

Solinst® Water Level Meter Faceplate with Electronics Replacement

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Model 101/102

Tools and Materials Needed

- One of the following Replacement Mk2 Faceplates with Electronics
 - #112765 - 101 P7 SC1000 Faceplate w Electronics
 - #112759 - 101 P7 SC2000 Faceplate w Electronics
 - #112670 - 101 P2 SC1000 Faceplate w Electronics
 - #112656 - 101 P2 SC2000 Faceplate w Electronics
 - #114951 - 102 SC1000 Faceplate w Electronics
 - #114851 - 102M SC100 Faceplate w Electronics
- Phillips or Robertson Screwdriver
- Wire Cutters (only required for Mk1 Water Level Meters – see photo below)
- Pliers (only required for Mk1 Water Level Meters – see photo below)

Instructions



- Place the reel on a flat surface, with the faceplate up. Remove the battery from the Meter.

Note: The battery is located inside the reel hub of a 102M Water Level Meter. Remove it in step 2.

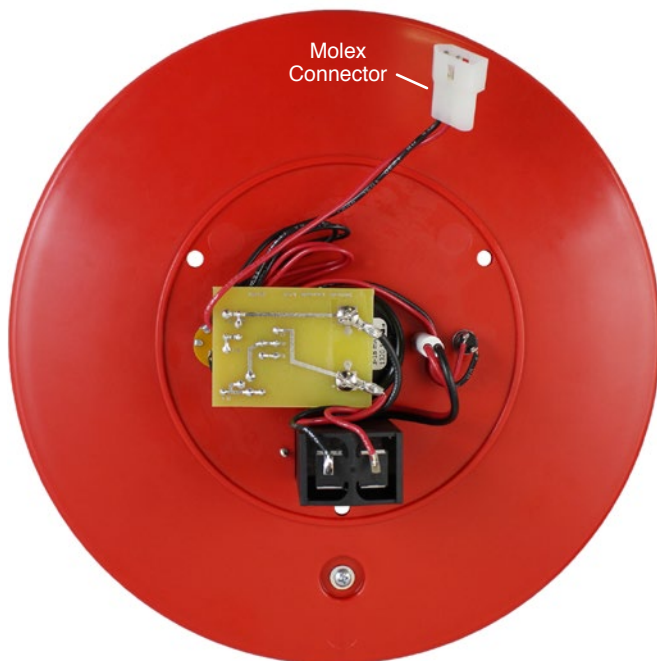
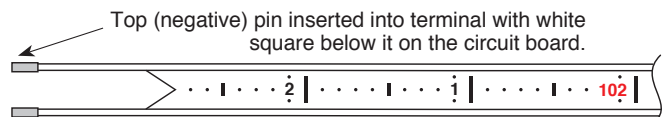
- Use the screwdriver to undo the three screws holding the faceplate to the hub. Remove the faceplate.
- If this is a Mk1 Water Level Meter, disconnect the Molex connector that connects the circuit board to the tape/cable. If this is a Mk2 Water Level Meter, press down on the white terminals of the push-release fittings on the circuit board and pull out to remove the tape/cable leads.



Back of Mk2 101 Water Level Meter Faceplate

- To connect the new faceplate with electronics, connect the tape/cable to the new circuit board assembly:
 - If this is a Mk2 Water Level Meter, press down on the white terminals on the circuit board and insert the tape/cable leads. Release the terminals and the leads should be secured.

For 101 Water Level Meter, the negative lead on the top of the tape (numbers facing up for P2, see note below for P7) is inserted into the terminal with a white square below it on the circuit board (see next page for more images).



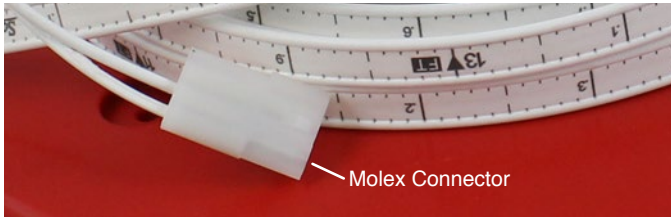
Back of Mk1 101 Water Level Meter Faceplate

Note: For the 101 P7, there is a “P” etched on the tape to help denote the proper orientation of the tape – top (negative) and bottom (positive) leads.



For 102 Water Level Meters, the negative lead is inserted into the terminal with white square below it on the circuit board. The negative pin is connected to the black insulated braided wire. The positive lead has the pin connected to centre wire. (see next page for more images).

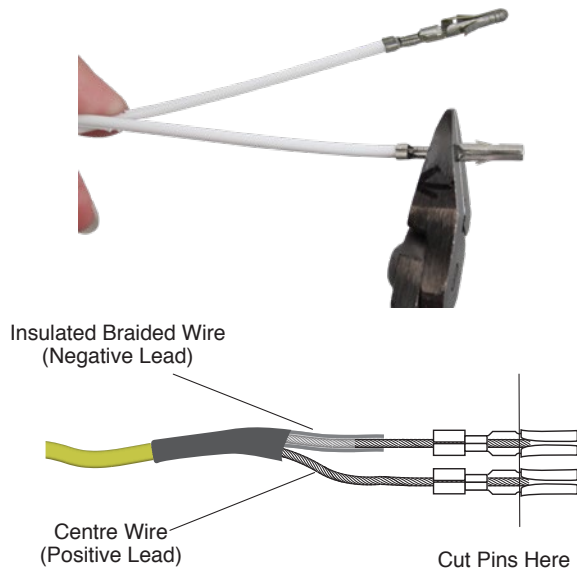
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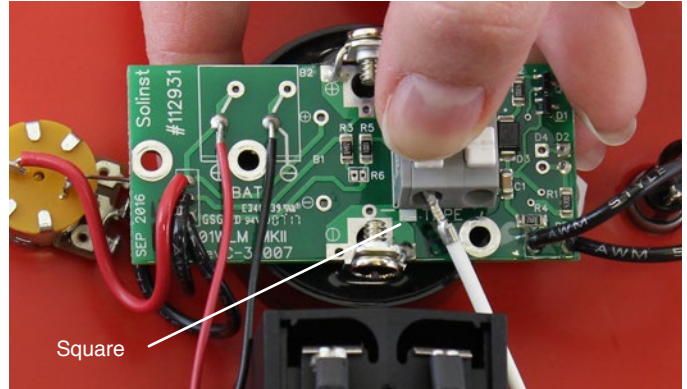
Remove the Pins from the Tape Molex Connector (Mk1)

- b) If this is a **Mk1 Water Level Meter**, with a Molex connector on the tape/cable leads, remove the Molex connector by pushing out the two pins. Cut each pin in half (see image for correct location).

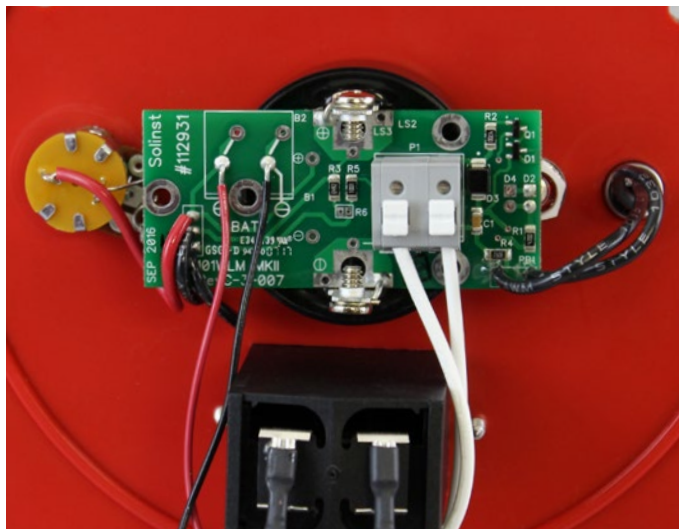
Use pliers to flatten the remainder of the pins against the tape/cable lead, so it fits easily into the terminals on the circuit board. Connect each tape/cable lead to the new circuit board assembly, as described in step a.



Cut the Pins on Each Tape/Cable Lead in Half (as shown)



Press Down on the White Terminals on the Circuit Board and Insert the Tape/Cable Leads



Release the White Terminals and the Leads Should be Secured.

5. Install the battery.
6. With the probe in a glass of tap water, turn the Water Level Meter to the 'ON' position. If the connections are correct the buzzer and light will activate. If the buzzer or light do not activate, check all connections and the polarity of the battery.
7. Reattach the faceplate to the reel using the three screws.