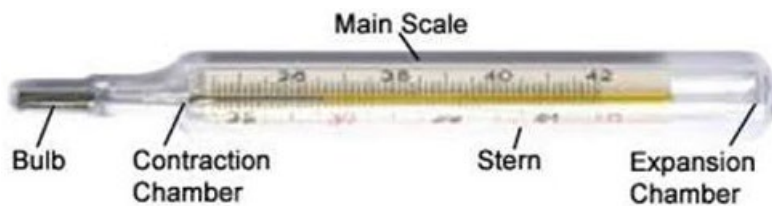




# THERMOMETER BUBBLE FIX

It is common for the mercury to separate in thermometers, however this can be reversed. There are three methods for fixing the bubble in thermometer columns. The first two are a bit time consuming and don't always work so we will focus on the third method:

1. **The Boil Method:** Boil water and insert the thermometer in the boiling water. This will cause the mercury to rise in the column and come together. **The thermometer needs to be held at a 90° angle.**
2. **The Freeze Method:** Mix dry ice and water in a container to get water as cold as possible. Insert the thermometer in the near freezing water. This will cause the mercury in the column to fall and come together. **The thermometer needs to be held at a 90° angle.**
3. **Shake Method:**
  - Hold the thermometer with the bottom of the thermometer (the lowest part of the temperature gauge and the bulb where the mercury is) in your hand and the expansion chamber held towards the ground.
  - With fast shaking motions with your hand (like a Polaroid picture) keep shaking the thermometer.
  - MAKE SURE THERE ISN'T ANYTHING AROUND THAT YOU CAN SMASH THE THERMOMETER ON SUCH AS A DESK, COUNTER TOP, CHAIR, ETC.
  - This will force the mercury out of the bulb and all the way up the stem which will cause it to come back together.
  - Repeat the steps until the mercury has come back together, this may take a few tries, but eventually it will come back together.
  - [Here is a video.](#) It is not the best, but you will understand the motion explained above.



**\*To prevent the thermometer from getting another bubble in the column, store at a 90° angle with the mercury bulb side down\***

Please call (707) 838-6312 for more information.