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ADDITIONAL INSTRUCTIONS FOR THE USE OF
STANTON PRECISION BALANCE - MODEL PT-CL4D

These instructions are to be used in conjunction with those issued for Stanton Precision Balance - Model CL4D.

Please read to the end of each paragraph before attempting to carry out any of the operations described.

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ASSEMBLY DETAILS

Set the weight loading dials to read:-

9 1 9 9

The weight loading hooks will all now be in the "Up" position. Next assemble the top bank of weights, these, in order from left to right:-

1g 1g 2g 5g 4g 10g 2g 2g

Tare weights

The weight carrier frame may now be assembled, as also may the pan-stop and pan. Attention may now be directed to the assembly of the fine tare control system. This is as follows:-

1. Ensure that the knife-edge at the rear, right hand side of the beam is clean. Ensure the cleanliness also of the "V" jewel in the associated stirrup, No. 6281. Fig. 'A'.
2. Refer to Fig. 'A' for the positioning of the components.
3. Fit one end of the tare spring to the lower connection between the two tensioning springs.
4. Fit the stirrup to the other end of the tare spring, taking care not to unduly twist the spring whilst fitting.
5. Carefully set the stirrup over the knife, and check that it is seating correctly.
6. Check the functioning of the tare system by operating the engraved knob on the right-hand side of the balance as though to adjust the tare setting, and determine that the spring length alters (it may be necessary to turn the control knob more than 1 turn to clearly observe this).

THE SYSTEM IS NOW READY FOR USE.

METHOD OF USE OF TARE (LIMITED TO 20G).

The tare should be used utilising the following procedure:-

1. Open the case slide, set the three weight loading dials and the "tare unit" dial to zero. Return the fine tare control knob to its stop in the direction '0' indicated by the arrow engraved on it, and set the digital to read 00.
2. Place the object to be tared out on the balance pan and close the case slide.
3. Set the balance to "pre-weigh" (action lever towards operator) and observe the reading (each division represents 1 gram).
4. Using the coarse tare knob (the yellow knob on the left-hand side of the balance) increase the value of applied tare units (extreme left-hand, red numbered dial) until the graticule indicates a "load" of between 0 and 2 grams.
5. Using the fine tare control, turn the knob in the direction indicated by the + arrow until the graticule indicates approximately 0.
6. Arrest the balance (release lever upright) and then move the lever to the "weigh" position (action lever away from operator).
7. Observe the graticule reading and by careful use of the fine tare control, zero the reading. Note that reversing the knob from either direction, will result in finer control of the graticule image. The object weight has now been eliminated and the balance is now ready for use.

GENERAL METHOD OF USE OF PRE-WEIGH

The pre-weigh should be used utilising the following procedure:-

1. Close the case slide and set the digital to read 00. Return the weight loading dials and the "tare units" dial to zero. Return the fine tare control to its stop in the direction of the arrow marked '0'.
 2. Set the balance to the "weigh" state, and zero the graticule using the fine tare control only.
 3. Arrest the balance and open the case slide.
 4. Place the object on the balance pan and close the case slide.
 5. Position release lever to the "pre-weigh" state, and observe the graticule reading (each division represents 1 gram).
 6. Dial the weight loading system (black numbered dials) to cause the indicated pre-weigh value to read zero or a little more (but less than 1 gram).
 7. Arrest the balance, and then position release lever to the "weigh" state.
 8. Utilize the digital unit to determine the accurate value of the object to the fourth decimal place.
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