

DS150C - Procedure Broken Length Cable

PROBLEM: Damaged or broken length cable.

Replace length cable using the following procedure:

- 1 Cut old cable at cable drum
- 2 Disconnect damaged length cable from junction box at the boom nose.
- 3 Open cable reel cover and disconnect wiring from connection block. Pull 7 conductor cable out of strain relief.
- 4 Remove cable reel from mounting brackets.
- 5 Remove damaged length cable, which is mounted to the slip rings in the cable reel, from slip ring connection. Refer to Drawing 3 & 5 in Section 4 - Drawings
- 6 On the backside of the cable reel, open the strain relief attached to the axle in the center of the drum. Pull existing length cable out of the cable reel.
- 7 Pull new length cable through the hole, pipe and strain relief and push it through the axle of the reeling drum. Tighten strain relief to ensure sealing.
- 8 Reconnect the length cable to the slip ring. Refer to Drawing 3 & 5 in Section 4 - Drawings.
- 9 Remount cable reel to the boom.
- 10 Turn reeling drum clockwise to spool the new cable neatly onto the drum.
- 11 Set preload on cable reel by turning the drum counter-clockwise 5 to 8 turns.
- 12 Wrap the new length cable around the boom tip anchor pin (4 or 5 wraps) and secure with tie wraps. Leave enough length cable to connect into the boom tip junction box.
- 13 Connect the length cable into the boom tip junction box. Refer to Drawing 5 in Section 4 - Drawings.
- 14 Reset length potentiometer in length angle transducer (screw is located in center of white gear); with boom fully retracted, turn potentiometer carefully counter-clockwise until it stops. Recheck length and angle display. Refer to Procedure 3 in Section 4 – Procedure.