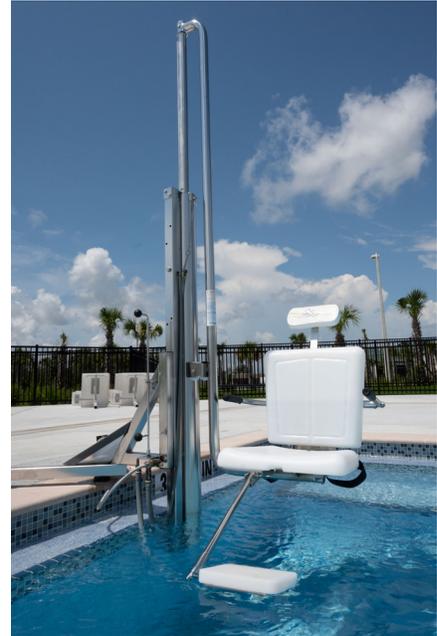




Seal Replacement for Water Powered Lifts

REMOVAL

1. Inspect all hoses and connections for leaks. Repair or replace any that you find.
2. Remove the Lift from the water by removing the Anchor Bolts and tilt the lift toward the deck. Lay the lift on the deck in such a manner that the following steps can be performed safely.
3. Find the Notch in the Cylinder Collar (#13 figure below) and draw a connecting line from the Notch to the closest hex head bolt. You will need this for realignment upon reassembly!



Cylinder Collar #13



Square tube



4. Remove the Seat Pole Assembly #16. from the Piston Rod Assembly

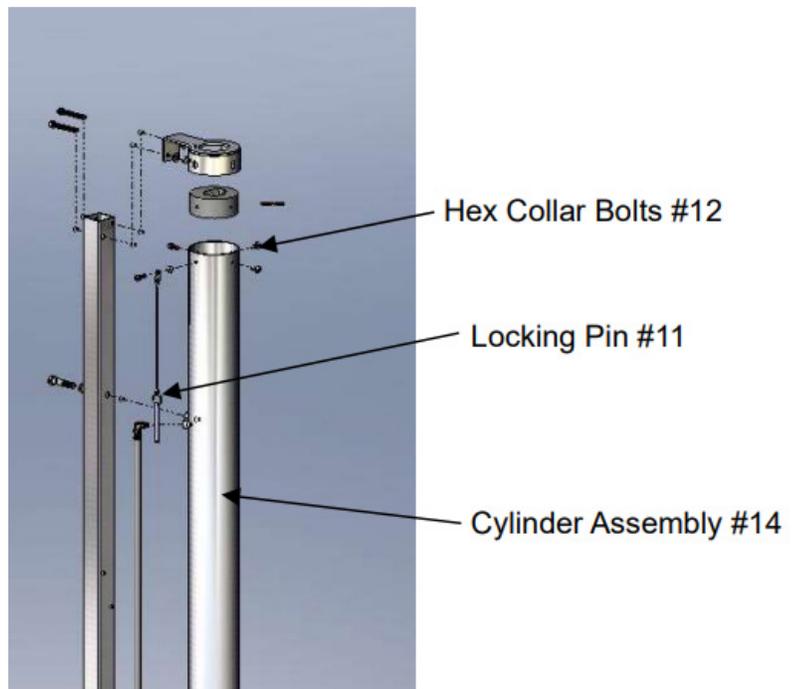
Seat Pole Assembly #16

Piston Rod Assembly



5. Mark the bolt and bolt hole that holds the Locking Pin #11 You will need this for reassembly!!

Remove the 4 Hex Head Collar Bolts #12. and remove the Collar from the Cylinder





6. Inspect inside the Cylinder for any burrs at the 4 Collar Bolt Holes. All burrs and sharp edges must be removed at this time!
7. Remove the Piston Rod Assembly and PVC Spacer from the Cylinder. At this time, it is a good idea to clean the inside of the Cylinder and the Piston Gap with a glass cleaner such as Windex®
8. Remove nut from bottom of Piston #2 and disassemble items #2-#6.

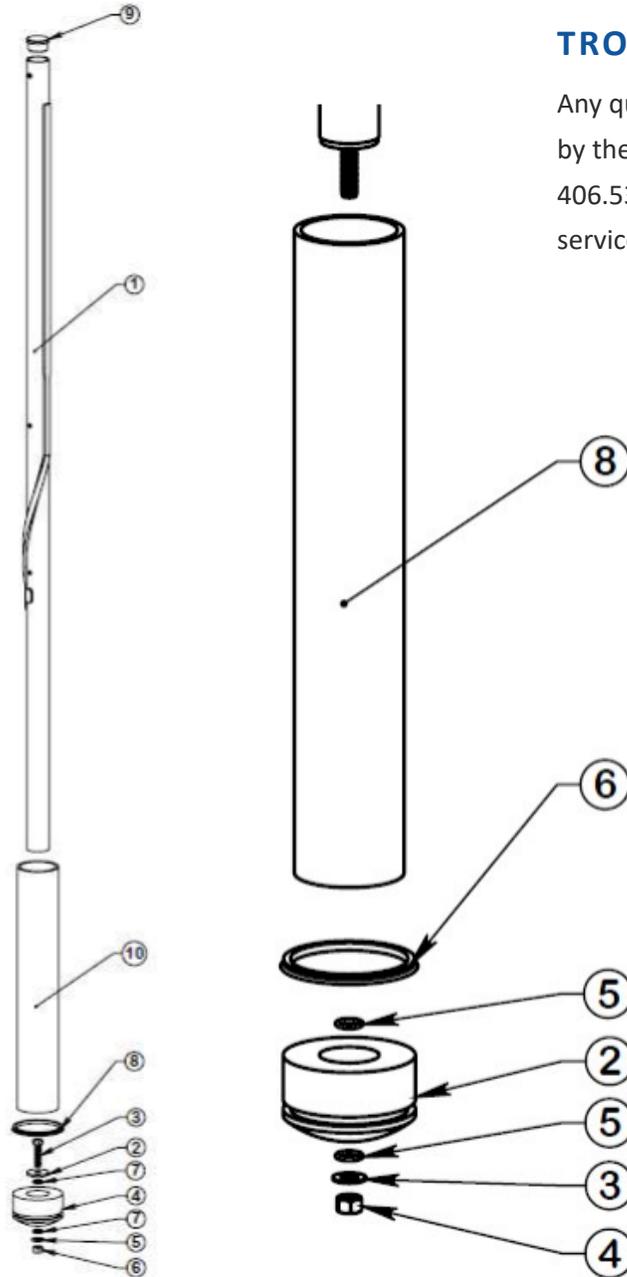
INSTALLATION

1. Install the new Piston Cap Seal #6, with the U-Shape facing toward the top of the Piston Rod Cap #4.
2. Reassemble items #2-#5 as shown on figure page 2.
3. Lubricate the Cylinder opening with Super-lube® to help lubricate the Seal, and gently insert the Piston Rod into the Cylinder, taking care that the Seal does not get folded over.
4. Push the Piston Rod all the way in (Disconnecting the hose at the bottom of the Cylinder will make this much easier)
5. Slide the PVC Spacer #8 over the Piston Rod #2 and into the Cylinder.
6. Slide the Cylinder Collar #13 over the Piston Rod #2 and using the line you drew in Step 3, realign the notch in the Cylinder Cap with the proper Bolt Hole.
7. Replace the 4 Hex Head Bolts, taking care to place the Bolt with the Locking Pin #11 in the correct spot.
8. Reattach the Hose at the Bottom of the Cylinder.
9. Replace the Seat Pole Assembly #16 to the Piston Rod #4.
10. Put the Lift back in the water and secure it to the Deck using the same Anchor Bolts and shims.
11. Make sure the Cylinder is level all the way around!!! If it is not Level, use the Shims, and the adjustable shoes on the Pressure Foot and the Support Column to get the Cylinder Level.

SEAL REPLACEMENT



Run the lift a few times to ensure proper operation. If the Lift chatters or jerks when raising and/or lowering, there is a little bit of air in the Cylinder. This will work itself out, usually after 2 or 3 cycles.



TROUBLESHOOTING:

Any questions you have can be answered by the Spectrum Customer Service at 406.532.6321 or emailing them at service@spectrumproducts.com.