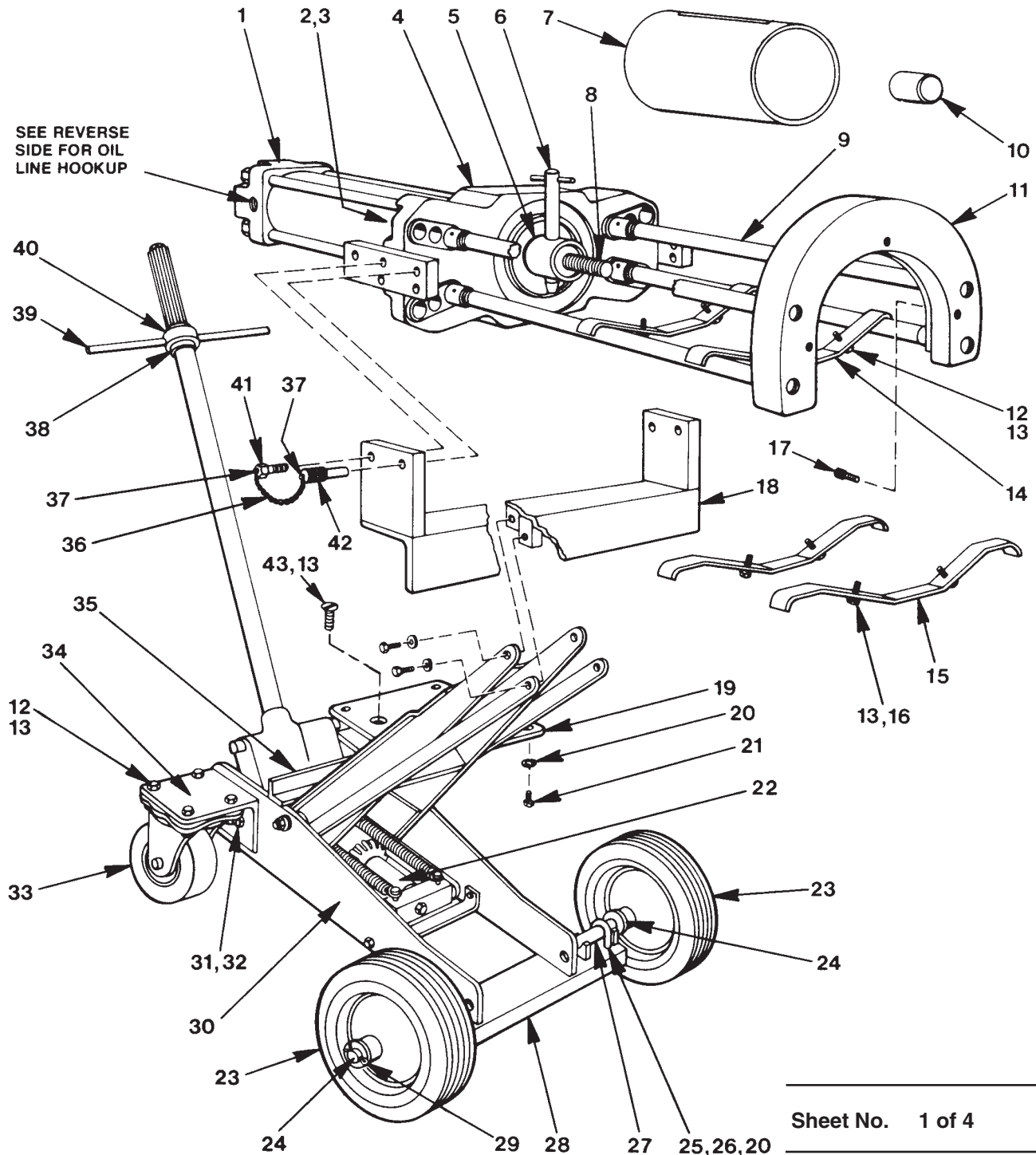


## UNIVERSAL PULLER/INSTALLER

### USED ON RAILROAD BEARING SERVICE EQUIPMENT RAM WITH SERVICE JACK



# Parts List, Form No. 100410, Back sheet 1 of 4

| Item No. | Part No. | No. Req'd | Description                                                 |
|----------|----------|-----------|-------------------------------------------------------------|
| 1        | 50061    | 1         | Cylinder Ass'y. (100 Ton, Double Acting – See Sheet 4 of 4) |
| 2        | 10224    | 4         | Hex Nut (1-1/4-12)                                          |
| 3        | 24767    | 4         | Spacer                                                      |
| 4        | 40116    | 1         | Cylinder Mounting Plate                                     |
| 5        | 30413    | 1         | Adapter                                                     |
| 6        | 20001    | 1         | Coupling Pin                                                |
| 7        | 30416    | 1         | Installing Tube                                             |
| 8        | 30414    | 1         | Guide Tube Coupling                                         |
| 9        | 30405    | 4         | Leg & Collar                                                |
| 10       | 21260    | 1         | Adapter Forcing Plug                                        |
| 11       | 30523    | 1         | Pulling Shoe (Includes Item #17)                            |
| 12       | 10052    | AR        | Hex Hd. Cap Screw (3/8 x 1-1/4 Lg.)                         |
| 13       | 10204    | AR        | Hex Nut (3/8-16 UNC)                                        |
| 14       | 30613    | 2         | Installing Tube Cradle                                      |
| 15       | 30614    | 2         | Installing Tube Cradle                                      |
| 16       | 21498    | 4         | Special Hex Hd. Cap Screw                                   |
| 17       | 11214    | 3         | Soc. Hd. Cap Screw                                          |
| 18       | 40327    | 1         | Cylinder Support Ass'y.                                     |
| 19       | 51127    | 1         | Plate                                                       |
| 20       | 10249    | 8         | Lockwasher (1/2 bolt size)                                  |
| 21       | 10076    | 4         | Hex Hd. Cap Screw (1/2-20 x 7/8 Lg.)                        |
| 22       | 18725    | 1         | Jack Power Unit (See Sheet 3 of 4)                          |
| 23       | 10468    | 2         | Wheel (12" x 3"; Includes Item #24)                         |
| 24       | 11253    | 4         | SAE Washer                                                  |
| 25       | 20582    | 2         | Axle "U" Bolt                                               |

| Item No. | Part No. | No. Req'd | Description                                  |
|----------|----------|-----------|----------------------------------------------|
| 26       | 10208    | 4         | Hex Nut (1/2-13 UNC)                         |
| 27       | 20584    | 2         | Axle Shaft                                   |
| 28       | 30530    | 1         | Channel Assembly                             |
| 29       | 10472    | 2         | Cotter Pin                                   |
| 30       | 11283    | 1         | Hydraulic Jack-Blackhawk (Includes Item #22) |
| 31       | 10084    | 4         | Hex Hd. Cap Screw (1/2-20 x 1-3/4 Lg.)       |
| 32       | 10390    | 4         | Hex Jam Nut (1/2-20 UNF)                     |
| 33       | 10467    | 2         | Swivel Caster Wheel                          |
| 34       | 31053    | 2         | Angle Plate                                  |
| 35       | 22228    | 1         | Support Angle                                |
| 36       | 10473    | 2 Ft.     | Sash Chain                                   |
| 37       | 10463    | 4         | Drive Screw                                  |
| 38       | 39369    | 1         | Handle Bushing                               |
| 39       | 39370    | 1         | Handle                                       |
| 40       | 14368    | 1         | Retaining Ring                               |
| 41       | 21264    | 2         | Mounting Bolt                                |
| 42       | 20049    | 2         | Stop Pin                                     |
| 43       | 10503    | 4         | Flat Hd. Cap Screw (3/8-16 x 1-1/2 Lg.)      |

## PARTS INCLUDED BUT NOT SHOWN

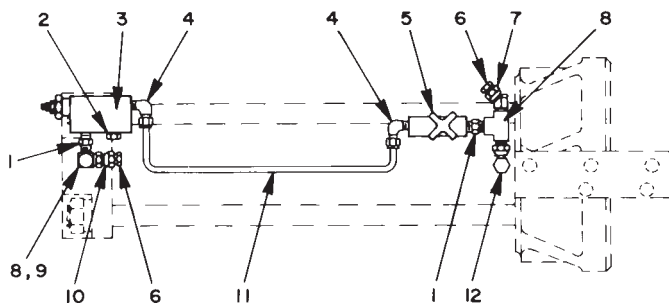
|         |   |                         |
|---------|---|-------------------------|
| 37702   | 2 | Decal                   |
| *202092 | 1 | Decal, Trade Name       |
| 11543   | 1 | Gauge                   |
| *36891  | 2 | Hydraulic Hose          |
| *10474  | 3 | Street Elbow (3/8 NPTF) |

**NOTE:** AR (As Required).

51151 Ram, Mounting Plate & Oil Line Assembly includes Items 1 & 4.

51167 Jack Assembly consists of Item 12, 13, & 18 thru 43 & all items marked with an asterisk (\*).

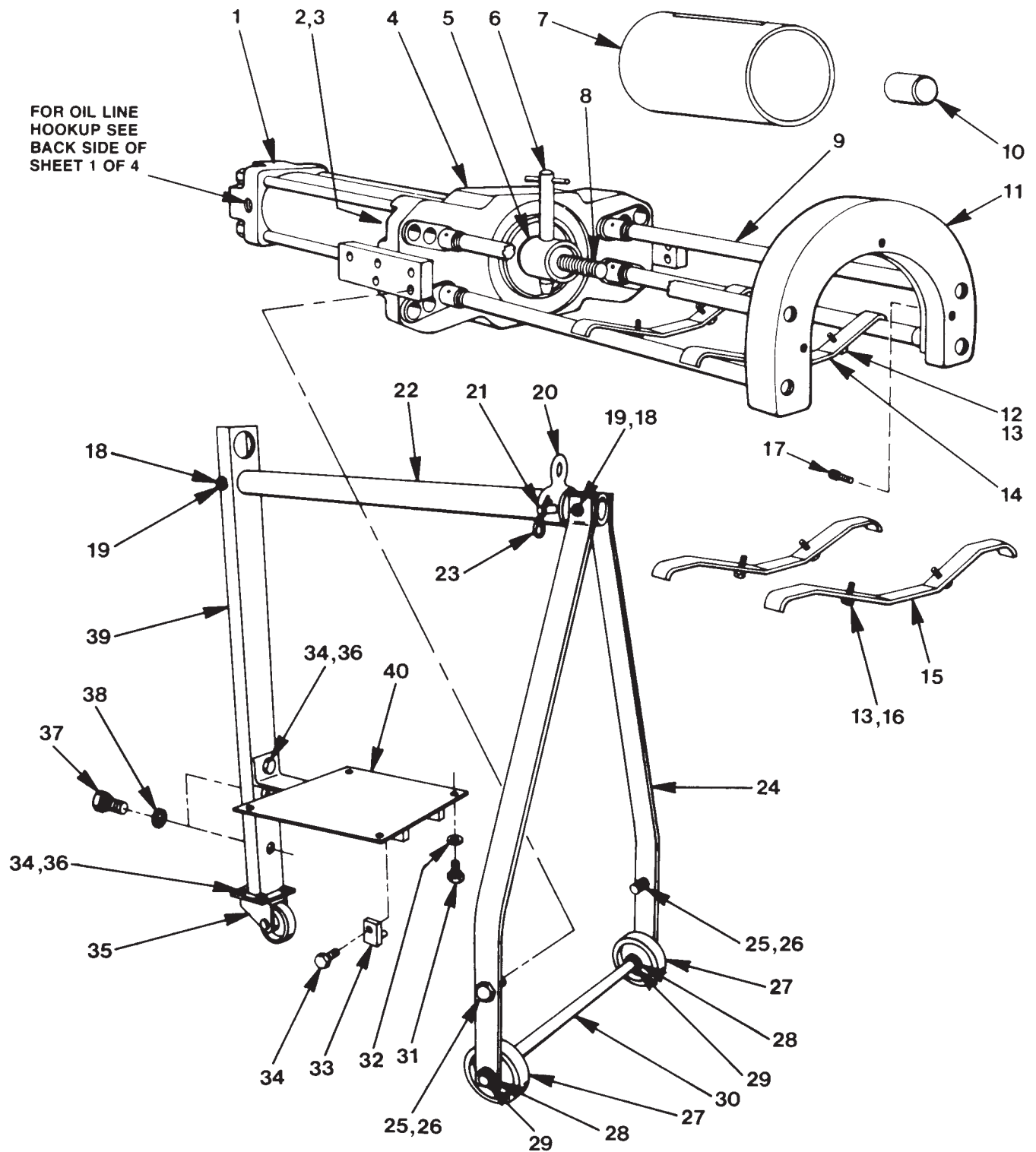
## OIL LINE HOOKUP



| Item No. | Part No. | No. Req'd | Description                                                          |
|----------|----------|-----------|----------------------------------------------------------------------|
| 1        | 10673    | 2         | Hex Nipple (3/8 NPTF)                                                |
| 2        | 14690    | 1         | Pipe Plug                                                            |
| 3        | 9623     | 1         | Pressure Regulator Assembly (Set at 6,000 PSI – See Form No. 100412) |
| 4        | 10666    | 2         | Elbow                                                                |
| 5        | 11060    | 1         | Shut-Off Valve                                                       |
| 6        | 22640    | 2         | Pipe Plug                                                            |
| 7        | 10648    | 1         | Adapter Union (45° Elbow)                                            |
| 8        | 10623    | 2         | Service Tee                                                          |
| 9        | 10474    | 1         | Elbow                                                                |
| 10       | 10469    | 1         | Adapter Union (Straight)                                             |
| 11       | 80590    | 1         | Oil Line                                                             |
| 12       | 10470    | 1         | Adapter Union (90° Elbow)                                            |

**NOTE:** 51151 Ram, Mounting Plate & Oil Line Assembly includes all the above items.

## RAM WITH OVERHEAD SLING



## Parts List, Form No. 100410, Back sheet 2 of 4

| Item No. | Part No. | No. Req'd | Description                                                 |
|----------|----------|-----------|-------------------------------------------------------------|
| 1        | 50061    | 1         | Cylinder Ass'y. (100 Ton, Double Acting – See Sheet 4 of 4) |
| 2        | 10224    | 4         | Hex Nut (1-1/4-12)                                          |
| 3        | 24767    | 4         | Spacer                                                      |
| 4        | 40116    | 1         | Cylinder Mounting Plate                                     |
| 5        | 30413    | 1         | Adapter                                                     |
| 6        | 20001    | 1         | Coupling Pin                                                |
| 7        | 30416    | 1         | Installing Tube                                             |
| 8        | 30414    | 1         | Guide Tube Coupling                                         |
| 9        | 30405    | 4         | Leg & Collar                                                |
| 10       | 21260    | 1         | Adapter Forcing Plug                                        |
| 11       | 30523    | 1         | Pulling Shoe (Includes Item #17)                            |
| 12       | 10052    | 4         | Hex Hd. Cap Screw (3/8-16 x 1-1/4 Lg.)                      |
| 13       | 10204    | 8         | Hex Nut (3/8-16 UNC)                                        |
| 14       | 30613    | 2         | Installing Tube Cradle                                      |
| 15       | 30614    | 2         | Installing Tube Cradle                                      |
| 16       | 21498    | 4         | Special Hex Hd. Cap Screw                                   |
| 17       | 11214    | 3         | Soc. Hd. Cap Screw                                          |
| 18       | 13894    | 2         | Hex Hd. Cap Screw (1/2-13 x 3-3/4 Lg.)                      |
| 19       | 15013    | 2         | Hex Locknut (1/2-13 UNC)                                    |
| 20       | 37718    | 1         | Lifting Bracket                                             |
| 21       | 17784    | 1         | Clevis Pin                                                  |
| 22       | 37715    | 1         | Cross Tube                                                  |
| 23       | 14528    | 1         | Hair Pin Cotter                                             |
| 24       | 51130    | 2         | Strap                                                       |
| 25       | 10120    | 2         | Hex Hd. Cap Screw (3/4-10 x 2" Lg.)                         |
| 26       | 16941    | 2         | Hex Locknut (3/4-10 UNC)                                    |
| 27       | 17786    | 2         | Wheel (8" dia.)                                             |
| 28       | 12330    | 6         | Washer                                                      |
| 29       | 11902    | 4         | E-ring                                                      |
| 30       | 37714    | 1         | Axle Shaft                                                  |
| 31       | 10076    | 4         | Hex Hd. Cap Screw (1/2-20 x 7/8 Lg.)                        |
| 32       | 10249    | 4         | Lockwasher (1/2 bolt size)                                  |
| 33       | 203846   | 2         | Strap Assembly                                              |
| 34       | 10049    | 7         | Hex Hd. Cap Screw (3/8-16 x 1" Lg.)                         |
| 35       | 17785BK2 | 1         | Swivel Caster (6" dia.)                                     |
| 36       | 12013    | 5         | Hex Locknut (3/8-16 UNC)                                    |
| 37       | 15081    | 2         | Hex Hd. Cap Screw (1"-8 x 1-1/2 Lg.)                        |
| 38       | 24824    | 2         | Special Washer                                              |
| 39       | 42928    | 1         | Rear Support Bracket                                        |
| 40       | 51128    | 1         | Pump Mounting Bracket                                       |

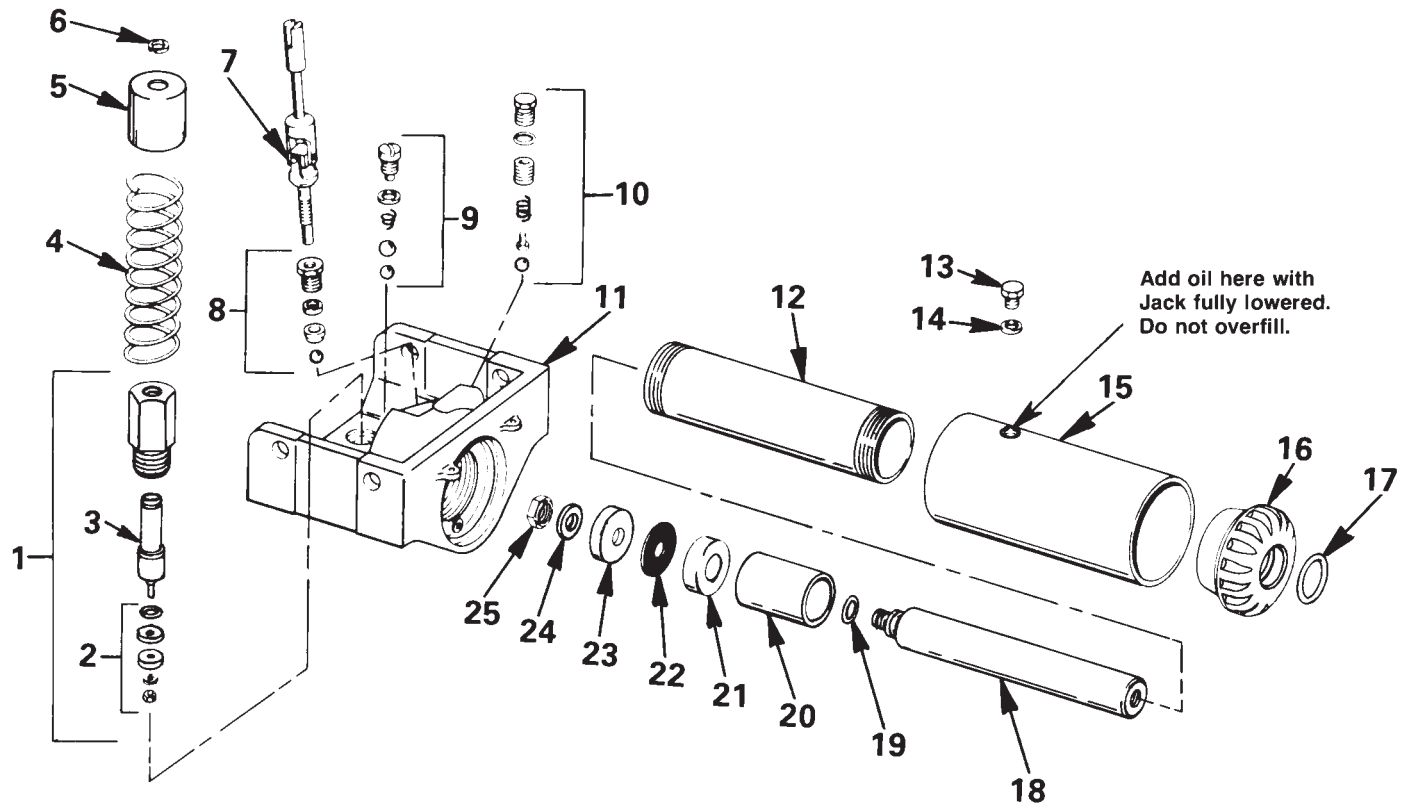
### PARTS INCLUDED BUT NOT SHOWN

|        |   |                         |
|--------|---|-------------------------|
| 37702  | 2 | Decal                   |
| 11543  | 1 | Gauge                   |
| *36891 | 1 | Hydraulic Hose (39 in.) |
| *10474 | 3 | Street Elbow (3/8 NPTF) |
| *36890 | 1 | Hydraulic Hose (2 ft.)  |

**NOTE:** 51151 Ram, Mounting Plate & Oil Line Assembly includes Items 1 & 4.

203854 Sling Assembly consists of Items 18 thru 40 and all items marked with an asterisk (\*).

## HYDRAULIC JACK POWER UNIT ASSEMBLY (1.5 Ton Capacity)



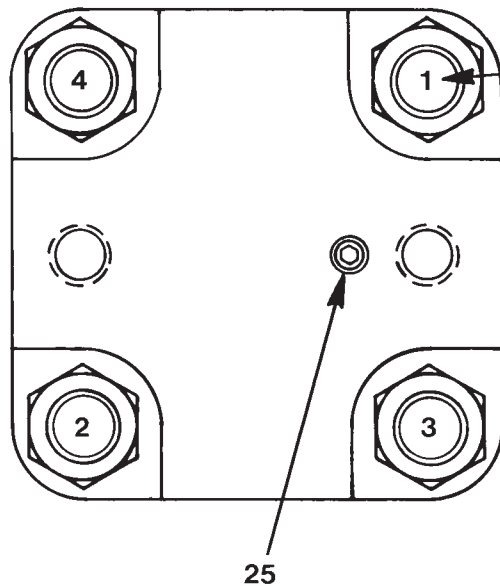
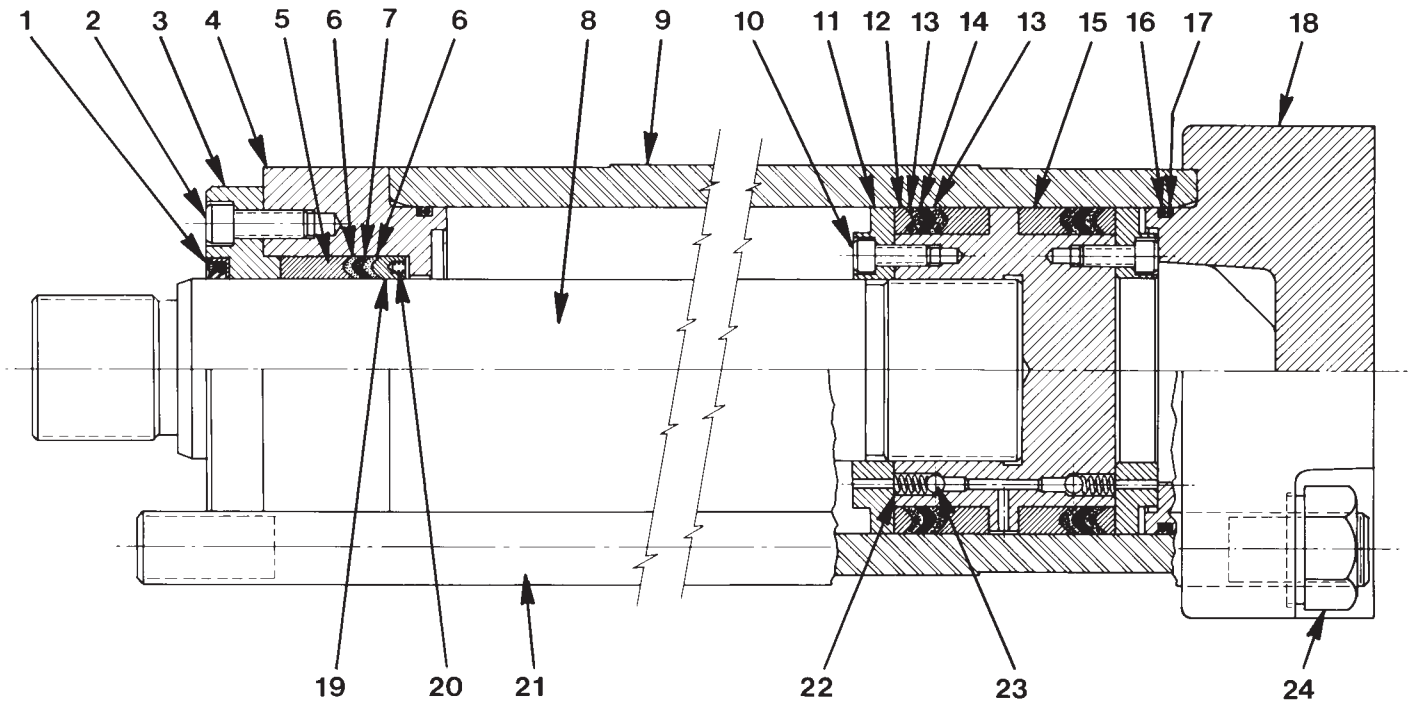
| <b>Item No.</b> | <b>Part No.</b>         | <b>No. Req'd</b> | <b>Description</b>                                |
|-----------------|-------------------------|------------------|---------------------------------------------------|
| 1               | <b>K142.900</b>         | 1                | Pump Assembly                                     |
| 2               | <b>*U30X-5</b>          | 1                | Pump Kit                                          |
| 3               | <b>A652.051-1</b>       | 1                | Piston                                            |
| 4               | <b>A649.170</b>         | 1                | Spring                                            |
| 5               | <b>A650.340</b>         | 1                | Pump Cap                                          |
| 6               | <b>W407.524</b>         | 1                | Ring                                              |
| 7               | <b>A988.900</b>         | 1                | Release Valve                                     |
| 8               | <b>*U30X-6</b>          | 1                | Release Kit                                       |
| 9               | <b>*U30X-7</b>          | 1                | Valve Kit                                         |
| 10              | <b>*U30X-8</b>          | 1                | Overload Kit                                      |
| 11              | <b>A655.055</b>         |                  |                                                   |
|                 | <b>7-1/8" width</b>     | 1                | Base                                              |
| 12              | <b>HJ100.004</b>        | 1                | Cylinder                                          |
| 13              | <b>AJ100.060</b>        | 1                | Plug                                              |
| 14              | <b>*AJ100.020</b>       | 1                | Gasket                                            |
| 15              | <b>K909.025</b>         | 1                | Reservoir                                         |
| 16              | <b>K1.020</b>           | 1                | Cap                                               |
| 17              | <b>*K514.041</b>        | 1                | Ring                                              |
| 18              | <b>J864.040</b>         | 1                | Plunger                                           |
| 19              | <b>*J865.041</b>        | 1                | Ring                                              |
| 20              | <b>K10.186, 2-5/64"</b> | 1                | Spacer                                            |
| 21              | <b>K3.071</b>           | 1                | Disc                                              |
| 22              | <b>*E494.108</b>        | 1                | Wiper                                             |
| 23              | <b>*D385.041</b>        | 1                | Cup                                               |
| 24              | <b>J349.108-1</b>       | 1                | Washer                                            |
| 25              | <b>EJ100.014</b>        | 1                | Nut                                               |
| 26              | <b>18725</b>            | 1                | Power Unit Assembly (Includes Items 1 through 25) |

\* Item numbers marked with an asterisk (\*) are contained in Repair Kit No. 19447.

NOTE: Item 26 and repair kit can be ordered from Power Team.

All parts not included in the repair kit are to be purchased from your Power Team authorized hydraulic service center.

**DOUBLE ACTING CYLINDER ASSEMBLY**  
Capacity: 103.15 Tons At 10,000 PSI Maximum (Push)  
67.8 Tons At 10,000 PIS Maximum (Pull)



TORQUE IN 190 FT.—LBS.  
INCREMENTS TO 950 FT.—LBS.  
IN SEQUENCE SHOWN.

| Item No. | Part No.     | No. Req'd | Description                             |
|----------|--------------|-----------|-----------------------------------------|
| 1        | 10907        | 1         | Wiper Ring                              |
| 2        | 10885        | 6         | Soc. Hd. Cap Screw (3/8-16 x 1-1/4 Lg.) |
| 3        | 30621        | 1         | Packing Support Plate                   |
| 4        | 40168        | 1         | Cylinder End Cap                        |
| 5        | 21408        | 1         | Female Adapter                          |
| 6        | 10338        | 2         | V-ring                                  |
| 7        | 10523        | 1         | V-ring                                  |
| 8        | 30679        | 1         | Piston Rod & Head Assembly              |
| 9        | 30622-15 1/2 | 1         | Cylinder                                |
| 10       | 10506        | 12        | Soc. Hd. Cap Screw (5/16-18 x 7/8 Lg.)  |
| 11       | 21407        | 2         | Packing Support Plate                   |
| 12       | 10888        | 2         | Male Adapter                            |
| 13       | 10339        | 4         | V-ring                                  |
| 14       | 12596        | 2         | V-ring                                  |
| 15       | 21410        | 2         | Female Adapter                          |
| 16       | 10886        | 2         | O-ring                                  |
| 17       | 19174        | 2         | Backup Washer                           |
| 18       | 42970        | 1         | Cylinder Base Cap                       |
| 19       | 21406        | 1         | Male Adapter                            |
| 20       | 10359        | 6         | Compression Spring                      |
| 21       | 21497        | 4         | Tie Rod                                 |
| 22       | 11024        | 2         | Compression Spring (1/4 O.D. x 5/8 Lg.) |
| 23       | 10375        | 2         | Steel Ball (1/4 Dia.)                   |
| 24       | 21411        | 4         | Special Tie Rod Nut                     |
| 25       | 10479        | 1         | Pipe Plug (1/4 NPTF)                    |

## PARTS INCLUDED BUT NOT SHOWN

37782 1 Warning Decal

Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected. **Therefore: Use only genuine replacement parts!**

Additional questions can be directed to our Technical Services Department.