

Instructions

For Mk2 Water Level Meters (Push-Release Tape Connection)

Note: For instructions for Mk1 Water Level Meters (Molex tape connection, soldered connections to battery tray) see page 3.

Tools and Materials Needed

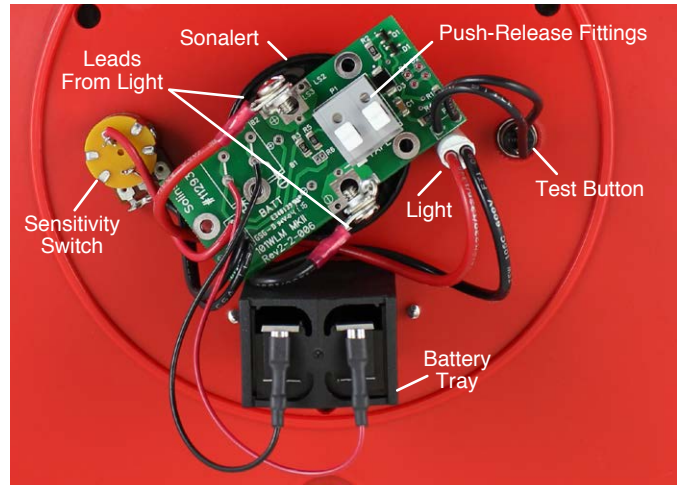
- 101 Replacement Faceplate Assembly
 - Faceplate and Handle (without electronics)
 - 101 P2: #103565, #105299, or #105301
 - or 101 P7: #110502, #110503, or #110504
- Phillips Screwdriver
- Small Flat Screwdriver
- Needle Nose Pliers



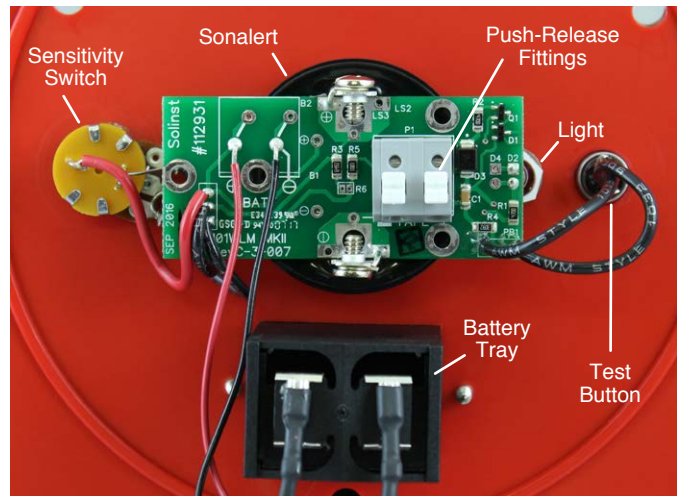
101 P7 Replacement Faceplate Assembly indicating the location of the components (comes with Handle Assembly attached and 3 Phillips screws)

- Place the reel on a flat surface, with the faceplate up. Remove the battery from the Meter.
- Use the Phillips screwdriver to undo the three screws holding the faceplate to the hub. Remove the faceplate.
- To disconnect the tape from the circuit board, press down on the white terminals of the push-release fittings on the circuit board and pull out to remove the tape leads.
- Unscrew the nut from the test button and push the button out of the faceplate.
- Use the small flat screwdriver to unscrew the small brass screw on the side of the sensitivity knob. Remove the sensitivity knob. Use the pliers to unscrew the nut holding the sensitivity switch and remove the switch from the faceplate.
- Use the Phillips screwdriver to undo the two screws holding the battery tray to the faceplate. Remove the black and red wires by pulling the quick-connect fittings off of the terminals on the battery tray. Remove the battery tray.

- Unscrew the two screws holding the circuit board (and leads from light if you have an older style light – see photo below) to the Sonalert (watch for proper connection/polarity).
- If you have an older style light (see photo below) push the light out of the faceplate.



Back of Mk2 101 Faceplate with Older Style Light

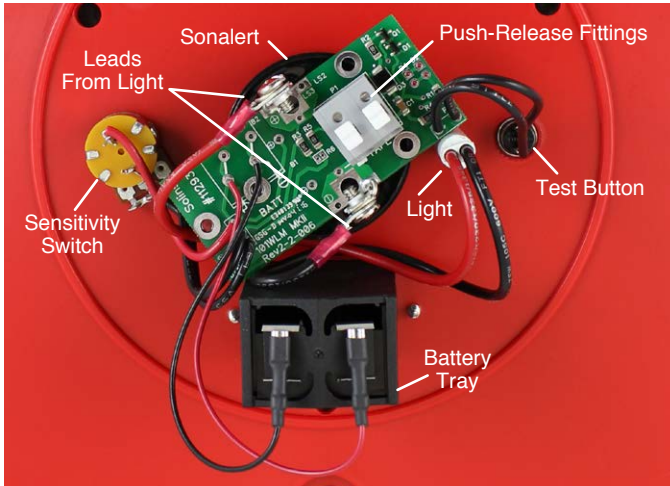


Back of Mk2 101 Faceplate with New Style Light

- Remove the circuit board assembly with connected wires, test button, sensitivity switch, and new style light if (see photo above).
- If you have a new style light, unscrew the red lens from the faceplate.
- Unscrew the Sonalert retaining ring from the front of the faceplate and remove the Sonalert.
- Put the Sonalert through the new faceplate, and secure it using the retaining ring. Position it as shown in the photos above, depending on which light you have.
- If you have a new style light, install the red lens in the new faceplate and secure it using the white nut.

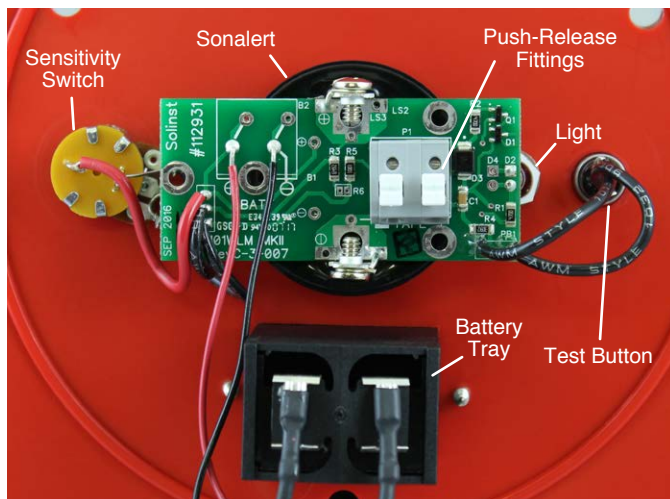
Water Level Meter Faceplate Replacement

14. If you have an older style light (see photo below), thread the leads of the light assembly through the front of the faceplate and snap the light in place.



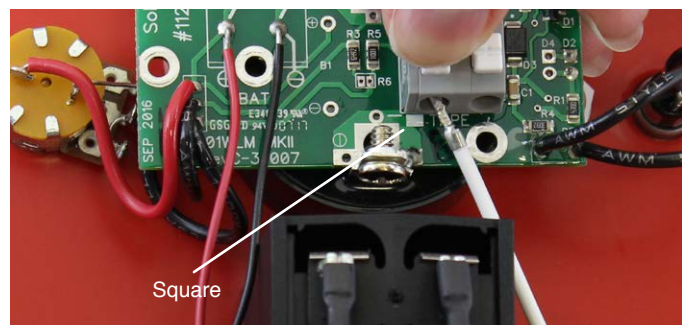
Back of Mk2 101 Faceplate with Older Style Light

15. Place the circuit board assembly back in position on top of the Sonalert, ensuring the sides marked +ve and -ve are lined up with the corresponding terminals on the Sonalert and if you have a new style light, it is seated in the lens (see photo below).



Back of Mk2 101 Faceplate with New Style Light

16. Use the two screws to connect the wires from the circuit board (and light if you have the older style) to the Sonalert. Make sure the wires are connected to the correct terminals (+ve and -ve) on the Sonalert.
17. Insert the test button through the opening in the faceplate, and secure it in place using the nut.
18. Insert the sensitivity switch through the faceplate with the three connection prongs positioned towards the battery drawer, slightly towards the centre of the reel. Tighten the nut. Fasten the sensitivity knob on the front of the switch using the brass screw.
19. Insert the battery tray through the faceplate and secure using the screws. Connect the black wire with quick-connect fitting to the negative terminal on the battery tray. Connect the red wire with quick-connect fitting to the positive terminal. Replace the battery.
20. To reconnect the tape to the circuit board, press down on the white terminals and insert the tape leads. Release the terminals and the leads should be secured. The lead on the bottom of the tape (numbers facing up, may be black mark on lead) is inserted into the terminal with a white square below it on the circuit board. See photo below.



21. 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 the polarity of the battery and that all the electronics are connected properly.
22. Screw the new faceplate to the reel using the new Phillips screws.

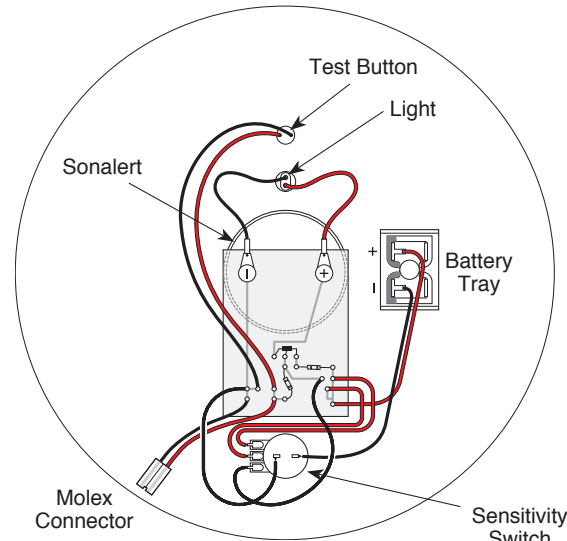
Instructions

For Mk1 Water Level Meters (Molex Tape Connection)

Note: Instructions for Mk2 Water Level Meters are on page 1 (tape connection using push-release fittings on circuit board and quick-connect fittings to battery tray).

Tools and Materials Needed

- 101 Replacement Faceplate Assembly
 - Faceplate and Handle (without electronics)
101 P2: #103565, #105299, or #105301
or 101 P7: #110502, #110503, or #110504
- Phillips Screwdriver
- Small Flat Screwdriver
- Needle Nose Pliers
- Wire Strippers and Cutters
- Soldering Iron and Wire



Back of Mk1 101 faceplate showing wiring connections and the location of the components



101 P2 Replacement Faceplate Assembly indicating the location of the components (comes with Handle Assembly attached and 3 Phillips screws)

1. Place the reel on a flat surface, with the faceplate up. Remove the battery from the Meter.
2. Use the Phillips screwdriver to undo the three screws holding the faceplate to the hub.
3. Remove the faceplate and disconnect the Molex connector that attaches the faceplate electronics to the tape.
4. Unscrew the test button and push it out of the faceplate.
5. Unscrew the two screws holding the wires from the light, through the circuit board and onto the Sonalert (watch for proper polarity). Push the light out of the faceplate.
6. Use the small flat screwdriver to unscrew the small brass screw on the side of the sensitivity knob. Remove the sensitivity knob. Use the pliers to unscrew the nut holding the sensitivity switch and remove the switch from the faceplate.
7. Use the Phillips screwdriver to undo the two screws holding the battery tray to the faceplate. Cut the red and black wires from the back of the battery tray close to the terminals (other end of black wire is connected to the sensitivity switch, and red wire connects to the circuit board). Strip the wires about 1/4" (6 mm).
8. Unscrew the Sonalert retaining ring from the front of the faceplate and remove the Sonalert.
9. Put the Sonalert through the new faceplate, and secure it using the retaining ring.
10. Replace the sensitivity switch, light, and test button in the new faceplate.
11. Reconnect the two wires, from the light, using the two screws through the circuit board and onto the Sonalert.
12. Insert the battery tray through the new faceplate. Re-solder the red and black wires to the correct terminals labeled on the back of the battery tray. Red wire from the circuit board to the positive terminal and black wire from sensitivity switch to the negative terminal. Use the two screws to secure the tray to the faceplate. Replace the battery.
13. Connect the Molex connector from the faceplate to the tape.
14. 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 the polarity of the battery and Molex connector, and the soldered connections.
15. Screw the new faceplate to the reel using the new Phillips screws.

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