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Intoxilyzer® 8000

The Intoxilyzer 8000 instrument is designed to give very accurate results. This is accomplished by using a large variety of electrical and mechanical components, each having a tolerance in physical and/or electrical specifications. Both mechanical and electrical adjustments are made to the instrument during the manufacturing process, to insure that the instrument meets all performance requirements. In most cases, slots are used to make mechanical adjustments and potentiometers are used to make electrical adjustments. There are two cases where fine adjustments are necessary and neither of these two methods will work.

- 1.) Tolerances in the output of the IR source, and detector sensitivity, make it necessary to make a gain adjustment in the preamp. Because potentiometers tend to be noisy there are three resistors that have their values selected during the manufacturing process. These three resistors can vary in resistance from instrument to instrument in order to optimize preamp gain.
- 2.) Dimensional tolerances between the detector and the window in the sample chamber are maintained by making a clearance adjustment. This adjustment is made during manufacturing and when necessary, a shim is added between the two parts. Some instruments will have the shim and some will not, as required to maintain proper dimensional tolerance.

Other less apparent noticeable differences in the instrument are due to using parts from different manufacturers. Parts from different manufacturers meet the same engineering specifications, but sometimes look differently. One example is connectors. There are two manufacturers approved, so it is possible there are instruments with white connectors, brown connectors or a mixture of both. Capacitors are another example. One manufacturer uses black epoxy, another uses yellow.

These perceived differences do not change instrument functionality, nor do they compromise instrument performance.

INTOXILYZER® ...so you can breathe easier

