

# HYDRAULIC BOTTLE JACKS

ALL JACKS COMPLY WITH AS/NZS 2693:2007

## OWNERS MANUAL

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## OPERATING INSTRUCTIONS



**BLACK Series**

JAX004  
JAX006  
JAX008  
JAX010  
JAX015  
JAX020



**SQUAT Series**

BJS012  
BJS020

*A JACK FOR ALL REASONS*

MANUFACTURED FOR BEAVER BRANDS

[www.beaver.com.au](http://www.beaver.com.au) | 1300 783 606

# **WARNING**

**THE JACK SHOULD BE USED ON LEVEL FIRM GROUND WHEREVER POSSIBLE. DO NOT GET UNDER A VEHICLE THAT IS SUPPORTED BY A JACK. USE VEHICLE SUPPORT STANDS.**



**WARNING: INCORRECT USE MAY RESULT IN POSSIBLE LOSS OF LOAD, DAMAGE AND PERSONAL INJURY.**

## **SAFE USAGE INSTRUCTIONS**

### **IT IS RECOMMENDED THAT:**

1. Before lifting the vehicle consult the vehicle owner manual for the correct lifting and support points
2. The jack should be used for lifting and lowering only. The raised vehicle should be supported on properly rated vehicle support stands
3. Ensure the load to be lifted does not exceed the capacity of the jack
4. The jack should be used on level firm ground wherever possible
5. The gear shift must be in 'Park' for automatic transmission and 1st gear for manual
6. The hand brake is fully applied
7. The un-lifted wheels are chocked
8. Position the Head Cap centrally under the load or lifting point, ensuring the load is applied through the centre of the Head Cap
9. No person should remain in the vehicle that is to be jacked

**NOTES : The numbers in brackets refer to diagram on page 4**

When this jack leaves the factory the oil chamber contains the correct amount of oil. Before using for the first time, remove the oil reservoir plug (6) and check the oil level. The oil level should be within 3mm of the bottom of the filler hole.

## **USE ISO GRADE 10 TO 15 HYDRAULIC JACK OIL**

Sometimes during shipment or when changing the oil, air may get trapped in the hydraulic system causing poor performance. To purge any air from the system and with the jack in an upright position, open the oil reservoir plug (6), place a cloth over the filler hole and pump the handle 7 to 10 times in quick succession. This will purge any air from the system.

# A. OPERATING INSTRUCTIONS

**BEFORE USE : Visually inspect the jack for any abnormal conditions and refer to the preceding. WARNINGS, SAFE USAGE STATEMENTS and NOTES.**

## 1. TO RAISE THE LOAD

- a. With the jack in the lowered position turn the release valve (04), with the end of the jack handle (34) in a clockwise direction until it is firmly closed.
- b. To maximize the lifting height, unscrew the extension screw /head cap (24) to the required height.
- c. Insert the handle into the handle sleeve (17) and raise the ram (25) by operating the handle up and down until contact is made with the lifting point.
- d. Position the Head Cap centrally under the load or lifting point and ensure the load is applied through the centre of the head cap. NB. Off-centre loads and loads lifted while jack is not sitting level may result in damage and/or injury.
- e. Pump the handle up and down to raise the load to the required height.
- f. Place support stands in the correct position under the load.
- g. Slowly turn the release valve counter clockwise, just sufficiently to allow a gradual decent of the load onto the support stands.

## 2. TO LOWER THE LOAD

- a. Close the release valve (04). Operate the jack to raise the ram to the correct position under the vehicle. Raise the load until the support stands are free. Remove the stands clear of the load.
- b. Slowly turn the release valve counter clockwise using the end of the handle, just sufficiently to allow a gradual decent of the load. If the ram is still partially raised after the load has fully descended, slowly open the release valve one full turn and push the ram down to its lowest position.

# B. GENERAL CARE OF YOUR JACK

1. When jack is not in use, lifting Ram (25), Handle Sleeve (17) and the extension screw (24) should be in the fully lowered position. This will protect precision machined surfaces from corrosion
2. Keep your jack clean and lubricate the pumping collar and extension screw.
3. Service kits: These are available and comprise the necessary washers and seals which would be required for a general overhaul of the hydraulic unit.
4. To add oil; with the ram fully lowered set the jack in an upright position. Wipe away any oil or foreign matter from around the oil reservoir plug (33) then remove it. The oil level should be 3mm below the filler hole. Use only ISO Grade 10 to 15 Hydraulic Jack oil.
5. Oil Change; For best performance and longest life replace the complete oil supply at least once per year. Lay the jack on its side and allow the oil to run out into a suitable drain pan. The oil will run slowly as air must enter as the oil drains out. Be careful not to let dirt or foreign matter to get into the system.

## PURGING AIR FROM HYDRAULIC SYSTEM

Occasionally, air bubbles become trapped inside the jack, reducing its efficiency. Bleed air out of the jack's hydraulic system as follows:

1. Open release valve, remove oil plug.
2. Operate pump rapidly several times to force air out.
3. Close release valve, replace oil plug.

Jack should now operate normally. If not, repeat purging procedure as needed.

# C. PROBLEM SOLVING DETAIL

## QUICK REFERENCE TO PROBLEM SOLVING

Jack will not Raise or Lift Load	Jack will not Lift full Load	Jack will not Lift full height	Jack lowers while under Load	Jack will not lower completely	Jack Handle rises by itself when jack is under load	Refer detailed instructions for possible solutions
<b>X</b>			<b>X</b>			Check release valve is fully closed
<b>X</b>						C.1.(a) to (c)
	<b>X</b>					C.2.(a) to (c)
			<b>X</b>			C.3.(a) to (d)
				<b>X</b>		C.4.(a) to (c)
		<b>X</b>				C.1.(a), (b)
					<b>X</b>	C.1.(b), 3.(a)

### 1. IF JACK WILL NOT RAISE OR LIFT LOAD

- Before attempting to locate the specific trouble, inspect oil level in the following manner. Place jack vertically on a level surface. Open release valve (04). Fully lower the lifting Ram (25). Wipe away any oil or other contaminants from the Oil Reservoir Flag (33) and remove. Correct oil level should be 3mm below the oil filler hole. If lacking oil, fill to the correct level using ISO Grade 10 to 15 Hydraulic Jack Oil. Replace oil reservoir plug. Close release valve and pump the lifting ram up to it's full height. Then open release valve and, with pressure on the Head Cap (24), force it to lower as rapidly as possible. Repeat this operation three or four times. This procedure will thoroughly flush the valves and ensure complete distribution of oil. In most cases it will restore the jack to proper working order. Close release valve tightly and try jack under load.
- The jack may have air trapped in the system. With the jack in the upright position firstly wipe away any oil or foreign matter from around the oil reservoir plug then remove it. Purge any air from the system placing a cloth over the filler hole and pump the handle 7 to 10 times in quick succession. This will force the air out.
- The plunger seal may be worn. Disconnect pivot pin (18) and remove pump assembly (8 to 16), and replace seal (09). Re-assemble and try jack under load.

### 2. IF JACK WILL NOT LIFT FULL CAPACITY

- The unit may have air trapped in the system. See instruction C. 1 (b).
- The plunger seal may be worn. Ref. C I (c)
- The discharge valve may have dirt under it or may need re-seating.

### 3. IF JACK LOWERS UNDER LOAD

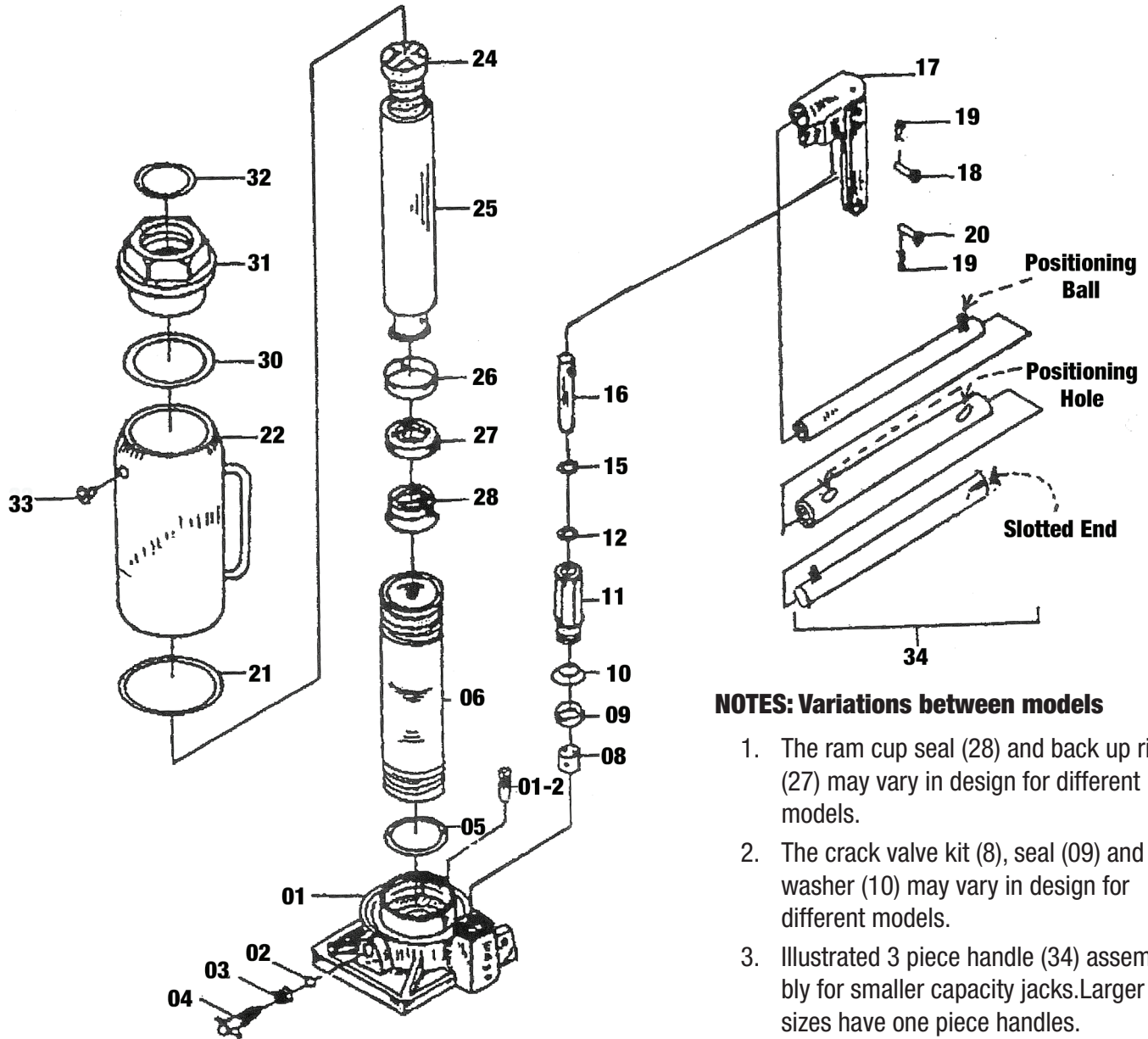
- The discharge valve may be held open by dirt on ball seat. When a dirty discharge valve or ball seat exists, the jack may lower quickly, causing handle to fly up with force. This is caused by the oil rushing back into the pump chamber through the open ball seat. When this happens, it is advisable to repeat procedures i .a & 1.b before going through the partial disassembly of the hydraulic unit. The discharge valve is located at the bottom of the ram cylinder.
- Procedure to disassemble hydraulic unit: Fully open release valve (04). Remove oil reservoir plug (33) and empty oil into a clean vessel. Remove top nut (31) and reservoir (22). Withdraw ram assembly (24 to 28). It is now possible to remove the cylinder (06) using multi-grips. The discharge valve is located in the base, under the sealing washer. Remove the seal (05) and the 5mm ball and then clean and check the valve seat. Wipe the ball and replace to re-seat the ball on its seat, place a 5mm dia. X 75mm punch on top of ball and lightly tap it with a small hammer. Re-install the components, replace seal (05) and screw in ram cylinder tightly. Replace top and bottom seals (21,30), install the ram assembly carefully and then screw in and tighten the top nut.
- Cup seal for the ram may be worn: This is likely only in jacks that have given very heavy service. Follow above procedure 2-(a) until access to ram assembly is made. Remove worn seal (28) by pulling away or cutting with a small knife. Take caution not to damage the new ram seal when installing.
- Dirt in the release valve will cause jack to lower under load.  
Remove release valve (02 to 04), clean valve seat and components and re-install.

### 4. IF THE JACK WILL NOT LOWER COMPLETELY

- RAM:** Hydraulic unit may contain too much oil. Remove oil reservoir plug (33) and check oil level. Oil should be 3mm below the filler hole when the ram is completely lowered.
- EXTENSION SCREW:** Screw thread may require cleaning, be damaged or bent.

# CONSTRUCTION DIAGRAM

JAX020, BJS012 & BJS020



## NOTES: Variations between models

1. The ram cup seal (28) and back up ring (27) may vary in design for different models.
2. The crack valve kit (8), seal (09) and washer (10) may vary in design for different models.
3. Illustrated 3 piece handle (34) assembly for smaller capacity jacks. Larger sizes have one piece handles.

Item No.	Description	Qty
01	Base	1
01-2	Filter	1
*02	Ball 1/4	1
*03	Seal	1
04	Release Valve	1
*05	Oil Seal, Cylinder	1
06	Cylinder	1
08	Check Valve Kit	1
*09	Seal	1
10	Cap Washer	1
11	Pump Cylinder	1
*12	"O" Ring	1
*15	Back Up Ring	1
16	Pump Plunger	1
17	Handle Sleeve	1

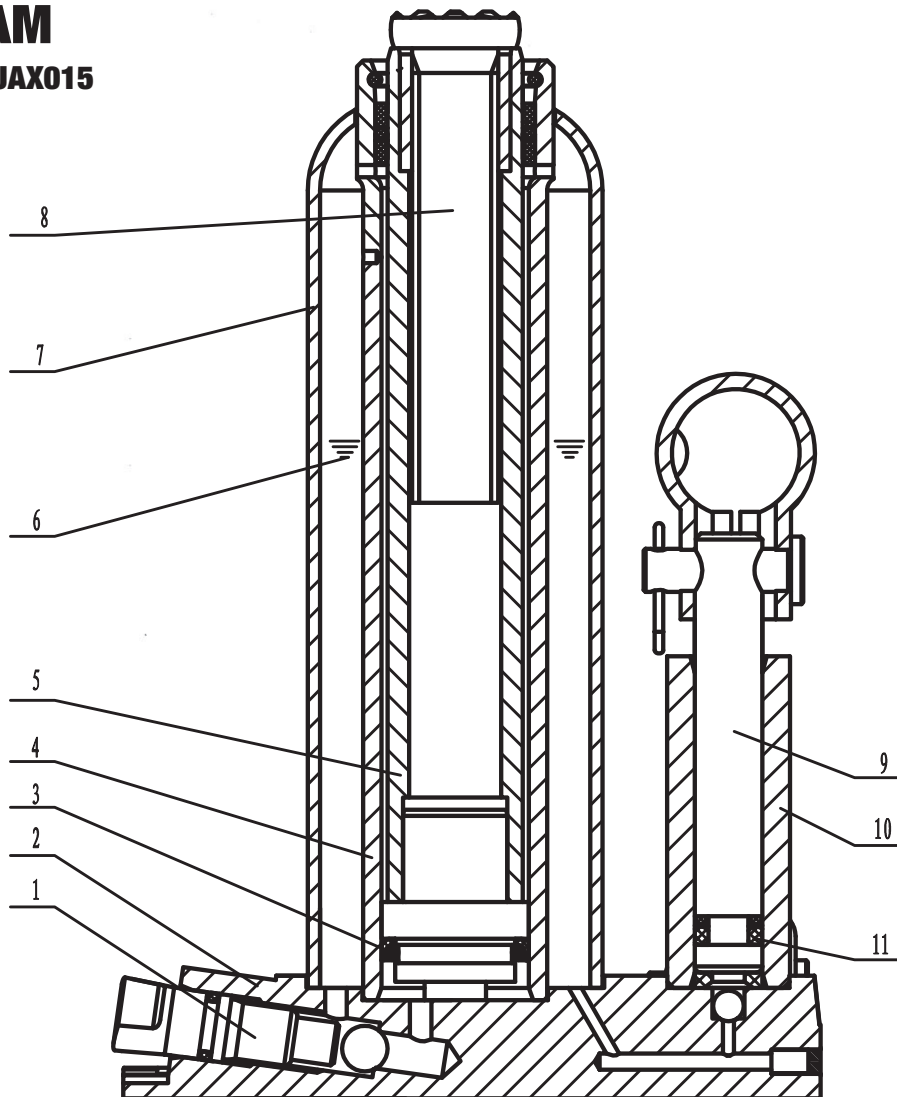
Item No.	Description	Qty
18	Pin	1
19	Cotter Pin	2
20	Pin	1
*21	Packing	1
22	Reservoir	1
24	Extension Screw/Headcap	1
25	Ram	1
26	Bushing	1
*27	Back Up Ring	1
*28	Cup Seal	1
*30	Packing	1
31	Top Nut	1
*32	"O" Ring	1
*33	Oil Reservoir Plug	1
34	Handle	1

\* Indicates that these items are only available in a seal kit.

# CONSTRUCTION DIAGRAM

JAX004, JAX006, JAX008, JAX010 & JAX015

Item No.	Description	Qty
1	Release valve lever	1
2	Base	1
3	O-Ring	1
4	Hydraulic cylinder	1
5	Ram	1
6	Hydraulic Oil	1
7	Oil-tight tank	1
8	Extension screw	1
9	Pump plunger	1
10	Pump body	1
11	O-Ring	1



## WARRANTY POLICY

### IMPORTANT INFORMATION

#### 1 Year Limited Warranty

Beaver offers a one year limited warranty on this product.

This warranty is applicable from 1st January 2012 and supersedes all previous warranties.

Beaver Brands division of Bunzl Brands and Operations Pty Ltd ('Beaver') warrants to the original retail consumer and purchaser that this product will be free from defects in materials and workmanship for one year from the date the product was purchased ('the warranty period').

Beaver will rectify any defect in materials or workmanship appearing within the warranty period by repairing or replacing the product. Beaver will offer a refund of the purchase price if the product cannot be readily and quickly repaired or replaced. Beaver reserves the right to determine whether the product contains any defects in materials or workmanship covered by this warranty.

The benefits offered by this warranty are in addition to your rights and remedies that may apply at law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

#### How to make a warranty claim

To make a claim under this warranty, the product or part must be returned for examination to an authorised service centre nominated by Beaver together with proof of purchase such as the dated sales receipt and an explanation of the problem to be rectified. An authorised service centre can be identified by contacting Beaver at the address or telephone number provided.

Any costs incurred in making a claim under this warranty or returning the product to an authorised service centre is to be borne by the person making the claim unless otherwise agreed by Beaver. If Beaver determines the product contains a defect in materials or workmanship that is covered by this warranty then Beaver will bear the cost of returning the repaired product or replacement product to the person making the claim. If Beaver determines the product does not contain a defect in materials or workmanship covered by this warranty then the cost of returning the product will be at the expense of the person making the claim.

#### Exclusions

This warranty does not apply to any defect caused by, or associated with misuse, abuse, lack of maintenance, negligence or accidents, repairs or alterations not authorised by Beaver.

#### Contact

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