

Adjusting Your Chelsea Barometer to Local Altitude

When it left the factory, your Chelsea barometer was adjusted to register pressure at sea level, which is the standard for measurement of barometric pressure regardless of location or altitude. Since atmospheric pressure decreases as altitude increases, if you are located in a higher altitude your barometer will indicate a lower pressure. It will be necessary for you to adjust it to give you a reading corrected to sea level. To do this either call the local weather bureau or check online for the present barometer reading. Next adjust your barometer's black indicator hand to the reading given.



If the correction is less than 0.30 inches this is done by turning the set screw located just inside the hole in the back of the case with a small screwdriver.

If the correction is 0.30 inches or more, the black indicator hand must be removed from its arbor and replaced at the approximate corrected reading. The hand is removed by lifting it by the hub (base), straight up and off, being careful not to bend the hand or arbor. It is then replaced in approximately the corrected position with just a gentle firm pressure of thumb. A final accurate setting is then made adjusting the set screw in the back as described above.



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Should you be unable to get the corrected barometer reading from another reliable instrument in the same locality use the following correction chart to make the adjustment. Obtain the local altitude from your city engineer, airport, internet, or perhaps a road map. With this information advance the black hand clockwise the number of inches indicated on the correction chart opposite the altitude nearest your own. For example, if your barometer reads 29.10 and your locality is 460 feet above sea level, use the correction for 500 feet. Advance the black hand 0.54 inches so the corrected reading becomes 29.64. Be sure to add all the correction indicated. For altitudes between 3,500 and 7,000 feet, adjustment should be made by an instrument repair person or by the factory.

Correction Chart:

If Altitude Is	Add	To Barometer Reading
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250 Feet		0.27 Inches
500 Feet		0.54 Inches
750 Feet		0.81 Inches
1,000 Feet		1.08 Inches
1,250 Feet		1.34 Inches
1,500 Feet		1.60 Inches
1,750 Feet		1.86 Inches
2,000 Feet		2.12 Inches
2,500 Feet		2.63 Inches
3,000 Feet		3.13 Inches
3,500 Feet		3.61 Inches