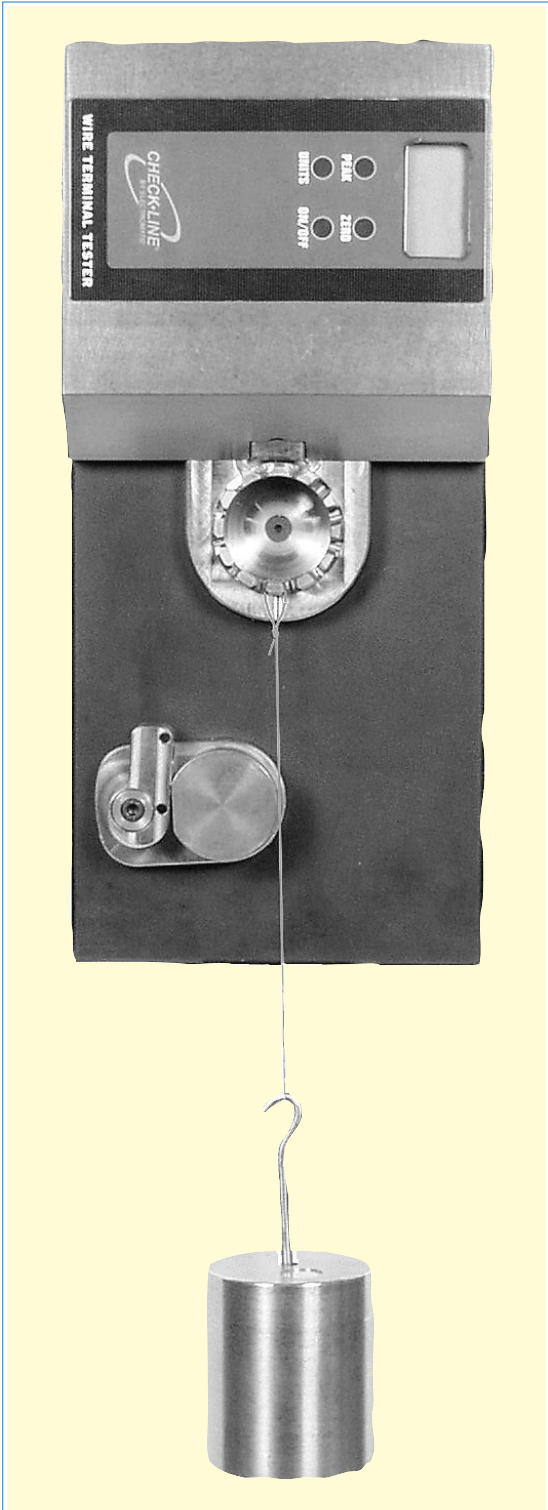


# WTT-110 CALIBRATION INSTRUCTIONS



The WTT-110 Pull Tester has been calibrated in accordance with factory procedures and is certified to perform within the stated accuracy specifications. Assuming the unit is handled with care and operated as detailed in this manual it should remain accurate for an extended time period. If however, it is subjected to forces that exceed its maximum range or if it is not properly cared for, it might need to be recalibrated.

It is recommended that the calibration is verified at least on an annual basis and more frequently if feasible. Normally, instruments of this type go out of tolerance from one day to the next and rarely on a regular periodic basis.

A calibration procedure is provided in this manual, however it should only be performed by individuals properly trained for this type of service and with the appropriate certified standards (known weights or secondary force measuring system such as a load cell, etc.).

## Re-Calibration Set-up

1. Remove the lever by unscrewing it in a counter-clockwise direction and move the Wire Clamp assembly out from the path of the hanging sample.
2. Position the WTT-110 in a vertical position so that the keypad & display are at the top (refer to photo). Be sure to secure it so it can not topple over when the weight is attached.
3. Using a heavy-duty monofilament (fishing line), wire or similar, suspend a 50 Kg weight from one of the teeth on the wire terminal fixture by hooking a loop of the material over the selected tooth.
4. Temporarily, remove the weight and follow the Re-Calibration Procedures shown on side 2.



***Make sure that the WTT-110 is well secured in the vertical position. Select a material that is strong enough to support 50 Kg of weight.***

## Re-Calibration Procedure



1. Turn POWER off. Make sure the weight is NOT suspended from the sample.
2. Press and hold the UNIT, PEAK and ZERO keys simultaneously.
3. Press and release the On/Off key (while continuing to press UNIT, PEAK and ZERO) until the smaller characters at the top of the display show CAL.
4. Release the UNITS, PEAK and ZERO keys.

CAL  
-00-

5. The force gauge is now in calibration mode.
6. Press the UNITS switch. The display will show ZER after blinking SCN for 10 seconds.

"SCN"  
-00- → ZER  
88888

7. The force gauge is now ready for zero point calibration.
8. Press ZERO key to confirm the zero calibration. Wait approximately 15–20 seconds. The display will change to show PEK after blinking SCN. Do not press any other keys or disturb the instrument or weight during calibration.

"SCN"  
88888 → PEK  
88888

9. Hang the 50 Kg calibration weight from the sample which is hooked on to one of the teeth of the Wire Terminal Fixture. Make sure that the material path is unobstructed and in a straight horizontal orientation. The force gauge is now ready for full-scale calibration.
10. Press the PEAK key to begin full scale calibration. The display will blink SCN. Do not press any other keys or touch the weight during calibration. After approximately 15– 20 seconds the display will blink END. Then after approximately 5 seconds the display blinks OK.

"SCN"  
88888 → "End"  
88888 → "oK"  
88888

11. If calibration was successful, the display will show OK momentarily (see above illustration). Press the UNITS key, then the power will automatically switch off.
12. If calibration was unsuccessful, the display will show ERR. Remove the calibration weight, then press the UNIT key and repeat the above procedure again.

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