



**Castle** EQUIPMENT  
COMPANY  
SINCE 1950

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WA-72B (2 ton)    WA-73B (4 ton)    WA-75B (10 ton)



WA-85 (20 ton)

# Weaver Jack Seal Kit Instructions

**WA-72B    2 Ton Model**

**WA-75B    10 Ton Model**

**WA-73B    4 Ton Model**

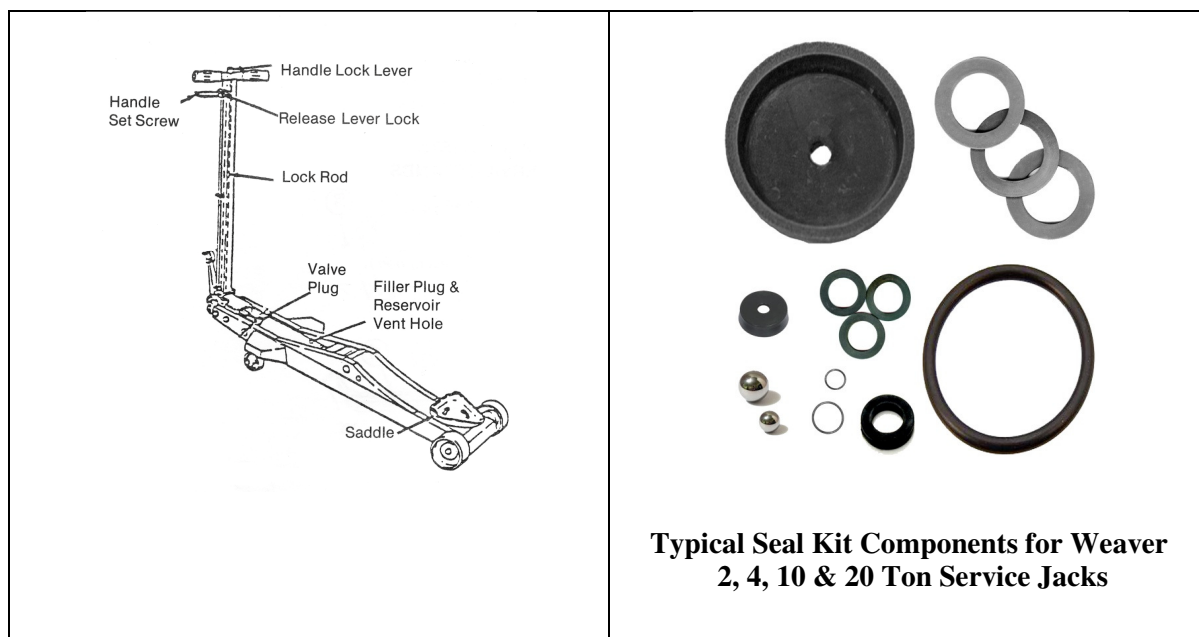
**WA-85    20 Ton Model**

- Seal Kit Identification
- Seal Kit Components
- Installation Instructions

# How Can I Identify My Jack?

Using the following Dimension Chart, -  
Compare Features and Measurements

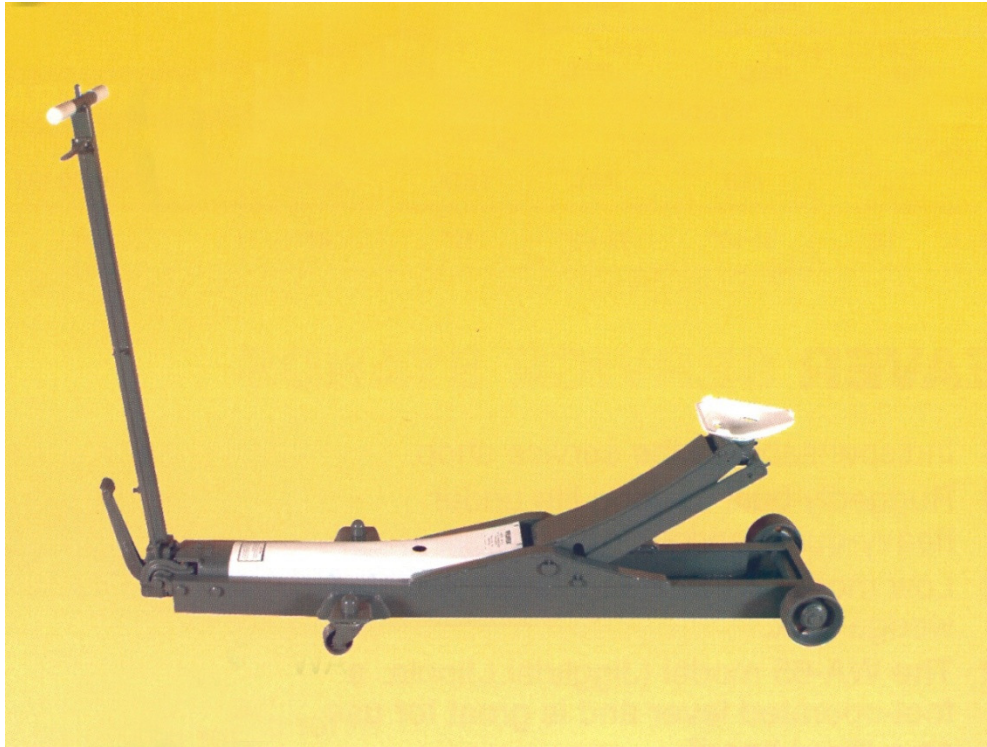
MODEL	CAP. (tons)	FRONT WHEELS	SADDLE STYLE AND SIZE	FRAME LENGTH	JACK WEIGHT
WA-72B	2	Two - 4" Diameter	Triangular or Round 5" to 6"	51"	136 lbs
WA-73B	4	Two - 5" Diameter	Triangular or Round 5" to 6"	58"	212 lbs
WA-75B	10	Two - 7" Diameter	Round 9"	66"	356 lbs
WA-85	20	Three- 7" Diameter	Square 7"	69"	531 lbs



# How Can I Identify The Jack Model Number?

**Using the following Description Chart, -  
Determine Whether You Have an A or B Model**

<b>MODEL</b>	<b>CAP. TONS</b>	<b>CYLINDER DESCRIPTION</b>	<b>KIT #</b>
<b>WA-72A</b>	<b>2</b>	<b>Head of cylinder is held down by TWO Cotter Keys</b>	<b>KJ-106</b>
<b>WA-72B</b>	<b>2</b>	<b>Head of cylinder is held down by Metal Tabs</b>	<b>KJ-106</b>
<b>WA-73A</b>	<b>4</b>	<b>Head of cylinder is held down by TWO Cotter Keys</b>	<b>KJ-107</b>
<b>WA-73B</b>	<b>4</b>	<b>Head of cylinder is held down by Metal Tabs</b>	<b>KJ-107</b>
<b>WA-75A</b>	<b>10</b>	<b>Head of cylinder is held down by A Large Pin Through The Frame</b>	<b>KJ-108</b>
<b>WA-75B</b>	<b>10</b>	<b>Head of cylinder is held down by TWO Bolts Inside Frame</b>	<b>KJ-108</b>
<b>WA-85</b>	<b>20</b>	<b>Head of cylinder is held down by TWO Bolts Inside Frame</b>	<b>KJ-109</b>



## INSTALLATION INSTRUCTIONS FOR WEAVER SEAL KITS

These Jack Cylinder Service Kits are for minor cylinder repairs only, if additional servicing is required have repairs performed by a qualified hydraulic jack repair center.

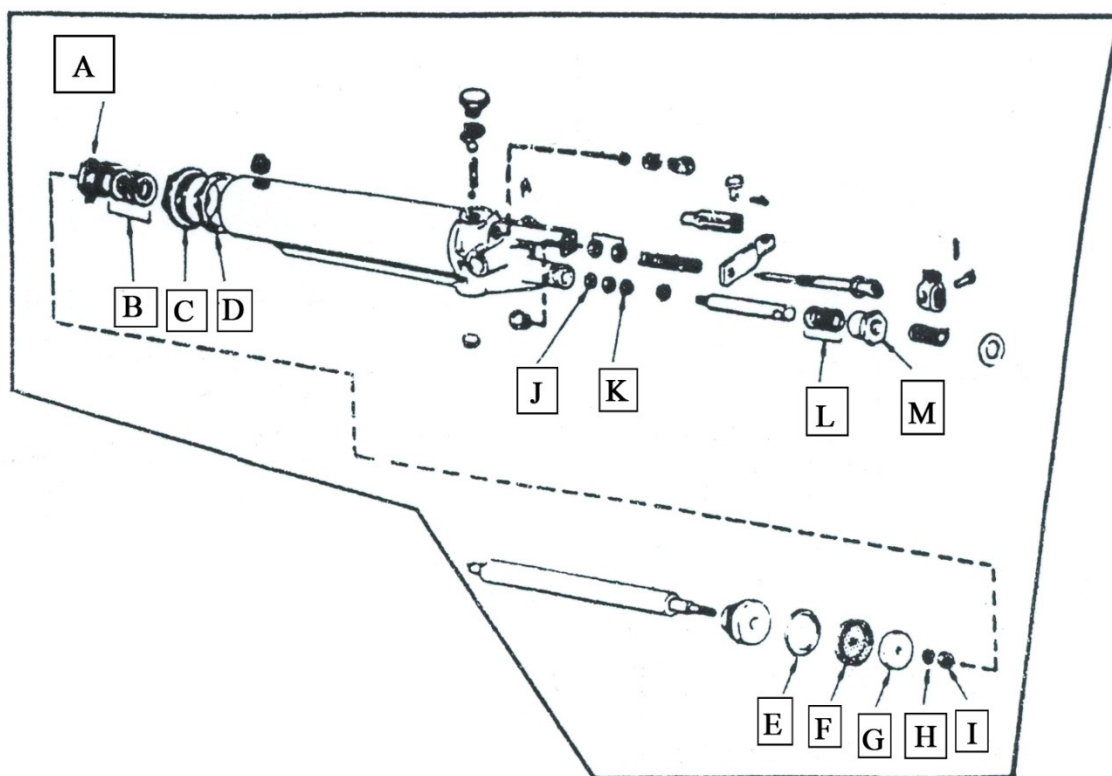
Use Safety Solvent or Mineral Spirits to clean parts—blow dry with compressed air.

**Do not use** Gasoline, lacquer thinner or any other solvents as these will damage the seals.

**Use AW-32 Light Hydraulic Oil (or oil that meets MIL•F•17111 011 specifications)**

## To Remove The Cylinder:

1. Remove the cotter pin (pins) or bolts in the cross head.
2. Remove the cotter and pin in the pump.
3. Remove the cotter and pin in the release yoke.
4. Place cotter key in while depressing foot pedal.  
This allows for easy removal and reassembly if spring is left on return rod.
5. Raise the lifting arm by means of the saddle bracket, and place a block of wood between the arm and frame to hold up the arm.
6. This releases the cylinder at the forward end, so that it may be removed as a complete unit, for service.



## Piston and Pump Assembly Derail for Weaver Jack Cylinders



# Ram Cup Replacement

## To Replace The Piston Ram Cup:

1. After removing the cylinder unit as described above, place it in a vise. **Note that the vise jaws should grip the steel block, not the steel cylinder.** Set the unit in the vise with the steel cylinder and piston up. Remove the vent plug. Drain the oil.
2. Remove the Packing Nut [A] and three Packings [B] .Unscrew the cylinder cap [C] and lift the piston out of the cylinder.
3. Remove the nut [I], Lock Washer [H], and washer [G] which holds the cup [F] at the end of the piston--put in the new cup [F], and replace the nut and washer. (The Backup Teflon Ring [E] is only used on certain – but not all WA-75A models only) Either peen the threads with a punch or use a thread locking compound to prevent nut from loosening.
4. In fitting the new cup into the cylinder, **USE GREAT CARE** as the cup passes the filler plug hole not to cut or otherwise damage the cup. Lubricate the cup with hydraulic oil when assembling.
5. Replace the Cylinder Cap [C] and Gasket [D] -- install the 3 new Packings [B] and the Packing Nut [A].

## CAUTION

Excessive friction, chatter and binding will occur if the cup nut is pulled down too tightly.

**TIP** This means that you use only enough pressure to close the spring lock washer [H]. Do not tighten until the cup heel begins to extrude (swell) as this may cause problems

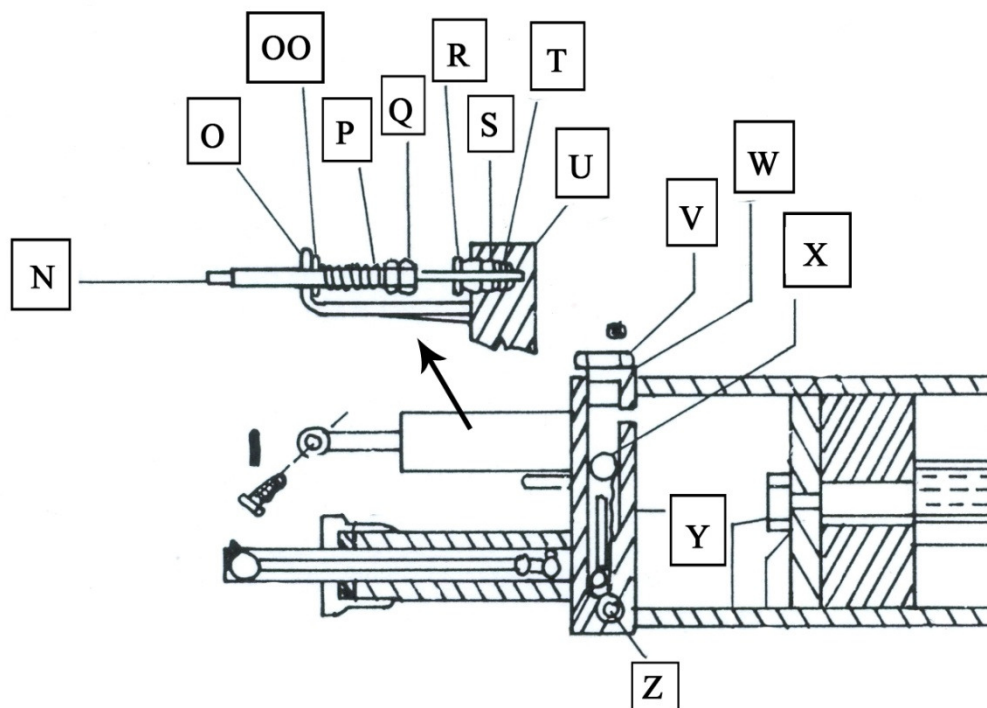
When servicing a jack with a synthetic cup, it may appear that the nut has become loosened, but this is not necessarily true. It is only necessary to hold the cup against the ram with slight pressure to prevent leakage.



# Pump Cup Replacement

## To Replace The Pump Cup (small cup):

1. Turn the cylinder unit pump end upward in the vise.
2. Unscrew the packing nut [M] - Remove three Packings [L] and pull out the pump plunger. Remove the Nut [J] that holds Cup [K] to the end of plunger; insert new cup, new packings and replace the nut and washers.
3. Lubricate the cup with hydraulic oil when reassembling. Either peen the threads with a punch or use a thread locking compound to prevent the nut from loosening.



## Release Valve Group and Ball Valve Assembly Derail



# Ball Valve Replacement

## Ball Valve Replacement:

1. Remove the Ball Chamber Plug [V]. Remove the Two Balls [X&Z] and the Ball weight [Y].
2. Reassemble with the two new Balls [X&Z], New Plug Gasket [W] and Ball Weight [Y] (reuse the existing Ball weight). Ball Weight is installed between the two balls.

**IMPORTANT:** Whenever it is necessary to loosen or remove the Ball Chamber Plug, the Gasket [W] should be replaced with a new one. Oil leakage at this point is usually caused by trying to reuse an old gasket over again.



# Release Valve Packing Housing "O"-Ring Replacement

## Release Group Needle Valve Packing “O” Rings Replacement:

1. Measure accurately the distance from the Bracket [O] to the first Nut [P] on the compression spring. **Write this measurement down.** (This is approximately 2 inches)
2. Loosen the Packing Nut [R]. Remove Nuts [P] & [Q], the Spring, the Valve Rod [N] , the Valve Guide [OO] and the Packing Nut [R]. It is not necessary to remove the rod clevis.
3. Remove the Packing Housing [S] and replace the two “O” rings [T&U]. Now reinsert the Packing Housing [S]. Reassemble the Needle Valve and parts with the Packing Nut [R] tightly secured.
4. Tighten the adjusting nut [P] to the original **dimension that you wrote down** and lock this nut with Nut [Q].





**Release Valve Group (upper ) - Pump Assembly (lower)**

## **Release Group - Needle Valve Adjustment**

### **Release Group Needle Valve Adjustment:**

In the release group assembly, the spring governs the load that the Jack will lift. When the pressure within the cylinder overcomes the spring tension then the release valve floats off the seat. It is Imperative that the release valve floats freely in the release group assembly. To check- use your forefinger and thumb to grasp the release valve where the release clevis pin passes thru, and wiggle from side to side. There should be a minimum of .002 to .004 clearance in the Release Valve Guide [OO]. If no movement is noted, follow these steps:

Refer to above Diagram

Measure accurately the distance from the Bracket [O] to the first Nut [P] on the compression spring. **Write this measurement down.** (This is approximately 2 inches)

Remove Nuts [P] & [Q], the Spring, the Valve Rod [N] and the Valve Guide [OO]. It is not necessary to loosen the Packing Nut.

**Next**, insert the Valve Rod [N] thru the Bracket's [O] opening, slide the Release Valve Guide [OO] onto the rod, but not seated in the hole, and insert the rod [N] into the Packing Nut's [R] opening.

**Gently** Tap the end of the release rod [N] with a hammer until it stays firmly seated in the internal needle seat.

Slide the Release Valve Guide [OO] towards the Bracket [O] (normally it will smoothly fit into the bracket hole) and then noting where the center alignment of the rod in the bracket hole is off -- Tap the welded bracket accordingly with a hammer to gently bend the bracket and correct the misalignment. It is in alignment when you can smoothly slide the Valve Guide into the Bracket's hole.

Reassemble the Release Valve and parts. Tighten the adjusting nut [P] to the original **dimension that you wrote down** and lock this nut with Nut [Q] and then test the Jack for proper operation.

## Troubleshooting

SYMPTOMS		CORRECTIVE ACTION
1. Jack will not raise saddle.		1. Check the oil level. 2. Perform the Ball Valve Test
2. Oil spurts out the vent hole.		1. The jack is overfilled with oil.
3. Jack will only lift part way up.		1. It may be low on oil. Check and refill.
4. Jack will not lift a load.		1. Check for proper oil level. 2. If pumping fails to raise the rated load, the lower ball valve may be leaking, and it should be inspected for dirt or other obstructions.
5. If the load rises on the down stroke of the handle and then immediately settles back down while forcing the jack handle up.		This means that the upper ball valve may be leaking, and it should be inspected for dirt or other obstructions.
6. Jack bleeds down while under load.		1. The Release Handle may not be closed 2. The Release Valve may be leaking. Replace the release valve packing housing "O" Rings. 3. The Release Needle Valve may need to be adjusted.
7. Jack only rises on half-stroke, and then settles back down while forcing the handle up.		This means that the jack may be Air Bound.

<b>KJ-106 Seal Kit</b> <b>for Weaver WA-72B 2 Ton Jack</b>	<b>KJ-107 Seal Kit</b> <b>for Weaver WA-73B 4 Ton Jack</b>
<p><b>Contains:</b></p> <p> <b>S-6654 Piston Packing (3)</b>  <b>S-22961 Cylinder Cap Gasket</b>  <b>S-6016 Piston Ram Cup</b>  <b>S-7265 Pump Cup</b>  <b>S-7492A Pump Packing (3) 1-1/2"O.D.*</b>  <b>S-17829 Large "O" Ring</b>  <b>S-15047 Small "O" Ring</b>  <b>S-2594 Ball Chamber Gasket</b>  <b>S-2750 Ball 1/2"</b>  <b>S-2505 Ball 5/16"</b>  <b>S-2499 Cotter Pin (2)</b>  <b>S-3234 Cotter Pin</b> </p> <p><b>*Note: Older style WA-72 Jack requires additional parts. If the rear of the cylinder is a casting which is held down by TWO Cotter Keys - it is an old style</b></p> <p><b>Order the following Additional Parts:</b>  <b>Qty 3 ea S-7492 Packing 1-1/8" O.D.</b></p> <p><b>(New Style is a Machined Block which is held down by Metal Tabs)</b></p>	<p><b>Contains:</b></p> <p> <b>S-6614 Piston Packing (3)</b>  <b>S-22962 Cylinder Cap Gasket</b>  <b>S-4714 Piston Ram Cup</b>  <b>S-24648 Pump Cup</b>  <b>S-7412 Pump Rod Packing (3)</b>  <b>S-17829 Large "O" Ring</b>  <b>S-15047 Small "O" Ring</b>  <b>S-2594 Ball Chamber Gasket</b>  <b>S-2750 Ball 1/2"</b>  <b>S-2505 Ball 5/16"</b>  <b>S-2499 Cotter Pin (2)</b>  <b>S-3234 Cotter Pin</b> </p>

<b>KJ-108 Seal Kit</b> <b>for Weaver WA-75B 10 Ton Jack</b>	<b>KJ-109 Seal Kit</b> <b>for Weaver WA-85 20 Ton Jack</b>
<p><b>Contains:</b></p> <p><b>S-6615 Piston Rod Packing (3)</b>  <b>S-22963 Cylinder Cap Gasket</b>  <b>S-24649 Piston Ram Cup</b>  <b>S-24648 Pump Cup</b>  <b>S-7412 Pump Rod Packing (3)</b>  <b>S-17829 Large "O" Ring</b>  <b>S-15047 Small "O" Ring</b>  <b>S-5125 Ball Chamber Gasket</b>  <b>S-5122 Ball 5/8"</b>  <b>S-3282 Ball 3/8"</b>  <b>S-3083 Cotter Pin</b>  <b>S-24703 Teflon Ring</b></p>	<p><b>Contains:</b></p> <p><b>S-16022 Piston Rod Packing (3)</b>  <b>S-22964 Cylinder Cap Gasket</b>  <b>S-16023 Piston Ram Cup</b>  <b>S-24648 Pump Cup</b>  <b>S-7412 Pump Rod Packing (3)</b>  <b>S-17829 Large "O" Ring</b>  <b>S-15047 Small "O" Ring</b>  <b>S-5125 Ball Chamber Gasket</b>  <b>S-5122 Ball 5/8"</b>  <b>S-3282 Ball 3/8"</b>  <b>S-3083 Cotter Pin</b></p>



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