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| Serial #: All | |
| Product Bulletin # TDS-152 | |

Top Drive Electrical Enclosure Door

If a top drive electrical enclosure door is not closed and secured properly or opens during operation, then impact can occur between other objects and the enclosure door. This could cause the door to disconnect from the enclosure and result in a dropped object.

Work Precautions

- Any time an enclosure door has been opened for maintenance or repair, conduct a post-work survey to ensure the work has been completed properly, the secondary retention devices are in place, and the door has been closed and latched securely.
- Always follow safe operating procedures as instructed in the operations manual.
- Always ensure that the top drive electrical enclosure doors are fully closed and secure before operation.
- If gasket compression is inadequate and/or the door does not close securely, the enclosure may require maintenance.
- Installation of safety wire (secondary retention) will not prevent the door from being dislodged during operation. If the door opens, stop operations immediately and secure the door.
- If the door catches on other equipment, and the safety wire is overstressed, then the safety wire could break.

Recommendations

A modification for secondary retention is available. See the next section for modification installation instructions.

Secondary Retention Installation

Materials Required

Table 1: Materials Required

| Part Number | Qty | Description |
|--------------|-------|--|
| M21-2001-010 | 36 in | WIRE ROPE, 3/16" DIA, STAINLESS STEEL |
| M19-3007-010 | 2 | FERRULE, 3/16" DIA, OVAL, ALUMINUM |
| E10499 | 1 | CABLE TIE, 8" LNG, 18 LB, PLASTIC (or similar small cable tie) |

Installation Procedure

1. Locate all electrical boxes on the top drive. See Figure 1 for examples.

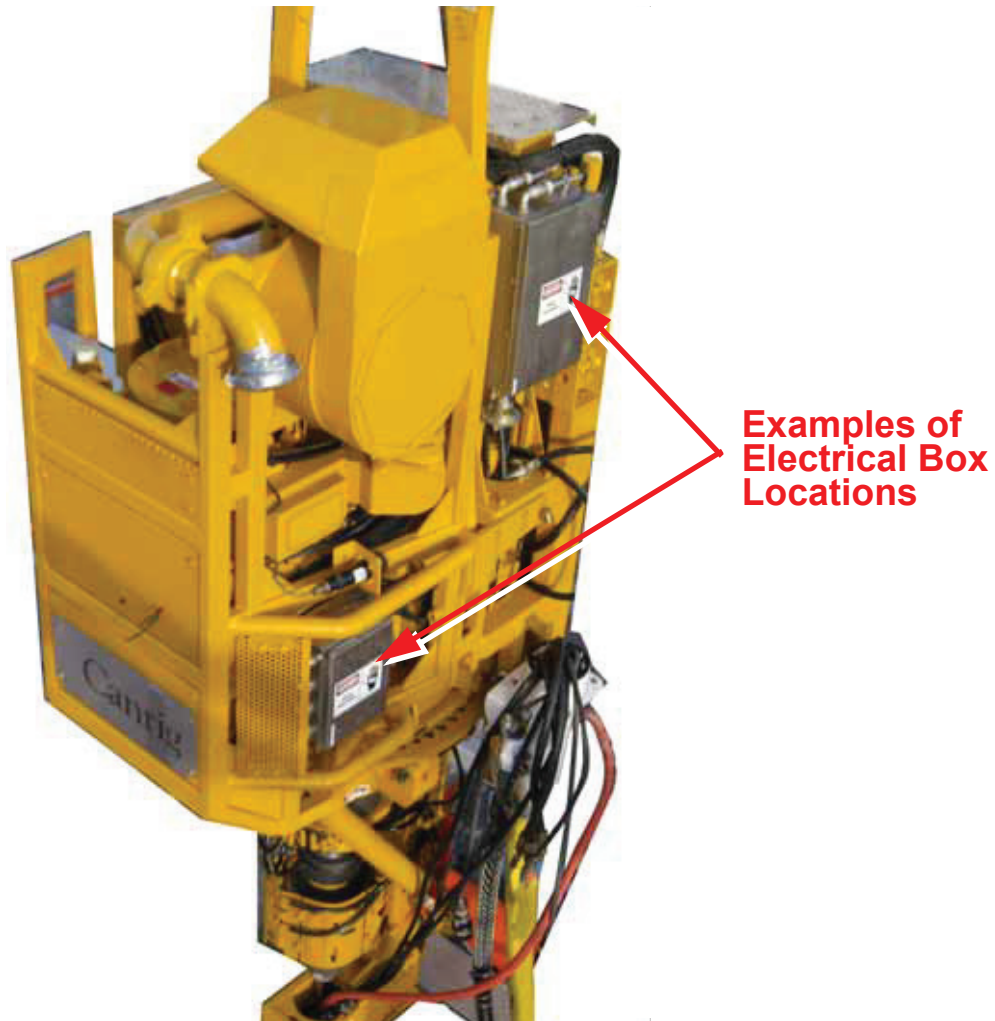


Figure 1: Example electrical box locations.

2. Drill two 1/4" diameter holes in the top lip of the door close to the hinge. See Figure 2. Avoid contact with the door gasket. The holes are to be outside of the sealing area of the enclosure.
3. Loop one end of the 3/16" x 36" wire rope through the new holes, and secure with the 3/16" ferrule. See Figure 2 below and Figure 4 on page 5. Ensure that the wire rope and ferrule do not prevent the door from closing properly.
4. Loop the other end of the 3/16" wire rope around the mount and secure with the 3/16" ferrule. Do not entangle the wire rope with other components.

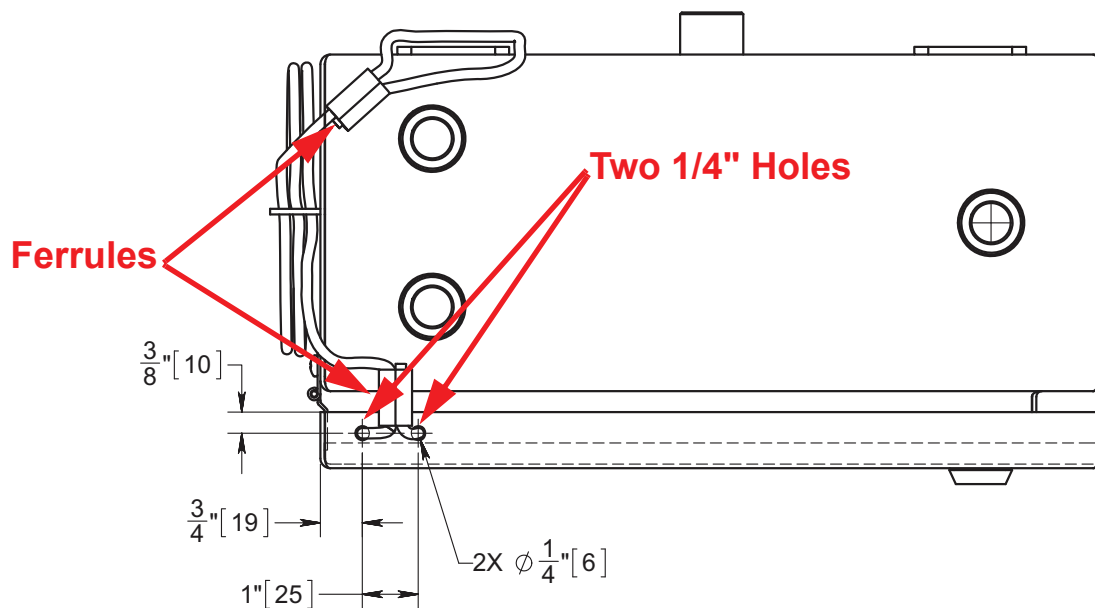
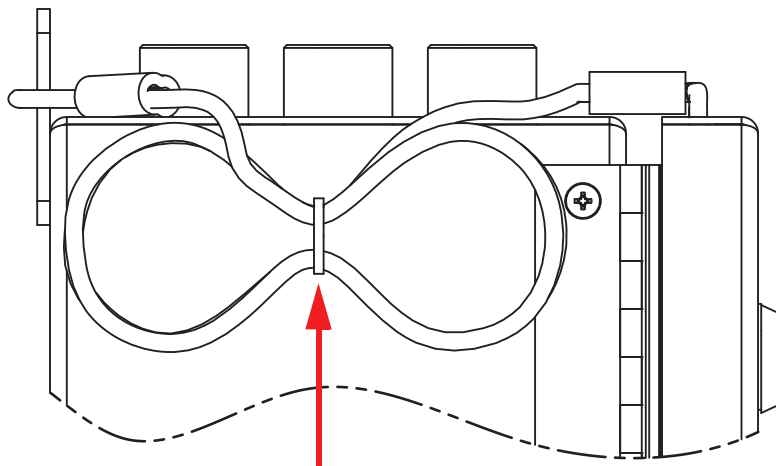


Figure 2: Drill two 1/4" holes (top view).

5. Create a circular coil with the remaining wire rope. Squeeze the middle of the coil together and secure with a plastic cable tie. See Figure 3.
6. Place the coil in a manner that it is not a snag point, does not become entangled with other components, and can uncoil properly if the door detaches from the enclosure. See Figure 4 on page 5 for additional views.



Circular Coil Secured with Plastic Cable Tie

Figure 3: Coil secured.

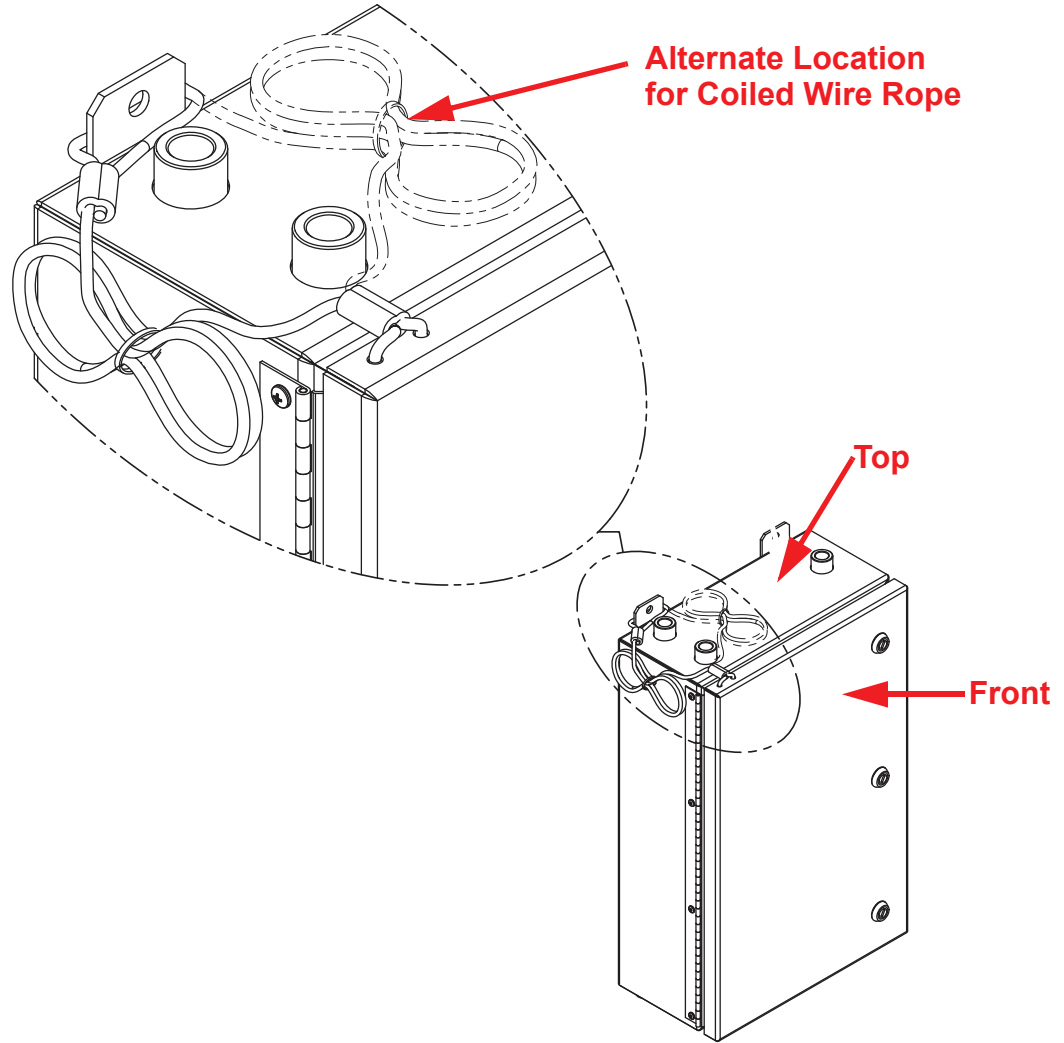


Figure 4: Wire rope routing.