

Cylinder Removal, Installation & Bleeding Air

WARNING:

ALWAYS FOLLOW PROPER PPE AND SAFETY PROCEDURES. USE PROPER LIFTING SUPPORT WHEN HANDLING ASSEMBLIES.

WARNING:

BEFORE LOOSENING OR REMOVING ANY HYDRAULIC HOSE, FITTING, OR CYLINDER, RELIEVE ALL PRESSURE FROM THE SYSTEM. FAILURE TO DO SO CAN CAUSE HIGH-PRESSURE FLUID INJECTION INJURIES.

Tools Required



Wrench
1/2" & 3/4"

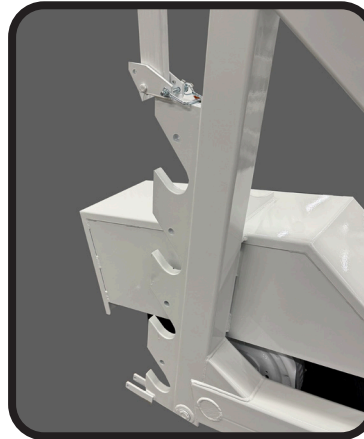


Oil Pan



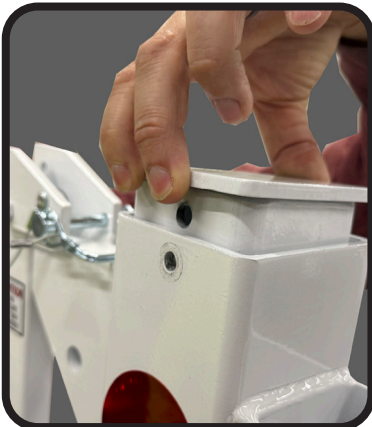
Allen Wrench
3/32"

1



Fully lower slides both slides.

2



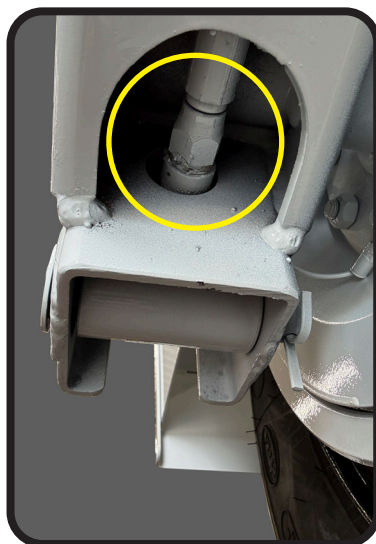
Remove bolt and cap from upright to expose the slide assembly.

3



Remove slide assembly from upright.

4



Using a 3/4" wrench, disconnect hydraulic hose from hose port on bottom of the cylinder. Fluid loss will occur during this step.

5



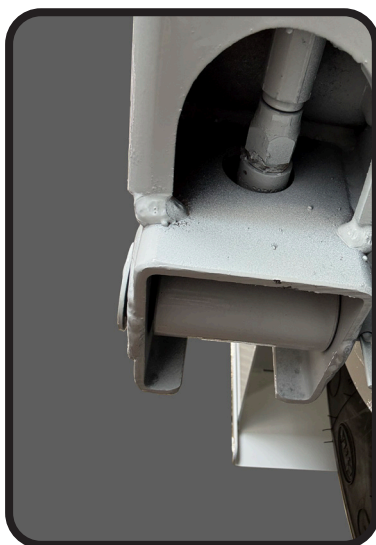
With hose detached from cylinder, remove cotter key and washer from cylinder pin.

6



CAUTION:

CYLINDER WILL DROP WHEN PIN IS REMOVED



Remove cylinder pin from hydraulic cylinder.

With cylinder pin removed, lift hydraulic cylinder out of the upright.

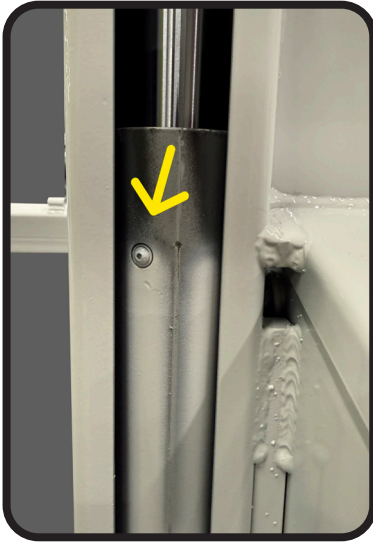
7



Install new hydraulic cylinder into upright. Position cylinder so hose port is facing forward.

Once cylinder is properly aligned, reinstall cylinder pin, washer and cotter key to hold cylinder in place.

8



Crack open the bleeder screw on the back of the cylinder to allow air to escape cylinder during lifting process.

9



Reinstall slide assembly into upright. Cylinder will need to be adjusted (forward / backward / side-to-side) to allow slide to fully lower over cylinder body and rest on the cylinder ram.

10

Apply thread compound to hose threads and reattach to cylinder using a 3/4" wrench. With hose attached, close the release valve on the hand pump and begin lifting both slides. **Note: the new cylinder will rise slower as it must fill with oil.** Keep pumping the slides until both cylinders are fully extended. A combination of oil and air will begin seeping out of bleeder valve.

With slides fully raised, inspect the bleeder valve to ensure a steady flow of oil is coming out. If you notice air bubbles, wait until all air is expelled before tightening bleeder screw.

With all air out of the system, lower the slides by turning the release valve on the hand pump. Use the hand pump and fully raise the slides. Both slides should rise and lower smoothly (no bounce). If the slides bounce, this is an indication that air is still trapped in the system. You will need to repeat the bleeding process again.