

EXAMINE THIS THERMOMETER CAREFULLY FOR SEPARATIONS!

TO REUNITE A SEPARATED MERCURY COLUMN & THERMOMETERS WITH EXPANSION CHAMBERS

A slight separation can usually be reunited by heating the bulb **slowly** in a soft flame until the separated mercury and the main column both run into the safety chamber at the top of the thermometer bore. A slight jar will then reunite the mercury.

CAUTION: Never completely fill the expansion chamber with fluid as internal pressure will cause breakage. Care should be taken not to heat the thermometer bulb too fast.

If the safety chamber is too small to hold all the separated mercury, it is better to cool the bulb in dry ice until all the mercury runs into the bulb. When using this method, apply the dry ice to the bulb, not to the bore. If the mercury freezes solid it will melt slowly at room temperature without danger of breakage provided it is not frozen in the bore.

RED, BLACK or BLUE liquid thermometers can be reunited by swinging by hand with the bulb end out, or by either of the mercury methods above.

Mercury in GLASS MAXIMUM REGISTERING THERMOMETERS have an apparent separation near the bottom of the bore which cannot be eliminated. This is caused by the presence of a glass plug in the bore which prevents the mercury column from receding. The size of the apparent separation varies in proportion with the maximum temperature being registered.

To lower the mercury column below the temperature reading required, swing the mercury past the plug and into the bulb by centrifugal force. This is accomplished by swinging the thermometer, bulb end out, at full arm's length simultaneously with a snap of the wrist. Evacuated space above the column will permit the mercury to run in the bore when inverted.

**ANY BROKEN BULBS OR SPILLAGE OF MERCURY SHOULD BE
CLEANED AND DISPOSED OF AS PER STATE AND FEDERAL LAW**

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