Maxwell Shock Dyno Software Quick Start Guide



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You can find the complete software manual, Maxwell.pdf, at www.maxwellindustries.com/software/Maxwell.pdf.

Software Installation

Computer Requirements

Laptop or desktop, 1.0 GHz processor, 256 Mbytes RAM, 1 powered USB port, CD ROM drive, using Windows 2000 Service Pack 3, XP or Vista operating system.

1 install CD is included with the Maxwell Shock Dyno. The latest version of the software can be found at www.maxwellindustries.com/software.

Install the Maxwell Shock Dyno software

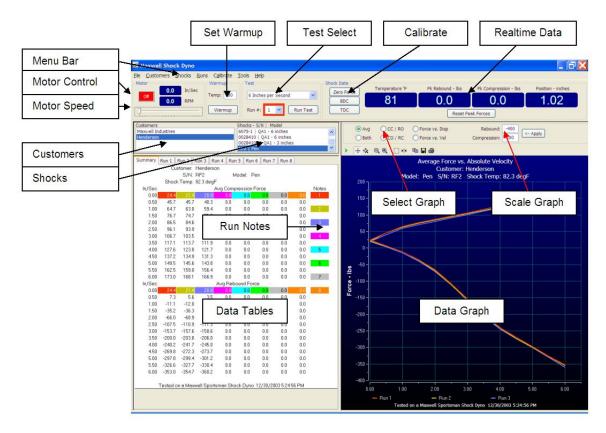
- 1. Insert the Maxwell Shock Dyno CD into the CD ROM drive.
- 2. The CD install software should start up automatically. If not, browse the CD and double-click the file, SETUP.EXE (file path on most computers will be D:\SETUP.EXE).
- 3. Follow the instructions as Setup prompts you.
- 4. After Setup is complete, restart your computer.

Connecting to the Maxwell Shock Dyno

1. Plug in the USB cable from the shock dyno to your computer and turn on power to the dyno. Current production 2HP shock dynos have a white power switch embossed with a 1 and a 0. When the 1 is down and the 0 is facing you, the power is on.

Double-click on the Maxwell icon that appears on the desktop. The Maxwell software will attempt to communicate with the shock dyno (if communication fails, the Realtime Data meters on the main screen will display: I/O Box is down. No data available). The software will start up and the main screen will be displayed.

The Main Screen

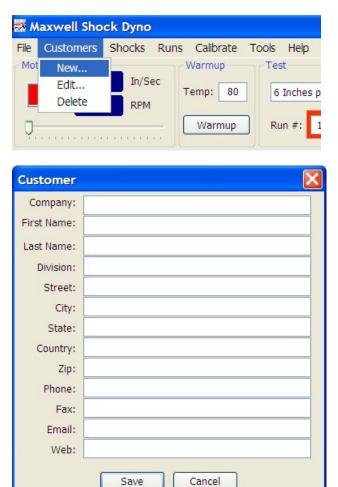


All major functions and data views are accessible in the Main Screen. Features include:

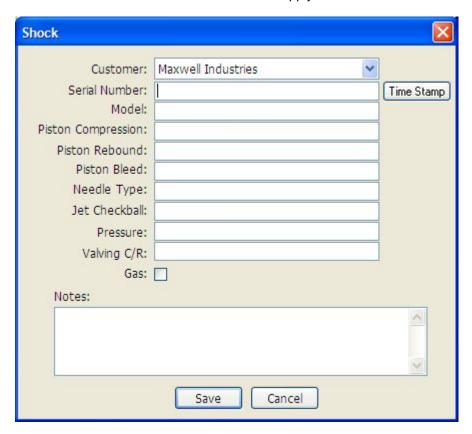
- Menu bar access for printing tables and graphs, editing customers and shocks, calibrating the position sensor, zeroing the load cell, indexing to top or bottom dead center, and online help.
- Motor control To enable the shock dyno motor, control speed for peak force readings (click and drag the Speed Slider to go to any speed you desire), and view speed (in crank rpm and peak velocity).
- Set Warmup Allows you to enter a target warmup temperature and run the warmup sequence at the selected speed (default is 12 ips).
- Test Select To select the 3, 5, 6, 10 or 12 inch per second (ips) tests, and select a
 desired run number.
- Data Table 8 test runs displayed simultaneously against velocity for easy comparison.
- Run Notes Allows custom notes for each run. Click on the colored run number and enter your notes in the pop up dialog box.
- Data Graph Graph presentation of data in the Data Table.
- Select Graph Click on the checkbox next to each graph description and see your data displayed in the corresponding graph format.
- Scale Graph Type in the desired force min and max values then click the Apply button
 to change graph Y axis scaling. (The program defaults to Auto Scaling, so the Scale
 Graph boxes will be disabled. To change settings, go to the *Tools\Options* menu)

Add a customer and shock then start testing.

From the menu bar, select *Customers* Wew. The customer dialog box will be displayed as shown below. Fill in the customer info as desired and click the "Save" button to save the customer info. (The only required field is 'Company:')



Next, the shock dialog box will be displayed. Fill in the shock info as desired and click the "Save" button to save the shock info. You must supply a Serial Number.



You're ready to test a shock! Before you mount the shock, click the Zero Force button to the left of the meters then from the menu bar select *Calibrate\Position Sensor*. Mount the shock, pick the 6 inches per second test from the Test pull-down and press the 'Run Test' button. The shock will cycle up and down several times then the results will be displayed on the screen.

It is advised, the every time you power the dyno on that you should calibrate the position sensor and zero the force without a shock mounted. You can access these functions from the 'Calibrate' menu.