



Model: DW2000 & DW3000

Jun. 9, 2023

Serial #: All

Product Bulletin # DW-018 Rev 1

Brake HPU Remote I/O Crown Saver Status (CSS)

Follow the following procedure to bypass the crown saver status relay on Commander Drawworks that include the Brake HPU Remote I/O enclosure AY21105.

Issue

There are some rigs that have eliminated the crown saver in the top of the mast and only utilize the crown-o-matic on the drawworks drum. When the crown saver was removed the CSS relay coil was wired to always be energized which has the potential for early failure of the relay coil.

Recommendation

When the crown saver status is not installed, install the wiring noted below to remove the CSS relay from service and bypass the CSS relay contacts from the safety brake caliper control circuit. Refer to updated EL10318 DW 3000HP Brake HPU Remote IO R12/S4 Schematics Rev K.

1. Remove the jumper wire in note 5 from TB5-9 to TB5-10. This will remove 24V from the CSS relay.

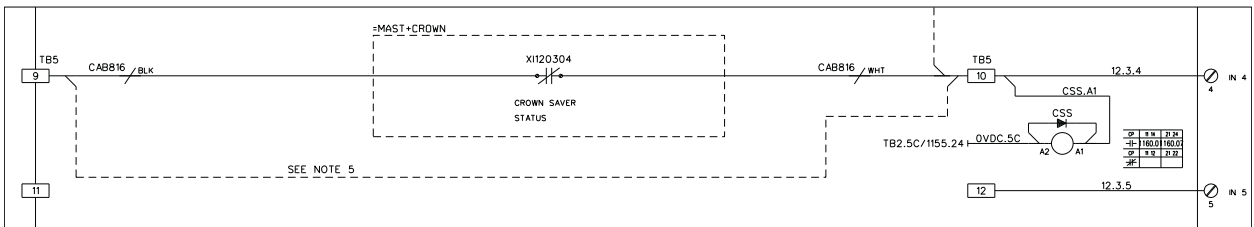


Figure 1: Image EL10318 Rev J Before

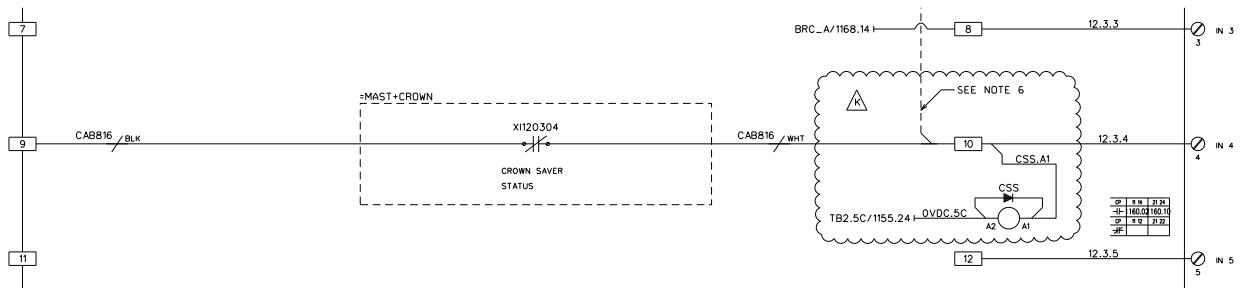


Figure 2: Image EL10318 Rev K After

2. Install a yellow jumper wire bypassing CSS relay output contact to safety brake #1 calipers. Install the wire from terminal 14 on CR12.4.1 to TB6-7.

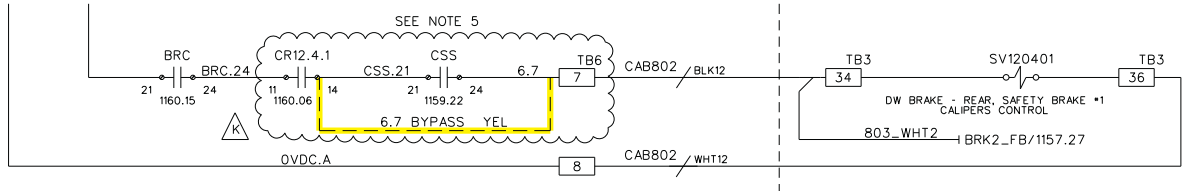


Figure 3: Brake #1 calipers CSS relay

3. Install a yellow jumper wire bypassing CSS relay output contact to safety brake #2 calipers. Install the wire from terminal 14 on CR12.4.0 to TB6-5.

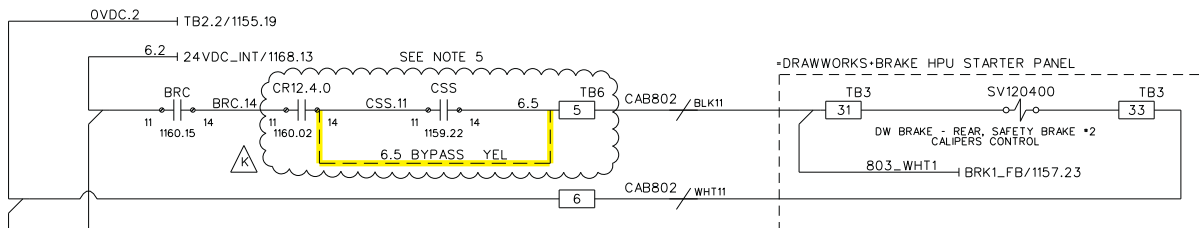


Figure 4: Brake #2 calipers CSS relay

4. Upon completion of the wiring bypass verify that the BRC relay is still functional and the Crown-O-Matic is operational.

Contact RIGLINE 24/7™ if you need additional information.