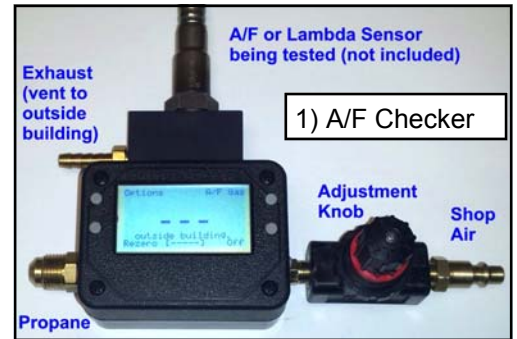# 2015: Latest News

**Motorhead Garage** TV show had us come in and demo 4 our products: our Cam Test Stand and Automatic Valve Spring Checker for testing cams and springs before an engine build, and our Quick Cam Checker and Automatic On-Head Valve Seat Pressure checker for making checks on an engine in the vehicle. Visit our website for links to see the 5 minute spot.

**A/F Checker** lets you check you're A/F measurement system from end to end for accuracy. You provide shop air and propane from a BBQ tank, it tells you the A/F of the mixture and you see if you're A/F says the same thing. Fig 1.

1) A/F Checker

**On Head Valve Spring Seat Pressure Checker** lets you check seated valve spring force (pressure) automatically. This is an industry first, and lets most anyone measure a spring and come up with the same number. It also lets you measure a spring manually, with resolution to 0.1 lbs and has many additional advanced features. Fig 2.
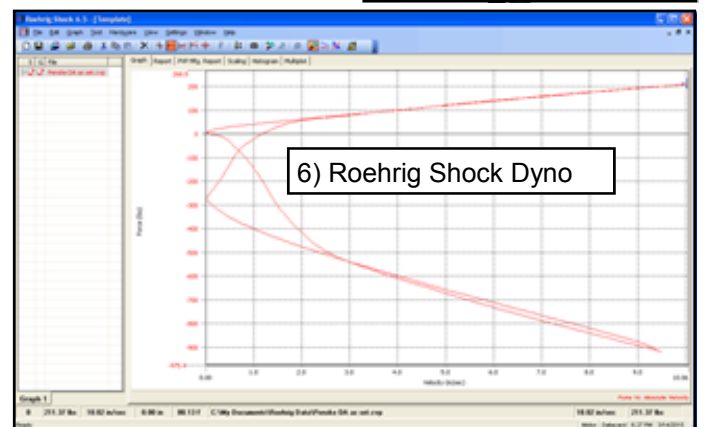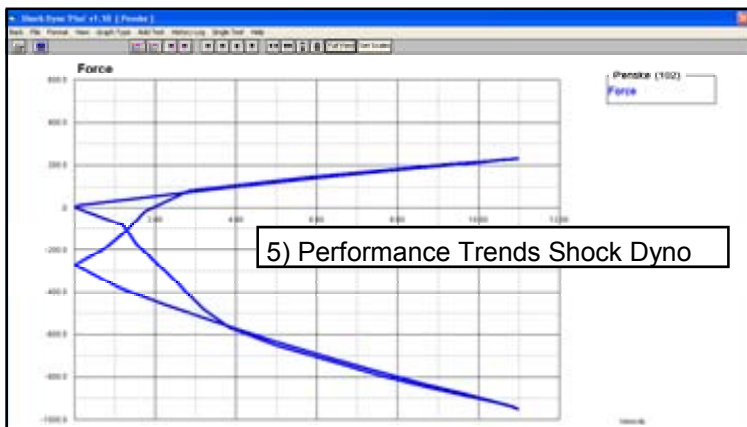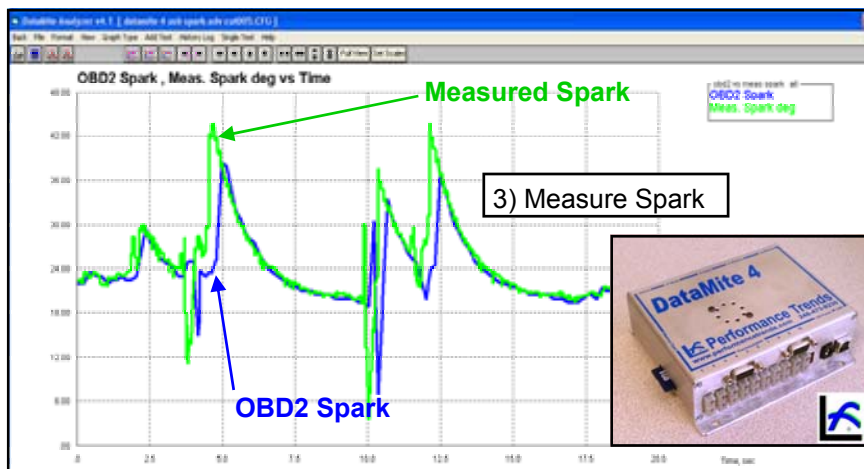
**Dyno DataMite 4** now has the ability to measure Spark Advance during the dyno run. This is very useful to spot problems with the ignition system and solve potential detonation/pre-ignition problems. Fig 3.

**Dyno Controllers** have had some enhancements added, which include:

- Combining the LCD display, controller board, and adjustment knob into one "hand held" controller. Control also includes switch to start dyno test & data recording. Fig 4.
- Allowing for the display to update while still maintaining complete control of the dyno.
- A selectable "manual" mode for the Eddy Current control, so the control knob simply adjusts the power absorption from 0 to 100%. The "automatic" mode for the Eddy Current control feeds back on RPM.

2) Spring Checker

**Shock Dyno** continues to have refinements. We made some comparison runs on 2 shocks between a Roehrig ᵗᵐ dyno and our dyno. Our dyno match the Roehrig ᵗᵐ results very closely. Fig 5 & 6.

3) Measure Spark

4) Hand Held Controller

5) Performance Trends Shock Dyno

6) Roehrig Shock Dyno

**Valve Spring Tester v1.1 B** is a new update to our Valve Spring Tester software. It works with our manual and automatic (pneumatic) spring testers, and has several new features. A major new feature is automatically finding shim values to produce a user defined Seated Force, but still allowing for enough clearance to not encounter bind.

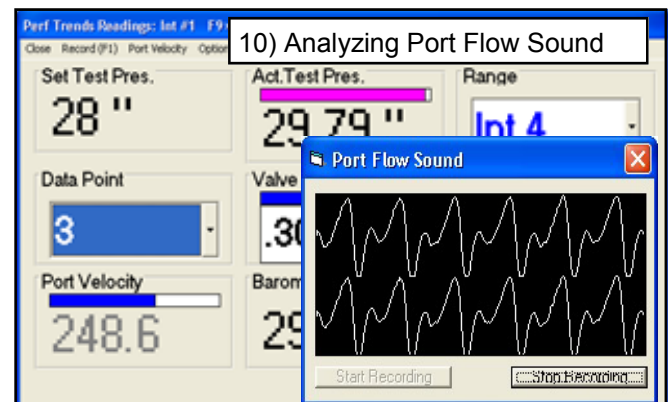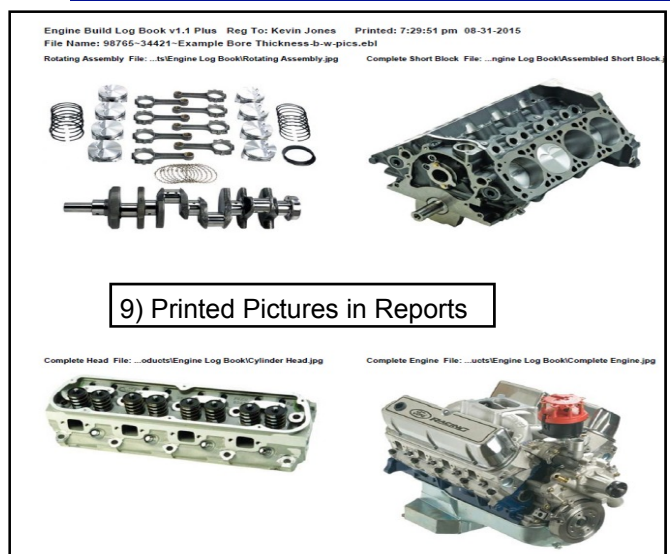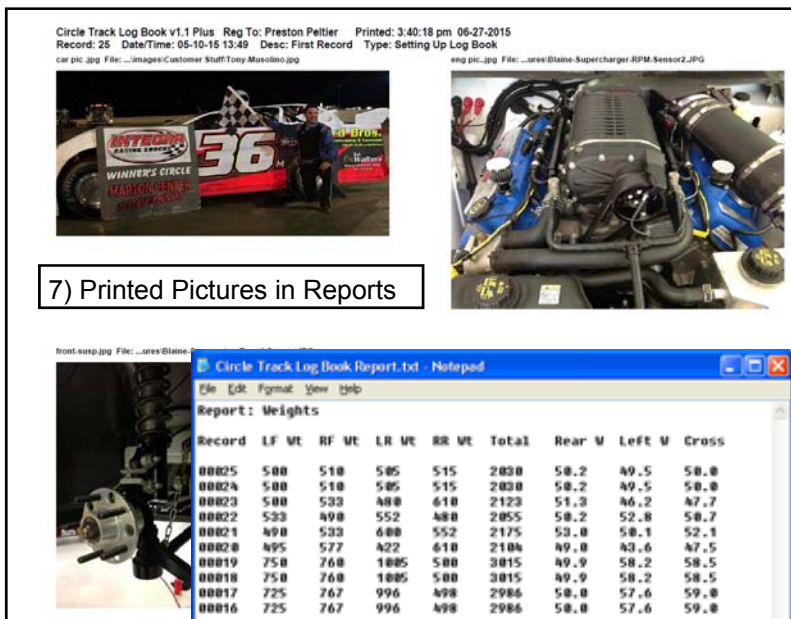**Circle Track Log Book Plus** enhanced version was released. Major enhancements include:

- Lap Time features lets you keep track of individual lap times, and do comparison analysis. You can also communicate with our Lap Segment Timer program to import those detailed lap times.

- Keep records for up to 10 different cars with the 1 program.

- Keep detailed records on certain components which are likely to need maintenance or replacement at intervals you can specify.

- Assign up to 36 User Defined entries to keep records of picture .jpg files to keep track of modifications, trophy pics, etc. for saving with each record and printing. Fig 7.

- Create reports of of up to 8 different data fields. You can also save these Report Formats for easily creating reports in the future. They are written to a .txt file and exported to Notepad for printing, saving, or importing into other computer programs. Fig 8.

**Engine Build Log Book Plus** enhanced version was released. Major enhancements include:

- Adding picture files to your data files for saving and printing. Fig 9

- Allow editing of data with drop down lists of options.

- Allow saving and opening of customer info, which can repeat often for different records.

- Numbers for your data entries can be included in the graphs of Bore Thickness and Bore Dimensions

**Other Products** have been updated, including:

- The Road Race DataMite now has features using GPS to measure distance and velocity for Tractor Pull runs, letting you watch tire slip.

- Drag Race Pro now has features specifically for Bonneville Land Speed Record racing, like letting you change aerodynamics during the run, reporting Avg MPH and elapsed time like the lights at Bonneville, and optimizing things like gearing for the 6 mile Bonneville runs.

- Fuel Economy Calculator now has a "real world" mode for more realistic MPG predictions, instead of the perfect "laboratory" predictions.

- Spring Wiz better warns of bind conditions, and automatically shows Max Lift of spring files when you pick them.

- Port Flow "Head Porter" version soon will allow for recording and analyzing port flow sound. Fig 10.

- Many of our products have movies showing them in action. Visit our website for more details on all these products.


7) Printed Pictures in Reports


8) User Defined Reports


9) Printed Pictures in Reports


10) Analyzing Port Flow Sound

Watch our website and get on our newsletter mailing list for info on new products.