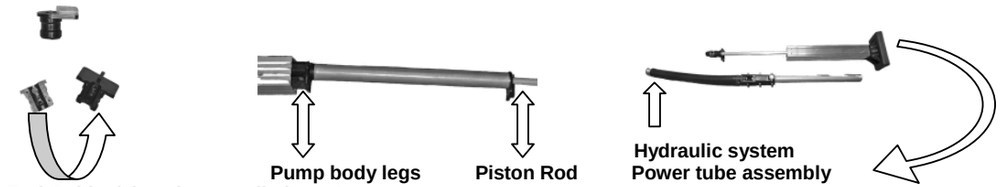
Step 6 – Install new hydraulic assembly



End Guides/also shown pulled apart

Insert piston rod into new cylinder tube. If black end guide comes off, it can be snapped back on with large part on the bottom and the small part on the top of the piston rod.

- Make sure end guide and the two pump body legs are aligned and down. The rectangular hole on the top of the bar should be facing the same direction as the rectangular hole in the hydraulic assembly.
- Slide back into the main tube the same way it came out
- End guide must stay inside the end of the cylinder tube.

Step 7 – Reassemble bar

Aligning roll Pins

- Align rectangular opening of pump body with rectangular opening in the main tube.
- Check roll pin holes to be sure there is no obstruction. If the holes are obstructed, this means the end guide has come out of the cylinder tube. If this happens, simply pull out the power tube, reposition the end guide, and reinsert.
- Drive both 1/4" roll pins back into bar until flush. If you have difficulty driving the pins flush, turn the bar over and use the 1/8" punch to help align holes.
- Reinstall handle bracket – Rectangular area of bracket lines up with rectangular opening in pump body. Tighten all 4 screws.
- Reinstall handle. Handle slides into the groove of the pump assembly. Be sure handle is on opposite side of release button.
- Turn bar on its side and reinsert the handle pin into larger opening so that head on large end of the pin sets into the recess on the bracket. Tap pin with a hammer until slightly recessed.
- Tear off end of SILICONE LUBRICANT TUBE included with replacement hydraulic unit and squeeze contents into the release button cavity before installing the red release button (prevents freeze-up in cold moist conditions).
- Insert release button – plunger side down. Screw on hand tight and snug with pliers or 5/8" socket.
- Slide button cover onto release button

YOU NOW HAVE A BRAND NEW BAR!

SAVE-A-LOAD, INC.

PROCEDURES FOR CHECKING HYDRAULICS AND INSTALLING REPLACEMENT HEAVY DUTY HYDRAULIC ASSEMBLY

Hydraulics that are returned to us with no defect will be shipped back to the customer at their expense. To prevent from incurring this expense, it is important to verify that the hydraulics have actually failed rather than the bar not working properly due to another problem. Prior to replacing hydraulic, check the following:

1. Be sure the bar is completely compressed. If the power tube is extended, press the release button and push on power tube until it is completely compressed.
2. With the power tube end (hydraulic end) of bar up and the adjustable extension tube on the bottom, pump the handle to see if the bar will pump. If the power tube end does extend, pump 8 to 10 times. Then take your hand and try to push the foot of the power tube end to see if it will compress. If it does not move, the hydraulic is functioning properly. Now, press the release button to see if the hydraulic pressure is released. If you push the button and are able to compress the bar, the hydraulic is functioning properly and should not be replaced.
3. If you pump the handle and the hydraulic end does not move or it appears to skip, check the nose of the pump handle by removing the pump handle. If the nose is worn, it should be replaced. This worn handle can be the problem rather than the hydraulic. It is recommended that the handles be replaced at least every 12 to 18 months of moderate use.
4. If you are able to pump the hydraulic, but are unable to release the bar, check the release button by removing the release button. If the little plunger of the release button has been broken off, the bar will not release and the release button should be replaced. This broken release button can be the problem rather than the hydraulic.

Once you have checked the bar and determined that the hydraulic is not working, then follow the instructions on how to remove the failed hydraulic and install the new one.

Place the failed hydraulic in the shipping sleeve to be returned for replacement and/or credit.
Do not return any hydraulics that are damaged, i.e. pump body damage, power rod end broken off inside of hydraulic, snap piston missing.
If you have any questions about how to check the bar and/or replacing hydraulics, call 1-800-728-5623 for assistance.

Replacing the Heavy Duty Hydraulic Assembly

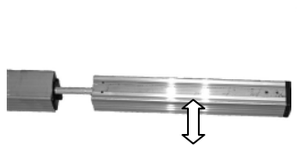
Tools Needed

5/8" 12pt socket
Phillips-head screwdriver
Flat-head screwdriver
¼" roll pin punch **(both punches can be purchased thru Save-A-Load, Inc.)**
1/8" roll pin punch
Hammer – preferably brass to decrease likelihood of damage to bar.
Pliers

SEE STEP 7 FOR INSTALLING SILICONE LUBRICANT

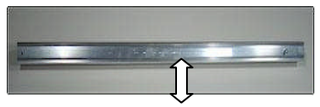
Parts Definitions

Power tube = end that encloses the hydraulic cylinder.
Extension tube = end that can be adjusted via silver snap button
Hydraulic assembly = includes cylinder tube, pump body, and black bladder tube



Power Tube

Hydraulic Assembly



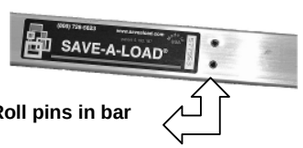
Extension Tube

Step 1 – Ensure that bar is at its smallest length

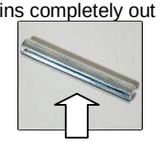
- Power tube end
  - Place power tube end on ground
  - Press red release button
  - Push down on bar until completely compressed
- Extension tube end
  - Place extension tube end on ground
  - Press silver snap button
  - Let bar slide down past snap button until completely shortened

Step 2 – Remove the two ¼" roll pins on end of bar

Place bar on level surface.
Using hammer and ¼" roll pin punch, drive pins completely out of bar.

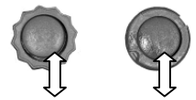


¼"Roll pins in bar



Roll Pin

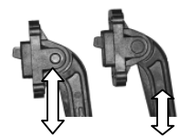
Step 3 – Remove red release button



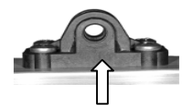
New release button **Old release button**

- Use flat head screwdriver to pry up button cover
- Two kinds of release buttons – smooth and ridged.
- Use pliers (or 5/8" socket on ridged button) in a counter-clockwise motion to loosen release button.
- Unscrew release button and remove.

Step 4 – Remove handle pin, handle, handle bracket



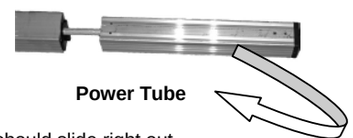
Small end handle pin/handle



Pump handle bracket

- Handle Pivot Pin – lay bar with small end of handle pin facing up. Use 1/8" punch to knock pin out.
- Handle – will lift straight out once handle pin is removed
- Handle Bracket - use Phillips screwdriver to remove the four screws.
- Remove bracket – may be pried up with flat-head screwdriver, if necessary.

Step 5 – Remove hydraulic assembly



Power Tube

- Pull on the power tube end – the hydraulic unit should slide right out.
- Grasp the silver cylinder tube and the square power tube and pull apart. A piston rod will come out of the cylinder tube.