



LIMITED

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BULLETIN # B017 (Box B077)**AUTOLAB TEMPERATURE PROBE CALIBRATION****You will need:**

- A tiny flatblade screwdriver.
- A flatblade screwdriver.
- A phillips screwdriver.
- An accurate thermometer to be used as your standard.

PART ONE**Set Up**

- 1) Turn on the unit.
- 2) Go into the SET mode using the SET/RUN switch.
- 3) Step down to the temperature setting and select 32.0 degrees.
- 4) Select the RUN position using the SET/RUN switch.
- 5) Push RESET and allow the water bath temperature to stabilize.

PART TWO**Accessing the Calibration Potentiometers**

- 1) For the ATL-3 only you will need to remove the large grey cover by taking out the 6 screws located around the perimeter: 3 across the front, 2 at the back by the plumbing, and 1 on the side by the lift arm. Then, lift the cover off, being careful not to catch any hoses or wiring.



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- 2) For all models, remove the fuse access panel. To do so, remove the two phillips screws located just below the display panel. If you own an ATL-2+, lift off the front bottle cover and remove the allen screw located by the left hinge.
- 3) Slide the fuse access panel forward, being careful not to lose the rubber grommet(s) on the right side of the panel.
- 4) Look down into the opening under the access panel. On the far right you will see 2 connectors. One is labeled "WA" and the other "CHE".
 - a) "WA" = Water Bath Probe.
 - b) "CHE" = Chemical Probe.
- 5) Gently pull the wires from the "CHE" and "WA" connections out until you see a small black tube like piece with a nylon cap on it. There is one for each probe connection.
- 6) Remove the nylon caps to access the potentiometers.

PART THREE

SET TEMPERATURE TO 32°C.

Calibration

- 1) Remove the chemical temperature probe from the bottle and place it in the water bath as close as possible to the "waterfall" where the recirculation pump brings up water.
- 2) Put your reference thermometer right next to the chemical probe.
- 3) Allow both devices to stabilize.
- 4) Compare the temperature read by the chemical probe to the temperature read by your reference thermometer.



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- 5) Using a small flat blade screwdriver, adjust the potentiometer in line with the "CHE" connection until the chemical temperature readout matches the reference thermometer.

NOTE: When reading temperatures, it is normal for the sealant to fluctuate by 1 or 2 tenths.

- 6) Now check the water bath readout. It should be 0.4 degrees lower than the chemical probe readout.

- 7) If it is not, adjust the potentiometer in line with the "WA" connection until the water bath reads 0.4 degrees less than the chemical probe.

- 8) Allow the unit to restabilize and verify the calibration.

- Chemical probe and reference thermometer are by the "waterfall" and both read 32.4 degrees.
- The water bath probe reads 32.0 degrees.

- 9) The offset of 0.4 degrees applies only to calibrations done at 32.0 degrees.

- 10) If the calibration is still not good, repeat steps 3-8 of part 3.

If you have further questions, call (313) 995-4192 ext. 159 and ask to speak to a service representative.