



Model: All Serial #: N/A	Jun. 4, 2020
Product Bulletin # TDS-220 v 1.0	

Link Tilt Operation

Issue

There is a potential for unintended movement of the link tilt cylinders if the "LINK TILT FLOAT" function is engaged when using the Back-up Wrench (BUW) gripper, BUW positioner, or the torque boost.

Background

- The link tilt is used to position the elevators where they are needed.
- The extend/retract feature moves the elevators away from the well center position. Extending the link tilt cylinders will move the elevators to the tripping position (behind the BUW gripper). Retracting the cylinders will move the elevators toward the over-drill position (in front of the BUW gripper).
- The link tilt "FLOAT" feature is used to move the elevators to the well center position.
- When in "FLOAT" the hydraulic pressure in the cylinders is released which allows gravity and any external forces to move the elevators.
- When the "LINK TILT FLOAT" function is engaged, the hydraulic circuit of the link tilt cylinders is open to the common "TANK" line of the top drive hydraulic manifold. Unintended movement of the link tilt cylinders is possible if the back-pressure in the "TANK" line is high enough to overcome the weight supported by the link tilt cylinders.

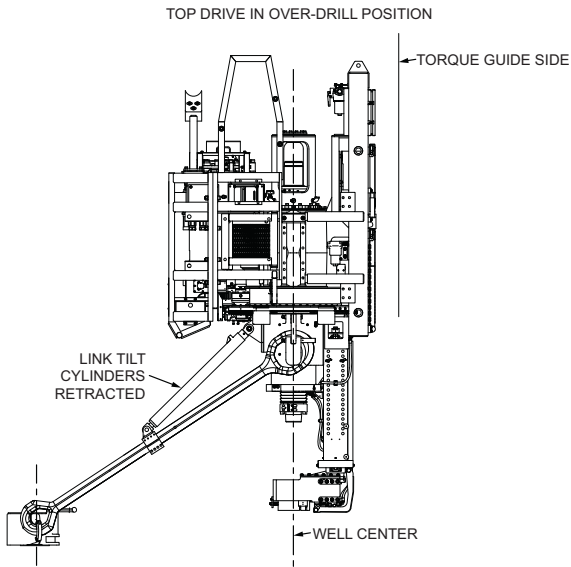


Figure 1: Link Tilt Cylinders Retracted (Over-Drill)

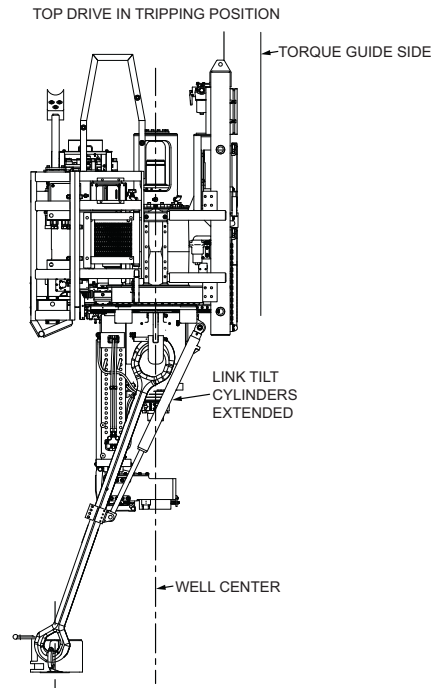


Figure 2: Link Tilt Cylinders Extended (Tripping)

Affected Models

- All Canrig Top drive models

Recommendation

1. Only use the "FLOAT" setting to move the link tilt toward the well center position.
2. Use the "EXTEND" or "RETRACT" to move the elevator to the desired position.
3. To hold the position of the elevator, disengage the "FLOAT" and move the link tilt control to "NEUTRAL" (center) position.



Note: For Canrig supplied console, link tilt joystick should return back to NEUTRAL (center) position when released from the "EXTEND" or "RETRACT" position.



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4. Do not operate the BUW gripper, BUW positioner, or the torque boost when "FLOAT" is engaged.
5. When the top drive is in torque mode, the link tilt should not be in "FLOAT" position.
6. Refer to the top drive product manual Section 3 for pipe handler operating instructions and Section 4 for troubleshooting if link tilt does not perform as intended.

Contact RIGLINE 24/7™ for additional information.