## **PRI 2005: Latest News**



## New and Updated Software

**Engine Build Log Book** was released back in June, 2005. This program is truly a "must have" for any engine builder. It lets you keep track of all those engine build dimensions, part numbers, measurements, and even calculations like clearances, compression ratio, piston-to-valve clearance and much more. Whether its just for a cylinder head, rotating assembly, or machined block, or a complete engine with dyno data, leakdown and compression, the program can adapt to your needs. Customers have made several suggestions for improvements, like allowing for more measurements for individual parts. You can just enter one cylinder bore and piston skirt diameter, and calculate one

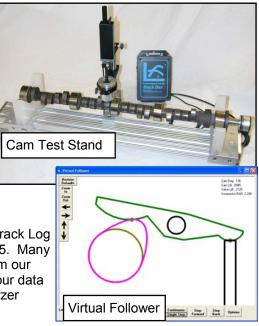
	Engine Build Log Book - Performance Trends Inc. [ 3565~14572~Example w Bore Th	Engine Build Log Book
	ile Ealt Options Preferences Help Reg 10: Kevin Gertgen	
	Complete Head Complete Engine Ignition/Fuel/Dyno	Engine Math
	Customer/Basic Info Rotating Assembly Machined Block/Short Block	k Complete Short Block
Cyl 8	Main Journal Size     2.249-2.251     Balancing     Intern     Rod #     rod 123     W       Wt. Sm End, gms     205     Total Wt, gms     805     Rod Length, in     6     Pin Type     Floating	
		Piston # p 123
Portion of Bore Thickness	Piston Pin Bore 1.03 Piston-Pin Clearance 0299-8201 Piston Gas Ports No	Disabled fields
(sonic check) Graph	Int Fly Cut .33 Exh .44 Piston Wt, gms 450 Pin Wt gms 55 Piston Comp H	
	Piston Top Dome  Dome, ccs 4 Piston Skirt Dia 3.996-4.0002	
	Piston Top Dia 3.95 Rings # rings 123 Ring Wt, gms 11 Ring Tension Star	other inputs.
	Depth to Top of Ring 24 Ring Thickness, Top .088 Second .089 Dil .104	Rod Brg # [rb123
	Rod Brg Clearance 0.03 Rod Brg Wt, gms 14 0il Wt, gms 6 Bob Wt, gm	
	Rod Bolt Torque 55-69 Rod Bolt Stretch .002.004 Rod Bolt Size .375	fallen outside of
	Technician jacob 🖌 Add	your limits.
Cyl 8	Names written in blue can have inputs	Blue fields indicate nultiple entries, with the ange of entries shown.
	Bak M/ Even E. Jak Open Carina III Even 155. Eve Open Carina III Even 100 -	
	Bob Wt Error 5, Int Open Spring Ht Error .155, Exh Open Spring Ht Error .166 Comments In House' Comments	binations which do not
		up" (on any input
Portion of Bore Out-of-		
Round and Taper Graph		en) are listed here

clearance, or you can enter all bores at different depths and orientations, all piston skirt diameters and calculate max and min clearance for all cylinders.

**Cam Analyzer Updates** have been released to take advantage of the new Cam Test Stand. You can accurately measure all 16 lobes on a V-8 cam in 5 minutes. One major new feature (not yet released) is the Virtual Follower, which lets you measure most any cam and then simulate 4 different follower types (2 are OHC types) to get the actual tappet or valve lift curve.

**Circle Track Analyzer v3.5 Update** to our popular v3.2 has been released as a preliminary "beta" version. It includes some new features to automatically find a "balanced" configuration, new options for adjusting corner weights, new graph/report options, new calculations like front tire scrub, Symmetric, Angled 4 Link rear suspension option, and much more.

**Other New and Updated Programs coming** include our new Circle Track Log Book, major updates to Suspension Analyzer v2.0 and Engine Analyzer Pro v3.5. Many of our other programs have had minor updates, most are free as downloads from our website, including: Dyno DataMite, Road Race/Circle Track DataMite (both for our data loggers), Practice Tree, Fuel Injector Calculator, Engine Analyzer, Engine Analyzer



Plus, and Drag Racing Analyzer.

## Data Loggers and Sensors

## Black Box II and DataMite II software has

been refined to make recording both faster and more reliable for dyno, flow bench, weather station and valve spring testing. We've also added new sensors for both data loggers, including a

Find Front Lat Load Dist Cir	cle Track Analyzer v3.5	
Current Rear Roll Center Ht 10 New Front Lat Load Dist 50	Suspension Specs       Type     Symetric Angled 4 Link       Spring Rates, Ib/in     Clo       200     200       Tire to Centerline, in     30.0       Spring to Centerline, in     17       Spring Angle, deg     0       O     0	Left Side Top View Right Side
New Rear Roll Center Ht 14	Axle to Front Pivot, in         11.5         19           Axle to Rear Pivot, in         1         0	Wheel Rates Wheel Rates Bump = 200 Rear View Bump = 200 Roll = 113 Roll = 113
Options Adjust Rear Roll Cent	4         Link Side View         Front of car           To CL Ht         To CL Ht         Front of car           8         13.5         16.5         E           17         8.5         0         0           Help         Find on parene button to pick a Tunical Example         Click on down parene button to pick a Tunical Example	
For This FLLD 50 Find Front/Rear Bala	Symmetric Angled 4 Lin	

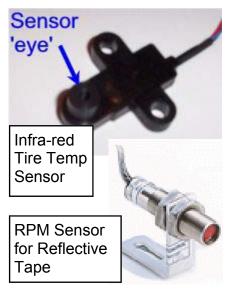
🚈 A/F Data Logger - I

new RPM optical sensor and infra red tire temperature sensor.

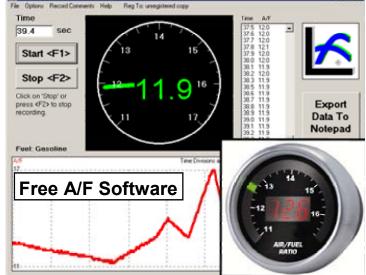
**A/F Gauge** has been introduced which displays A/F directly on the gauge (no computer needed). It can also be connected to a computer (laptop in a vehicle) to record A/F continuously via the COM serial port or USB port via an adapter with our **FREE software**. The gauge also has a 0-5 and 0-1 volt output for recording with our Black Box and DataMite data loggers, or for EFI controllers. This is truly a versatile instrument, and to top it off, it has just been reduced in price to **\$329** from \$419.

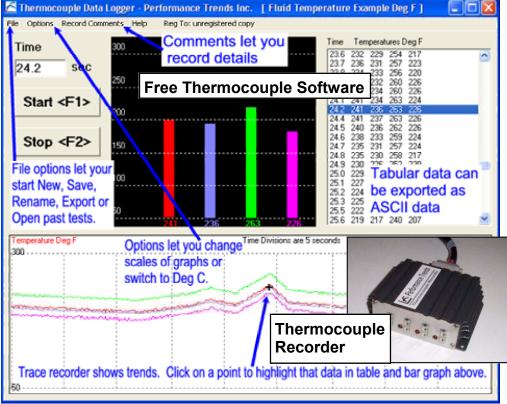
**Thermocouple Recorder** has been introduced which connects to a computer (laptop in a vehicle) to record up to 4 temperatures continuously via the COM serial port or USB port via an adapter with our **FREE software**. Used with our Dual USB adapter and you can **record 8** 

**temperatures**, like exhaust gas temps, for **under \$850** with your type K thermocouples. It can also be used as a thermocouple signal conditioner (amp), to convert 4 0-5 volt channels in a Black Box II or DataMite II to thermocouple channels.



(C) 2005, Performance Trends Inc. www.performancetrends.com





Box 530164, Livonia, MI 48153 248-473-9230 feedback@performancetrends.com Performance Trends reserves the right to change or discontinue any product at any time.