

IQ plus® 510/710 Digital Weight Indicators

Cable Grounding Instructions

Use the following procedure to ground the load cell cable shield wire to the indicator backplate. **Do not attach shield wire to the load cell connector on the CPU board!**

1. Disconnect indicator from power source.
2. Place indicator face-down on an antistatic work mat. Remove screws that hold the backplate to the enclosure body.

Warning Disconnect power before removing indicator backplate.

3. Loosen all in-use cord grips then lift the backplate away from the enclosure and set it aside.

Caution Use a wrist strap to ground yourself and protect components from electrostatic discharge (ESD) when working inside the indicator enclosure.

4. Use the lockwashers, clamps, and kep nuts provided in the parts kit to install grounding clamp on the backplate stud. Do not tighten grounding clamp nut.
5. Route the load cell cable through cord grip and grounding clamp to determine cable length required to reach connector. Shield wire will be grounded to the backplate by contact between the wire and the grounding clamp.
6. Cut the shield wire just past the grounding clamp. Ensure shield wire makes good contact with grounding clamp. Tighten grounding clamp nut.
7. Finish installation using cable mounts and ties to secure cables inside of indicator enclosure.

8. Position backplate over the enclosure and reinstall the backplate screws. Use the torque pattern shown in Figure 2 to prevent distorting the backplate gasket. Torque backplate screws to 10 in-lb (1.13 N-m).

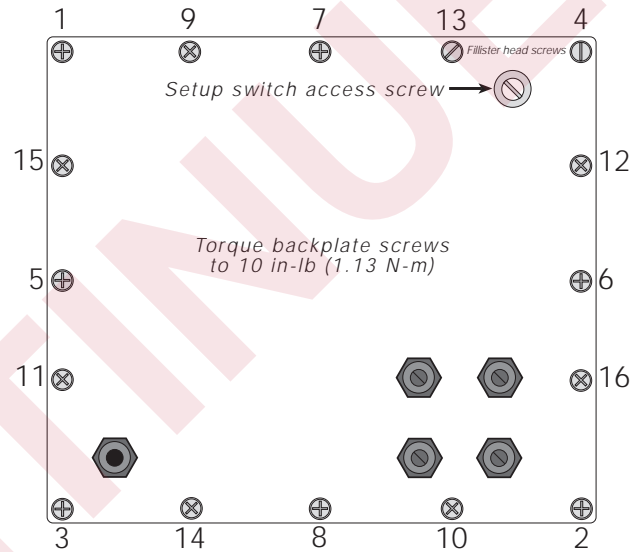


Figure 2. Torque Pattern for Backplate Screws

9. Ensure no excess cable is left inside the enclosure and tighten cord grips.
10. Reconnect power to the indicator.
11. Recalibrate and reconfigure as described in the *Installation Manual* for your indicator.

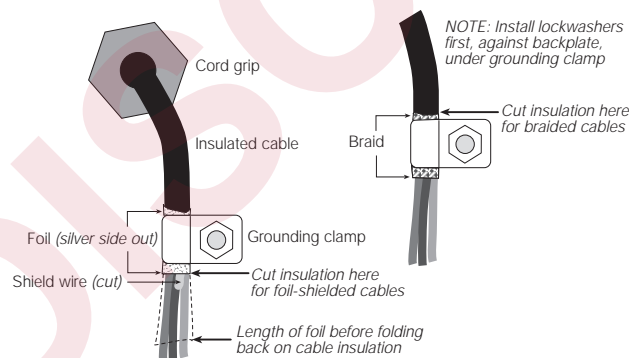


Figure 1. Grounding Clamp Attachment for Foil-Shielded and Braided Cabling