



## Limit Switch Guard Modification

### Issue

Care should always be taken when using lifting or winch cables around the top drive. There should always be someone monitoring the top drive to ensure nothing gets hooked or snagged. There are two gaps between the limit switch guard and the main guard assembly, located on the 500/650/750 ton top drive guard assemblies. Without proper monitoring, cables could inadvertently get in-between the components and potentially dislodge the limit switch guard and cause it to fall.

### Models Affected

1050E-712, 1165E-712, 1175E-712, 8050AC-712, 1250AC-681, 1275AC-681, and 1275AC-865.

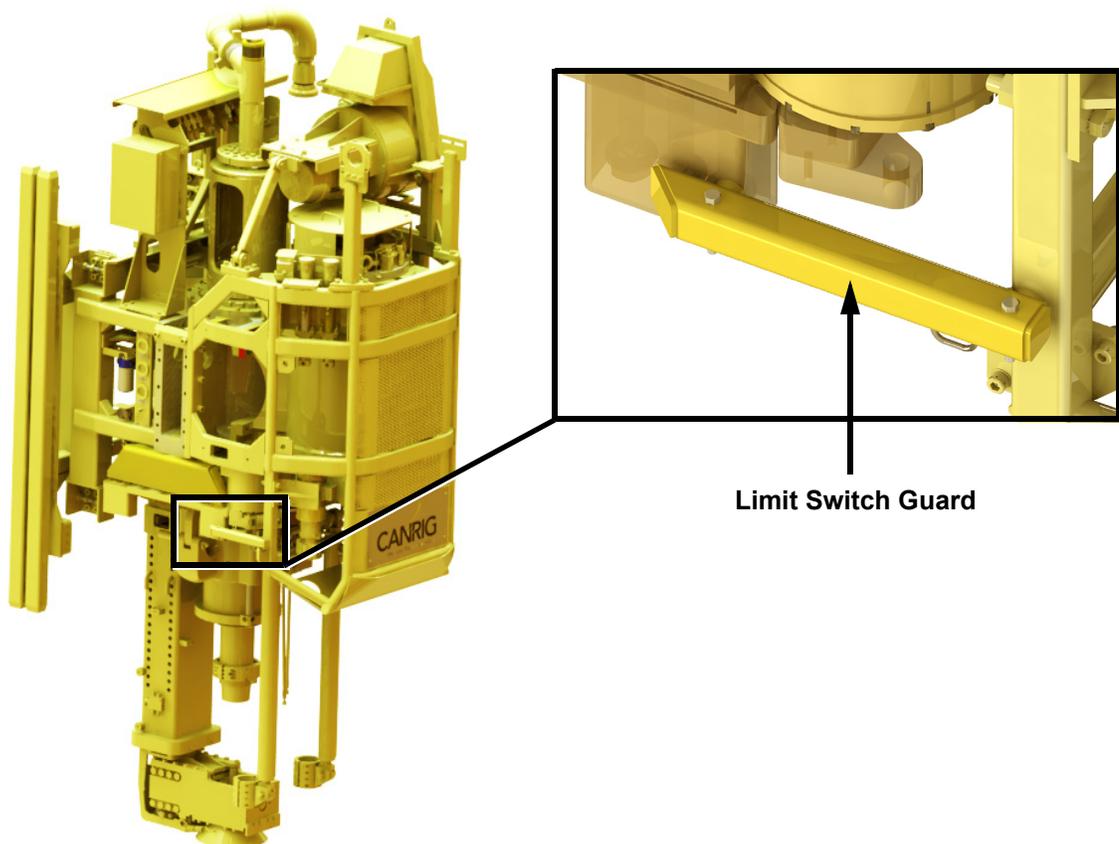


Figure 1: Top Drive Limit Switch Guard Location

**Alert**

**Recommendation**

1. To prevent a cable from getting behind the limit switch guard, ensure care is taken when using wire rope in the area shown in Figure 2.



Figure 2: Limit Switch Guard

2. To minimize the risk of getting a line behind the guard, a plate/bar can be welded to the limit switch guard as shown in Figure 3. Remove limit switch guard before welding on the two plates/bars. Weld the plate/bar as per Canrig specification ENG 704.

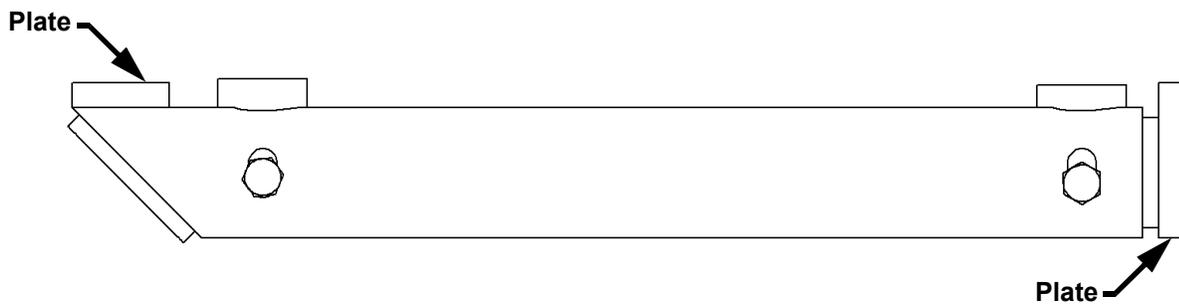


Figure 3: Limit Switch Guard with Plates

3. Ensure the bolt heads are drilled for safety wire. Replace if necessary with 3/8" UNC X 2 3/4" LG Hex Head Cap Screw, Grade 8.
  - Route safety wire from one limit switch guard bolt head to the other one and then route the wire to connect to the existing chain link. See Figure 4 and Figure 5 on page 3.
  - To secure the bolt ends, drill a 1/8" hole at the bolt end and route safety wire from the end of each bolt to the existing chain link. See Figure 5 on page 3.
  - Use 1/16" safety wire and ferrules as per Canrig specification ENG 701.

<b>Alert</b>
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4. Route safety wire around the top drive guard member and through the chain link as shown in Figure 4 and Figure 5.
  - Use 1/8" safety wire and ferrules as per Canrig specification ENG 701.

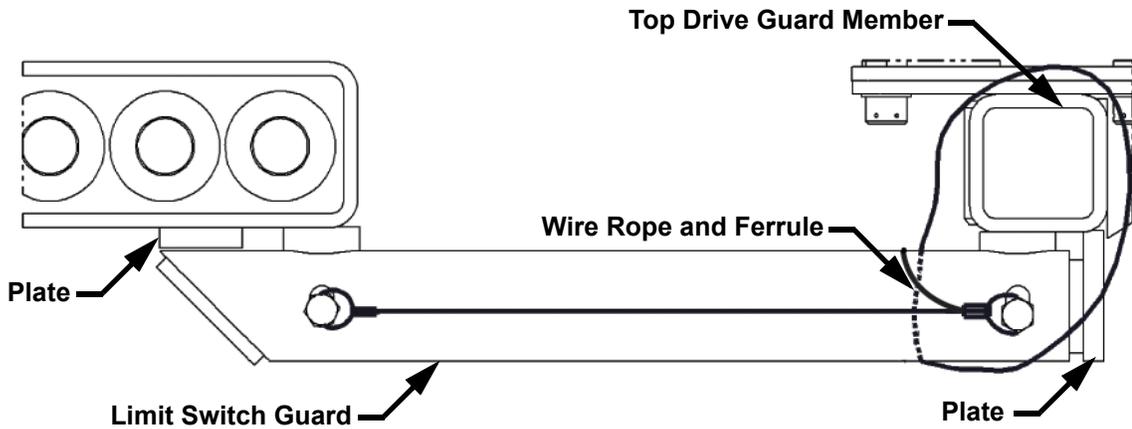


Figure 4: Top View

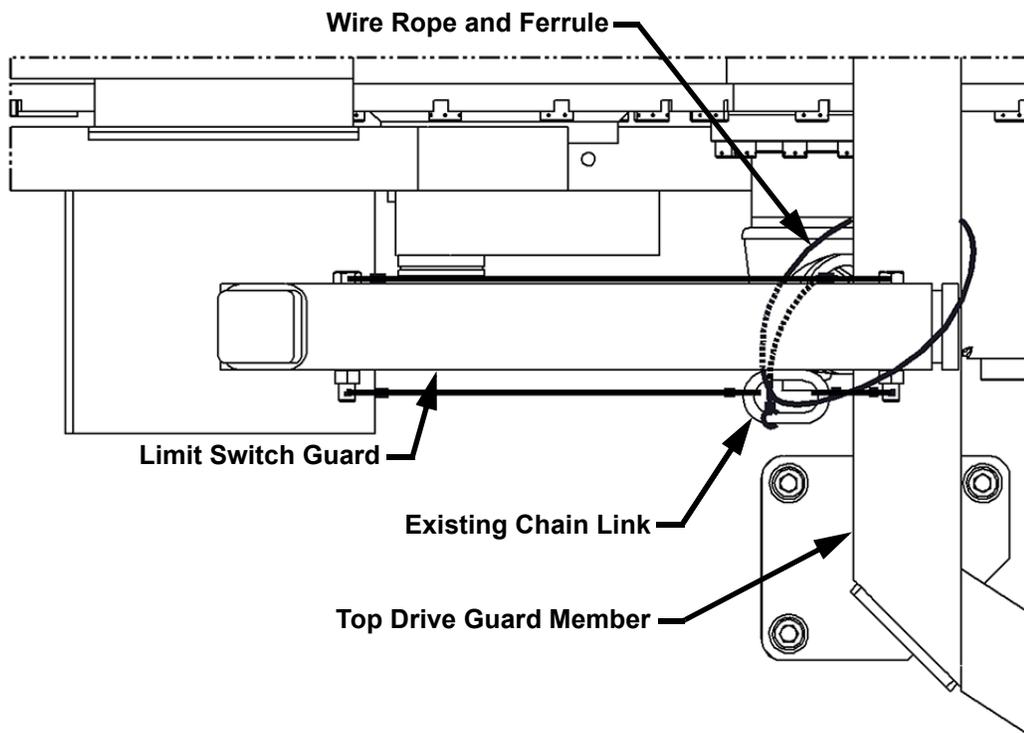


Figure 5: Front View