

## CALIBRATING A BTP4000 WITH VERSION 6.xx SOFTWARE

During the life of your SPA Dynamometer it may be necessary to recalibrate it for any reason such as corrupt or lost files e.t.c.

The first process before calibration starts is to arrange the dynamometer into its 1 inch stroke position.

- 1) Click on Configure, click on System, Click on Dyno, Click on Single speed dyno, Tick the low speed option and enter a value of 10.00. Then click apply. Click ok to close the window.
- 2) Click on configure, click calibration, Re-calibrate and then select Motor Speed. The computer will now control the dyno and slowly ramp up its speed. When the motor speed calibration is completed the dyno will stop on its own.
- 3) Return to the calibration menu, click on velocity, click on the x1 option. A dialog box will appear asking you to set the stroke to 1 inch. Click Ok and the dyno will accelerate to a speed defined. A window will appear showing you the calibration taking place.
- 4) Return to the calibration menu, click position, click on the x4 option. A dialogue box will appear asking you to set the stroke to 1 inch. Click ok and the dyno will run. Another dialogue box will appear, wait for both values to steady and when done click ok/confirm.
- 5) You must now turn your dyno into the OFF position and change the stroke to 4 inches or its maximum setting.
- 6) Now your dyno is in the maximum stroke setting you must return to calibration menu, click on velocity, click on x0.25, a dialog box will appear asking you to enter the size of the stroke.
- 7) Return to the calibration menu, click position, click x1, the dyno will now accelerate to 1HZ. As before a dialogue box will appear. Wait for both values to steady and then click ok/confirm.
- 8) Return to the calibration menu, click on load cell, a dialog box appears containing the load cell calibration data. It asks you to input the mV/V reading from your load cell calibration sheet and its rating, e.g. 3.2213mv/V & 1500Kg.
- 10) This has now recalibrated your Benchtop dyno but it has not yet been saved. To do this you must go to calibration and click 'Save as' then enter a filename for your calibration and save the file. You are now ready to start using your dyno.