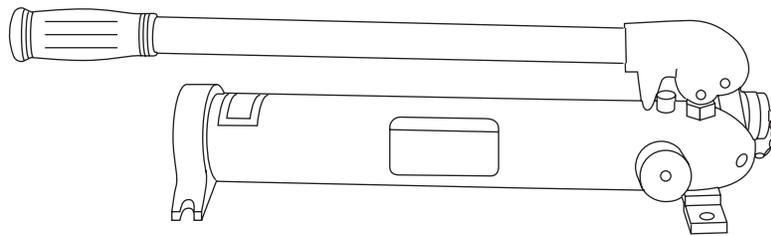


# OPERATION, SERVICE AND PARTS INSTRUCTION MANUAL



## 755 HYDRAULIC HAND PUMP



**Read and understand** this material before operating or servicing this equipment. Failure to understand how to safely operate this tool could result in an accident causing serious injury or death. This device should only be operated by qualified personnel.

## Description

The 755 Hydraulic Hand Pump develops 10,000 psi (68,950 kPa) and is intended to be used with the following Greenlee conduit benders, tubing bender, and punch driver.

Conduit Benders:	model 777	Punch Driver:	model 1732
	model 880	Tubing Bender:	model 782
	model 882		
	model 882CB		

Fill with Greenlee hydraulic oil or Mobil DTE-13 only.

## Purpose of this Manual

This instruction manual is intended to familiarize operators and maintenance personnel with the 755 Hydraulic Hand Pump. This manual should be kept available to the operating and maintenance personnel.



### SAFETY ALERT SYMBOL

The symbol above is used to call your attention to instructions concerning your personal safety. Watch for this symbol. It points out important safety precautions. It means **“ATTENTION! Become alert! Your personal safety is involved!”** Read the message that follows and be alert to the possibility of personal injury or death.

### DANGER

Immediate hazards which **WILL**, if not avoided, result in severe personal injury or death.

### WARNING

Hazards or unsafe practices which **COULD**, if not avoided, result in severe personal injury or death.

### CAUTION

Hazards or unsafe practices which **COULD**, if not avoided, result in minor personal injury or property damage.

Safety is a critical factor in the design of Greenlee equipment. The best program starts with a safety-conscious operator. The information highlighted in this bulletin describes operating practices for the benefit of the workers who will use our equipment in their daily jobs. Comments from users are appreciated.



### WARNING

A person who has not read and does not understand all operating instructions is not qualified to operate this tool.

Failure to read and understand safety instructions may result in injury or death.

**IMPORTANT SAFETY INSTRUCTIONS**

	<p><b>⚠ WARNING</b></p>
	<p>Electric shock hazard: This is not an insulated tool. Contact with live circuits can result in severe injury or death.</p>

<p><b>⚠ WARNING</b></p>
<p>Inspect pump, hoses and couplers. Replace any worn, damaged or missing components with Greenlee replacement parts.</p>

	<p><b>⚠ WARNING</b></p>
	<p>Skin injection hazard: Oil under pressure easily punctures skin causing serious injury, gangrene or death. If you are injured by escaping oil, seek medical attention immediately.</p> <ul style="list-style-type: none"> <li>• Hand-tighten all couplers completely before operating the pump. Do not use tools to tighten the couplers.</li> <li>• Do not use fingers or hands to check for leaks while operating the pump.</li> <li>• Do not hold hose or couplers while operating the pump.</li> <li>• Release the hydraulic pressure before disconnecting hoses or couplers, and before servicing the pump or accessory.</li> </ul>

	<p><b>⚠ WARNING</b></p>
	<p>Wear eye protection when using this pump.</p>

<p><b>⚠ WARNING</b></p>
<p>Follow the operating instructions and safety information supplied with the hydraulic ram or accessory.</p> <p>Failure to observe this warning could result in severe injury or death.</p>

<p><b>⚠ CAUTION</b></p>
<ul style="list-style-type: none"> <li>• Use this tool for the manufacturer's intended use only.</li> <li>• Work in areas that are well-lit, uncluttered and dry.</li> </ul>

**SAVE THESE INSTRUCTIONS**

Additional copies of this manual are available upon request at no charge.

## Operation

1. Remove the dust cap.
2. Connect the hose to the bender or punch unit.  
*Note: Hand-tighten the couplers completely. Do not use tools.*
3. Twist the release knob (7) clockwise until it stops.
4. Pump the handle (9) until the bend or punch is complete.
5. Twist the release knob (7) counterclockwise to release the hydraulic pressure.
6. Disconnect the hose from the bender or punch unit. Replace all dust caps.

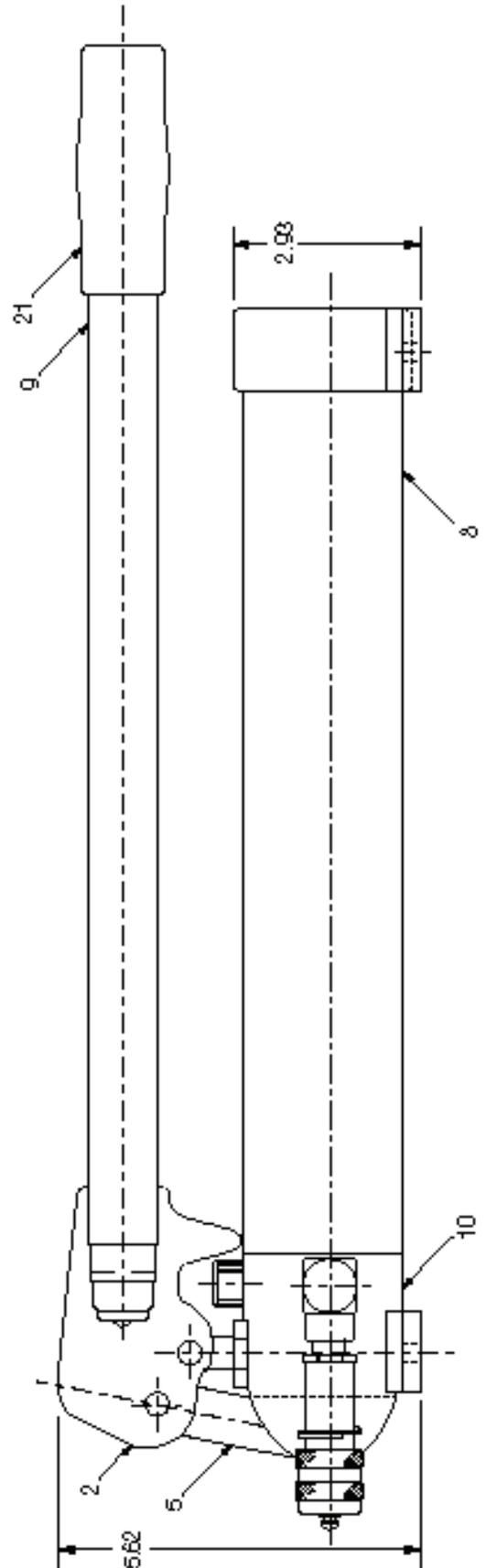
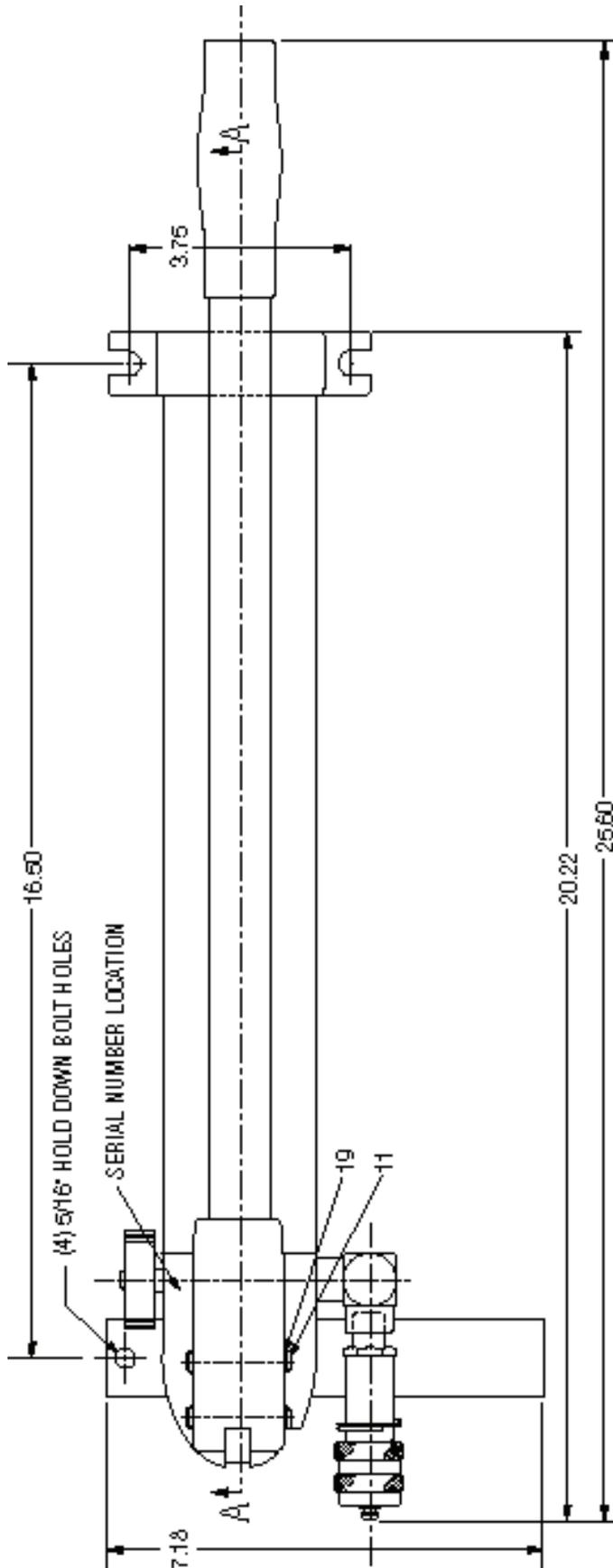
## Filling the Pump with Oil

1. Clamp the pump into a vise with the end cap (1) upward. Loosen the set screw (26) and remove the end cap.
  2. Remove the cap screw (31) with O-ring (18) from the reservoir follower (3). Remove the follower from the reservoir. Inspect both V-packings (28); replace them if they are worn or damaged.
  3. Pour Greenlee hydraulic oil\* into the reservoir until it is within 1-3/4" from the top.
  4. Reinstall the reservoir follower.
  5. Turn the release knob (7) counterclockwise so the valve is open. Pump the handle (9) two or three times.
  6. Turn the release knob (7) clockwise so the valve is closed. Pump the handle (9) two or three times.
  7. Slowly turn the release knob (7) to counterclockwise. This will allow any air trapped in the pump block (10) or reservoir (8) to escape.  
*Note: Do this slowly to prevent the oil from suddenly gushing up through the cap screw hole.*
  8. Repeat steps 5 through 7 one or two more times.
  9. Inspect the O-ring (18) in the cap screw (31); replace O-ring if it is worn or damaged.
  10. Replace the cap screw (31) with O-ring (18) in the follower (3). Hand-tighten the cap screw.
  11. Wipe any excess oil from the outside of the reservoir and replace the end cap (1). Tighten the set screw (26).
- \* Order Greenlee hydraulic oil by the gallon (part number 905 1059.3) or by the quart (part number 905 0806.8).

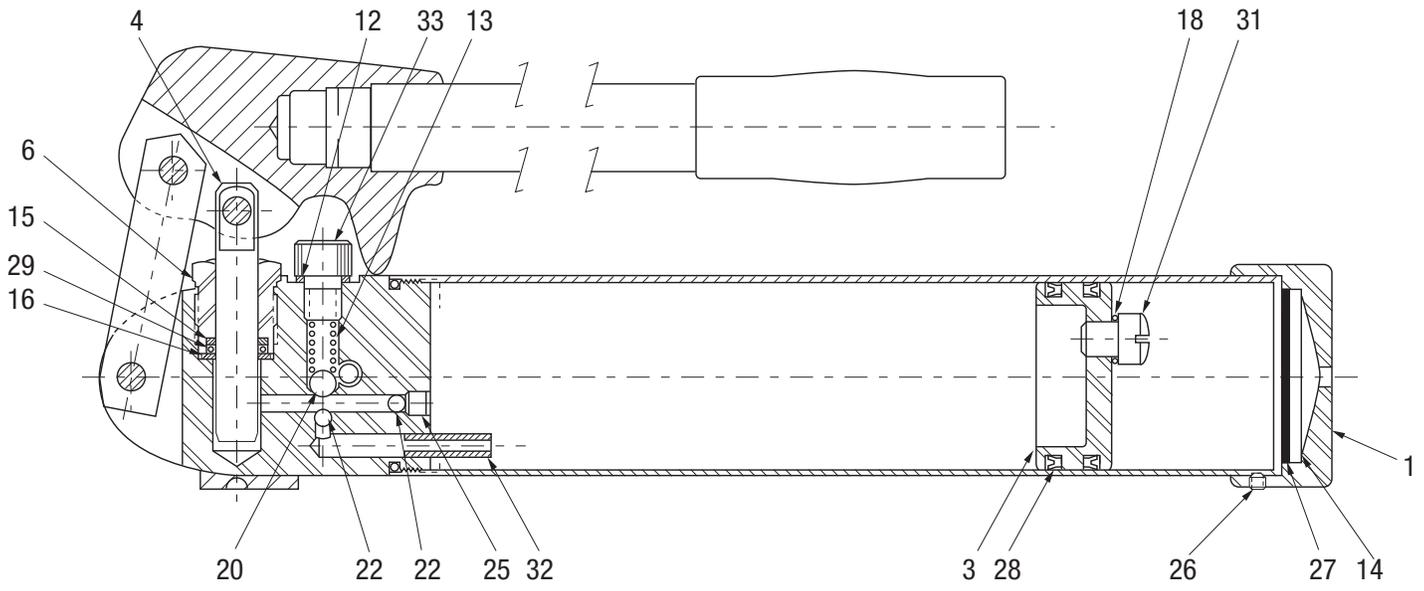
## Troubleshooting

PROBLEM	PROBABLE CAUSE	POSSIBLE REMEDY
Oil leak at coupler.	<p>Fitting loose or damaged.</p> <p>O-ring is worn or damaged.</p>	<p>Tighten or replace fitting and/or coupler.</p> <p>Replace O-ring.</p>
Pump builds pressure, but ram does not advance, or ram will not return.	Coupler is not tightened sufficiently, and check balls are not engaged.	Hand-tighten coupler completely so check balls engage. Replace coupler if necessary.
Oil leak at OPEN/CLOSE release knob.	<p>O-ring and/or backup ring is worn or damaged.</p> <p>Release shaft is bent.</p>	<p>Replace O-ring (18) and/or backup ring (17).</p> <p>Replace release shaft knob unit (7).</p>
Oil leak at plunger. (Attached to handle.)	<p>O-ring, backup ring and/or washer are worn or damaged.</p> <p>Injector packing nut is worn.</p>	<p>Replace O-ring (29), backup ring (15), and washer (16).</p> <p>Replace injector packing nut (6).</p>
Oil leak at reservoir end.	<p>V-packing seal is worn or damaged.</p> <p>Cylinder wall damaged.</p>	<p>Replace two V-packing seals (28).</p> <p>Replace reservoir tube (8).</p>
Can't hold load or excessive pumping is required.	Ball in release knob leaking. Discharge ball (20) or intake ball (22) below discharge ball (20) is leaking.	Check seat for scratches or contamination. Reseat ball or return to an authorized Greenlee service center for repair.
Can't raise load with excessive pumping but handle is rigid.	Intake ball (22) below discharge ball (20) is leaking.	Check seat for scratches or contamination. Reseat ball or return to an authorized Greenlee service center for repair.
Load on system causes handle to lift.	Discharge ball (20) is leaking.	<p>Check seat for scratches or contamination. Reseat ball or return to</p> <p>an authorized Greenlee service center for repair.</p>

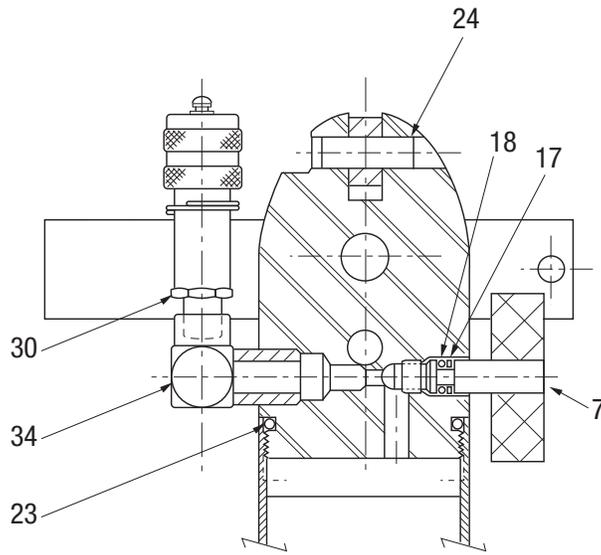
**Exploded View**



**Exploded View (cont'd)**

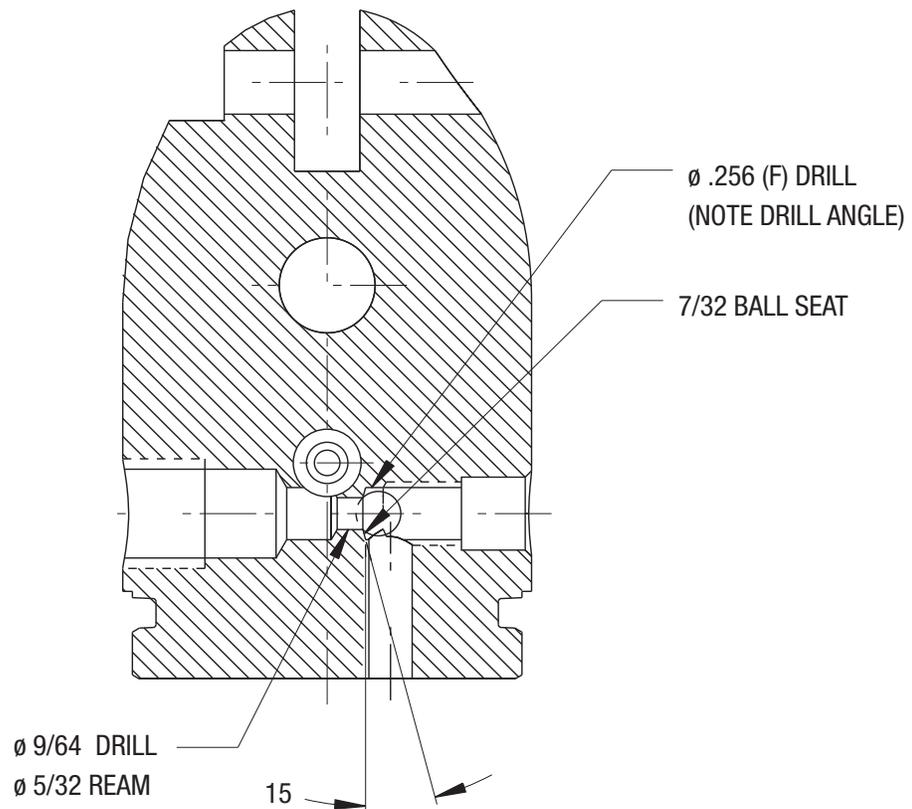
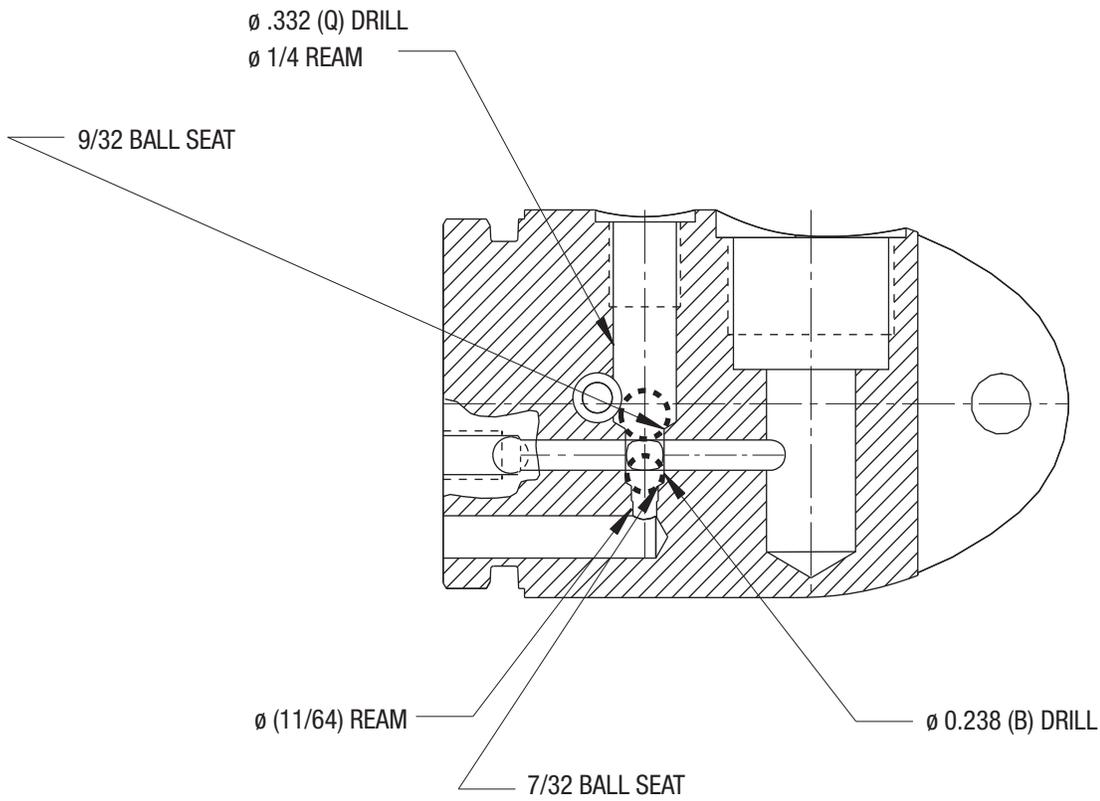


**SECTION A-A**



**SECTION B-B**

**Pump Block Seat**



**Parts List**

KEY	UPC NO. 78-3310-	PART NO.	DESCRIPTION	QTY.
1	501 5721.3	Cap, End.....	1	1
2	501 5724.8	Lever, Injector .....	1	1
3	501 1716.5	Reservoir Follower (Replaces 501 5814.7) .....	1	1
4	501 5725.6	Plunger.....	1	1
5	501 5726.4	Link, Lever .....	1	1
6	501 5727.2	Nut, Injector Packing .....	1	1
7	501 8182.3	Release Unit (Includes Key Nos. 17, 18 and 22)..... (Replaces 501 5728.0 and 501 6773.6 Units)	1	1
8	500 3467.7	Reservoir Tube (Replaces 501 5730.2) .....	1	1
9	501 5731.0	Handle.....	1	1
10	501 5732.9	Block Weldment, Pump .....	1	1
11	501 5735.3	Pin, Fulcrum.....	2	2
12	500 3177.5	Washer, Sealing .....	1	1
13	500 6111.9	Spring, Compression .....	1	1
14	500 3422.7	Filter, Felt .....	1	1
15	905 1455.6	Ring, 9/16 x 3/4 Single Turn Scarf-Cut Back-Up..... (Replaces 905 1173.5)	1	1
16	501 5736.1	Washer, Sealing .....	1	1
17	905 3853.6	Ring, 1/4 x 3/8 Teflon Spiral Back-Up .....	1	1
18	905 0418.6	O-Ring, 1/4 x 3/8 x 1/16 .....	2	2
19	905 0434.8	Ring, Retaining .....	4	4
20	905 0436.4	Ball, 9/32 dia. Grade #1 Chrome Steel .....	1	1
21	905 1174. 3	Grip, 1-1/16 ID x 1-3/8 OD x 5" Long Plastic .....	1	1
22	905 0452.6	Ball, 7/32 Dia. Grade #1 Chrome Steel.....	2	2
23	905 0385.6	O-Ring, 2-1/8 x 2-3/8 x 1/8 (Replaces 905 4770.5*) .....	1	1
24	905 0449.6	Pin, 5/16 x 1-1/4 .....	1	1
25	905 0619.7	Screw, 5/16-18 NC x 1/4 Flat Point Socket Set .....	1	1
26	905 0617.0	Screw, 1/4-20 NC x 1/4 Flat Point Screw Socket Set ....	1	1
27	905 0744.4	Ring, Retaining .....	1	1
28	905 0745.2	V-Packing, 2-1/4 OD x 1-7/8 ID x 3/16.....	2	2
29	905 0782.7	O-Ring, 9/16 x 3/4 x 3/32 (Replaces 905 4771.3*) .....	1	1
30	905 0807.6	Quick-Coupler, 3/8 NPTF.....	1	1
31	905 0558.1	Screw, 5/16-18 NC x 1/2 Fillister Head Cap.....	1	1
32	905 0885.8	Pin, 1/4 x 3/8 Spiral .....	1	1
33	905 1450.5	Screw, 3/8-24 NF x 1/2 Skt. Hd. Cap .....	1	1
		(Replaces 905 0904.8)		
34	905 1137.9	Elbow, 3/8-18 NPTF x 90° Street.....	1	1
37	905 0441.0	Oil, Greenlee Hydraulic .....	1 Qt.	1
	502 0450.5	Decal, Product/Safety/Caution .....	1	1
		<b>Optional Parts</b>		
	501 8272.2	Kit, Packing Repair		

\*Fluorocarbon O-rings used at factory as part of production process.



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