

## HYDRAULIC PAVEMENT BREAKERS

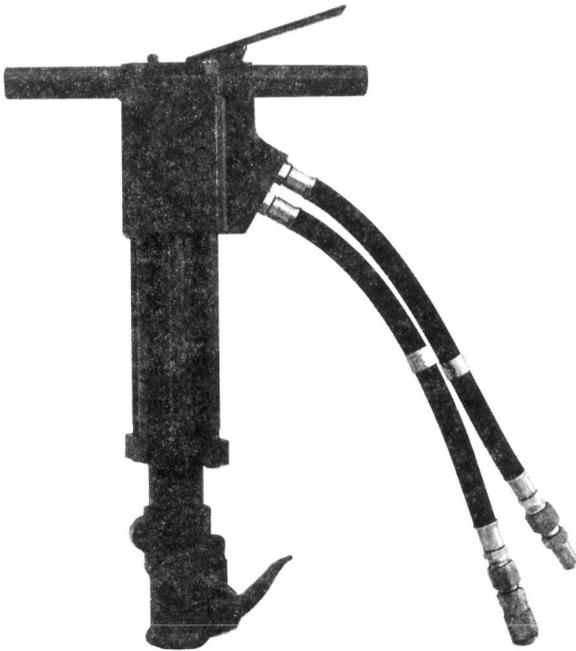
### GENERAL DESCRIPTION

#### 1. GENERAL

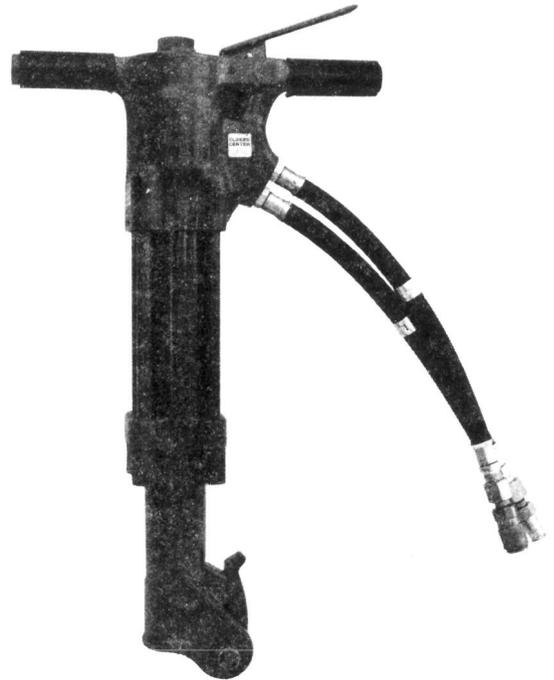
1.01 This section describes the *Stanley\** BR37 light duty and BR67 medium duty hydraulic pavement breakers (see Fig. 1 and 2). The BR37 is lightweight and is used for breaking lighter surfaces around telephone poles and asphalt pavement. The BR67 is heavier and suitable for breaking concrete sidewalks and curbs.

1.02 (Reserved for future use)

1.03 These pavement breakers may be operated from hydraulically equipped vehicles or other hydraulic power sources with suitable power capabilities.



Stanley BR37 Hydraulic Pavement Breaker  
Fig. 1



Stanley BR67 Hydraulic Pavement Breaker  
Fig. 2

*\*Trademark of Stanley Hydraulic Tools*

#### NOTICE

Not for use or disclosure outside the  
Bell System except under written agreement

**2. DESCRIPTION**

2.01 Both pavement breakers come equipped with hydraulic hose extensions, with one male and one female quick-disconnect coupler, for connecting to the power unit hydraulic hoses.

2.02 Various gads, cutters, spades, etc, may be used with the BR37 and BR67.

2.03 Table A gives specifications, including physical properties, hydraulic power requirements and output capacity of each pavement breaker.

**TABLE A**

| <b>SPECIFICATIONS</b>        |                              |                                    |
|------------------------------|------------------------------|------------------------------------|
| <b>MODEL</b>                 | <b>BR37</b>                  | <b>BR67</b>                        |
| <b>Capacity</b>              | 3-1/4" x 7/8" hex            | 6" x 1-1/8" hex or 6" x 1-1/4" hex |
| <b>Weight</b>                | 37 lbs./17 kg.               | 67 lbs./30 kg.                     |
| <b>Length</b>                | 22.5 in./57 cm.              | 27 in./68 cm.                      |
| <b>Width</b>                 | 14 in./35 cm.                | 16 in./40 cm.                      |
| <b>Pressure</b>              | 1500-2000 psi<br>105-140 bar | 1500-2000 psi<br>105-140 bar       |
| <b>Flow Range</b>            | 7-9 gpm<br>26-34 lpm         | 7-9 gpm<br>26-34 lpm               |
| <b>Optimum Flow</b>          | 8 gpm<br>30 lpm              | 8 gpm<br>30 lpm                    |
| <b>Porting</b>               | 1/2 SAE                      | 1/2 SAE                            |
| <b>Hose Whips</b>            | Yes                          | Yes                                |
| <b>Connect Size and Type</b> | 1/2 male pipe hose end       | 1/2 male pipe hose end             |

**3. PRECAUTIONS**

3.01 Steel toe guards, impact resistant goggles, safety hat or cap, ear protection, and leather gloves shall be worn whenever pavement breakers are operated.

3.02 Because of its weight, the breaker should be handled carefully to avoid personal injury or damage to other equipment. It should be securely stored when transported.

**4. OPERATION**

4.01 Place pavement breaker where it will be used. Connect hydraulic couplers of extensions to appropriate couplers on uncoiled dual hydraulic hoses of power source, ensuring that couplings are locked. Insert desired tool into breaker and secure.

4.02 Activate hydraulic power source, selecting appropriate hydraulic oil flow (see Table A).

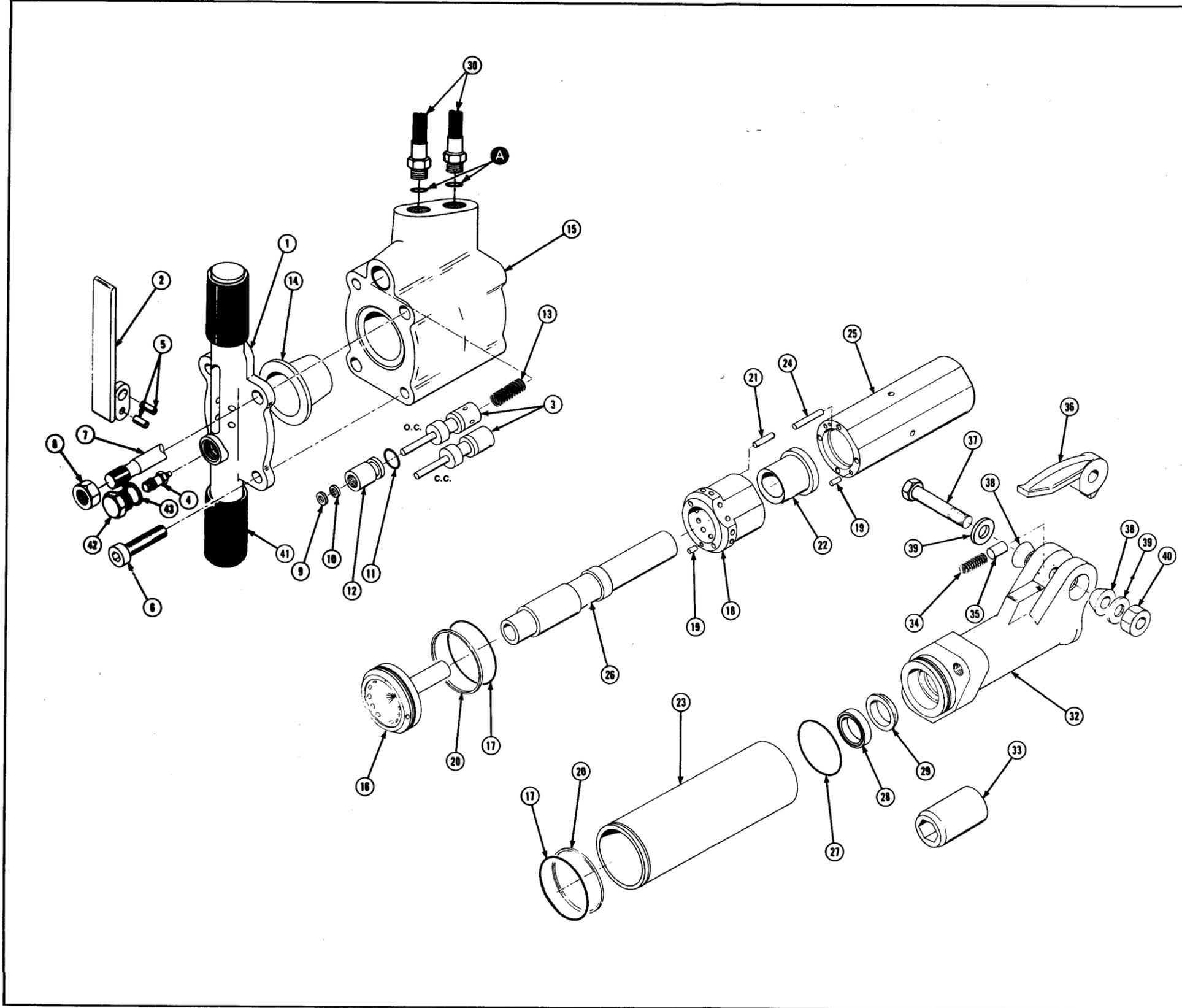
4.03 Place tool in desired position, grip breaker by handles and activate breaker by squeezing trigger against handle. Release trigger to stop.

**5. MAINTENANCE**

5.01 Periodically check hydraulic hose extensions for leaks and repair or replace them as necessary.

5.02 For BR37 and BR67 replacement parts, see Exhibits 1 and 2 respectively.

5.03 Other maintenance and repair work should be done by the supplier.



| Illus. Index No. | Part No. | Qty. Per Unit | PART NAME                              |
|------------------|----------|---------------|--|
| 1                | 04369    | 1             | Handle                                 |
| 2                | 04371    | 1             | Trigger                                |
| 3                | 04077    | 1             | Valve Spool, o.c.                      |
|                  | 04593    | 1             | Valve Spool, c.c.                      |
| 4                | 01650    | 1             | Charging Valve                         |
| 5                | 00844    | 2             | Spirol Pin, 1/4 x 1-1/2                |
| 6                | 04372    | 2             | Capscrew, 1/2-13 x 5-1/2 Hex. Soc. Hd. |
| 7                | 04373    | 2             | Side Rod                               |
| 8                | 04374    | 2             | Locknut, 5/8-18                        |
| 9                | 04056    | 1             | Rod Wiper ©                            |
| 10               | 01362    | 1             | O-Ring, 5/16 x 7/16 x 1/16 ©           |
| 11               | 00293    | 1             | O-Ring, 11/16 x 7/8 x 3/32 ©           |
| 12               | 04057    | 1             | Bushing                                |
| 13               | 04058    | 1             | Spring                                 |
| 14               | 04375    | 1             | Accumulator Diaphragm                  |
| 15               | 04377    | 1             | Accumulator Valve Block                |
| 16               | 04378    | 1             | Porting Block                          |
| 17               | 04379    | 2             | O-Ring, 2-9/16 x 2-3/4 x 3/32, 90 D ©  |
| 18               | 04380    | 1             | Automatic Valve Body                   |
| 19               | 02900    | 2             | Roll Pin, 1/8 x 1/2                    |
| 20               | 04381    | 2             | Back-Up Ring, 2.581 x 2.753 x .053 ©   |
| 21               | 04571    | 2             | Push Pin, 3/16 x 1-1/4                 |
| 22               | 04382    | 1             | Automatic Valve                        |
| 23               | 04383    | 1             | Flow Sleeve Tube                       |
| 24               | 04605    | 4             | Push Pin, 1/4 x 1-1/2                  |
| 25               | 04384    | 1             | Flow Sleeve                            |
| 26               | 04385    | 1             | Piston                                 |
| 27               | 02022    | 1             | O-Ring, 2-3/16 x 2-3/8 x 3/32 ©        |
| 28               | 04386    | 1             | Cup Seal ©                             |
| 29               | 04387    | 1             | Rod Wiper ©                            |
| 30               | 01652    | 2             | Pigtail Hose Assy.                     |
| 31               | 04388    | 1             | Foot Assy. — Incl. Items 32-37         |
| 32               | 04594    | 1             | Foot Assy.                             |
| 33               | 01742    | 1             | Hex Bushing                            |
| 34               | 04392    | 1             | Spring                                 |
| 35               | 04393    | 1             | Detent                                 |
| 36               | 04395    | 1             | Latch                                  |
|                  | 04396    | 1             | Latch Bolt — Incl. item 37 thru 40     |
| 37               | 04717    | 1             | Latch Bolt                             |
| 38               | 04715    | 2             | Cone Washer                            |
| 39               | 04716    | 2             | Spring Washer                          |
| 40               | 04374    | 1             | Lock Nut, 5/8-11                       |
| 41               | 02494    | 2             | Handle Grip                            |
| 42               | 04733    | 1             | Charge Valve Cap                       |
| 43               | 01604    | 1             | O-Ring, .755 x .949 x .097             |

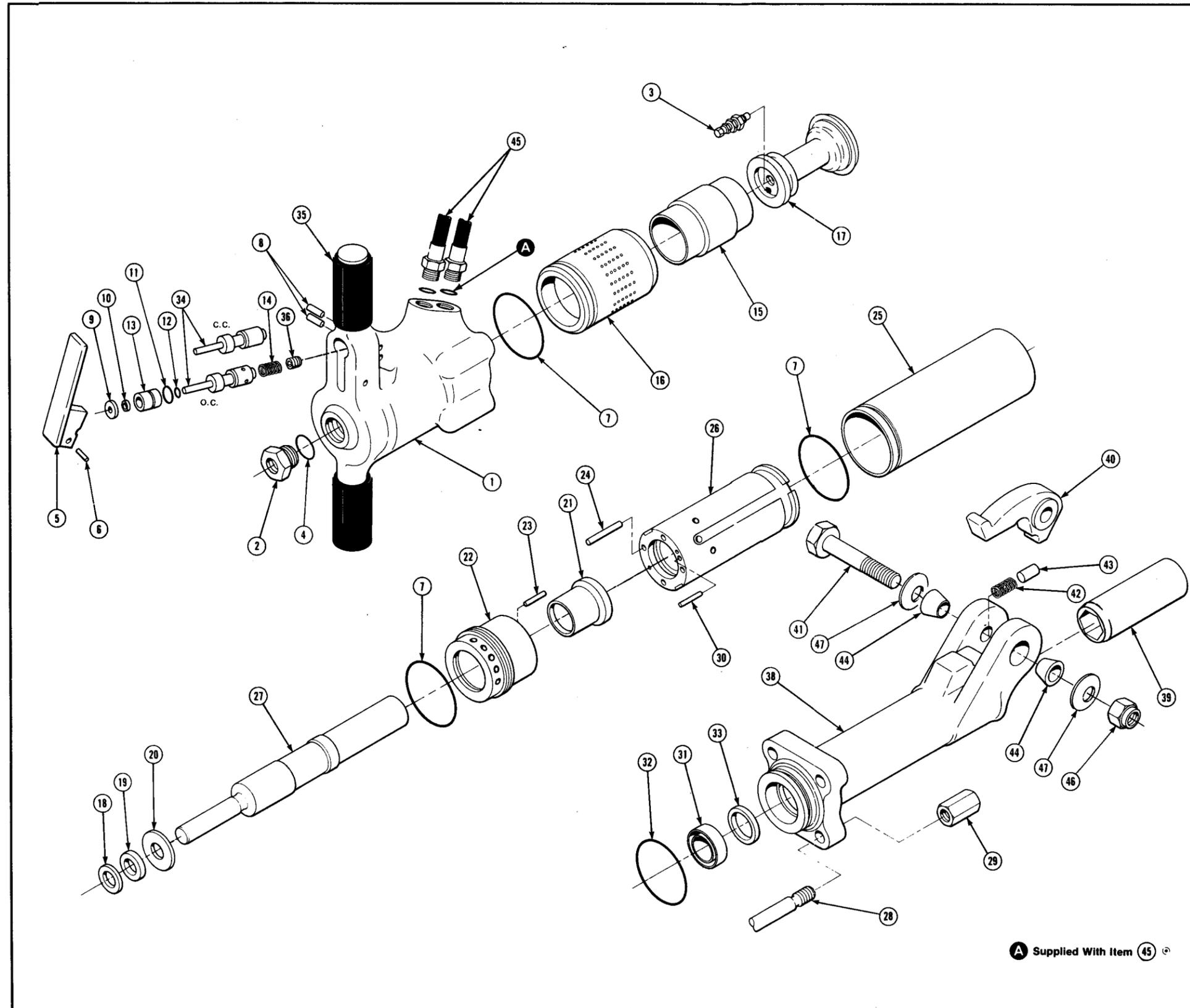
© Denotes Part In Seal Kit

### SEAL KIT DATA

| Part No.                       | Qty. | Description  |
|--------------------------------|------|--------------|
| <b>Seal Kit Part No. 04595</b> |      |              |
| 01362                          | 1    | O-Ring       |
| 00293                          | 1    | O-Ring       |
| 04379                          | 2    | O-Ring       |
| 04381                          | 2    | Back-Up Ring |
| 02022                          | 1    | O-Ring       |
| 04386                          | 1    | Cup Seal     |
| 04387                          | 1    | Rod Wiper    |
| 04056                          | 1    | Rod Wiper    |
| 01605                          | 2    | O-Ring       |
| 01604                          | 1    | O-Ring       |

**A** Supplied With Item **30** ©

NOTE: Use Part Number and Part Name when ordering.



**A** Supplied With Item **45** ©

| Illus. Index No. | Part No. | Qty. Per Unit | PART NAME                                 |
|------------------|----------|---------------|---|
| 1                | 04049    | 1             | Handle                                    |
| 2                | 04050    | 1             | Valve Cap Assy.                           |
| 3                | 04051    | 1             | Charging Valve                            |
| 4                | 04052    | 1             | O-Ring, 1.047 x 1.279 x .116 90D. ©       |
| 5                | 04053    | 1             | Trigger                                   |
| 6                | 00844    | 1             | Spirol Pin                                |
| 7                | 04054    | 3             | O-Ring, 2-7/8 x 3-1/8 x 1/8 90D. ©        |
| 8                | 03009    | 2             | Roll Pin, 3/16 x 1-3/8                    |
| 9                | 04055    | 1             | Washer                                    |
| 10               | 04056    | 1             | Rod Wiper ©                               |
| 11               | 00293    | 1             | O-Ring, 11/16 x 7/8 x 3/32 ©              |
| 12               | 01362    | 1             | O-Ring, 5/16 x 7/16 x 1/16 ©              |
| 13               | 04057    | 1             | Bushing                                   |
| 14               | 04058    | 1             | Spring                                    |
| 15               | 04059    | 1             | Accumulator Diaphragm                     |
| 16               | 04060    | 1             | Accumulator Cylinder                      |
| 17               | 04061    | 1             | Accumulator Chamber                       |
| 18               | 04062    | 1             | Back-Up Washer                            |
| 19               | 04063    | 1             | Cup Seal ©                                |
| 20               | 04064    | 1             | Washer                                    |
| 21               | 04065    | 1             | Automatic Valve                           |
| 22               | 04066    | 1             | Automatic Valve Body                      |
| 23               | 04571    | 2             | Push Pin, 3/16 x 1-1/4                    |
| 24               | 04067    | 4             | Push Pin, 5/16 x 2                        |
| 25               | 04068    | 1             | Flow Sleeve Tube                          |
| 26               | 04069    | 1             | Flow Sleeve                               |
| 27               | 04070    | 1             | Piston                                    |
| 28               | 04071    | 4             | Side Rod                                  |
| 29               | 04075    | 4             | Side Rod Nut                              |
| 30               | 02898    | 1             | Dowel Pin, 3/16 x 1-1/2                   |
| 31               | 04072    | 1             | Cup Seal ©                                |
| 32               | 04073    | 1             | O-Ring, 2-5/8 x 2-7/8 x 1/8 90D ©         |
| 33               | 04074    | 1             | Rod Wiper ©                               |
| 34               | 04077    | 1             | Valve Spool, o.c.                         |
|                  | 04593    | 1             | Valve Spool, c.c.                         |
| 35               | 02494    | 2             | Handle Grip                               |
| 36               | 04350    | 1             | Orifice Plug                              |
| 37               | 04076    | 1             | Foot Assy., 1-1/8 Hex — Incl. Items 38-44 |
|                  | 04599    | 1             | Foot Assy., 1-1/4 Hex — Incl. Items 38-44 |
| 38               | 04598    | 1             | Foot Assy.                                |
| 39               | 04081    | 1             | Hex Bushing — 1-1/8 Hex.                  |
|                  | 04597    | 1             | Hex Bushing — 1-1/4 Hex.                  |
| 40               | 01837    | 1             | Latch                                     |
| 41               | 04983    | 1             | Bolt                                      |
| 42               | 01744    | 1             | Spring                                    |
| 43               | 01745    | 1             | Detent                                    |
| 44               | 01269    | 2             | Rubber Sleeve                             |
| 45               | 01652    | 2             | Pigtail Hose Assy.                        |
| 46               | 04984    | 1             | Stop Nut                                  |
| 47               | 04985    | 2             | Spring Washer                             |

© Denotes Part in Seal Kit

**SEAL KIT DATA**

NOTE: Use Part Number and Part Name when ordering.

| Part No.                          | Qty. | Description |
|-----------------------------------|------|-------------|
| <b>Seal Kit Part Number 04596</b> |      |             |
| 04052                             | 1    | O-Ring      |
| 04054                             | 3    | O-Ring      |
| 04056                             | 1    | Rod Wiper   |
| 00293                             | 1    | O-Ring      |
| 01362                             | 1    | O-Ring      |
| 04063                             | 1    | Cup Seal    |
| 04072                             | 1    | Cup Seal    |
| 04073                             | 1    | O-Ring      |
| 04074                             | 1    | Rod Wiper   |
| 01605                             | 2    | O-Ring      |