SAVE-A-LOAD®

BY IFLEET ENGINEERS

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INSTALLATION INSTRUCTIONS

Replacement Heavy Duty Hydraulic Assembly For SL-30 & SL-20 Series Load Bars

INS-S5019

IMPORTANT:
Please contact customer service prior to returning any hydraulics.

VERIFYING HYDRAULIC FAILURE

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 (see FIG. 1) of bar up and the adjustable extension tube (see FIG. 2) 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 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, follow the instructions to remove failed hydraulic assembly.

PARTS DEFINITIONS

FIG 1 – Power tube: The end that encloses the hydraulic cylinder

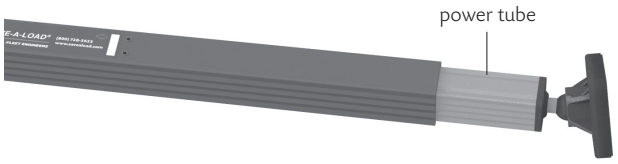


FIG 2 – Extension tube: The end that can be adjusted with the silver snap button

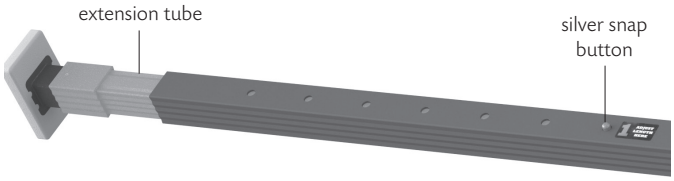
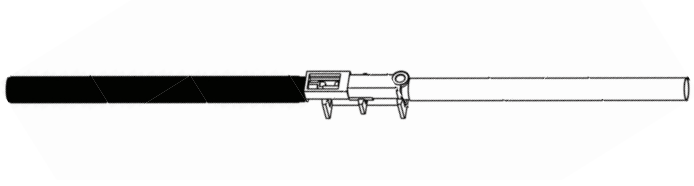


FIG 3 – Hydraulic assembly: Includes cylinder tube, pump body, and black bladder tube



TOOLS NEEDED

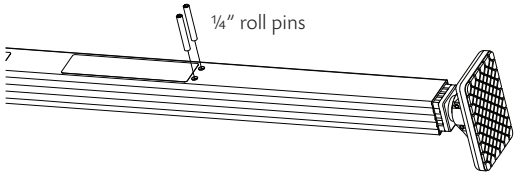
- 5/8" 12pt socket
- Phillips-head screwdriver
- Flat-head screwdriver
- 1/4" roll pin punch (available for purchase)
- 1/8" roll pin punch (available for purchase)
- Hammer – preferably brass to decrease likelihood of damage to bar
- Pliers

REMOVING FAILED HYDRAULIC ASSEMBLY

IMPORTANT:
The load bar MUST be positioned at its smallest length.

1. Place power tube end on ground. Press red release button. Push down on bar until completely compressed.
2. Place extension tube end on ground. Press silver snap button. Slide the bar down past snap button until completely shortened.

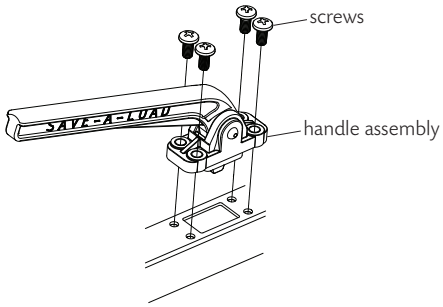
3. Remove two ¼" roll pins on the end of the bar:
   a) Place bar on level surface.
   b) Using hammer and ¼" roll pin punch, drive pins completely out of the bar.



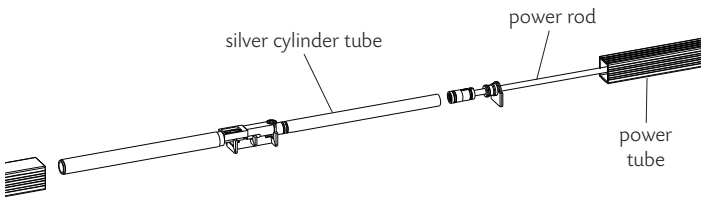
4. Remove red release button:
   a) Use flat head screwdriver to pry up button cover.
   b) Use pliers (or 5/8" socket on ridged button) in a counter-clockwise motion to loosen release button.
   c) Unscrew release button and remove.

NOTE: Release button may be smooth or ridged based on the date of production. A 5/8" socket may be required to loosen.

5. Remove handle:
   a) Use a Phillips screwdriver to remove the four screws on the handle assembly. A flat-head screwdriver may be needed to release the bracket from the bar.



6. Remove hydraulic assembly:
   a) Pull on the power tube end to slide the hydraulic unit out.
   b) Grasp the silver cylinder tube and the square power tube and pull apart. The power rod will come out of the cylinder tube.



NOTE: Do not return any hydraulics that are damaged, i.e. pump body damage, power rod end broken off inside of hydraulic, snap piston missing. Call for RGA# for return of pumps less than 1 year old.

INSTALLING NEW HYDRAULIC ASSEMBLY

1. Insert power 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.

2. Align the end guide and the two pump body legs in a down position.

3. Align rectangular hole on the top of the bar in the same direction as the rectangular hole in the hydraulic assembly and slide back into the main tube the same way it came out.

NOTE: End guide must stay inside the end of the cylinder tube.

REASSEMBLE THE BAR

1. Align rectangular opening of pump body with rectangular opening in the main tube.

2. 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.

3. Drive both 1/4" roll pins back into bar until flush.

NOTE: If you have difficulty driving the pins flush, turn the bar over and use the 1/8" punch to help align holes.

4. Reinstall handle assembly by aligning rectangle area of pump body with rectangle hole in bar and pump assembly. Tighten all 4 screws.

5. 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.

IMPORTANT:
Lubricating the release button cavity prevents freeze-up in cold moist conditions.

6. Insert release button plunger side down and screw on hand tight and snug with pliers or 5/8" socket.

7. Slide button cover onto release button.

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