

Model: 2000 HP Single Speed
Commander™ Drawworks
Serial #: All

Product Bulletin # DW-003

## **Motor Encoder Guard Retrofit Kit**

Follow these procedures to install the Canrig motor encoder retrofit kit on the 2000 HP Single Speed Commander<sup>™</sup> Drawworks.

## lssue

Water may ingress the motor encoder causing false readings and shutdowns. Canrig has designed a motor encoder guard retrofit kit to protect the encoder from water exposure.

## Recommendation

Install the motor encoder guard retrofit kit on both traction motors, Canrig Part No. AY21564. Order this kit (two are needed) from RigLine 24/7<sup>™</sup> Support.

## Procedure



**Warning!** Follow proper lock-out/tag-out procedures before performing any work on the drawworks.

- 1. Remove old motor encoder guard, if present.
- Remove existing encoder cable support bracket (DT21050). Retrofit guard design has this bracket integrated.

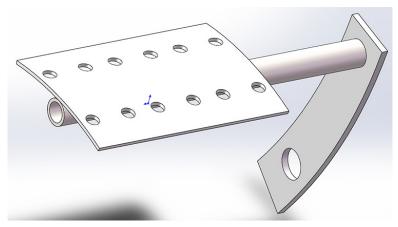


Figure 1: Existing encoder cable support bracket (DT21050), which will be replaced.

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3. Remove existing encoder tether. Retrofit guard design has tether support integrated.

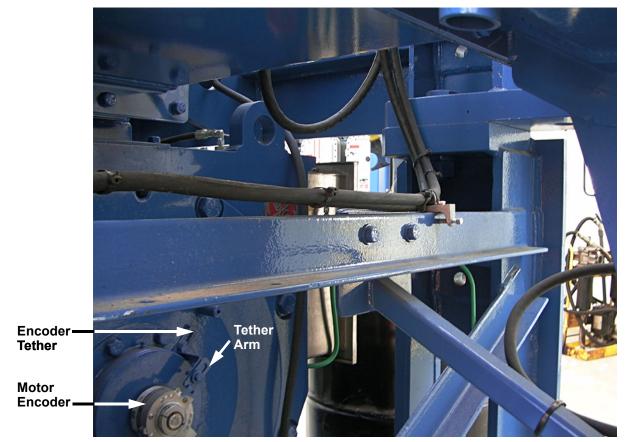


Figure 2: Motor encoder, encoder tether, and tether arm



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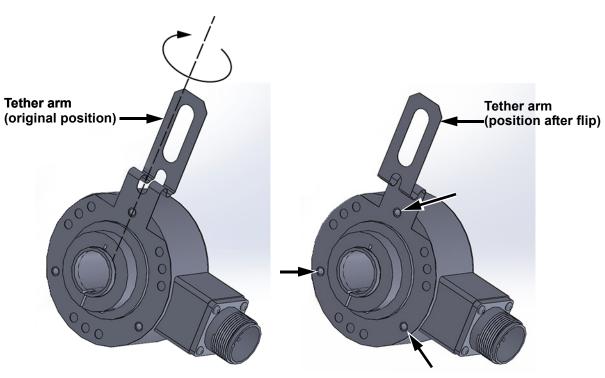


Figure 3: Tether arm, original and after flipping position

4. Re-attach tether arm to motor encoder using three existing bolts.



- 5. Install motor encoder guard retrofit using three hex head bolts and washers.
- 6. Secure tether arm to a bolt running through the hole of the tether support inside the motor encoder guard. The tether arm may need to be straightened.
- 7. Attach the motor encoder cable with zip-ties to the cable support bracket of the motor encoder guard.

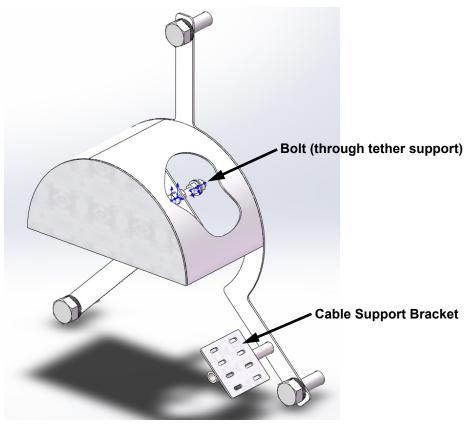


Figure 4: Motor encoder guard retrofit kit

- 8. Repeat steps 1 through 9 on second motor.
- 9. Remove lock-out/tag-out.
- 10. Start up the system and test.