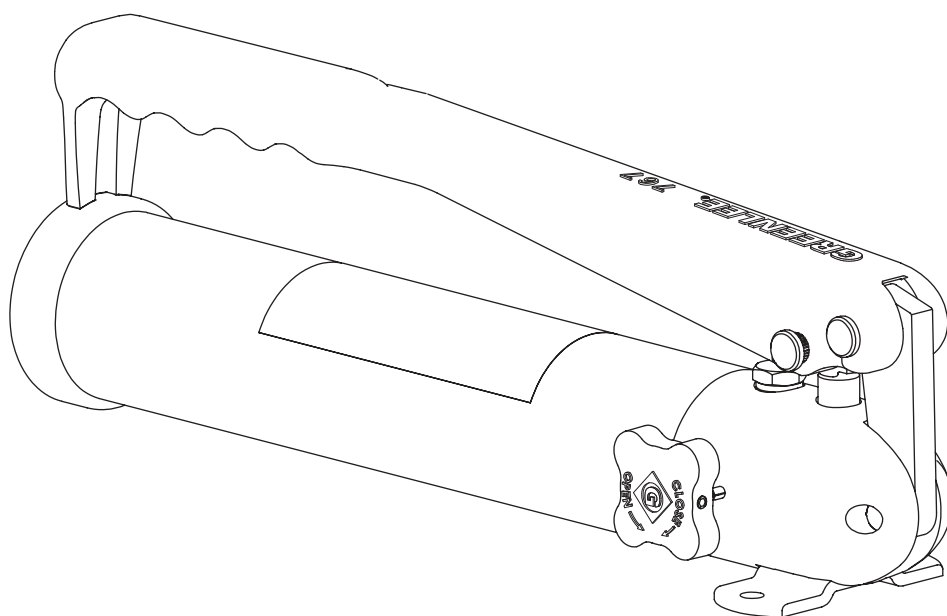


INSTRUCTION MANUAL



767 Hydraulic Hand Pump

Serial Code ANA



Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Register this product at www.greenlee.com

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Description

The 767 Hydraulic Hand Pump develops 6500 psi (44,818 kPa) at .0823 in³ (1.3 cm³) per stroke and is intended to power Greenlee model 746 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.

Safety

Safety is essential in the use and maintenance of Greenlee tools and equipment. This instruction manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

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.

Keep this manual available to all personnel.

Replacement manuals are available upon request at no charge at www.greenlee.com.

All specifications are nominal and may change as design improvements occur. Greenlee Textron Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

KEEP THIS MANUAL

IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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



⚠ WARNING

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

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



⚠ WARNING

Electric shock hazard:

Do not use near live circuits.

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

⚠ WARNING



Skin injection hazard:

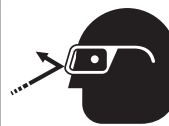
- Hand-tighten all couplers completely before operating the pump. Do not use tools to tighten the couplers.
- Do not use hands to check for leaks while operating the pump.
- Do not hold hose or couplers while operating the pump.
- Release the hydraulic pressure before disconnecting hoses or couplers,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

Oil under pressure easily punctures skin causing serious injury, gangrene or death. If you are injured by escaping oil, seek medical attention immediately.

⚠ WARNING

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

A damaged or improperly assembled tool can break and strike nearby personnel with sufficient force to cause severe injury or death.



⚠ WARNING

Wear eye protection when using this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.

⚠ WARNING

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.

⚠ CAUTION

Use this tool for manufacturer's intended purpose only. Use other than that which is described in this manual may result in injury or property damage.

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.

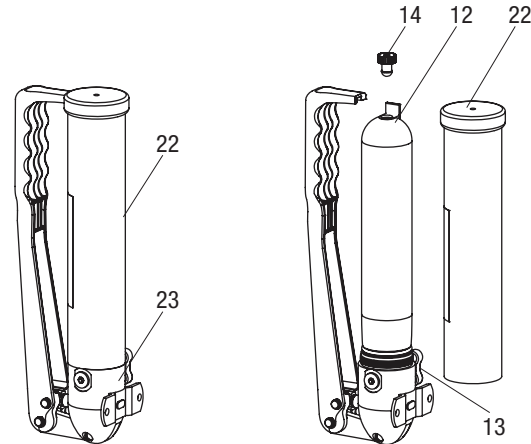
3. Twist the release knob (16) to CLOSE.
4. Pump the lever (1) until the operation is complete.
5. Twist the release knob (16) to OPEN.
6. Disconnect the hose from the punch driver or cable cutter. Replace all dust caps.

Note: After replacing any component of the hydraulic system, the reservoir may not have enough oil to complete the operation. Refer to Filling the Pump with Oil.

Note: The release knob is turned to the closed position. It does not tighten.

Filling the Pump with Oil

1. Clamp the pump into a vise with the machined reservoir end upward.
2. Unscrew machined reservoir (22) from the pump block (23) and gently remove machined reservoir, as shown below.



3. Inspect rubber bladder (12), bladder plug (14) and position and condition of O-ring (13). Replace if damaged or worn.
4. Pour Greenlee hydraulic oil* into the rubber bladder (12) until oil comes to the top of the plug hole.
5. Turn the release knob (16) to OPEN. Pump the lever (1) two or three times.
6. Turn the release knob (16) to CLOSE. Pump the lever (1) two or three times.
7. Slowly turn the release knob (16) to OPEN. This will allow any trapped air to escape.

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

8. Repeat steps 5 through 7 one or two more times.
9. To eliminate all air from the bladder, do one of the following:
 - Slowly add oil to the bladder until the oil level rises to the plug hole.
 - Squeeze the bladder until the oil level rises to the plug hole.

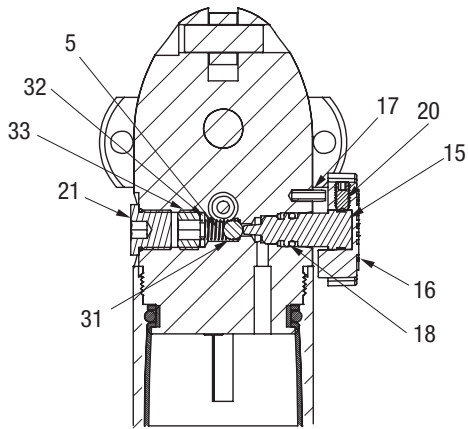
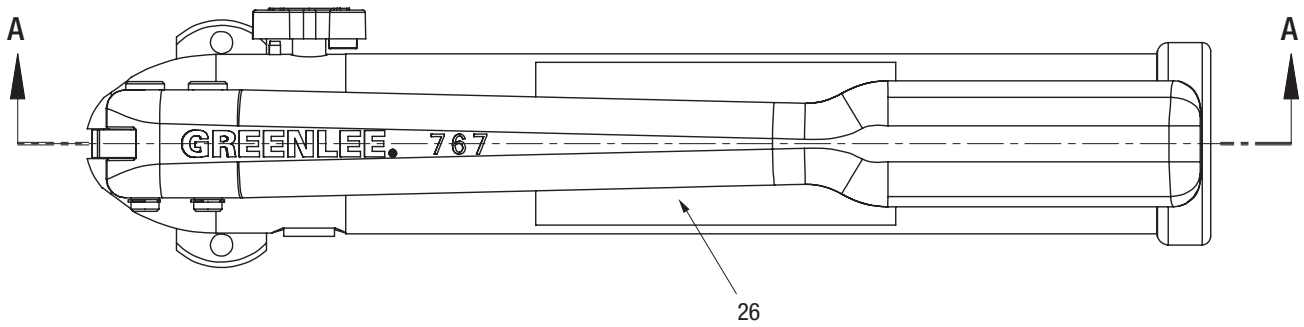
10. Replace the bladder plug (14) in hole in the rubber bladder (12) being careful not to spill any oil.
11. Carefully wipe any excess oil from the outside of the rubber bladder (12) and replace the machined reservoir (22). Wipe any excess oil from outside of machined reservoir (22).

* Order Greenlee hydraulic oil by the gallon (90510593) or by the quart (90508068).

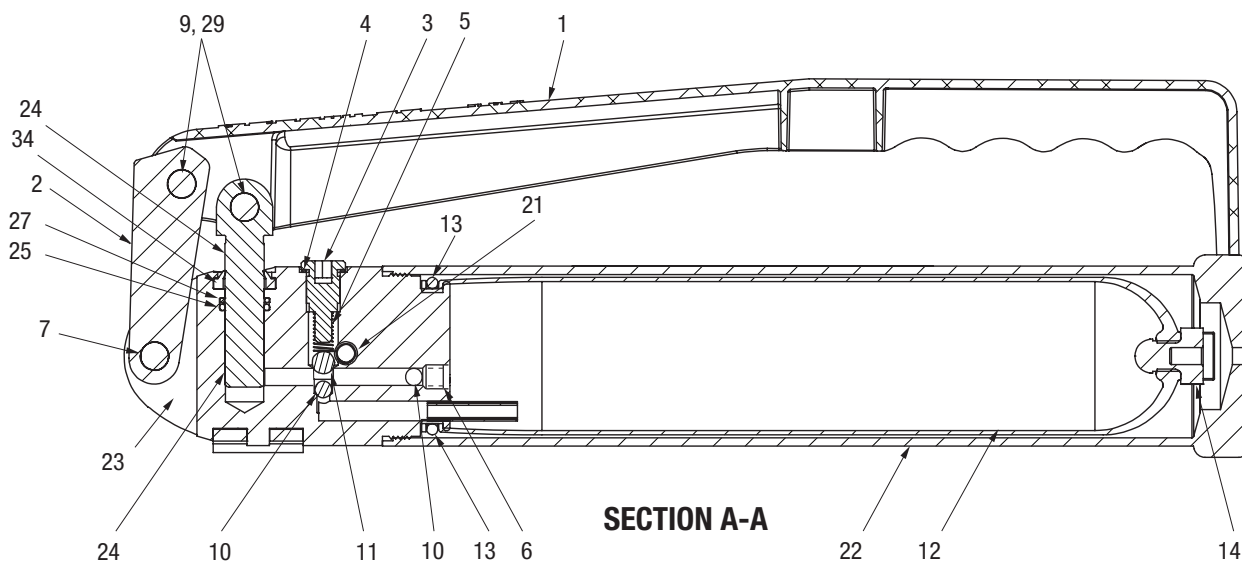
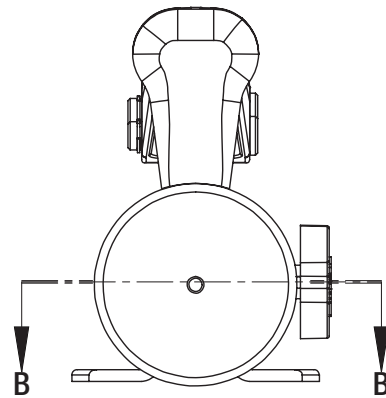
Troubleshooting

Problem	Probable Cause	Probable Remedy
Oil leak at coupler.	Fitting loose or damaged.	Tighten or replace fitting and/or coupler.
	O-ring is worn or damaged.	Replace O-ring.
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 (16).	O-ring (18) is worn or damaged.	Replace O-ring (18).
	Release stem (15) is bent.	Replace release stem (15) and/or release knob (16).
Oil leak at pump plunger (24). (Attached to handle.)	O-ring (25) and/or backup ring (27) are worn or damaged.	Replace O-ring (25) and backup ring (27).
Oil leak at reservoir end.	Bladder plug (14) or rubber bladder (12) is punctured or worn.	Replace bladder plug (14) and/or rubber bladder (12).
	O-ring (13) damaged or out of position.	Replace or reposition O-ring (13).
Can't hold load or excessive pumping is required.	Release check ball (31) is leaking. Discharge ball (11) or intake ball (10) below discharge ball (11) 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 (10) below discharge ball (11) 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 (11) is leaking.	Check seat for scratches or contamination. Reseat ball or return to an authorized Greenlee service center for repair.
Pump builds pressure when held in horizontal position but does not if release knob is in an up (vertical) position.	Air in rubber bladder (12).	Refill pump with oil.

Illustration



SECTION B-B



SECTION A-A

Parts List

Key	Part No.	Description	Qty
1	50100017	Lever, hand pump	1
2	50042637	Link, lever	1
3	50034170	Screw, valve 3/8-24	1
4*		Washer, flat .375 x .500 x .031 copper	1
5*		Spring, compression .194 x .218 x .750	2
6	90503686	Screw, set 1/4-20 x .250 socket	1
7	90504070	Pin, drive .312 x .875 type C zinc	1
8		Oil, hydraulic (not shown).....	0.08 gal.
9		Pin, clevis .313 x 1.25	2
10*		Ball, steel ø .187 grade #25	2
11*		Ball, steel ø .250 grade #25	1
12	50014366	Bladder, rubber	1
13*		O-ring, 1.312 x 1.562 x .125 7OD	1
14	50324888	Plug, bladder rubber BK	1
15†		Stem, release valve	1
16†		Knob, release valve	1
17		Pin, roll .125 x .375	1
18*†		O-ring, .250 x .375 x .062	1
20†		Screw, set #8-32 x .187 socket cup PT	1
21	90540174	Plug, O-ring boss 7/16-20 x .450	1
22	50014315	Tube, reservoir	1
23		Block weldment, pump	1
24	52057877	Plunger, pump	1
25*		O-ring, .312 x .437 x .062 9OD	1
26*		Decal, identification	1
27*		Backup ring, spiral .312 x .437 x .062	1
29	90504348	Ring, retaining	2
30*		O-ring, .625 x .812 x .093 (not shown)	1
31*		Ball, steel ø.218	1
32		Washer, #6 flat	1
33		Jamb set screw	1
34*		Wiper seal	1
*	52058780	Packing kit (includes items marked with an asterisk)	
†	52058785	Release valve kit (includes items marked with †)	



GREENLEE®

A Textron Company

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