

## Model WA-72A & WA-72B

# PARTS BREAKDOWN SERVICE MANUAL

For Parts, Please Contact

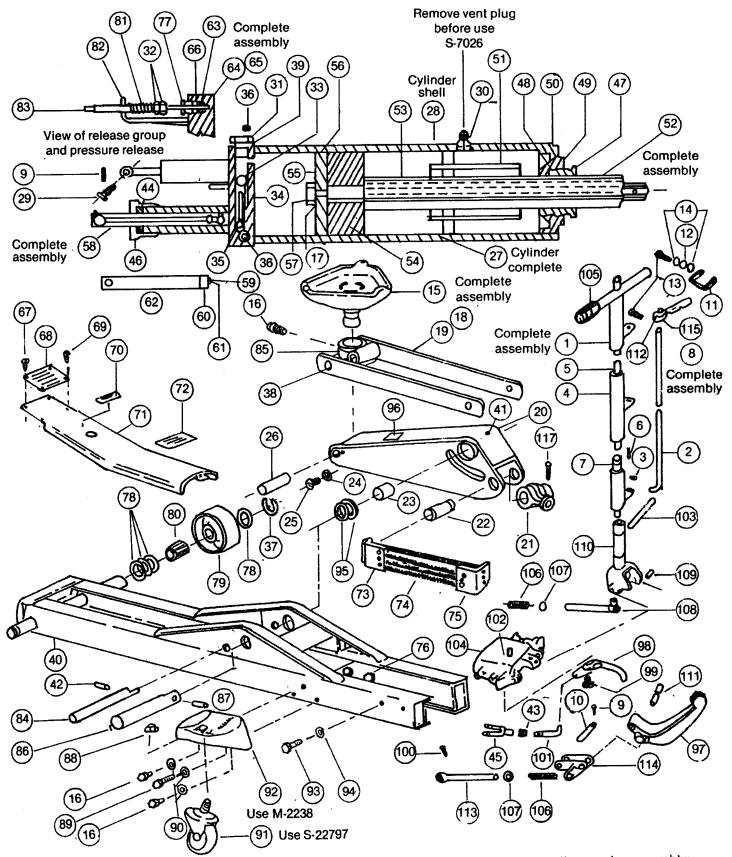


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#### Repair Parts List WA-72-B



Note (1): Made with two or three spring assembly; see WA-72A for two spring assembly.

## Repair Parts List WA-72B

| Item<br>No.                            | Part<br>No.   | Qty. Description   | ltem<br>No.                            | Part<br>No.  | Qty.   | Description   |
|--|---|--|--|--|--|---|
| 2.<br>3.<br>4.<br>5.<br>6.<br>7.<br>8. | AS-6565<br>S-6637<br>S-102<br>AS-5129<br>AS-6641<br>S-4074<br>S-1353<br>AS-22107<br>S-275 | 1 Handle Assembly 1 Release Rod 1 Sq. Hd. Set Screw 3/8/16 x 3/4" 1 Handle 1 Lock Rod 1 Cotter Pin 1/16 x 3/4 1 Handle Spring 1 Release Handle Assembly 3 Cotter Pin 1/8 x 3/4 | 61.<br>62.<br>63.<br>64.<br>65.<br>66. | S-7265<br>S-7050<br>S-7443<br>AS-21052<br>S-17829<br>S-21051<br>S-15047<br>S-12660 | 1 Pump<br>1 Packi<br>1 O-Rin<br>1 Packi<br>1 O-Rin | er 17/64 ID x 15/32 OD Delunger Ing Assembly Ing Housing Ing Housing Ing Housing Ing Self-Tapping Screw |
| 10.<br>11.<br>12.<br>13.<br>14.        | S-7299<br>S-7075<br>S-13520<br>S-23872<br>S-437<br>M-2122                                 | 2 Pump Plunger Pin<br>1 Release Lock<br>1 Spring Washer<br>3 Sq. Hd. Set Screw 1/4-20 x 3/4<br>2 Flat Washer 1/4<br>1 Saddle   | 69.<br>70.<br>71.<br>72.               | S-23225<br>S-2579<br>S-24747<br>S-23235<br>S-21023<br>S-22747A                     | 1 Name<br>2 Drive<br>1 Gov't<br>1 Cover<br>1 Cauti | eplate<br>Screw 4 x 5/16<br>Label   |
| 16.<br>17.<br>18.<br>19.<br>20.        | S-105<br>S-3277<br>AS-27118<br>S-23197<br>AS-24867<br>M-1444                              | 5 Hex Hd. Capscrew 3/8-16 x 1 1 Int Lockwasher 3/8 1 Parallel Link Assembly 2 Parallel Link 1 Arm 1 Crosshead 1 Crosshead Pin 2 Bearing  | 74.<br>75.<br>76.                      | S-16061<br>S-22746A<br>S-595<br>S-5176<br>S-899<br>M-2271                          | 6 Sprin<br>2 Sm. S<br>6 Hx. N<br>1 Relea           | g<br>pring Clip<br>ut 3/8-16<br>ise Packing Nut<br>ier 1-1/32 ID x 1-3/4 OD                             |
| 22.<br>23.<br>24.<br>25.<br>26.        | S-23201<br>S-6576<br>S-10189<br>S-6655<br>S-23199<br>AS-16145A                            | 1 Crosshead Pin 2 Bearing 1 Int. Lockwasher 3/8 1 Rd Hd Mach Scw 1/4-20 x 3/8 1 Arm Bracket Pin 1 Pump & Cyl. Assembly   | 82.<br>83.<br>84.                      | S-23194<br>S-2591<br>S-5173<br>S-21049A<br>S-23196<br>M-2247                       | 2 Cage<br>1 Relea<br>1 Relea<br>1 Relea<br>1 Paral | Roller<br>ase Valve Spring<br>ase Valve Guide<br>ase Valve Plunger                                      |
| 28.<br>29.<br>30.<br>31.<br>32.        | AS-15206A<br>S-7026<br>S-18071<br>S-9309<br>S-1863<br>S-2750                              | 1 Pump & Cylinder<br>1 Self-Tapping scw No. 4-40 x 1/4<br>1 Drilled Pipe Plug<br>1 Ball Chamber Plug<br>2 Jam Nut 3/8 x 16<br>1 Ball 1/2"                                      | 86.<br>87.<br>88.<br>89.               | S-23195<br>S-22770<br>S-8542<br>S-944<br>S-1325<br>S-22797A                        | 1 Lifting<br>1 Roll F<br>1 Acorr<br>2 Hx Ho        | g Arm Pin<br>Pin<br>n Nut<br>d Cap Scw 3/8-16 x 1-1/4<br>washer 3/8"                                    |
| 34.<br>35.<br>36.<br>37.<br>38.        | S-7229<br>S-2505<br>S-1806<br>S-25462<br>S-23198<br>S-2594                                | 1 Ball Weight<br>1 Ball 5/16"<br>4 Pipe Plug 3/16<br>2 Retainer Ring<br>1 Parallel Rivet Pin<br>2 Ball Chamber Gasket  | 92.<br>93.<br>94.<br>95.               | M-2238<br>S-700<br>S-1571<br>S-26803<br>S-23739                                    | 2 Caste<br>4 Hx He<br>4 Lock<br>4 Flatw<br>1/16    | er Bracket<br>d Cap Scw 1/2-13 x 1-3/4"<br>washer 1/2"<br>vasher 2 OD x 1-9/32 ID x<br>ver Decal        |
| 40.<br>41.<br>42.<br>43.               | AS-23202A<br>S-7452<br>S-12617<br>S-1087  | 1 Frame<br>4 Front Whld. Bearing<br>Spacer (N/A)<br>1 Roll Pin 3/16 x 1<br>1 Hex Nut 5/16-24   | 97.<br>98.<br>99.<br>100.<br>101.      | M-1450<br>M-1417<br>S-6560<br>S-107<br>S-6658A<br>S-15035                          | 1 Foot<br>1 Relea<br>1 Relea<br>1 Cotte<br>1 Relea |   |
| 45.<br>46.<br>47.<br>48.<br>49.        | S-7492<br>S-5123<br>M-1769<br>S-15203<br>S-6654<br>M-2018                                 | 3 Plunger Packing 1 Release Clevis 1 Plunger Packing Nut 1 Piston Packing Nut 3 Piston Packing Nut 1 Cylinder Cap  | 103.<br>104.<br>105.<br>106.<br>107.   | S-6629<br>M-2246<br>S-20886<br>S-6623<br>S-19909                                   | 1 Hand<br>1 Tie C<br>2 Hand<br>2 Hand<br>2 Wash    | lle Pin<br>asting<br>lle Grip<br>lle Return Spring<br>ner 13/32 ID x 13/16 OD                           |
| 51.<br>52.<br>53.<br>54.<br>55.        | S-22961<br>S-26235<br>AS-6633<br>S-6633<br>M-2165<br>S-6016<br>S-6009                     | 2 Gasket 1 Piston Rod Stop 1 Ram Head Assembly 1 Piston Rod 1 Ram Head 1 Ram Cup 1 Back-up Washer  | 109.<br>110.<br>111.<br>112.<br>113.   | AS-27335<br>S-6636<br>M-1442<br>S-6627<br>S-23689<br>S-23192<br>M-2245             | 1 Hand<br>1 Foot<br>1 Roll F                       | lle Rivet<br>lle Rivet<br>Lever Pin<br>Pin 1/4 x 1/2<br>o Link Rod                                      |
| 57.<br>58.                             | S-7573<br>AS-7443A<br>S-7444  | 1 Hex Nut 3/8-24<br>1 Pump Plunger Assembly<br>1 Pump Nut  | 115.<br>116.                           | M-1157<br>S-2499<br>S-3234   | 1 Relea  | ase Handle<br>er Pin 1/4 x 2-1/4<br>er Pin 3/16 x 2   |

### KJ-106 Seal Kit

## For Weaver WA-72B 2 Ton Jack

## **Contains:**

S-2505 Ball

S-2750 Ball

S-15047 O Ring

S-17829 O Ring

S-7265 Pump Cup

S-6016 Piston Cup

S-22961 Gasket

S-2594 Ball Chamber Gasket

S-7492A Packing (3)

S-6654 Piston Packing (3)

S-2499 Cotter Pin (2)

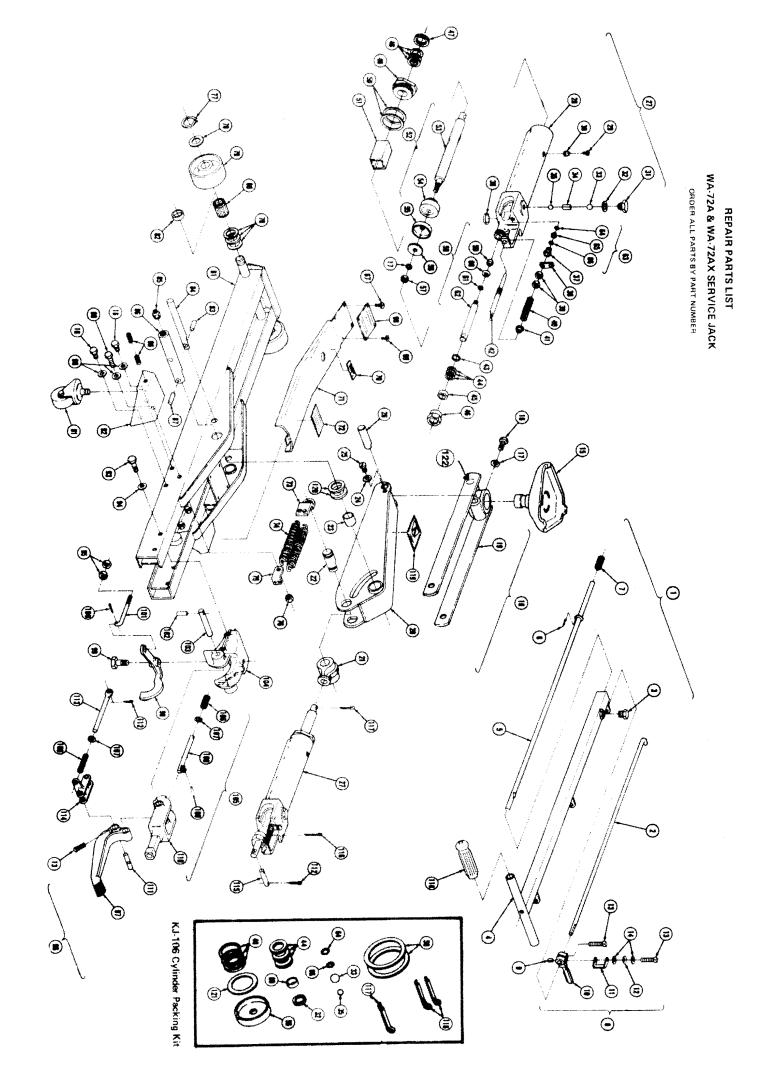
S-3234 Cotter Pin

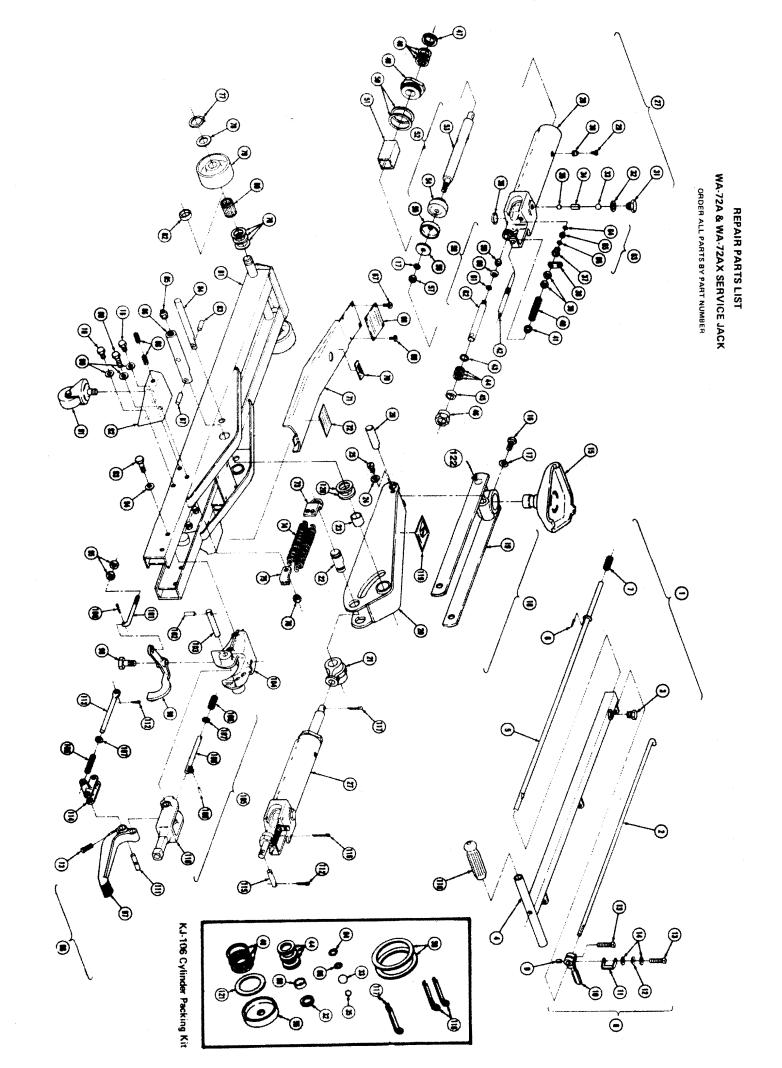
Note: Older style Jack requires additional parts

If the rear of the cylinder is a casting which is held down by TWO Cotter Keys - it is an old style Order Qty 3 ea S-7492 Packing

(New Style is a Machined Block which is held down by only ONE Cotter Pin)

Order part number: KJ-106

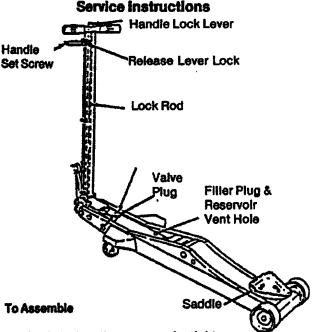




## Repair Parts List WA-72A

| Item | Part               |                             | Item | Part     |                               |
|------|--------------------|-----------------------------|------|----------|-------------------------------|
| No.  | No.                | Description                 | No.  | No.      | Description                   |
| · 1. | AS-6565            | Handle Assembly             |      | S-5173   | Release Valve Guide           |
| 2.   | S-6637             | Release Rod                 | 42.  | S-21049  | Release Valve Plunger         |
| 3.   | S-102              | Sq. Hd. Set Screw           | 43.  | S-7493   | Pump Packing Washer           |
|      |                    | 3/8-16 x 3/4" lg.           | 44.  | S-7492   | Plunger Packing               |
| 4.   | AS-5129            | Handle                      | 45.  | S-7494   | Pump Packing Gland            |
| 5.   | AS-6641            | Lock Rod                    | 46.  | M-1769   | Plunger Packing Nut           |
| 6.   | S-4074             | Cotter Pin 1/16" x 3/4" lg  | 47.  | S-15203  | Piston Packing Nut            |
| 7.   | S-1353             | Spring                      |      | S-6654   | Piston Rod Packing            |
| 8.   | AS-22107           | Release Handle Assembly     | 49.  | M-2018   | Cylinder Cap                  |
| 9.   | S-23689            | Roll Pin 1/4" x 1/2"        |      | S-22961  | Gasket                        |
| 10.  | M-1157             | Release Handle              | 51.  | S-26235  | Piston Rod Stop               |
| 11.  | S-7075             | Release Lock                |      | AS-6633  | Ram Head Assembly             |
|      | S-13520            | Spring Washer               |      | S-6633   | Piston Rod                    |
| 13.  | S-23872            | Square Head Set Screw       |      | M-2165   | Ram Head                      |
|      |                    | 1/4" x 1/2"                 |      | S-6016   | Leather Ram Cup               |
| 14.  | S-437              | Flat Washer 1/4"            | 56.  | S-6009   | Back Up Washer                |
| 15.  | M-2122             | Saddle                      |      | S-7573   | Hex Nut 3/8-24                |
| 16.  | S-105              | Hex Head Cap Screw          |      | AS-7443  | Pump Plunger Assembly         |
|      |                    | 3/8-16 x 1"                 |      | S-7444   | Leather Pump Nut              |
| 17.  | S-3277             | Int. Lockwasher 3/8"        |      | S-7265   | Leather Pump Cup              |
|      | AS-24619           | Arm & Saddle Assembly (N/A) |      | S-7050   | Washer 17/64" ID x 15/32" OD  |
| 19.  | AS-27118           | Parallel Link               |      | S-7443   | Pump Plunger                  |
|      | AS-24867           | Arm                         |      | AS-21052 | Packing Assembly              |
|      | M-1444             | Cross Head                  |      | S-17829  | O-Ring                        |
|      | S-23201            | Cross Head Pin              |      | S-21051  | Packing Housing               |
|      | S-6575             | Bearing                     |      | S-15047  | O-Ring                        |
| ,    | S-10189            | Int. Lockwasher 1/4"        | 67.  | S-12660  | Rd. Hd. Self Tapping Screw    |
| 25.  | S- <del>6499</del> | Rd. Hd. Machine Screw       |      |          | No. 10-32 x 3/8"              |
|      | 6655               | 1/4-20 x 3/8"               |      | S-23225  | Name Plate                    |
|      | S-23199            | Arm Bracket Pin             |      | S-2579   | Drive Screw No. 4 x 5/16"     |
|      | AS-16145           | Pump & Cylinder Assembly    | 70.  | S-24563  | Caution Label: Vent           |
|      | AS-15206           | Pump & Cylinder             |      |          | Fill Plug (N/A)               |
| 29.  | S-7026             | Self-Tapping Screw          |      | S-23235  | Cover                         |
|      |                    | No. 4-40 x 1/4"             | 72.  | S-21023  | Caution Decal: Lifting Safety |
|      | S-18071            | Drilled Pipe Plug           |      |          | Precautions                   |
|      | S-9309             | Ball Chamber Plug           |      | S-22747  | Large Spring Clip             |
|      | S-2594             | Gasket                      |      | S-16061  | Spring                        |
|      | S-2750             | Ball 1/2                    |      | S-22746  | Small Spring Clip             |
|      | S-7229             | Ball Weight                 |      | S-595    | Hex Nut 3/8-16                |
|      | S-2505             | Ball 5/16                   |      | S-25462  | Retainer Ring                 |
|      | S-2497             | Welch Plug                  | 78.  | S-899    | Washer 1-1/32" ID x           |
|      | S-5176             | Release Packing Nut         | 70   | 14.0074  | 1-3/4" OD                     |
|      | S-6659             | Connecting Link             | 79.  | M-2271   | Front Wheel                   |
|      | S-1934             | Hex Jam Nut 3/8-16          | 00   | S-7450   | Front Wheel Cushioned         |
| 40.  | S-2591             | Release Valve Spring        | 8U.  | S-23194  | Cage Roller                   |
|      |                    |                             |      | S-7451   | Front Wheel Bearing (N/A)     |

| 81. AS-23202  | Frame                             |
|---------------|-----------------------------------|
| 82. S-7452    | Front Wheel Bearing Spacer (N/A)  |
| 83. S-12617   | Roll Pin 3/16" x 1"               |
| 84. S-23196   | Parallel Link Pin                 |
| 85. S-5096    | Grease Fitting                    |
| 86. S-23195   | Lifting Arm Pin                   |
| 87. S-22770   | Roll Pin 3/16" x 1-1/2"           |
| 88. S-8543    | Allen Hd. Set Screw 1/4-20        |
| 89. S-944     | Hex Hd. Cap Screw 3/8-16 x 1-1/4" |
| 90. S-1325    | Lockwasher 2/8"                   |
| 91. S-22797   | Caster                            |
| S-23698       | Caster Cushioned                  |
| 92. M-2238    | Caster Bracket                    |
| 93. S-700     | Hex Hd. Cap Screw 1/2-13 x 1-3/4" |
| 94. S-1571    | Lockwasher 1/2"                   |
| 95. S-1087    | Hex Nut 5/16-18                   |
| 96. AS-23193  | Tie Casting Asembly (N/A)         |
| 97. M-1450    | Foot Lever                        |
| 98. M-1417    | Release Lever                     |
| 99. S-6560    | Release Lever Pin                 |
| 100. S-107    | Cotter Pin 1/8" x 1"              |
| 101. S-6658   | Release Pull Rod                  |
| 102. S-15035  | Roll Pin 3/16" x 1-1/4"           |
| 103. S-6629   | Handle                            |
| 104. M-2246   | Tie Casting                       |
| 105. AS-21915 | Handle Yoke Assembly (N/A)        |
| 106. S-6623   | Handle Return Spring              |
| 107. S-19909  | Washer 13/32" ID x 13/16" OD      |
| 108. AS-27335 | Handle Rod                        |
| 109. S-6636   | Handle Rivet                      |
| 110. M-1442   | Handle Yoke                       |
| 111. S-6627   | Foot Lever Pin                    |
| 112. S-275    | Cotter Pin 1/8" x 3/4"            |
| 113. S-23192  | Pump Link Rod                     |
| 114. M-2245   | Pump Link                         |
| 115. S-7299   | Pump Plunger Pin                  |
| 116. S-2499   | Cotter Pin 1/4" x 2-1/4"          |
| 117. S-3234   | Cotter Pin 3/16" x 2"             |
| 118. S-20886  | Handle Grip                       |
| 119. S-23739  | Weaver Decal                      |
| 120. S-26803  | Flat Washer 1-9/32" ID x 2" OD    |
| 121. S-5124   | Clean Out Plug Gasket             |
|               | •                                 |



- 1. Check the handle set screw for tightness.
- 2. Remove and discard the vent filler plug. This is very important, as the vent hole must always be kept open so the lack can "breathe."

#### To Operate

- The jack is easily maneuvered by depressing the Handle Lock Lever until the lock rod engages one of the two handle positions, and then pivoting the jack on its rear casters.
- 2. Place the jack in position so that the saddle will engage an approved lifting area of the vehicle. The saddle is raised to the contact point by the foot pedal. Light loads may be raised by the foot pedal alone. On low clearance vehicles it is often advantageous to operate the foot pedal by hand while watching to assure proper saddle contact. Surface on which jack rests should be fairly flat to prevent twisting of frame. Load should be centered in saddle.
- Pump with handle for easy lifting. Do not attempt to raise jack beyond its travel stops.
- To lower the load, pull back gently on the release lever.
- Be certain that area beneath vehicle is clear before lowering vehicle. Always use the release lever lock to prevent unintentional operation of the release lever.

#### To Rafili

Remove the filler plug and with the saddle DOWN put in MIL-F-17111 Oil until the level comes up to within 1/4" to 3/8" below filler hole. Overfilling causes oil to spurt out the vent hole as jack is lowered, or may prevent jack from lowering properly. Insufficient oil causes jack to lift only part way. Always be sure to put in oil only when the saddle is down. Be careful not to let any dirt get into the reservoir while the Filler Plug is out.

#### To Service

- 1. Keep all working parts thoroughly lubricated.
- Packing nuts at the piston and pump plunger should be kept moderately tight. These packings are NOT under high pressure, and should only be tight enough to prevent leakage.
- Ball valve may be removed for inspection and cleaning by removing the Ball Chamber Plug and turning the jack on its side, allowing the ball to roll out.

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

- If pumping fails to raise the rated load, the lower ball valve is leaking, and it should be inspected for dirt or other obstruction. Also check for proper oil level.
- If the load raises on the down stroke of the handle and immediately settles back, forcing the handle up, it shows the upper ball valve is leaking.

WARNING: Always use stands to support vehicle before attempting under vehicle repairs or inspections.

#### To Relieve When Air-Bound

1. Should the oil supply run too low, the jack may become air-bound and work on only a half stroke of the handle. Fill the jack with oil, raise the saddle, and then lower the saddle while holding the foot pedal depressed. This will flush out any air in the system, and excess oil may run out of the vent. Be sure jack is properly filled with oil before putting it back in service. Oil should cover piston rod.

#### To Remove Cylinder

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

#### To Replace Cup

- 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.
- 2. Unscrew the cylinder cap and lift the piston out of the cylinder.
- Remove the nut and washer which holds the cup at the end of the piston; put in the new cup, and replace nut and washer.
- 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. Then replace the cylinder cap.
- 5. To replace the small cup on the pump, turn the cylinder unit pump end upward in the vise.
- Unscrew the packing nut and pull out the pump plunger. Remove the nut that holds cup to end of plunger, insert new cup, and replace nut.

#### Release Group Assembly Function

- A means to manually release jack and safety overload circuit. If underloaded jack bleeds down, release valve may be out of alignment.
- 2. In release group assembly, spring governs load jack will lift. When pressure of cylinder overcomes spring tension the release valve floats off seat. It is imperative that the release valve floats freely in release group assembly. To check; use forefinger and thumb to grasp the release valve when the release clevis pin passes thru, and wiggle from side to side. There should be a minimum of .002 to .004 clearance. If no movement is noted, remove hex nut, release valve guide and release spring, and place release valve with release valve guide back in release nut. Tap end of release spring with Brass hammer. Slide release valve guide into position and noting where alignment is off. correct misalignment by tapping welded needle bracket accordingly with Brass hammer, Reassemble and set pressure by hydraulic means. Note: This procedure should only be done by a qualified Authorized Service Depot.