



Ensure TD Aligned with WC

The alignment of the top drive with well center can affect the service life of the rotating components. A misaligned top drive will place additional side loads on the quill, lower well control valves, subs, and drill pipe connections. This will result in unscheduled downtime when these components fail due to fatigue.



Figure 1: Quill not Aligned with Well Center

Recommendations:

Ensure that the top drive is properly aligned with well center to avoid excessive wear and fatigue on rotating components.

1. With the top drive at the drill floor and a drill pipe in the slips:
 - a. Use a level to verify the quill is vertical within 1 degree, and
 - b. Measure the end of the quill (or saver sub) to verify that the centerline of the top drive quill is within 1/2 inch of the centerline of the stump.
2. As needed, adjust the top drive horizontal position and angular alignment. Refer to the Canrig product manuals or the Tesco Installation Guide for the proper method.



Model: All	Mar. 4, 2019
Serial #: All	
Alert	

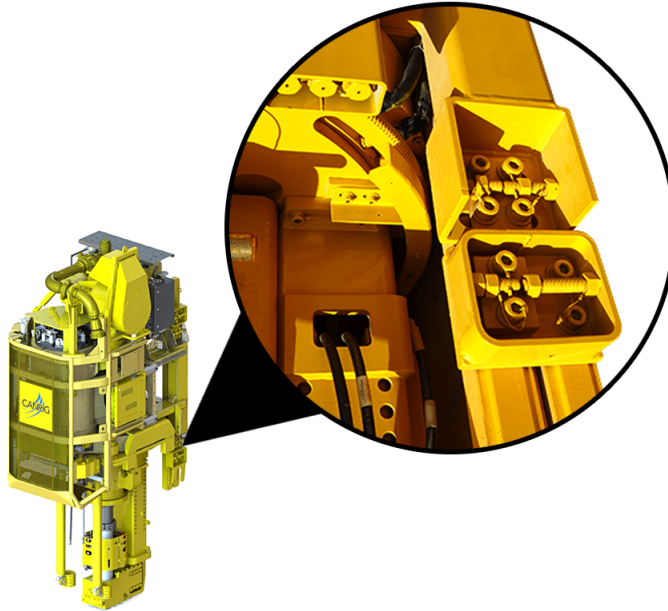


Figure 2: Adjustment Bolts on Guide Runner Assembly for Canrig 1250 Models

Other Items to Check that Affect Level:

The following items may also be contributing to misalignment:

- The angular alignment and position of the guide track (if applicable),
- Check the level of the drill floor and/or rig, under the I-beams at the rotary table.
- The alignment of the mast, which could result in a shift in the position of the crown blocks relative to well center,
- The traveling block, if strung incorrectly may cause the top drive to tilt,
- The well bore itself may cause the drill string to shift the stump to one side of the well bore.

Rigs tend to settle, especially when the ground thaws for Spring. Check rig level frequently depending on ground and weather conditions to ensure that the level of the rig has not changed.