



Model: Commander™
Drawworks 1500/2000HP
Modular Design
Serial #: See Affected Units List

Feb 8, 2017

Product Bulletin # DW-009

Alert



GB and TC Input Shaft Inspection

The current brake system configuration lacks brake modulation to avoid high load shock during brake set. If brakes are applied too fast, gearbox gears and snap rings can become damaged.

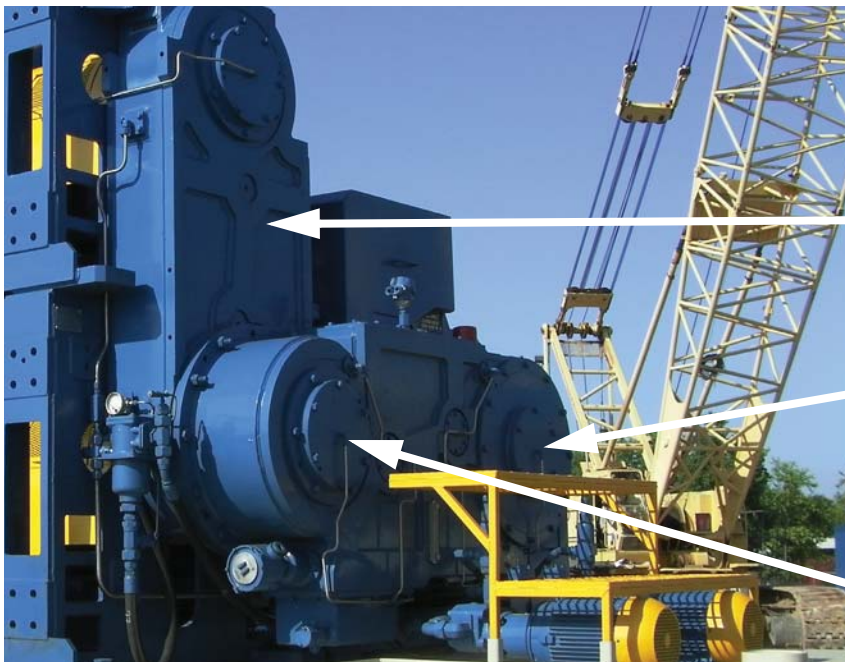
The gearbox input shaft may move axially approximately $\frac{1}{2}$ – $\frac{3}{4}$ inch, shearing off or popping out the retaining rings and causing the transfer case output gear to make contact with the transfer case. In other instances, the transfer case input shaft assembly may move axially approximately $\frac{1}{2}$ inch, shearing off or popping out the retaining rings.

Serial Numbers Affected

This product alert applies to all Canrig Commander™ Drawworks 2000, serial numbers 1 – 73.

Recommendation

Inspect gearbox (GB) and transfer case (TC) snap ring for damage or dislocation. Contact RIGLINE 24/7™ Support if problem found.



Transfer Case

Gearbox Output Shaft

Gearbox Input Shaft

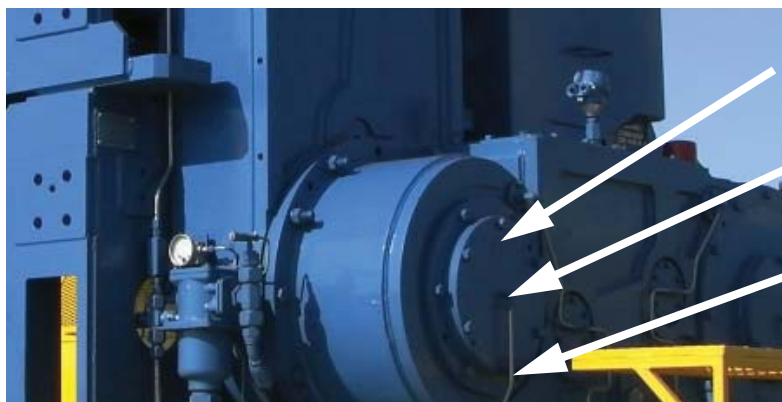
Figure 1: Gearbox and Transfer Case location on Drawworks 2000

Model: Commander™ Drawworks 1500/2000HP Modular Design Serial #: See Affected Units List	Feb 8, 2017
Alert	

Procedure

Gearbox Input Shaft Assembly Inspection

1. Remove lube lines.
2. Open GB input shaft cover.
3. Check snap ring. **If snap ring is damaged or popped out from groove, stop using drawworks and contact RIGLINE 24/7™ Support immediately.**
4. Ensure that TC Output Gear Shaft clamp has been installed. **If not installed, contact RIGLINE 24/7™ Support immediately.**
5. Reinstall cover plate and lube line. Ensure that there are no oil leaks.

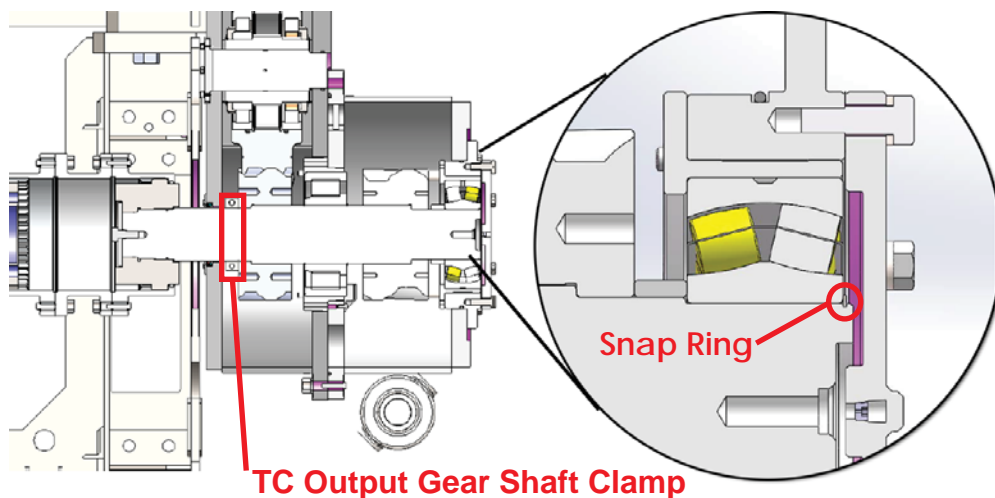


GB Input Shaft Cover

GB Input Shaft

**GB Input Shaft
Lube Line**

Figure 2: Gearbox input shaft assembly



Snap Ring

TC Output Gear Shaft Clamp

Figure 3: GB Input Shaft Schematic with Seal Detail. Snap Ring indicated

Alert

Gearbox Output Shaft Inspection

1. Remove lube lines.
2. Open GB output shaft cover.
3. Check snap ring. **If snap ring is damaged or popped out from groove, stop using drawworks and contact RIGLINE 24/7™ Support immediately.**
4. Reinstall cover plate and lube line. Ensure that there are no oil leaks.

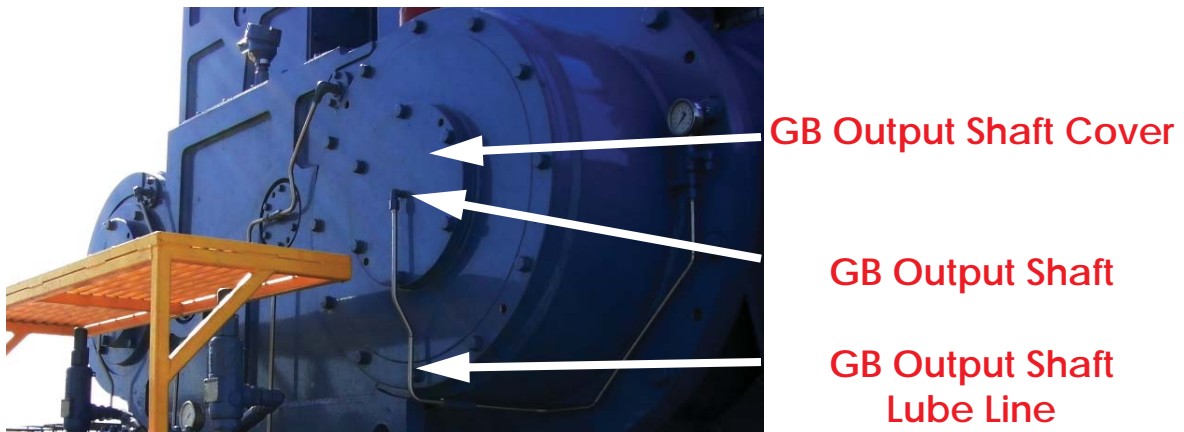


Figure 4: Gearbox Output Shaft

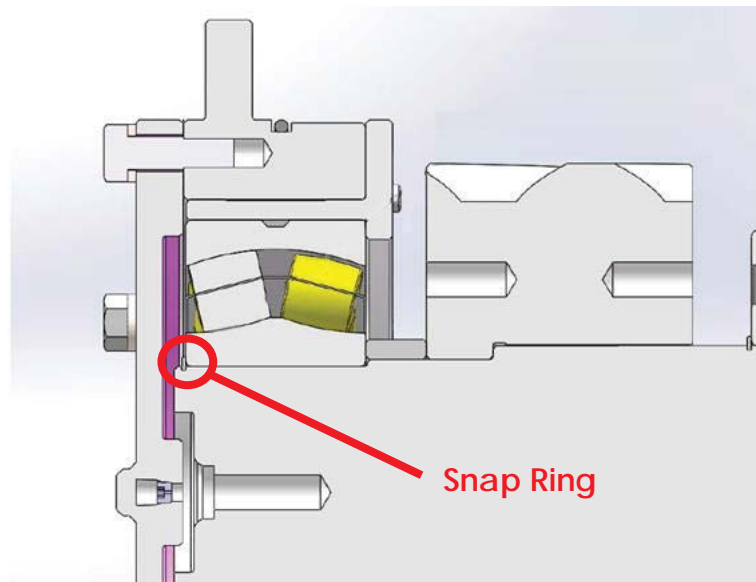


Figure 5: GB Output Shaft Schematic with Seal Detail. Snap Ring indicated.

Transfer Case Input Shaft Assembly Inspection

1. Remove lube lines.
2. Open TC input shaft cover.
3. Check snap ring. **If snap ring is damaged or popped out from groove, stop using drawworks and contact RIGLINE 24/7™ Support immediately.**
4. Reinstall cover plate and lube line. Ensure that there are no oil leaks.

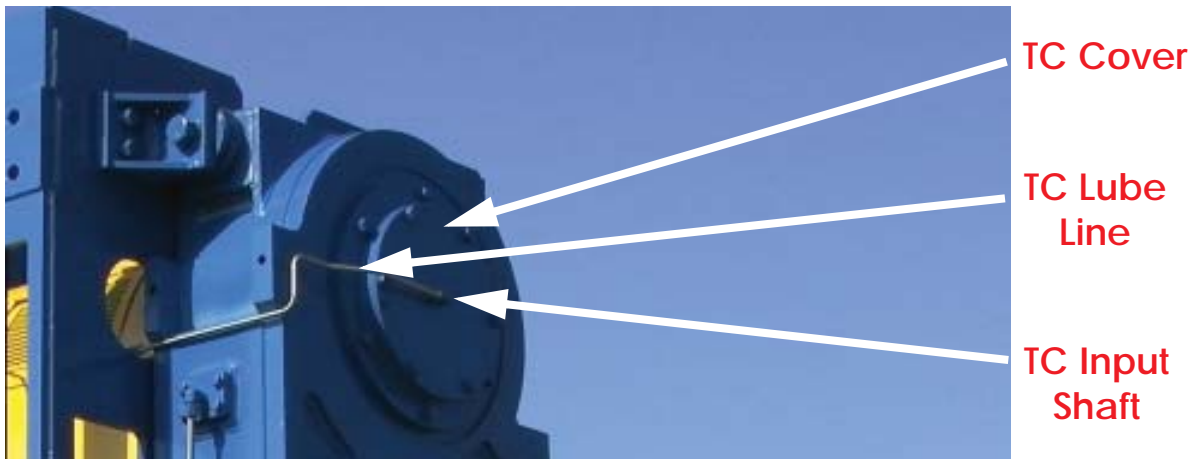


Figure 6: TC Shaft Assembly

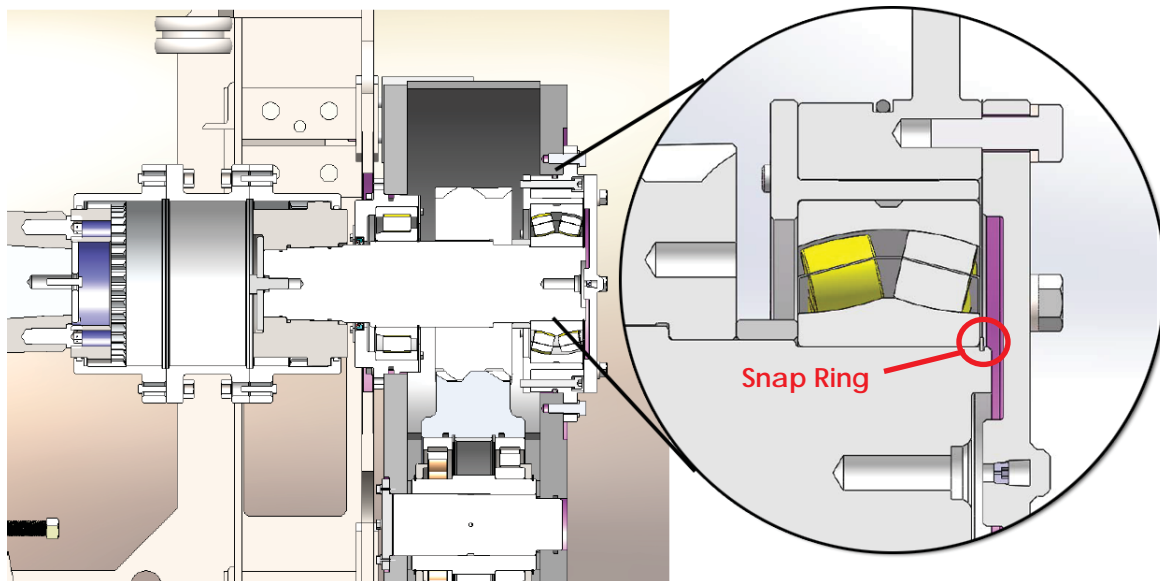


Figure 7: TC Assembly Schematic with Shaft Detail