

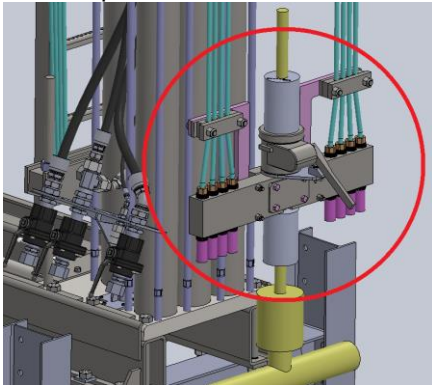
Zedi SilverJack 8000 Best Practice: Removal and Alignment of Lift System for Workovers and Maintenance

For a well workover or for select maintenance services, the Zedi SilverJack 8000 (SJ8000) Lift System must be unclamped from the rod string, moved away from the wellhead and returned to its proper, aligned position after servicing as per the following instructions. Failure to follow these instructions may void warranty.

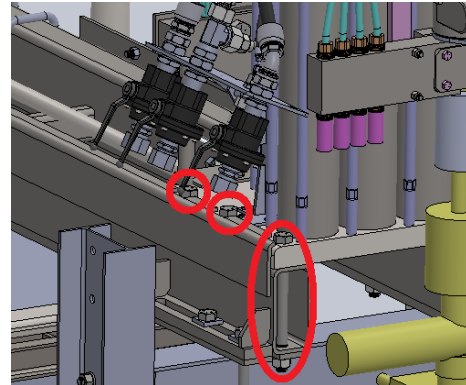
Retraction Screw and Handle

It is best practice to use the Retraction Screw and Handle to crank the Lift System towards the rear of the Support Structure in order to clear the area around the wellhead, as seen in the following figures.

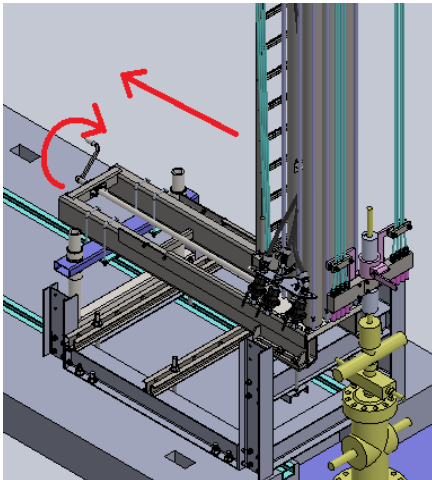
1. Remove the rod clamps, rod rotator, rod rotator plate and carrier bar from the polished rod at the wellhead.



2. Remove the 6 bolts at the Lift System Bottom Manifold. There are 3 bolts on each side of the Bottom Manifold.



3. Crank the Retraction Handle to move the Lift System away from the wellhead.



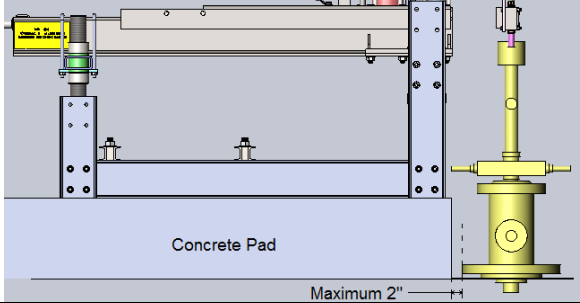
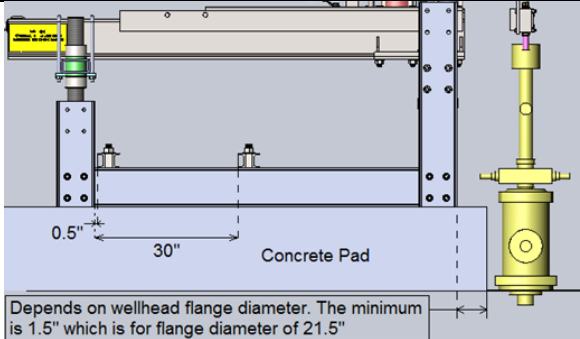
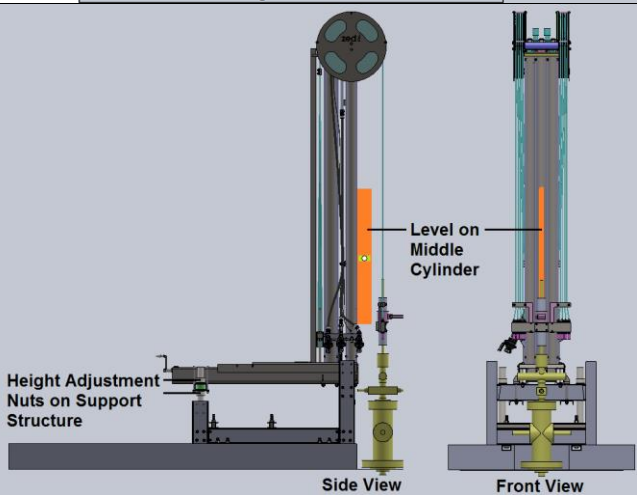
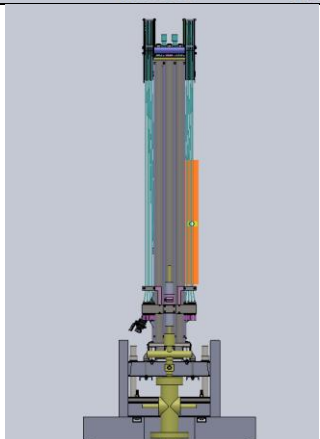
4. Move the Lift System to the middle of the Support Structure and not to the very rear, thus ensuring the Bottom Manifold is secured under the Support Structure lip.



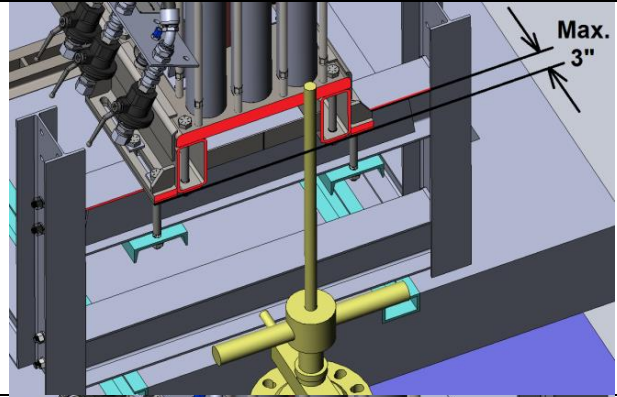
Do not remove the Lift System completely off the Support Structure. Doing so compromises the alignment of the Lift System to the wellhead, which may damage the SJ8000 equipment and void the warranty. If you need to completely remove the Lift System and/or Support Structure from the vicinity of the wellhead, contact your Zedi Field Technician.

Installation Alignment at Wellhead

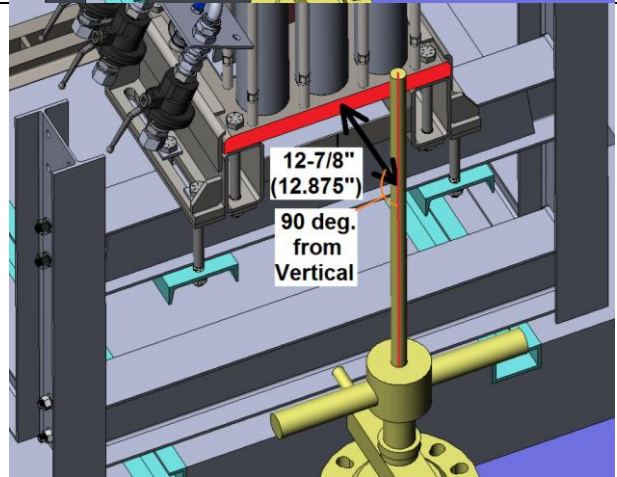
When the workover or maintenance service has been completed, return the Lift System to the wellhead using the Retraction Handle, torque the 6 bolts onto the Bottom Manifold to **350 ft-lb (475 Nm)**, and clamp the rod clamps, Carrier Bar, rod rotator plate, and rod rotator onto the polished rod. Ensure that the Lift System is installed with the following alignment dimensions at the wellhead. For the complete installation procedure and detailed dimensions, contact your Zedi Field Technician for a copy of the SJ8000 Installation Guide.

<p>1. If at a SJ8000 with Concrete Pad, the front of Concrete Pad is 2" or less from the bottom wellhead flange, depending on the size of the wellhead.</p>	
<p>2. If at a SJ8000 with Concrete Pad, the front of Support Structure columns are 1-1/2" or more from the front of Concrete Pad. The Hold Down Cross beams are at 0.5" and 30" from the rear columns of Support Structure.</p>	
<p>3. Place a level (4' to 6' in length) against the front of the middle cylinder to ensure the Lift System is level to the ground from front to back. This also indicates if the Concrete Pad has moved or sank. If the Lift System is not level, turn the Height Adjustment Nuts on the back of the Support Structure to slightly tilt the Lift System so that it is level. If the Height Adjustment Nuts are unable to level the Lift System, remove the Concrete and level the gravel pad or ground underneath.</p>	
<p>4. Place the level (4' to 6' in length) against the left and right sides of the side cylinders to ensure the Lift System is level from side to side. This also indicates if the Concrete Pad has moved or sank. If the Lift System is not level, remove the Concrete and level the gravel pad or ground underneath.</p>	

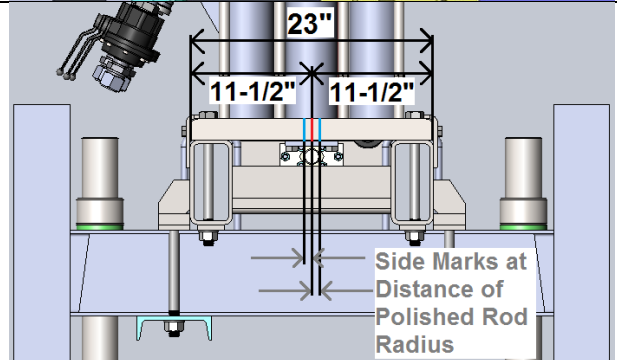
5. Top Assembly and Bottom Manifold are **flush** and have **3" or less** of overhang over the front of Height Adjustment Beam.



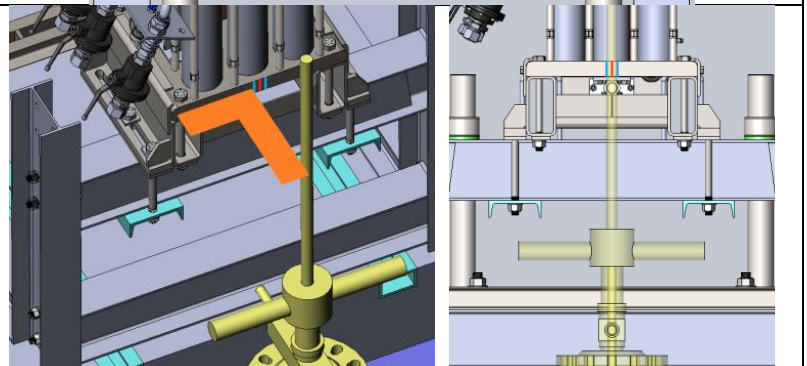
6. The Bottom Manifold is exactly **12-7/8"** from center of the rod string.



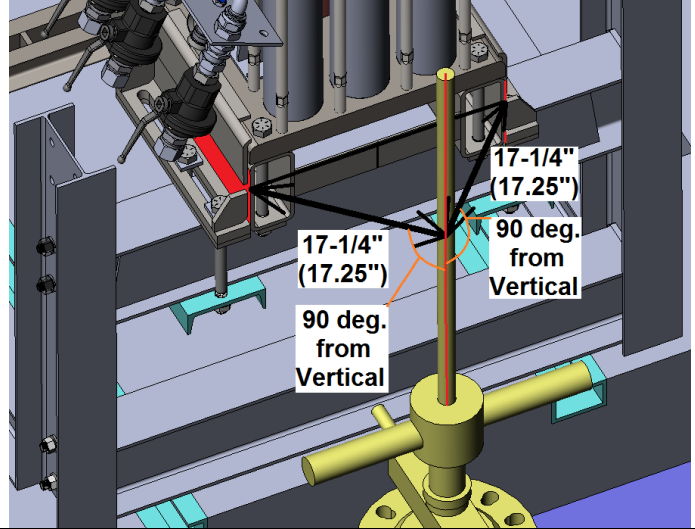
7. Make a vertical mark on the center of the Bottom Manifold. Measure the radius of the polished rod. Make a vertical mark on each side of the center mark at a distance of the polished rod radius.



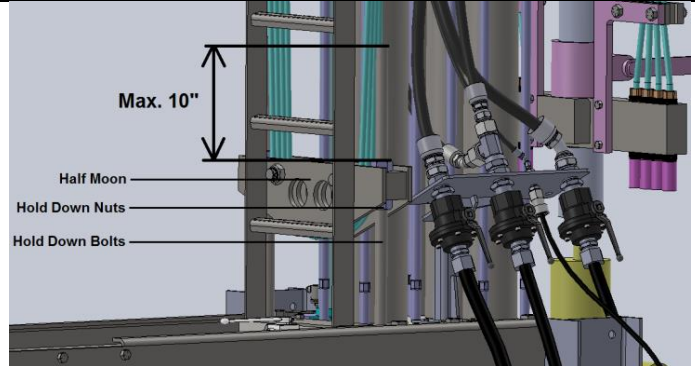
8. Place a framing square against the polished rod and each side mark of the Bottom Manifold. The side marks on the Bottom Manifold should be exactly aligned to the sides of the polished rod. This ensures the Lift System is centered to the polished rod.



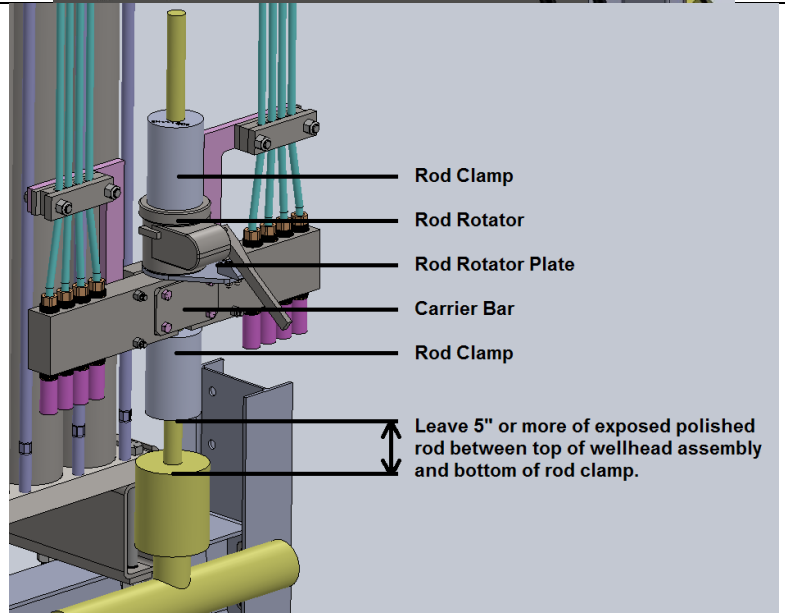
9. The front-outer edges of the Top Assembly's channels are **17-1/4"** from the center of the rod string. This confirms that the Lift System is correctly aligned and centered to the polished rod.



10. Ensure the Half Moon at the back of the Lift System is exactly level and there is **10" or less** between the top of the Hold Down Bolts and the top of the Hold Down Nuts.



11. Ensure the Carrier Bar is level by doing the following. Clamp the Carrier Bar, rod rotator plate, rod rotator and rod clamps onto the polished rod. Slightly upstroke and hold the Lift System so that there is rod string weight on the Carrier Bar. Place a level across the bottom of the Carrier Bar to check if it is level. If level, your SJ8000 is ready for operation. If not level, move the bottom rod clamp to a lower position. Lower the Lift System so that the bottom rod clamp is resting on the wellhead and holding the rod string weight. The cables should now be slack. At the back of the cylinder above the Half Moon, pull and adjust the cables to level the Carrier Bar. When level, raise and hold the Lift System and return the bottom rod clamp so that it is flush against the bottom of the Carrier Bar. At the bottom of the stroke cycle, there should be **5" or more** of space between the bottom rod clamp and the top of the wellhead.



The Lift System, Support Structure and Concrete Pad (if applicable) must be installed and aligned exactly to the above dimensions. Failure to do so may damage the SJ8000 equipment and void warranty.

Before leaving site, run the SJ8000 for a few minutes to ensure proper installation, centering and Carrier Bar clamping. The Carrier Bar Assembly must not hit the wellhead at the bottom of the stroke or the sheaves at the top of the stroke.