

# **HT-300 Calibration Procedure – Full Scale**

Valid for units with serial numbers above 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 10 and 20. If it is not, please contact Key International for further instruction.
- 3.) Press the X,O key. The printer will print a list of new key functions.
- 4.) Place the 10 Kg bar weight on the load cell of the HT-300, as shown below:



- 5.) Press the START key. A value (in Newtons) will be printed. This value should be 98.1 Newtons with a tolerance of +/-1 Newton.
- 6.) 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.



- 7.) Press the START key .A value (in Newtons) will be printed. This value should be 196.2 Newtons with a tolerance of +/-2 Newtons.
- 8.) Remove the two 5 Kg Cylinder Weights, then 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.



- 9.) Press the START key .A value (in Newtons) will be printed. This value should be 294.2 Newtons with a tolerance of +/-3 Newtons. Remove the two (2) 10 Kg Cylinder Weights simultaneously and then remove the 10 Kg bar weight.
- 10.) If any of the above listed values is out of tolerance, please perform a new calibration by confirming that there are no weights on the load cell and press CLEAR. Next place the 10 Kg bar weight on the load cell and press the DATA key. Next, press the X,O key, this will cause the stored calibration values to be printed. Next, return to step 5 and repeat the process until the values are within tolerance.
- 11.) Reassemble the machine.