




Align the Tilt Sensor

The tilt sensor is aligned during assembly. In the rare event that your TruPulse suffers a severe drop shock, refer to the instructions below to re-align the tilt sensor.

1. From the Measurement Mode, press  for 4 seconds to access the System Setup Mode. "UnitS" will appear in the Main Display.
2. Press  to display the "inc" option as shown in Figure #13 below.
3. Press  to select the "inC" option. The message "no" "CAL" appears in the Main Display and the display should look similar to Figure #14.

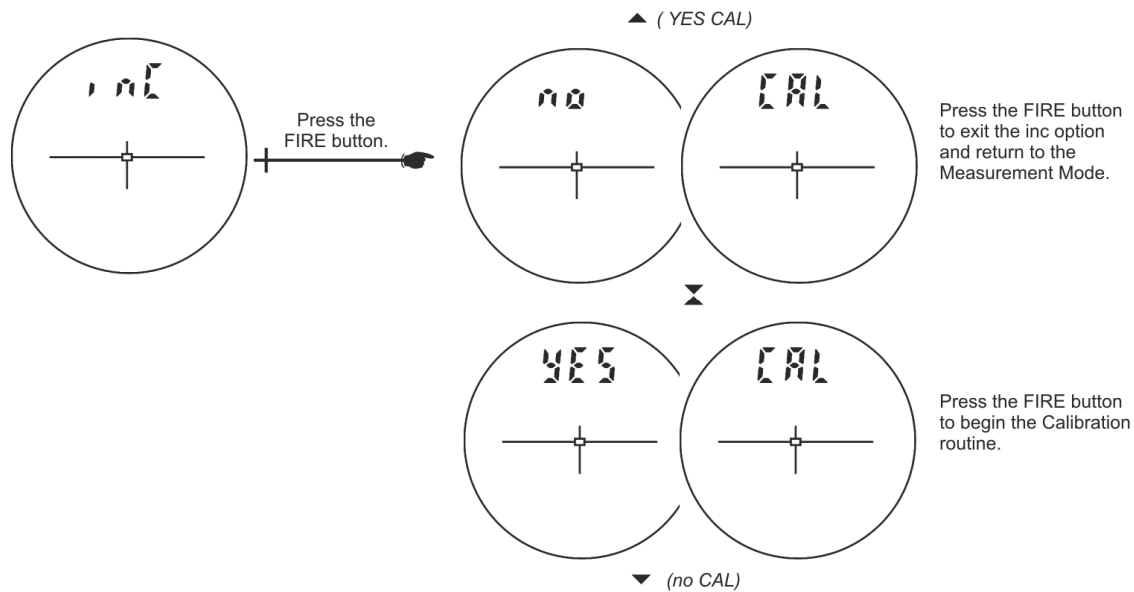



Figure #14

Press  or  to display the previous or next "CAL" option.

If "no" "CAL" is displayed, press  to exit the "inC" option and return to the Measurement Mode.

If "YES" "CAL" is displayed, press  to begin the Tilt Calibration Routine.

The message "C1_Fd" appears in the Main Display.

Tilt Sensor Calibration Routine

Figure #15 shows the steps required to complete the Calibration Routine. The instructions are on the [next page](#).

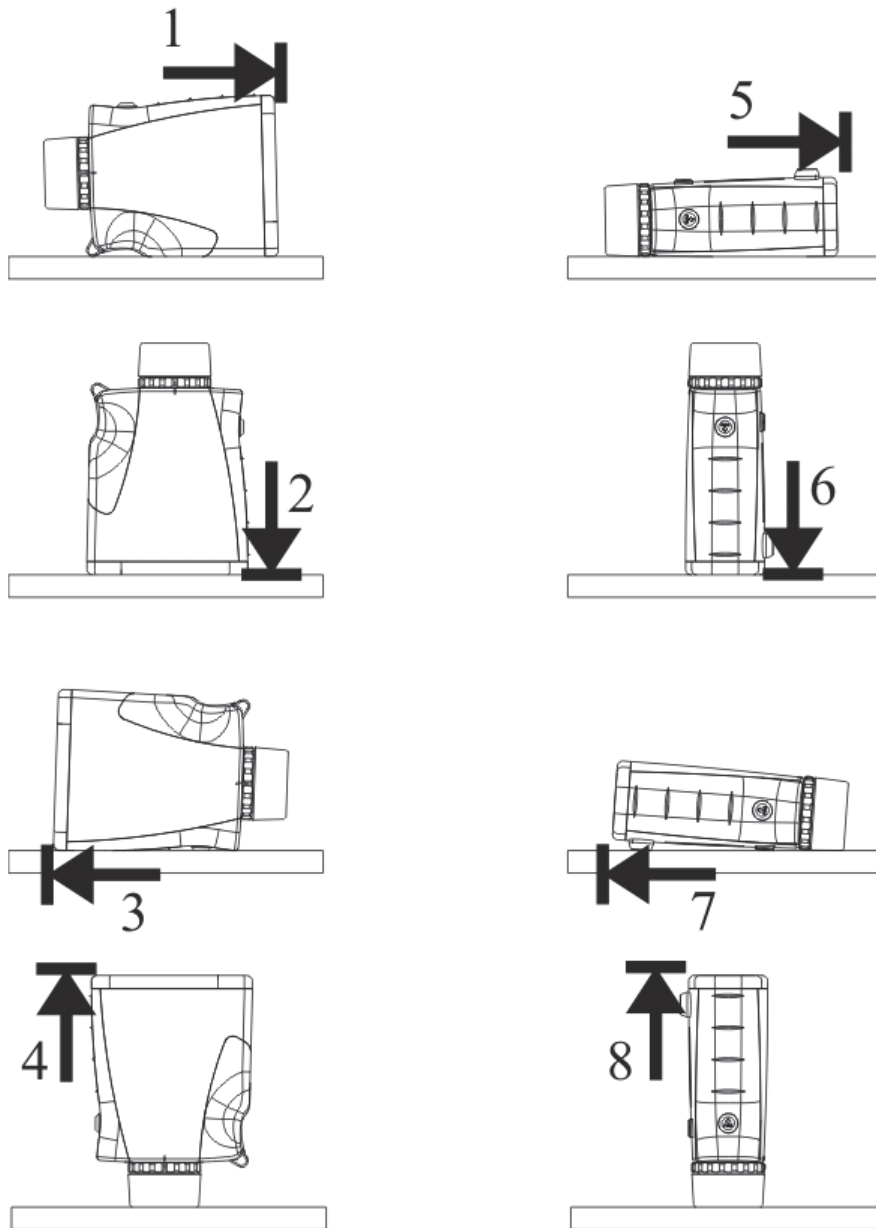



















Figure #15

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 - At each step, wait approximately 1 second before pressing the  button. Then wait another second before moving to the next position. It is important that the unit is held steady when the  button is pressed.
 - The Tilt Calibration routine can be aborted at any time during the procedure with a long press of  or . If the calibration is aborted, the unit restores the previous stored calibration.
1. Position the TruPulse on a flat, relatively level surface (15 degrees of level). The lenses should be facing forward as shown in Figure #15-1. Press  to store the first calibration point.
 2. Rotate the TruPulse 90 degrees, the lenses should be facing down as shown in Figure #15-2. Press  to store the second calibration point.
 3. Rotate the TruPulse 90 degrees, the lenses should be facing back as shown in Figure #15-3. Press  or  to store the third calibration point. Be careful to do a short press when you press the  or . If you do a long press, the calibration routine will be aborted.
 4. Rotate the TruPulse 90 degrees, the lenses should be facing up as shown in Figure #15-4. Press  to store the fourth calibration point.
 5. Rotate the TruPulse 90 degrees along the optical axis, the lenses should be rotated, facing forward as shown in Figure #15-5. Press  to store the fifth calibration point.
 6. Rotate the TruPulse 90 degrees, the lenses should be facing down as shown in Figure #15-6. Press  to store the sixth calibration point.
 7. Rotate the TruPulse 90 degrees, the lenses should be facing back as shown in Figure #15-7. Press  to store the seventh calibration point.
 8. Rotate the TruPulse 90 degrees, the lenses should be facing up as shown in Figure #15-8. Press  to store the eighth calibration point.
 9. Look through the eyepiece, either a pass or fail message appears in the Main Display.
 - PASS: Press the  to return to the Measurement Mode.
 - FAiL1: Excessive motion during calibration. Unit was not held steady.
 - FAiL2: Magnetic saturation error. Local magnetic field too strong.
 - FAiL3: Mathematical fit error.
 - FAiL4: Calibration convergence error.
 - FAiL6: Orientations were wrong during the calibration.

If a "FAiL" message appears, press . The message "no" CAL" will be displayed allowing you to do a new calibration. See step # 3 [page 22](#). If the calibration fails, the previous calibration is restored.