

Battery and Barrier Connector Assembly

This document provides barrier connector assembly replacement (PN 213705) instructions for the IS6V2 battery used with the 882IS/882IS Plus Intrinsically Safe Digital Weight Indicator. Before performing the procedure, read all instructions and cautionary information on the IS6V2 battery and the 882IS.



Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Warranty information is available at www.ricelake.com/warranties



IMPORTANT: Replace the barrier connector assembly only in a non-classified area.

Barrier Replacement

1. Remove the six Phillips screws on the top of the barrier cover.

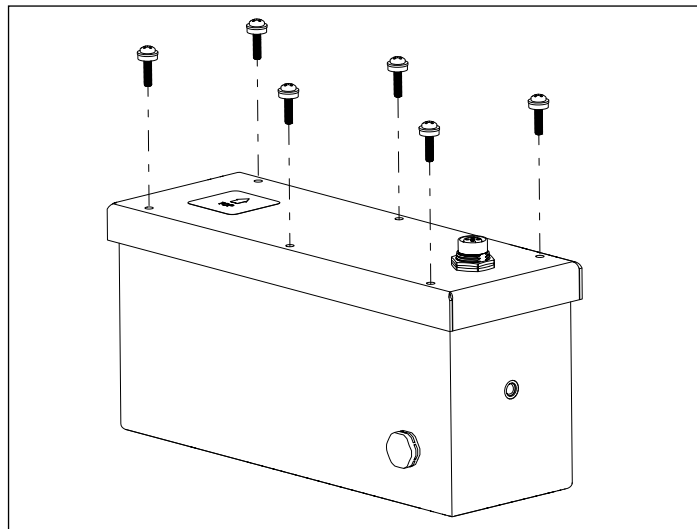


Figure 1. Screw Removal

2. Remove the barrier cover.
3. Remove the foam spacer on top of the bottom part of the barrier assembly.

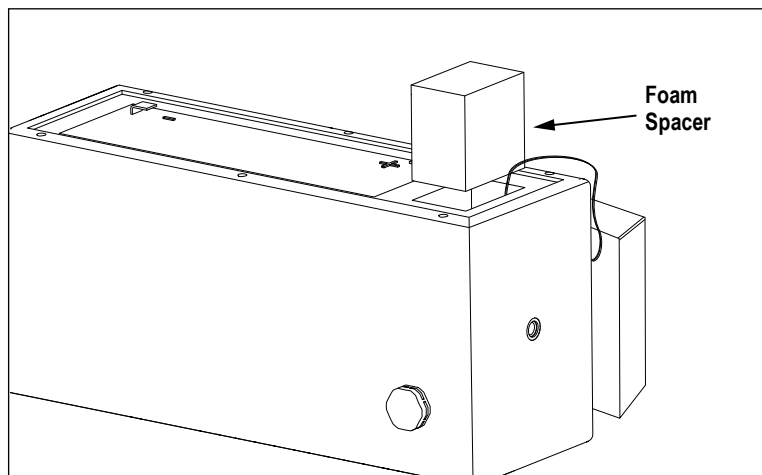


Figure 2. Foam Spacer Removal

4. Disconnect the FASTON terminal connectors from the battery by gently pulling back on the housings.



IMPORTANT: Do not pull the wires.

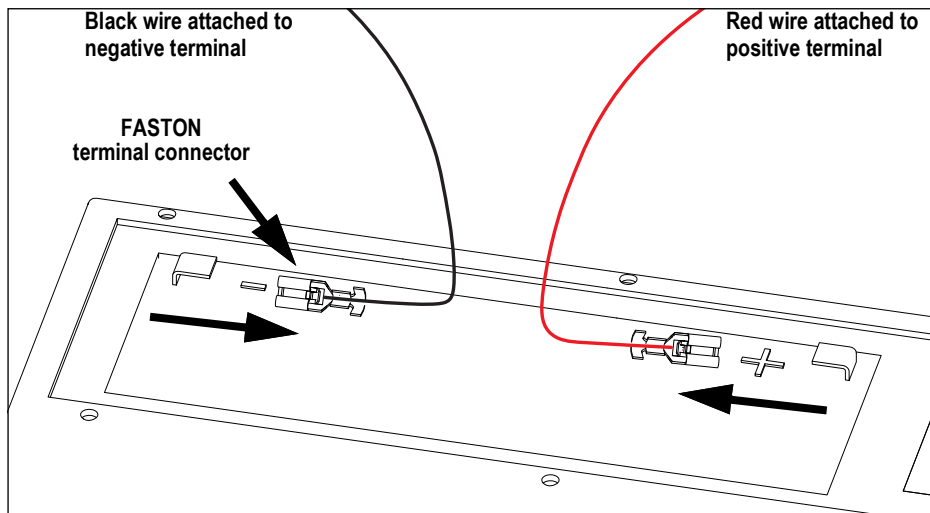


Figure 3. FASTON Terminals Removal

5. Using a 3/4 inch wrench, remove the nut connecting the female connector of the barrier assembly to the top of the barrier cover.

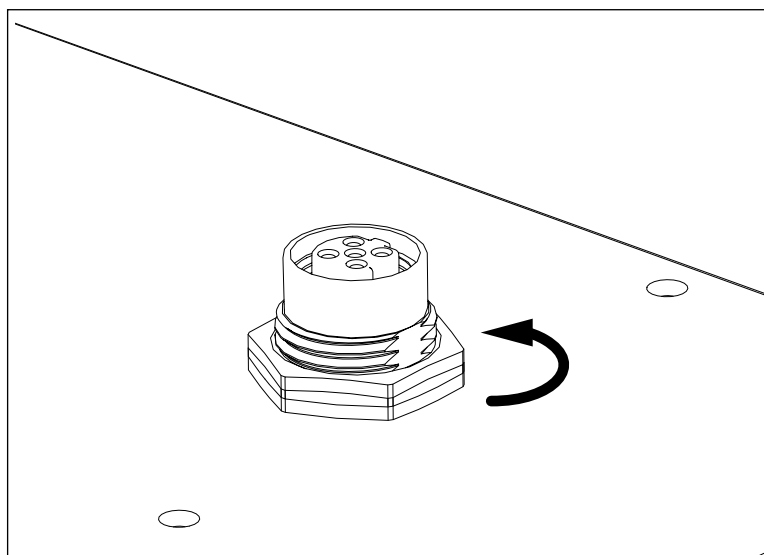


Figure 4. Female Connector Removal

6. Remove the existing barrier assembly.

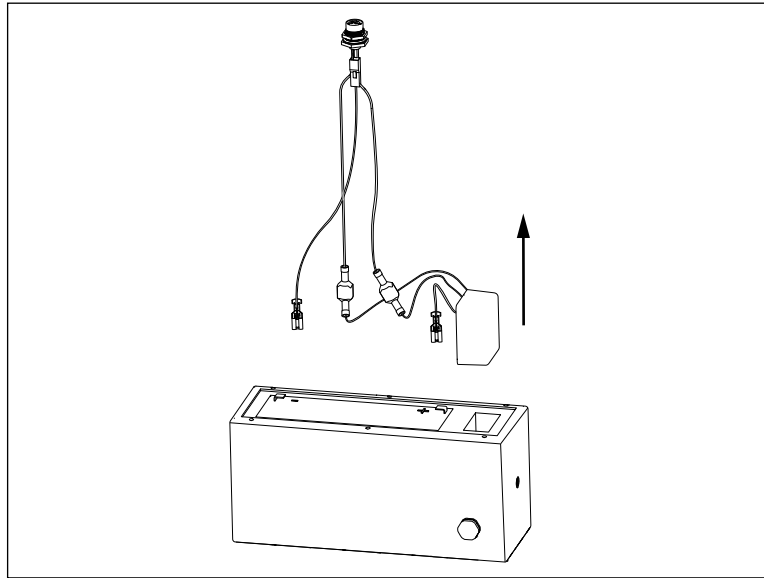


Figure 5. Barrier Assembly Removal

7. Insert the replacement barrier assembly.
8. Install the female connector of the barrier assembly from the bottom of the barrier cover.

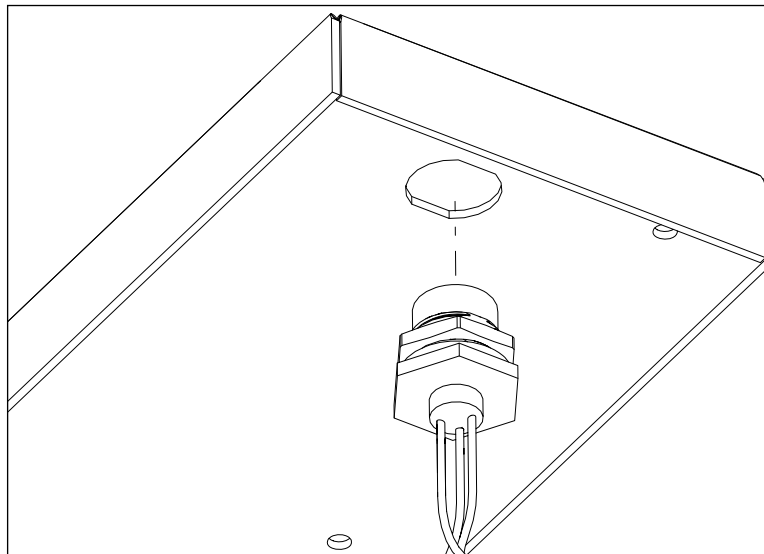


Figure 6. Connector Installation



NOTE: When inserting the female connector of the barrier assembly, ensure the shape of the connector aligns with the cover hole.

9. Secure the female connector to top of cover with nut that was removed in [Step 5](#).
10. Torque the nut to 55 in-lb (6.21 Nm).
11. Connect the **BLACK** FASTON terminal connector of the barrier assembly to the negative terminal on the battery.
12. Connect the **RED** FASTON terminal connector of the barrier assembly to the positive terminal on the battery.
13. Position the connector wires in barrier opening.
14. Place the foam spacer on top of the bottom part of the barrier assembly.

15. Install the top of the barrier cover to the enclosure using the six 3.5 X 16 mm screws that were removed in [Step 1](#).

 **IMPORTANT:** Ensure there are no wires pinched between the cover and the enclosure.

16. Torque the screws to 10 in-lb (1.13 Nm) in order using the numbering pattern shown in [Figure 7](#).

17. Torque the screws a second time to 10 in-lb (1.13 Nm) in order using the numbering pattern shown in [Figure 7](#).

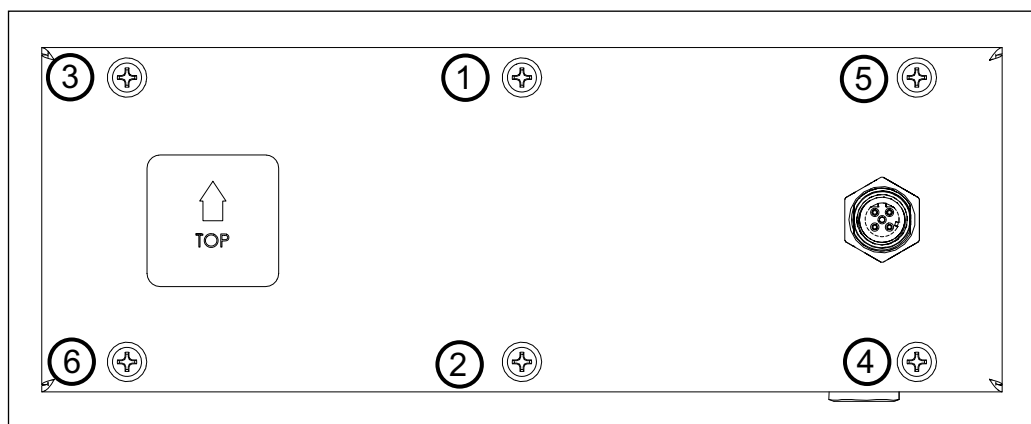



Figure 7. Torque Pattern

18. Test the battery.

 **NOTE:** To test the battery, follow the 882IS Battery Tester Instructions PN 207786.



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