts of the UK.

**DO NOT RETURN JACKS TO US.** Please telephone us on 01284 757500 to obtain the address and telephone number of your local agent. If jack is under guarantee you can also contact your local dealer.

### De-commissioning the jack

Should the jack become completely unserviceable, draw off the oil into an approved container and dispose of the jack and the oil according to local regulations.

## 5. TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Jack will not lift the load	<ol style="list-style-type: none"> <li>1) Overloaded</li> <li>2) Oil level low</li> <li>3) Release valve not correctly closed</li> <li>4) Air in system</li> <li>5) Piston rod not functioning</li> <li>6) Packing worn or defective</li> </ol>	<ol style="list-style-type: none"> <li>1) Be sure to use a jack with adequate capacity.</li> <li>2) Top up oil level.</li> <li>3) Check and close release valve.</li> <li>4) Open release valve and pump the handle a few times. Close valve and re-try.</li> <li>5) Clean and replace oil.</li> <li>6) Replace packing.</li> </ol>
Jack does not lift high enough or feels "spongy"	<ol style="list-style-type: none"> <li>1) Oil level too high/ too low</li> <li>2) Worn seals</li> <li>3) Air in system</li> <li>4) Release valve not closed</li> </ol>	<ol style="list-style-type: none"> <li>1) Remove/top-up oil.</li> <li>2) Return jack to local service agent.</li> <li>3) Open release valve and pump the handle a few times. Close valve and re-try.</li> <li>4) Check and close release valve.</li> </ol>
Jack lifts poorly	<ol style="list-style-type: none"> <li>1) Pump packing or valves malfunctioning</li> <li>2) Oil is dirty</li> <li>3) Air in the system</li> </ol>	<ol style="list-style-type: none"> <li>1) Replace packing and/or clean valves.</li> <li>2) Replace oil.</li> <li>3) Open release valve and pump the handle a few times. Close valve and re-try.</li> </ol>
Jack lifts but will not hold load	<ol style="list-style-type: none"> <li>1) Release valve partially open</li> <li>2) Dirt on valve seats</li> <li>3) Air in system</li> <li>4) Faulty seals</li> <li>5) Packing worn or defective</li> </ol>	<ol style="list-style-type: none"> <li>1) Check and close release valve.</li> <li>2) Lower jack, close release valve. Place foot on front wheel and pull up lifting arm to full height by hand. Open the release valve to lower arm.</li> <li>3) Open release valve and pump the handle a few times. Close valve and re-try.</li> <li>4) Replace packing or contact local service agent.</li> <li>5) Replace packing.</li> </ol>
Jack will not lower completely	<ol style="list-style-type: none"> <li>1) Unit requires lubrication</li> <li>2) Piston rod bent or damaged</li> <li>3) Jack frame/link system distorted due to overloading/poor positioning</li> <li>4) Air in system</li> <li>5) Release valve partially closed</li> <li>6) Jack spring damaged</li> </ol>	<ol style="list-style-type: none"> <li>1) Oil all external moving parts.</li> <li>2) Replace rod or contact local service agent.</li> <li>3) Replace damaged parts or contact local service agent.</li> <li>4) Open release valve and pump the handle a few times. Close valve and re-try.</li> <li>5) Check and fully open release valve.</li> <li>6) Replace spring or contact local service agent.</li> </ol>
Jack does not lower at all	<ol style="list-style-type: none"> <li>1) Release valve closed</li> </ol>	<ol style="list-style-type: none"> <li>1) Check and fully open release valve.</li> </ol>

## 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.

**ALUMINIUM RACING JACK**  
**Model: 1000RJX**

93/68/EEC CE Marking Directive  
 98/37/EC Machinery Directive



The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman

29th May 2001

For Jack Sealey Ltd. Sole importer into the UK of Sealey Quality Machinery.



Sole U.K. Distributor,  
 Sealey Group,  
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