DRAFT

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ZM201 Battery Option Kit (AWT05-507349) Installation Instructions

The battery option kit for the ZM201 indicator will retrofit both the stainless steel desktop and the ABS desktop models for battery power.

The kit consists of:

1 - rechargeable battery pack
1- charger PCB
1- cable assembly, charger to main PCB
4 - nut, w/ext lock washer SST, (used in SST model only)
4 - panhead machine screw w/washer, M3X0.5 6MML SST, (used in SST model only)
1 - battery bracket assembly, (used in SST model only)
4 - #3x8mm screw, self-tapping (used in ABS model only)

> **(!)**   *CAUTION: Always use proper anti-static procedures when handling a PC board.*

Installing the kit in the ZM201 with ABS enclosure

1.   Remove the four screws and door over the battery compartment. Remove the three terminal connectors from the back of the indicator. Remove the four screws at the corners of the enclosure. Set all of these things aside. See Figure 1.
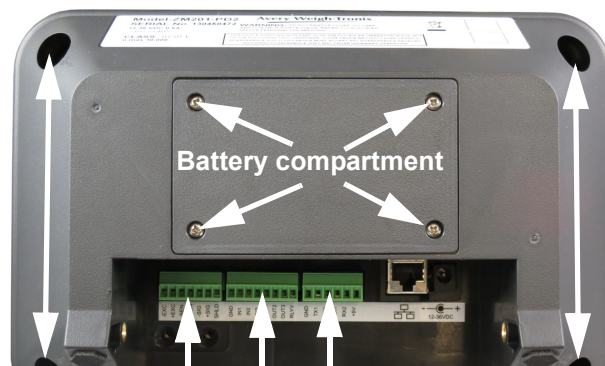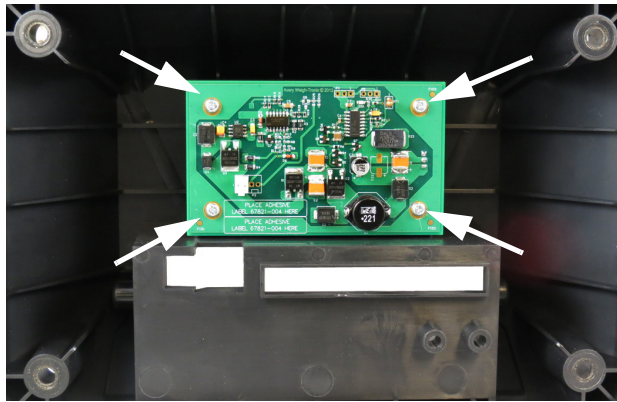

Battery compartment
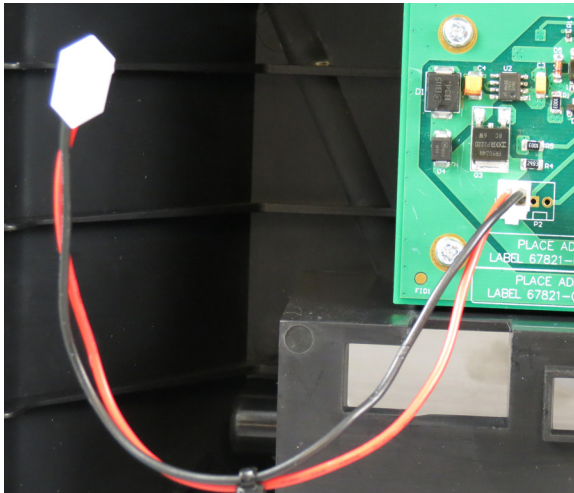
Figure 1 Back of the ABS indicator enclosure

2.	Separate the enclosure halves and screw the charger PCB to the plastic studs on the inside of the back cover, as shown in Figure 2. Use the four included self-tapping screws., also shown below.
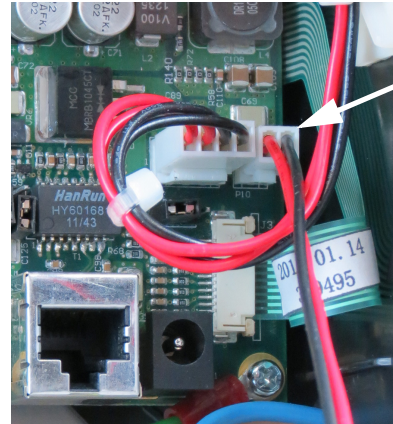

Self-tapping screw

Figure 2 Inside of back indicator cover

3.	Plug the cable from the charger PCB to P10 on the main PCB. The connectors are polarized for proper orientation. See Figure 3.

Cable connected to the
charger PCB.

Cable connected to P10 on
the indicator main PCB.

Figure 3 Cable connections

4. Be sure to position the P3 jumper on the main PCB as shown in Figure 4 so the **ON/OFF** key on the front keypad will function. The jumper must be on one pin only, not both.

Jumper on P3   Jumper off P3

P3   P3

Front panel **ON/OFF**   Front panel **ON/OFF**
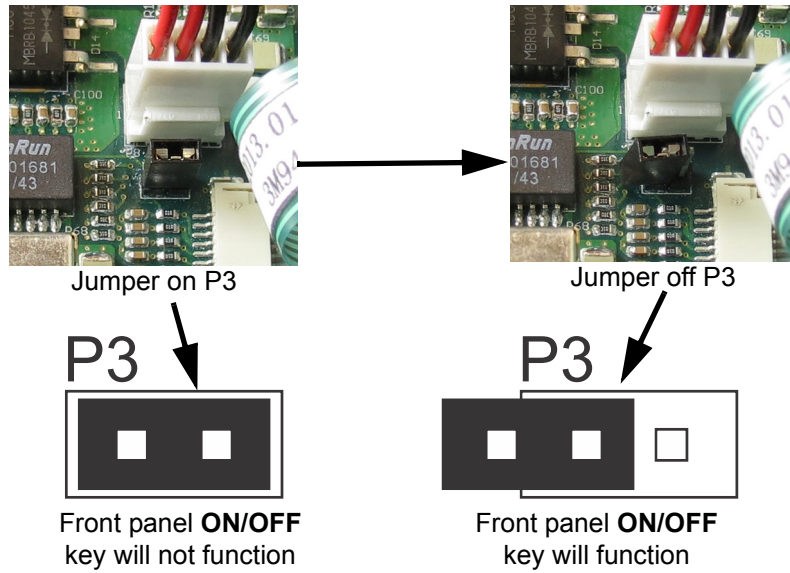key will not function   key will function

Figure 4 P3 jumper positions

5. Replace the indicator back cover and attach with the screws.

6. Connect the battery pack cable to the connector showing on the left side of the battery compartment and place the battery pack in the compartment. See Figure 5.

Figure 5 Battery pack connected and in place

7.   Replace the cover and screws., as shown in Figure 6.

Figure 6 Replacing battery cover

8.   Replace the terminal connectors.

9.   The unit is now ready to be charged.

10.   Plug the AC adaptor into the indicator and the battery pack will charge. Charge at least 5 hours for a full charge.

Installing the kit in the ZM201 with stainless steel enclosure

1. Remove all the dome nuts holding the back cover of the enclosure.

2. Remove the ground wire from the stud on the inside of the back cover and lay the back cover on a flat work area with the inside of the cover up. Place the battery pack between the four studs, as shown in Figure 7.
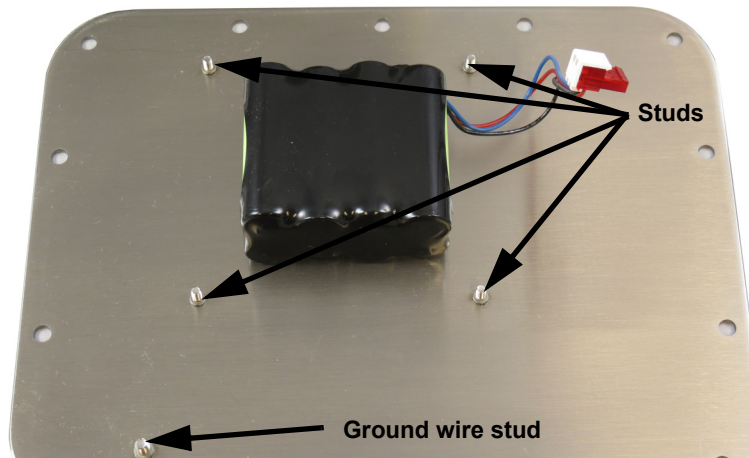

Figure 7 Battery pack in place on inside of the back cover plate

3. Place the battery bracket over the battery pack, as shown, and secure it in place with the four nuts provided in the kit, as shown in Figure 8.
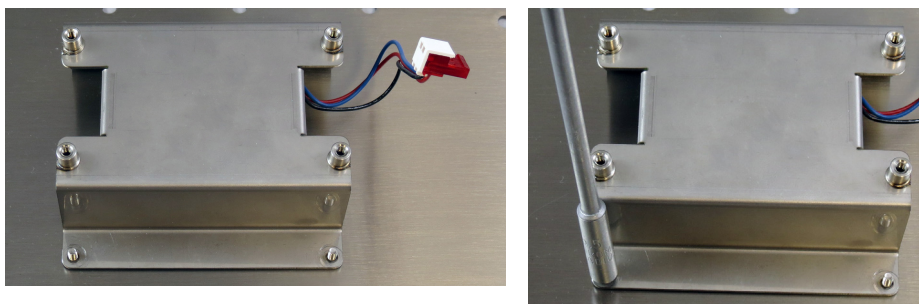

Figure 8 Battery bracket

4.   Plug the connector from the battery pack into the connector on the back of the charger PCB, Figure 9.
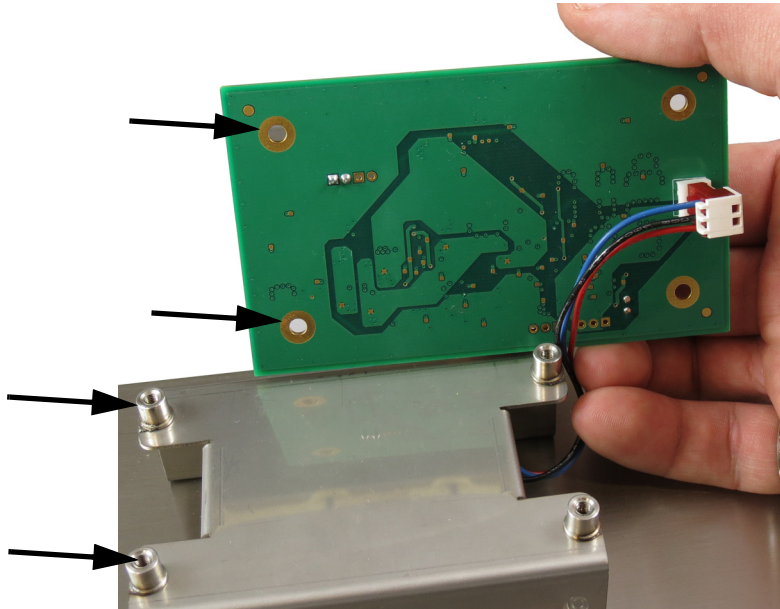

Figure 9 Connecting battery pack to charger PCB

CAUTION: Always use proper anti-static procedures when handling a PC board.

5.   Align the holes in the corners of the charger PCB to the studs on the battery bracket and use the four supplied pan head machine screws to secure the PCB to the studs. See Figure 9.

6.   Plug one end of the provided cable to the charger. Plug the other end of the cable to P10 on the indicator's main PCB. The connectors are polarized for proper orientation. Reconnect the ground wire to the stud on the back cover. See all this Figure 10.
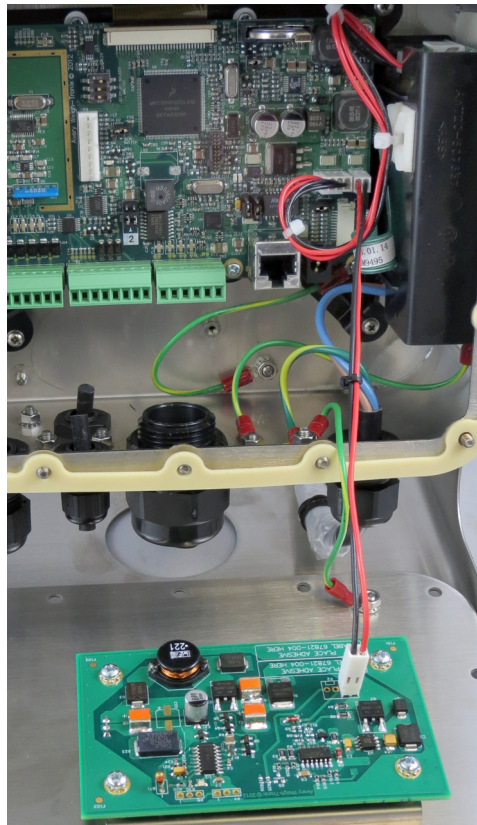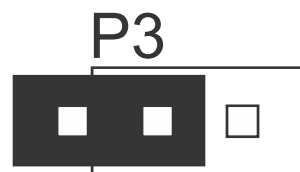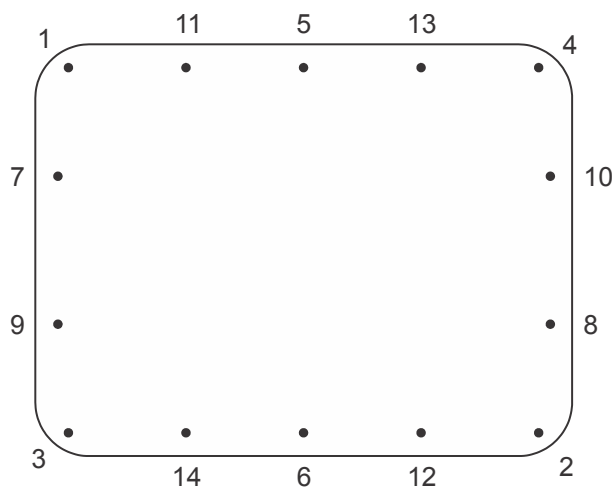

Figure 10 PCB and ground wire connections

7.   Be sure to position the jumper from P3 on the indicator main PCB, as shown below, so the **ON/OFF** key on the front panel will function.

Unjumpered position

8. Replace the back cover and attach with the dome nuts. Torque to 10 in-lbs (approximately 1.13 N-m) in the pattern shown below.

9. The unit is now ready to be charged.

10. Plug in the indicator and the battery pack will charge. Charge at least 5 hours for a full charge.

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