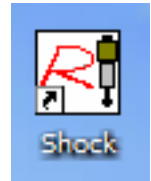


HOW TO TEST A SHOCK ON A ROEHRIG ENGINEERING DAMPER DYNO

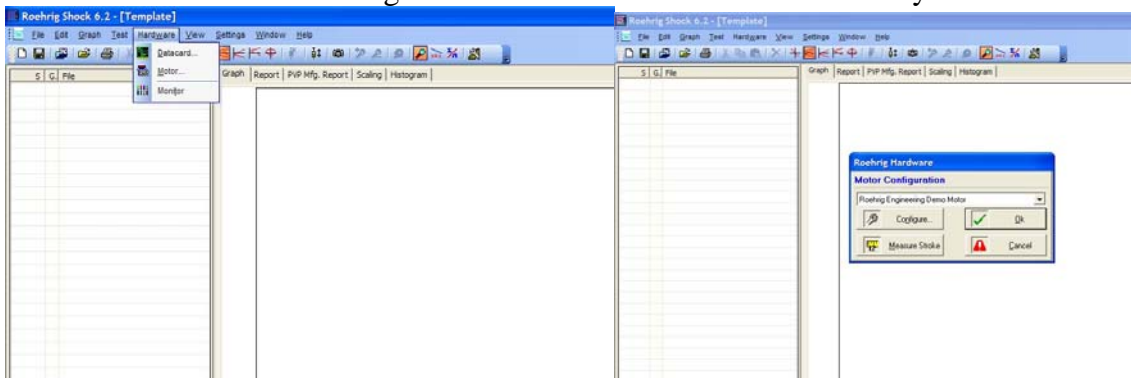
1. Ensure that all power to your Roehrig damper dynamometer is turned on. This includes both the 220 or 380 volt power for the motor/inverter, and the 110 or 220 volt power for the electronics.



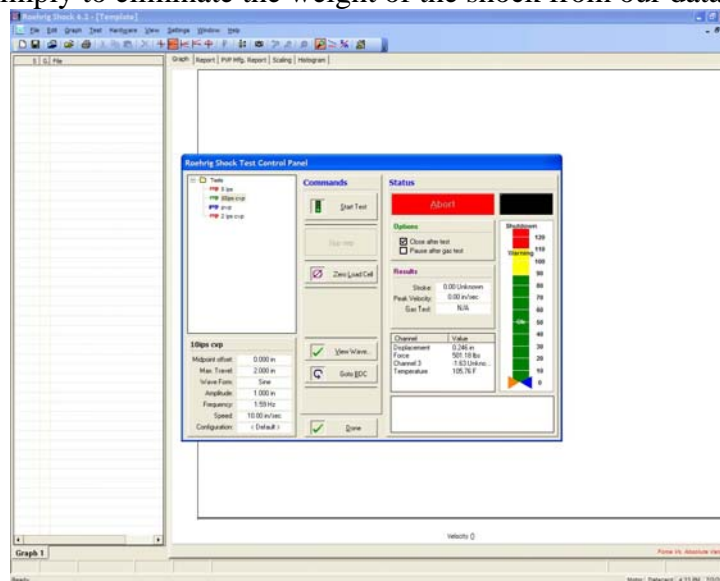
After confirming this, open the Shock program and select 'Perform Test'.

Shock Icon

2. Since this is the first time you have used the dyno, you need to "Measure Stroke" so that the computer and the dyno are in sync. This assumes that you have used the quick start manual to load the software and get communication with the motor already.

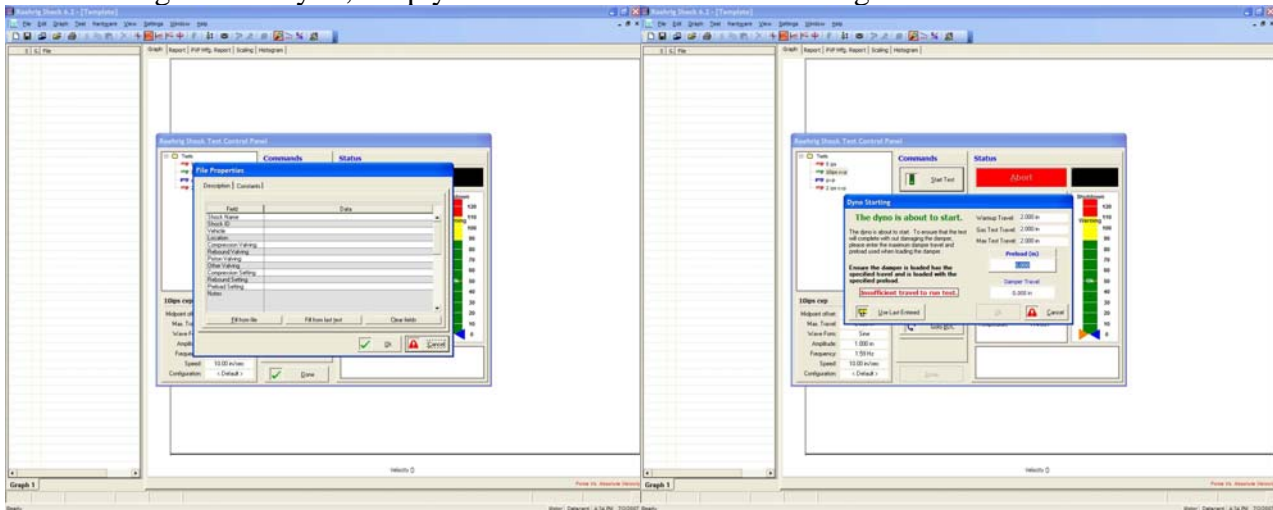


3. First we must connect the desired shock to be tested, to the upper clevis using supplied clevis handles. Do not connect the shock to the lower clevis; at this point we just want to let it hang at full extension from the load cell.
4. On the 'Perform Test' window of the Shock program, click on 'Zero Load'. We do this with the shock hanging, simply to eliminate the weight of the shock from our data.



Test Control Panel

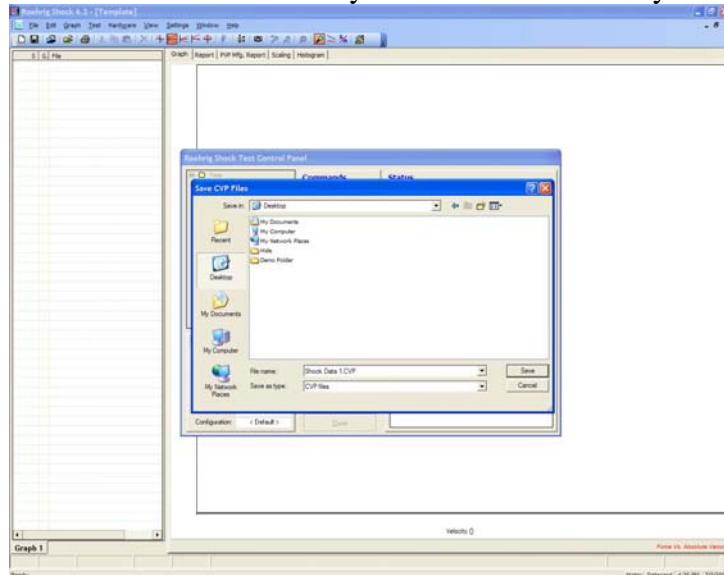
- Now connect the shock to the bottom clevis, leaving the crossbar loose. Tighten the shock in the clevis' by turning the upper counter-clockwise and the lower clockwise, until tight.
- Make sure the dyno's actuator shaft is at bottom dead center and the shock is at full extension. Once this has been verified, preload the damper (an amount that you've determined to be proper for your testing needs) by pulling down on the crossbar to compress the shock. Once desired preload is met, tighten the crossbar by turning the crossbar handles.
- In your test window legend, highlight the test that you wish to perform and select 'Start Test'. Enter any information you wish in the 'File Properties' window and select 'OK'. At the 'Dyno Starting' window, you do not have to enter any values for 'Preload' or 'Damper Travel' when using a crank dyno; simply select 'OK' and the test will begin.



Notes Page for the Test

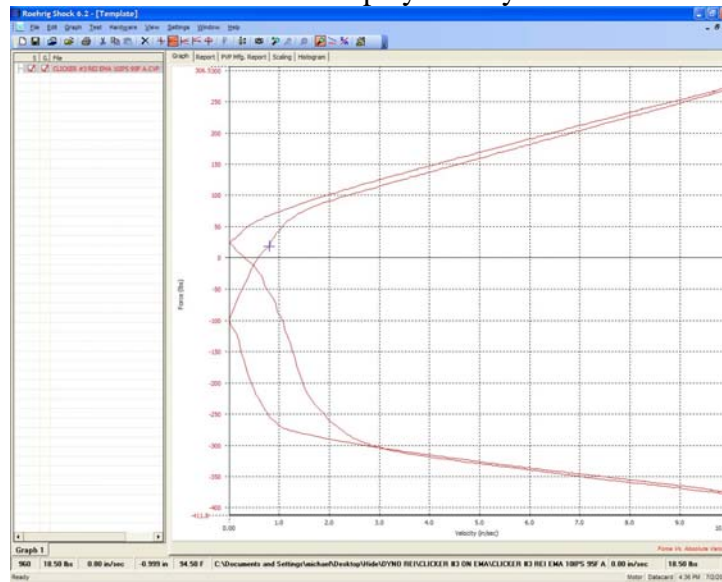
Dyno is about to start screen

- When the test is completed the dyno will return to bottom dead center and stop. The 'Save File' window will appear. Label the 'File Name' whatever you wish, and be sure that the 'Save In' option has the correct folder listed in which you would like to store your data file. Click 'Save'.



Save as screen

9. The graph of your tested shock will now be displayed for your review and analysis.



Collected Graph