HT-300 Calibration Procedure – Full Scale

Valid for units with serial numbers below 4500

PREPARATION

1.) Stand unit on it's right side, then remove both Jaws, Rubber Gasket and the Pedestal from the HT-300.

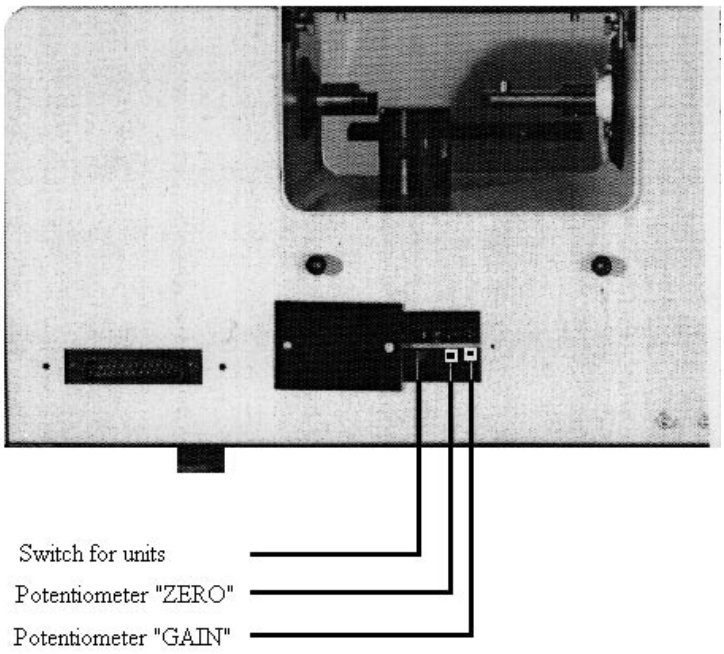
2.) Loosen the nut that holds the Pedestal Bolt in place, using a 10mm wrench, so that the Bolt can be moved out of the way. Next, move the Bolt as far in as possible, but do not let it fall into the machine.

3.) Remove the Isolation Cover and Mounting Bracket using a 7mm wrench.

CALIBRATION

1.) Apply power to the machine and turn it on. Next, enter Calibration Mode by pressing and holding STOP, then pressing START, then releasing both keys. A message will be printed on the printer “PTB-301 xx.xx”.

2.) Press the CLEAR key. A number will be printed on the printer. This number, known as the “Zero point” should be between 20 and 60. Ideally, the number should be 40 +/-2. If this number is out of tolerance, please adjust the potentiometer “Zero”, then press the CLEAR key and check the number printed. Continue this until the number is in tolerance. Shown below is a diagram of the potentiometer, it is located on the back of the machine, behind a small cover plate, where the broken tablet receptacle is mounted.



3.) Press the X,O key. This will “TARE” the unit. Nothing will print on the printer.

4.) Place the 10 Kg bar weight on the load cell of the HT-300, as shown below:

5.) Press the DATA key. A value (in Newtons) will be printed. This value should be 98 Newtons with a tolerance of +/-1 Newton.

6.) Remove the 10 Kg bar weight. Press the X,O key again.

7.) Place the 10 Kg bar weight on the load cell. Next, place the two (2) 5 Kg Cylinder Weights on the outer platforms of the 10 Kg bar weight, as shown below. *** NOTE**: be sure to place them on the platforms simultaneously, as twisting damage to the load cell will occur if weights are added to just one side.

8.) Press the DATA key .A value (in Newtons) will be printed. This value should be 196 Newtons with a tolerance of +/-2 Newtons.

9.) Remove the two (2) 5 Kg Cylinder Weights simultaneously and then remove the 10 Kg bar weight. Press the X,O key again.

10.) Place the 10 Kg bar weight on the load cell. Next, place the two (2) 10 Kg Cylinder Weights on the outer platforms of the 10 Kg bar weight, as shown below. *** NOTE**: be sure to place them on the platforms simultaneously, as twisting damage to the load cell will occur if weights are added to just one side.

11.) Press the DATA key .A value (in Newtons) will be printed. This value should be 294 Newtons with a tolerance of +/-3 Newtons. Remove the two (2) 10 Kg Cylinder Weights simultaneously and then remove the 10 Kg bar weight.

12.) If any of the Newton values printed on the above listed steps are found to be out of tolerance, please adjust the potentiometer marked “Gain”, as shown in Step 2 of the Calibration Procedure, then perform the calibration again, beginning with Step 3. If the values are found to be in tolerance, press the STOP key to exit Calibration Mode.

13.) Reassemble the machine.