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Zero Drift Adjustment:

A few microns of drift up and down during the day due to thermal expansion and contraction of the instrument is normal and is corrected by adjusting the "ZERO" knob. Adjusting the Zero knob has no effect on the calibration accuracy.

A drift of more than a few microns or to a point beyond the range of the Zero adjustment is not normal. Sometimes a small drift towards the plus side will occur as the paint between the base plate and the frame is compressed. This usually only occurs within the first few days after the instrument has been assembled, then stops, and is adjusted for prior to shipping. If you are seeing a significant zero drift there are a few things to check.

- First, check to see that the screws, nuts or bolts that hold the frame and the anvil to the base are firmly secured.
- Next, with the power OFF, remove the cover plate under the base plate and separate the two halves of the connector. Clean the connectors to remove any saline that may have contaminated the connectors. Then take a piece of wire that is not larger in diameter than the connector pins and, being careful not to damage the connector sockets, connect a jumper between the RED and BLACK wires sockets of the female connector. Be very careful not to connect any wires other than the RED and Black or the electronics will be damaged. With the jumper in place, turn the power ON. By turning the Zero adjustment the display should read approximately minus 015 at one end and minus 045 at the other end. If that tests OK the electronics are probably in good working order. To avoid damage to the electronics make sure that the power is OFF and that the index marks on the two connectors are properly aligned when reconnecting.
- The next thing to do is calibrate the instrument following the instructions provided.
- After the calibration procedure has been completed, adjust the position of the sensor coil if needed to bring the Zero adjustment to mid range. The display should read approximately +015 and -015 when rotated to both ends. This adjustment is only necessary if there has been some mechanical movement within the instrument and the Zero range is not within approximately eight microns of center. See the [Sensor Coil Adjustment](#) instruction sheet for this procedure.

If the instrument continues to have a zero drift problem after performing these operations it will probably require factory service.

If there is a conflict or problem, please call Createch Rehder Development Co at 1-833-833-1994 or email a.snow@createchrehder.com for further instructions.