

Weems & Plath®

Manufacturer of Fine Nautical & Weather Instruments

BAROMETER

Lifetime Warranty

OPERATING INSTRUCTIONS

A barometer is an instrument used to predict a change in weather by measuring variations in atmospheric pressure, or the weight of the air around us. The barometer will normally indicate changes in weather 12 to 24 hours in advance. It is not an indicator of present weather conditions. Barometric pressure is the same indoors as outdoors.

Your barometer is an aneroid type which measures atmospheric pressure mechanically without use of liquids. An evacuated hollow metallic diaphragm is employed to actuate a pointer indicating atmospheric pressure.

Don't take any notice of the words Rain, Change, Fair. They are a traditional graphic decoration found on all barometers. At sea level the normal atmospheric pressure is about 30 inches. Very rarely will the needle ever exceed 30.5 or drop below 29.5. Sometimes it is possible for the pressure to change only one or two tenths of one inch over a week, even a storm may cause only a half inch change.

When your barometer left the factory, it was set at standard sea level which is the standard setting for weather observation. The movements used in Weems & Plath® barometers are adjustable up to an altitude of 3,500 feet. The pressure will decrease as your altitude increases. It's necessary for you to adjust your barometer to the atmospheric pressure in your geographic area using the indicator needle by means of the small screw found on the back of the movement.

To access the screw, expose back of movement. (If case has screw-on type bezel (face), simply unscrew bezel. If case has hinge type of bezel, unscrew latch and flip bezel open).

Contact your local weather bureau for present atmospheric pressure and adjust your barometer accordingly. For every 100 feet in altitude an adjustment of 0.11 inches is required (1000 ft. = 1.1 inch).

Set the moveable pointer (using knob at the center of the glass cover) over the top of the indicator needle. This will allow you to return to the barometer after time has passed to determine if the atmospheric pressure is rising or falling.

BAROMETER TROUBLE SHOOTING

Indicator needle does not move:

- A. Place movable pointer over indicator needle (usually black) and wait a few days to see if indicator needle moves.
When atmospheric pressure is steady the needle will not move.
Waiting for weather change over a period of days will determine if needle is moving properly.
- B. Place barometer in a clear, plastic bag trapping air inside with the barometer. Hold opening of bag closed and push on bag which will increase air pressure causing the indicator needle to move.
- C. If the needle doesn't move after trying A and B, return for service. **

Indicator needle shows incorrect reading:

- A. Adjust the slot head screw in the back of the movement, turning either left or right to bring the needle to the correct reading.
- B. If it still isn't working correctly after setting the needle, please return for service. **

** When returning for service, package carefully as Weems & Plath® cannot be responsible for damage in transit. Fill out and include the Customer Request Repair Form found on the Customer Service page of the Weems & Plath website (<http://www.weems-plath.com/pdf/csreturns.pdf>) or write a note with your contact information and a description of the problem.

Send to:

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