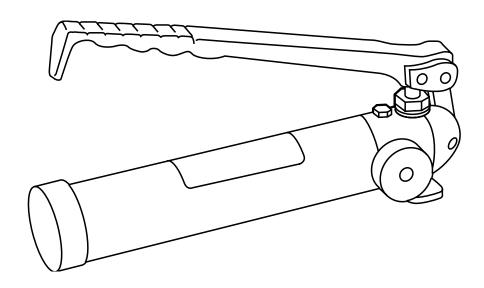
# OPERATION, SERVICE AND PARTS INSTRUCTION MANUAL





## 767 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.

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#### 767 Hydraulic Hand Pump

#### **Description**

The 767 Hydraulic Hand Pump develops 6500 psi (44,818 kPa) at .0823 in<sup>3</sup> (1.3 cm<sup>3</sup>) per stroke and is intended to power Greenlee model 746, 746C hydraulic rams and model 15631 single-acting hydraulic rams. These pump/ram combinations are used in the following Greenlee punch driver and cable cutter kits:

Cable Cutter: model 750 Punch Drivers: model 1731

model 7306 and 7306SB model 7310 and 7310SB

model 7506 model 7646

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 safe operating and maintenance procedures associated with the 767 Hydraulic Hand Pump. This manual should be kept available to 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.

## **ADANGER**

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

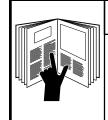
## **AWARNING**

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

#### **ACAUTION**

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.



#### **AWARNING**

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



## **AWARNING**

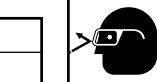
Electric shock hazard:

This is not an insulated tool.

Contact with live circuits can result in severe injury or death.

#### **AWARNING**

Inspect pump, hoses and couplers. Replace any worn, damaged or missing components with Greenlee replacement parts.



## **AWARNING**

Wear eye protection when using this pump.



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.

- Hand-tighten all couplers completely before operating the pump. Do not use tools to tighten the couplers.
- Do not use fingers or hands to check for leaks while operating the pump.
- Do not hold hose or couplers while operating the pump.
- Release the hydraulic pressure before disconnecting hoses or couplers, and before servicing the pump or accessory.

## **AWARNING**

Follow the operating instructions and safety information supplied with the hydraulic ram or accessory.

Failure to observe this warning could result in severe injury or death.

## **ACAUTION**

- Use this tool for the manufacturer's intended use only.
- Work in areas that are well-lit, uncluttered and dry.

#### 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 punch driver or cable cutter.

Note: Hand-tighten the couplers completely. Do not use tools.

- 3. Twist the release knob (1) clockwise to CLOSE.
- 4. Pump the lever (24) until the operation is complete.

After replacing any component of the hydraulic system, the pump may not contain enough hydraulic fluid to complete the operation. Twist the release knob (1) counterclockwise to OPEN to release any hydraulic pressure. Follow the filling instructions under Fill the Pump with Oil.

- 5. Twist the release knob (1) counterclockwise to OPEN.
- 6. Disconnect the hose from the punch driver or cable cutter. Replace all dust caps.

#### Filling the Pump with Oil

- 1. Clamp the pump into a vise with the end cap (7) upward. Remove the end cap.
- Remove the cap screw (29) with O-ring (28) from the reservoir follower (12). Remove the follower from the reservoir. Inspect both V-packings (11); replace them if they are worn or damaged.
- Pour Greenlee hydraulic oil\* into the reservoir until it is within 3/4" from the top.
- Reinstall the reservoir follower.
- Turn the release knob (1) counterclockwise to OPEN. Pump the lever (24) two or three times.
- Turn the release knob (1) clockwise to CLOSE. Pump the lever (24) two or three times.
- Slowly turn the release knob (1) counterclockwise to OPEN. This will allow any air trapped in the pump block (5) or reservoir (10) to escape.

Note: Do this slowly to prevent the oil from suddenly gushing up through the cap screw hole.

- Repeat steps 5 through 7 one or two more times.
- Inspect the O-ring (28) in the cap screw (29); replace the O-ring if it is worn or damaged.
- 10. Replace the cap screw (29) with O-ring (28) in the follower. Hand-tighten the cap screw.
- 11. Wipe any excess oil from the outside of the reservoir and replace the end cap (7).
- Order Greenlee hydraulic oil by the gallon (905 1059.3) or by the quart (905 0806.8).



## 767 Hydraulic Hand Pump

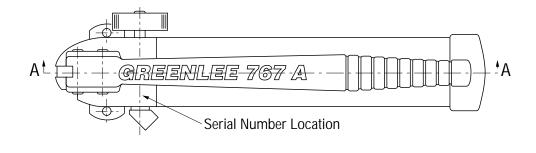
## **Troubleshooting**

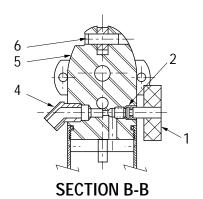
ng loose or damaged.  ng is worn or damaged.  spler is not tightened sufficiently, check balls are not engaged.	Tighten or replace fitting and/or coupler Replace O-ring.  Hand-tighten coupler completely so
ng is worn or damaged.  upler is not tightened sufficiently,	Replace O-ring.  Hand-tighten coupler completely so
pler is not tightened sufficiently,	Hand-tighten coupler completely so
	check balls engage. Replace coupler if necessary.
ng is worn or damaged.	Replace O-ring (2).
ease shaft is bent.	Replace release shaft knob unit (1).
ng and/or washers are worn or naged.	Replace O-ring (18) and washers (17) and (19).
ctor packing nut is worn.	Replace injector packing nut (20).
acking seal is worn or damaged.	Replace two V-packing seals (11).
nder wall damaged.	Replace reservoir tube (10).
in release knob leaking. charge ball (16) or intake ball (15) ow discharge ball (16) is leaking.	Check seat for scratches or contamination. Reseat ball or return to an authorized Greenlee service center for repair.
ke ball (15) below discharge ball (16) aking.	Check seat for scratches or contamination. Reseat ball or return to an authorized Greenlee service center for repair.
charge ball (16) is leaking.	Check seat for scratches or contamination. Reseat ball or return to an authorized Greenlee service center for repair.
	ow discharge ball (16) is leaking.  ke ball (15) below discharge ball (16) aking.

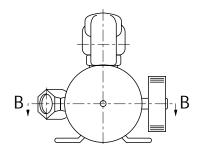


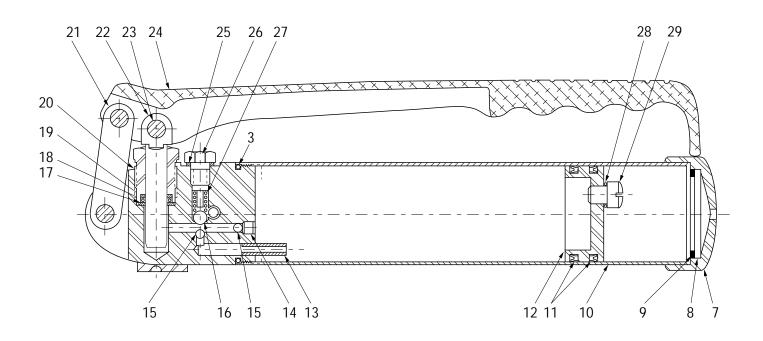


## **Exploded View**





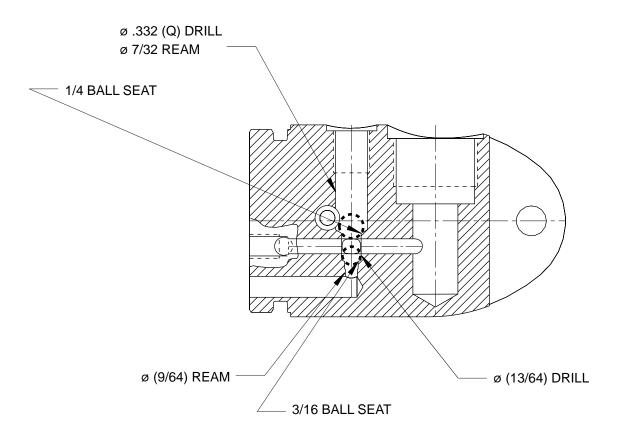


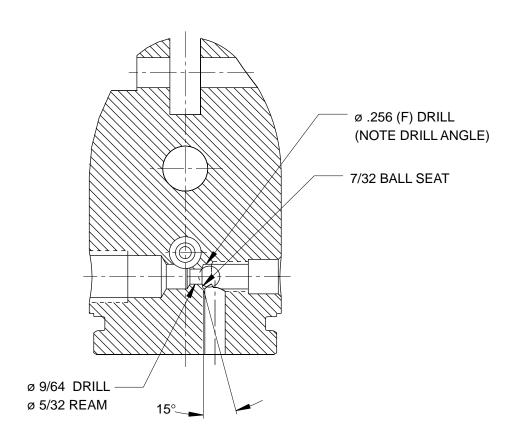


**SECTION A-A** 



#### **Pump Block Seat**





#### **Parts List**

KEY	PART NO.	DESCRIPTION QTY.
1	502 4520.1	Shaft-Knob Unit, Release (includes Key 2)1
2	905 0418.6	O-Ring, 1/4" x 3/8" x 1/16"
3	905 0408.9	O-Ring, 1-5/8" x 1-7/8" x 1/8" (replaces 905 4750.0**) 1
4	905 0392.9	Street Ell,
	45° x 1/4" Male x 1/4" Female Brass Cadmium Plated 1	
5	501 3281.4	Block Unit, Pump1
6	905 0407.0	Pin, 5/16" x 7/8"1
7	500 3424.3	End-Cap1
8	500 3422.7	Filter1
9	905 0744.4	Ring, Retaining1
10	500 3425.1	Tube, Reservoir1
11	905 3262.7	V-Packing Seal2
12	503 0241.8	Follower, Reservoir1
13	500 3441.3	Tube, Intake1
14	905 0368.6	Screw, 1/4-20 NC x 1/4" Cup Pt. Skt. Set
15	905 0678.2	Ball, 3/16" Dia. GR. #1 Chrome Steel2
16	905 0679.0	Ball, 1/4" Dia. GR. #1 Chrome Steel
17	501 3280.6	Washer, Sealing1
18	905 0776.2	O-Ring, 7/16" x 5/8" x 3/32" (replaces 905 4749.7**)1
19	501 1286.4	Washer, Teflon1
20	501 3283.0	Nut, Injector Packing1
21	500 3164.3	Link, Lever1
22	500 3165.1	Plunger1
23	905 0449.6	Pin, 5/16" x 1-1/4"2
24	501 0001.7	Lever1
25	500 3177.5	Washer, Valve Screw Sealing1
26	500 3417.0	Screw, Valve1
27	500 4102.9	Spring, Compression1
28	905 0418.6	O-Ring, 1/4" x 3/8" x 1/16"1
29	905 0558.1	Screw, 5/16-18 NC x 1/2" Fillister Head Machine 1
OPTIO	ONAL	
	501 3800.6*	Packing Repair Kit 55D01 to 61BG01 (not shown) 1
	503 0242.6	Packing Repair Kit 61BG01 and Later (not shown) 1
	905 1059.3	Oil, Light Hyd. (not shown)1 gal.
	905 0806.8	Oil, Light Hyd. (not shown)
	500 0247.3	Decal, Identification/Safety1

- \* When using this Kit, the Follower 500 3336.0 must be replaced with 503 0241.8, as the 905 0731.2 "V" Packing has been replaced by 905 3262.7 "V" Packing and cannot be interchanged.
- \*\* Fluorocarbon O-Rings used at factory as part of production process.



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