ARMOR Installation Instructions

1. **Place ARMOR in battery chamber**
   - Choose a 6v or 12v battery to power ARMOR
   - **DO NOT ATTACH ARMOR TO MORE THAN A 12V BATTERY**
   - Place ARMOR box in an open area close to both battery posts of the chosen battery

2. **Attach wire eyelets to the battery**
   - Attach red wire eyelet to positive terminal of chosen battery, fully tighten nut

   - Attach green wire eyelet to negative terminal of chosen battery, fully tighten nut
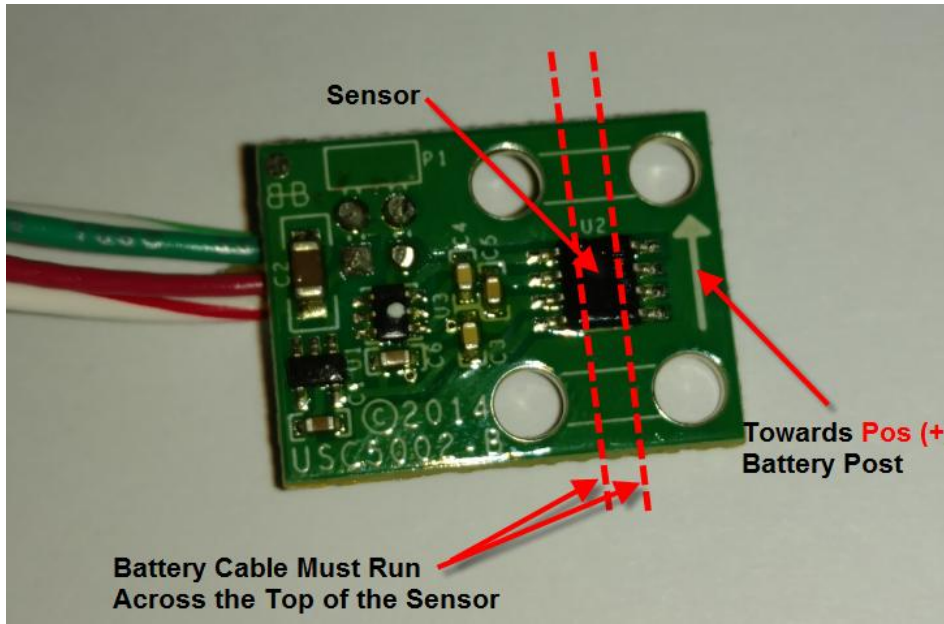
3. Attach and Protect Sensor

- Attach sensor to battery cable (not on a charger cable) with zip ties so the white arrow on the circuit board points toward positive battery terminal parallel to cable

- **Cable must run across top of board with printing facing up**

Sensor

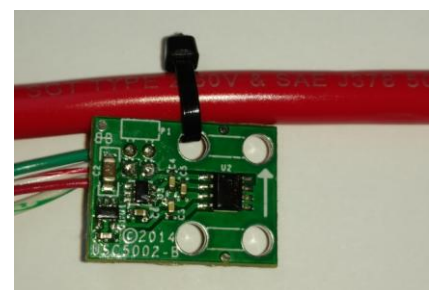Towards Pos (+)
Battery Post

Battery Cable Must Run
Across the Top of the Sensor

Correct Installation

Incorrect Installation Examples

Board Upside Down   **Cable Not Over Sensor**   **Cable Not Over Sensor**
                               Board Oriented Wrong   **Board Oriented Wrong**

Step 3 cont.

- Clip off excess zip ties

- **ARMOR installed by techs,** go to step 4
- **If Activation is needed,** go to Step 5
- **For pre-activated units,** go to Step 6

4. Photograph serial # and bag labels

- Make sure photo is clear and readable
- Attach photo to work order

5. Establish data connection (not required if ARMOR is already activated)

- ARMOR must have battery power for 90 seconds before proceeding
- Press and hold Maintenance and New Batteries button until light flashes (about 10 seconds)

- <u>Wait 20 seconds</u>

- Press and hold Maintenance until light flashes   (about 5 seconds)

- <u>Wait 20 seconds</u>

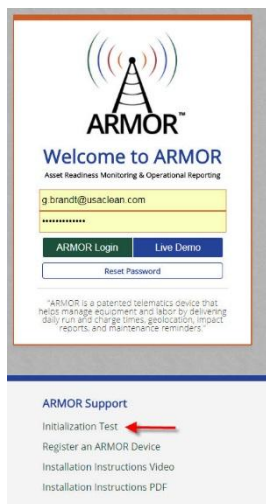- Press and hold Maintenance and Silence buttons until light flashes

- <u>Wait 60 seconds</u>

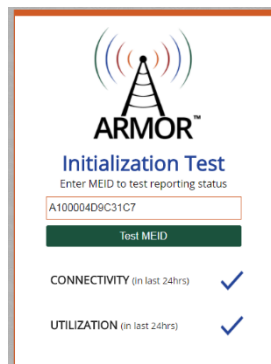- Disconnect the ARMOR positive battery lead, reconnect and tighten

6. Validate Initialization

- If machine is a
    i. Scrubber – run vacuum motor 5 minutes, then hook up to charger, charge for at least 10 minutes, then disconnect charger
    ii. Battery Buffer – run under load for 5 minutes, then hook up to charger, charge for at least 10 minutes, then disconnect charger
- Validate installation is complete by checking the "Initialization Test" tool. It can be found at ARMORdata.com

- Click on the link

- Enter the MEID number found on the label on the back of the ARMOR box

- Click "Test MEID"

- If "Connectivity" and "Utilization", both have a Blue Check Mark next to them, then installation is complete

Step 6 cont.

- If Connectivity has a Red "X", then go back to step 5 and repeat until successful, (make sure you are in an area with a good cell signal)

- If Utilization has a Red "X", then go back to step 3 and verify correct placement and orientation of the sensor board.   Check that the "white arrow" is pointing toward the positive battery post. Check that the battery cable is on the correct side of the sensor board. Check that the battery cable is running directly above the "black chip" located between the 4 holes. Check for loose wires at the ring terminals. Go back to step 5 and repeat until successful (make sure you are in an area with a good cell signal)

- Stretch tape while applying to activate sealing

- Wrap tape around battery cable in a spiral pattern starting and ending about an inch on either side of the sensor. (If you don't have the tape that came with the installation kit, you can use electrician's tape).
- Leave no gaps in the wrapping – make sure to completely seal off the sensor
- Less than an hour after being applied, the self-sealing tape will become permanently adhered to itself.
- Installation is complete