



## **BAROMETER INSTRUCTIONS PART #3015**

### ***SPECIFICATIONS:***

1. Range: 27.5 to 31.5 inches
2. Resolution: .05 inches
3. Movement: Holesteric diaphragm, temperature compensated

### ***OPERATING INSTRUCTIONS:***

This barometer is designed to be used with the Air Corrections program and will provide you with accurate readings for the current atmospheric pressure. A barometer is essentially a very accurate altimeter covering a smaller scale. A barometer will not only respond to changes in air pressure at a given altitude but it will also respond to changes in altitude itself.

This is a precision instrument and needs to be treated as such. It should be carried in a foam fitted carrying case to properly protect it and to help maintain its calibration. This model is designed to be used by racers who compete at tracks with a physical elevation of 2,500 feet or less.

**Barometer Calibration:** Prior to using the barometer it must be properly calibrated to absolute pressure by you, the actual user. Calibration is easy and can be done in less than 3 minutes. Simply run the Calibrate Barometer program found in the SET-UP menu of the DRAG RACE SYSTEM computer. Instructions for that program can be found in the DRAG RACE SYSTEM instruction manual. It is preferable that you make your calibration when the barometric pressure is reported as being steady, as opposed to rising or falling.

To make this calibration, carefully turn the recessed adjustment screw on the back of the barometer until the black indicating hand matches the required setting. Tap the face of the barometer lightly after making the adjustment to settle the needle. Readjust the adjustment screw as necessary to correctly calibrate the instrument. The gold needle on the face of the barometer is used only as a reference pointer and in no way affects the calibration or reading of the instrument.

Future Calibration: You should verify your barometer calibration periodically to make certain it is still in calibration. Also, make certain you always calibrate your barometer from the same physical location, such as your home or shop, so that you are at the same physical elevation above sea level each time.

Reading the Barometer: When reading the barometer, use the outer scale on the dial marked INCHES. Each mark on this scale represents .05 inches. Every .25 inches has a slightly longer mark and .50 inches has a longer and heavier mark. Example: If the barometer indicating hand is pointing to a mark that is 4 marks past the 29.5 inch mark, then the barometric pressure would be: 29.70 inches. If the indicating hand is slightly past the 29.70 inch location, you should interpolate between these .05 inch marks to come up with a more accurate reading, such as 29.72 inches.

At the Races: The barometer should be kept in the shade. It may even be left in the trailer; it is not necessary to have the barometer out in the open air. It is however very important to keep the barometer out of direct sunlight and to keep it in a temperature that is comparable to the current outside temperature. Before reading the barometer tap the face of the barometer lightly to settle the black indicating hand.