

### Required Tools

- ▶ Anti-static wrist strap
- ▶ Appropriate tools for connecting wires to test station
- ▶ Socket set/adjustable wrench
- ▶ Voltmeter
- ▶ Magnet
- ▶ Smartphone or tablet (with iOS 8.1 or later) or laptop (with Microsoft® Windows®)
- ▶ Bullhorn® Tools Mobile or Bullhorn® Tools (plus USB Bluetooth dongle)

### Optional Tools

- ▶ Small slotted screwdriver
- ▶ Wire stripper and wire cutter
- ▶ Amp clamp

### Installing the Equipment

The following procedures are general steps for a typical installation. For specific instructions, see the *RM4200 Series User Guide* (part no. 122206-000) available from your website account under the **Help** menu.

**WARNING:** To prevent electrostatic discharge (ESD) damage when handling electronic equipment, always wear an anti static wrist strap attached to an unpainted, grounded metal object. Ensure the wrist strap has maximum contact with bare skin.

**WARNING:** To keep exposure of radio frequency energy below limits mandated for permissive exposure, do not operate the RM4210 within 20 cm of any part of the body.

**WARNING:** Before beginning any wiring to the RM4210, disconnect all equipment from hazardous voltages.

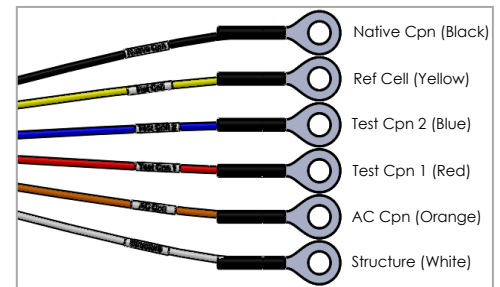
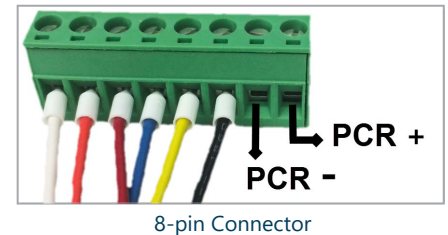


**NOTE:** For safety precautions for wiring power supply and unit inputs, see *RM4200 Series User Guide*.

# 1

### Make Connections to Test Station

- 1 **Optional Installation:** Install a selectable current transducer onto the PCR; then connect transducer wires to the open screw terminals on the 8-pin connector.
- 2 Connect remaining wire harness leads to their respective test points on the test station.
  - a **Triton coupon test stations** - match color-coded wires to their connection on the test head. Disconnect wire from **Switch**.
  - b **Other test stations** - **DO NOT** connect orange **AC Cpn** wire unless using separate AC coupon. Blue and red **Test Cpn** leads must be on same connection.



Wiring Harness

# 2

### Install Adapter and Support Tether

- 1 Slip **RM4210** test point adapter over and onto the test station. Rotate adapter clockwise until it is firmly secured on the test station.
 

**NOTE:** The adapter is designed for **3" diameter** test stations.
- 2 Drop the tethering cord attached to the **RM4210** unit down into the test station. Ensure that the tether end catches across the diameter of the test station. The tether will be used to support the RM4210 (with or without the adapter) if the test head needs to be accessed.

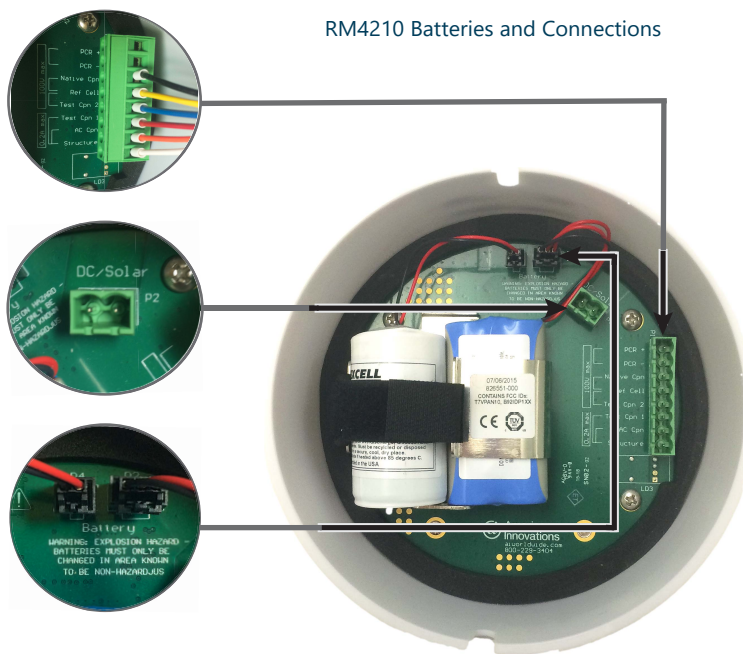


Adapter, RM4210, and Tether

# 3 Install Batteries and Connect Wires

- 1 Install the two batteries into bracket on the **RM4210**, as shown. Secure with strap. Note position of each battery.
- 2 Connect the 8-pin terminal to the **RM4210**.
- 3 **OPTIONAL** - Connect a solar panel or DC input to the **DC/Solar** connector on the **RM4210**.
- 4 Connect the two battery connectors to the battery connections on the **RM4210**. The unit will make a clicking sound, which indicates that the unit has powered on.

**NOTE:** The **RM4210**'s connector can be wired regardless of polarity; it does not have a positive-negative configuration.



RM4210 Batteries and Connections

# 4 Secure RM4210 Unit


- 1 Place **RM4210** unit onto the adapter by lining up the Bullhorn label with the blue circle on the adapter.
- 2 Secure the unit by tightening the screws.

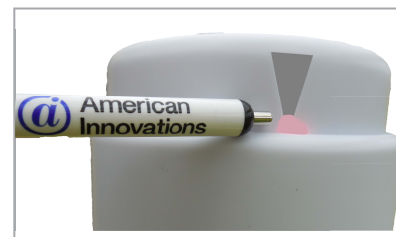


RM4210 Installed on Adapter

# 5 Configure RM4210 for Service

**RM4210** units can be configured using either Bullhorn® Tools Mobile (available from the Apple® App Store) **OR** Bullhorn® Tools (available from **Bullhorn Web > Help > Downloads**). If using Bullhorn Tools to configure, you will also need the USB Bluetooth dongle to communicate with the unit. The following provides general steps to configure the **RM4210** for service using the mobile app. For instructions on using Bullhorn Tools, refer to the Bullhorn Tools **Help** menu or the *RM4200 Series User Guide* (**Bullhorn Web > Help > Documents**).

- 1 Swipe a magnet across the access point on the **RM4210** unit dome. The indicator light will blink on/off, which indicates that the unit is on and looking to pair.
- 2 Ensure that Bluetooth has been enabled on your device.
- 3 Start **Bullhorn Tools Mobile**.
- 4 Tap the name of your unit on the **Search** screen.
- 5 Tap Refresh to update all enabled measurements.
- 6 Tap  and then **Send a Test Message** to verify installation measurements and to update the satellite signal strength reading (labeled **Radio SNR**). Optimum level for **Radio SNR** is 40 dB or greater.
- 7 Tap a **Reading** to refresh/view/edit measurements, set alarms, or configure as desired.
- 8 When finished, close Bullhorn Tools Mobile. The **RM4210** will disconnect automatically (usually within 5 minutes); or swipe with magnet again to turn off indicator light.



Bullhorn RM4210 Unit Activated