

TECHNICIAN TRAINING
BY DORMAN PRODUCTS

DORMAN®

Training Center
Presents:

"Mastering Generic Scan Data"

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DORMAN®

Aftermarket **Innovators**

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Your Instructor For This Webinar

"G" Jerry Truglia

- National Trainer, ASE World Class, Master Auto, Truck, School Bus, L1, L3, CNG and...
- **ATTP Master Instructor, New York State, CT and New Jersey**
- STS (Service Technician Society) 2003 President
- **TST (Technicians Service Training) Founder and President**
- Author / Co Author/ Technical adviser on 25 plus books including OBD II and Mode 6, and Understanding and Diagnosing Hybrid Vehicles
- **Published articles for multiple newsletters, and magazines**
- Picked as one of the Top Instructors in the country by EPA & SAE
- **Numerous Radio, TV, Internet, and SAE Video appearances**
- PTEN, MotorAge and TST Webcast Instructor
- **Motor Magazine Top 20 award winner**
- Provider of OBD II Training for 14 states, Ontario Canada and the US EPA
- **Guest speaker at SAE Congress, IM Solutions and Clean Air Conference**

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What Will Be Covered:

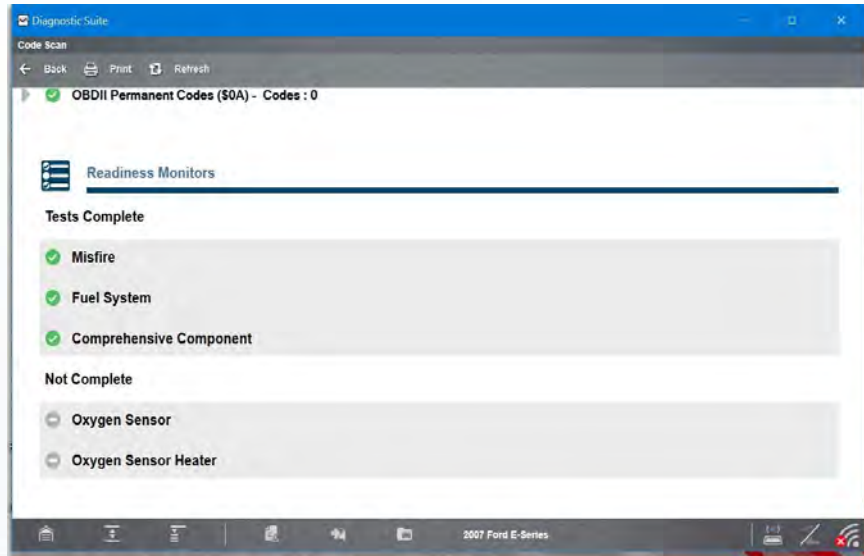
- Using the scan tool and scan data to diagnosis vehicle problems.
- **And More...**



Innova Smart Diagnostic System

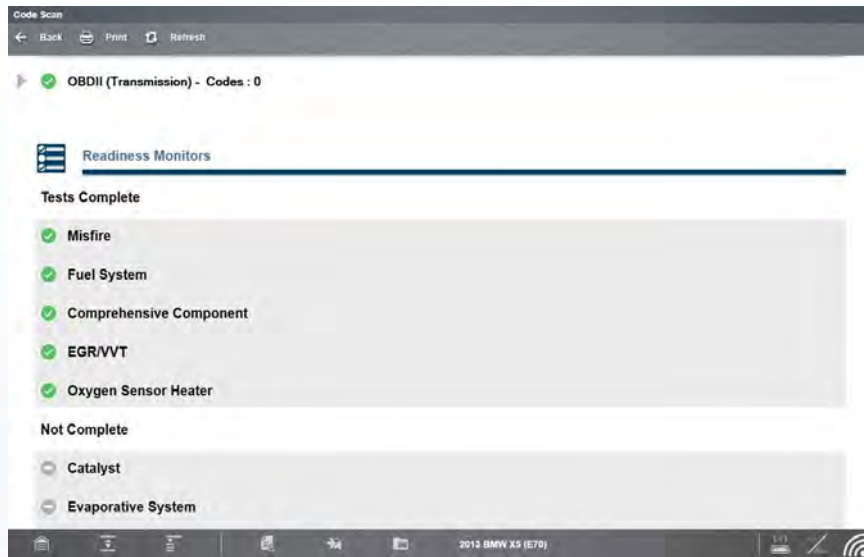
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OBD II Monitors



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OBD II Monitors



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OBD II Monitors

The screenshot displays the 'Monitors' tab in the Escan software. The interface includes a left-hand navigation menu with buttons for 'RICH', 'LEAN', 'CENTER', 'CONTROL', 'FUEL', 'TOTAL', 'Bank to Bank', 'Time to Engine', 'Engine Vacuum', and 'Charging Voltage'. The main area shows 'O2 Sensors Present' for Bank 1 and Bank 2, with a 'Read Everything Once (also done at startup)' button. Below this is a 'Reading Monitors/MS/DTCS' graph showing a red line at the top and several yellow bars below. A legend on the right lists various monitors with their completion status, such as 'Maf Monitor Complete' and 'Fuel System Monitor Complete'. The bottom right corner shows 'Number of DTCs: 1' and 'Number of Points displayed on Graph: 100'.

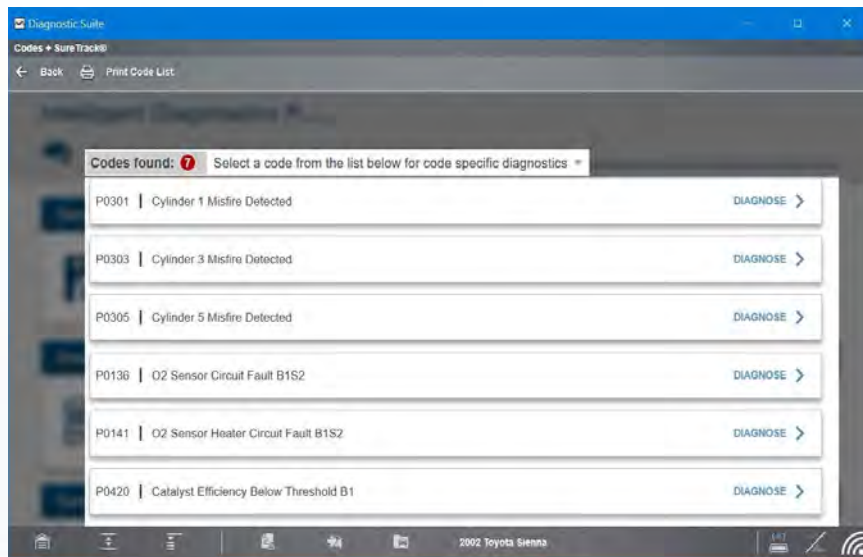
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Scan Data DTCs

The screenshot shows a mobile application interface for 'Codes + SureTrack®'. It features a 'Back' button and a 'Print Code List' option. A notification states 'Codes found: 1' and prompts the user to 'Select a code from the list below for code specific diagnostics'. A list of codes is shown, with 'Engine' selected. The specific code 'P0138 | 1/2 O2 Sensor Shorted to Voltage' is highlighted, with a 'DIAGNOSE >' button next to it. The background shows a blurred graph of scan data. The bottom status bar indicates '2002 Jeep Wrangler'.

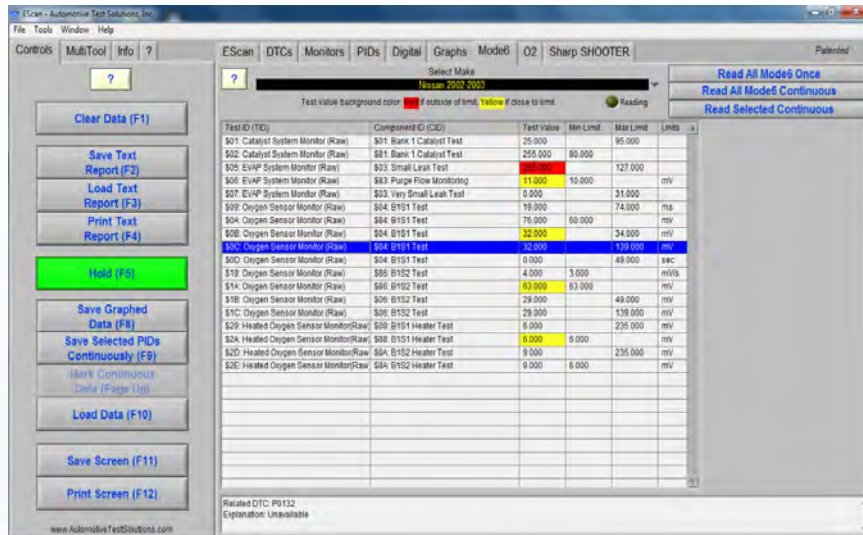
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Scan Data DTCs



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Mode 6 Early OBD II Vehicle



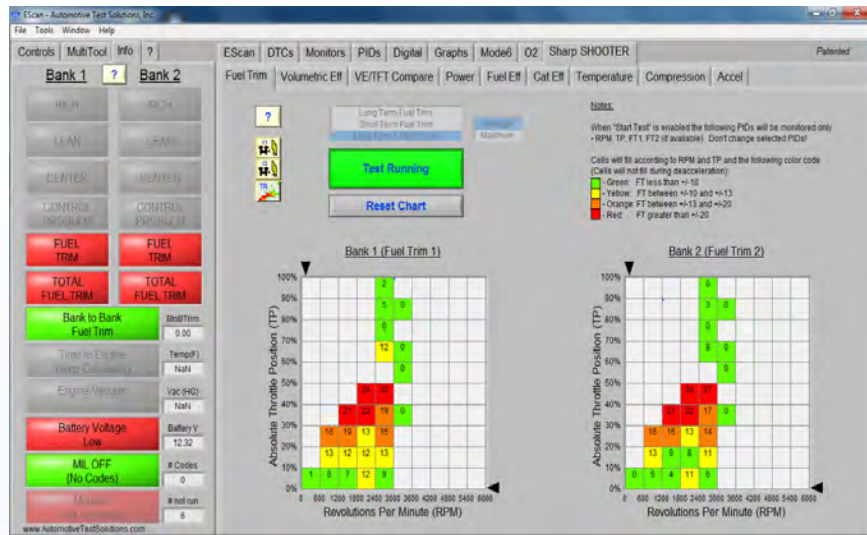
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Generic Mode 6 Catalyst



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Fuel Trim Failure Resulting In P0420



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Results Of Mode 6 Failure



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Good Air Fuel & Rear O2 Converter Readings



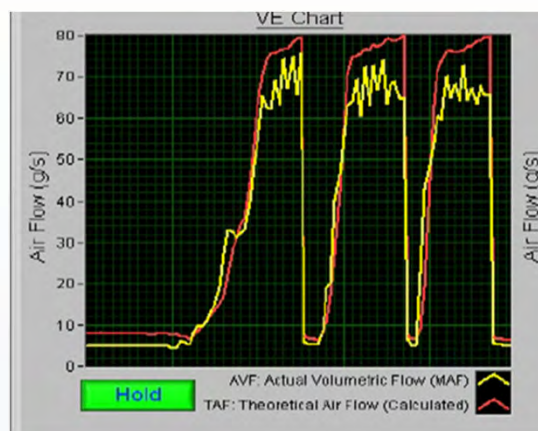
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Calculated Load / VE Test



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VE Test



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2017 Chevy Cruze

The screenshot shows a diagnostic tool interface for a 2017 Chevy Cruze. The interface is divided into several sections:

- Left Panel:** Contains various control buttons for engine management, including 'RICH', 'LEAN', 'CENTER', 'CONTROL PROBLEM', 'FUEL TRIM', 'TOTAL FUEL TRIM', 'BARO Measuring', 'Battery Voltage Low', 'MIL OFF (No Codes)', and 'Monitor's Complete'.
- Central Panel:** Features a 'Read DTC & Pending Codes' button, a 'Clear DTCs' button, and a 'Read Freeze Frame Data' button. It also displays 'DTC (not Causd) Freeze Frame Storage #0: P0304'.
- Right Panel:** Displays a list of DTC codes and their descriptions:
 - P0299: Turbo/super charger-low boost. Probable Cause: Mechanical fault.
 - P0304: Cylinder 4 -misfire detected. Probable Cause: Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM.
 Below this is a table of supported PIDs:

Supported PIDs	Address	Data	Units
P0304 DTC caused Freeze Frame Storage #0:			
Calculated Load	LOAD_PCT	30.1961	%
Engine Coolant Temperature	ECT	185.0000	Deg F
Short Term Fuel Trim Bank 1	SHRTFT1	1.5625	%
Long Term Fuel Trim Bank 1	LONGFT1	0.3750	%
Fuel Rail Pressure (Gauge)	FRP	116.7166	HG
Intake Manifold Absolute Pressure	MAP	0.1543	HG
Engine RPM	RPM	659.7500	RPM
Vehicle Speed Sensor	VSS	0.0000	mph
Ignition Timing Advance for #1 Cylinder	SPARKADV	2.5000	deg
Intake Air Temperature	IAT	86.0000	Deg F
Air Flow Rate from Mass Air Flow Sensor	MAF_gls	3.3700	g/s
Air Flow Rate from Mass Air Flow Sensor	MAF_ltr/m	0.4448	ltr/m
Absolute Throttle Position	TP	22.7451	%
O2 Bank 1 - Sensor 1	O2B1S1	0.7450	V
O2 Bank 1 - Sensor 1	FTB1S1	1.5625	%
O2 Bank 1 - Sensor 2	O2B1S2	0.9000	V
O2 Bank 1 - Sensor 2	FTB1S2	0.92187	%
Time Since Engine Start	RUNTIME	82.0000	s
Fuel Rail Pressure	FRP	1487.1684	HG
Compression Ratio	COMP_RATIO	9.7000	ML

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2017 Chevy Cruze Test The Basics

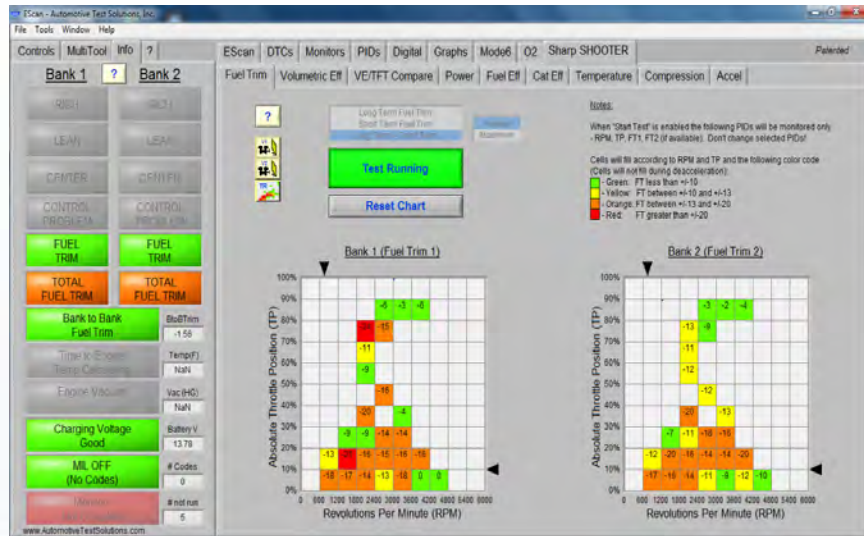
The screenshot shows a diagnostic tool interface for a 2017 Chevy Cruze, specifically the 'Relative Compression Test' section. The interface includes:

- Left Panel:** Similar to the previous screenshot, with control buttons for engine management.
- Central Panel:** Features a 'Show Setup?' button and a 'Start Test' button. It displays 'Minimum Battery V: 11.2' and '# of Cylinders: 4'.
- Right Panel:** Displays a 'Relative Compression Test' graph showing a series of vertical bars representing compression for each cylinder. Below the graph is a 'Detailed Efficiency' table:

Cylinder	Efficiency
Cyl A Avg Eff.:	94
Cyl B Avg Eff.:	100
Cyl C Avg Eff.:	100
Cyl D Avg Eff.:	100
Cyl A Eff.:	100
Cyl B Eff.:	92
Cyl C Eff.:	90
Cyl D Eff.:	100
Cyl A Eff.:	100
Cyl B Eff.:	100
Cyl C Eff.:	100
Cyl D Eff.:	100
Cyl A Eff.:	100

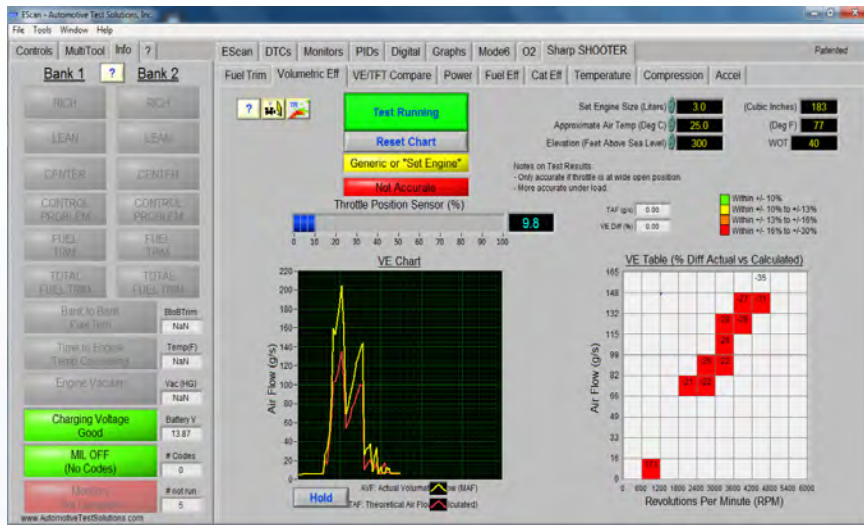
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2019 Hyundai Santa Fe Fuel Trim



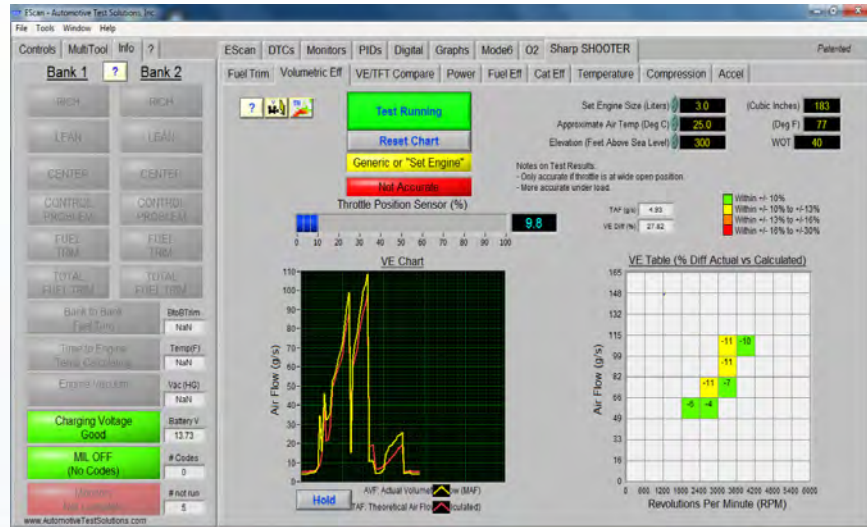
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2019 Hyundai Santa Fe VE Test



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2019 Hyundai Santa Fe VE Test After



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2019 Hyundai Santa Fe Converter Test



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2019 Hyundai Santa Fe Converter Test



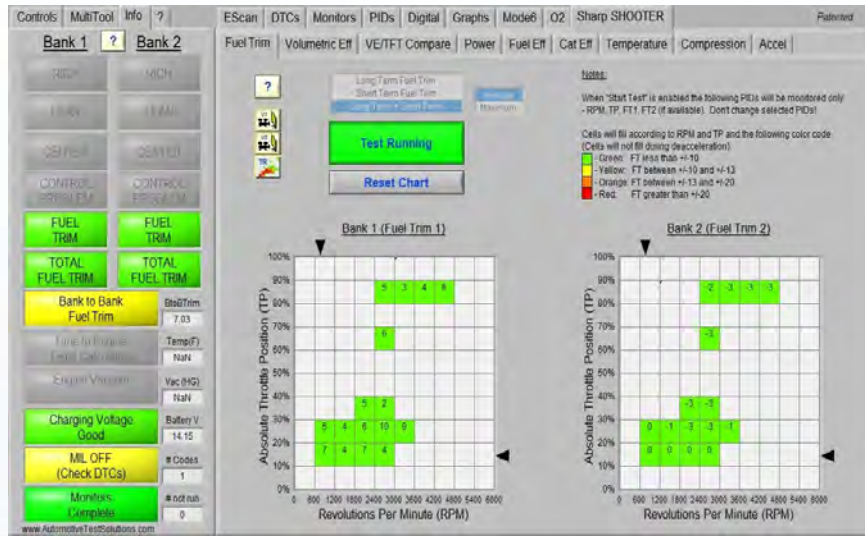
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2019 Hyundai Santa Fe Converter Test



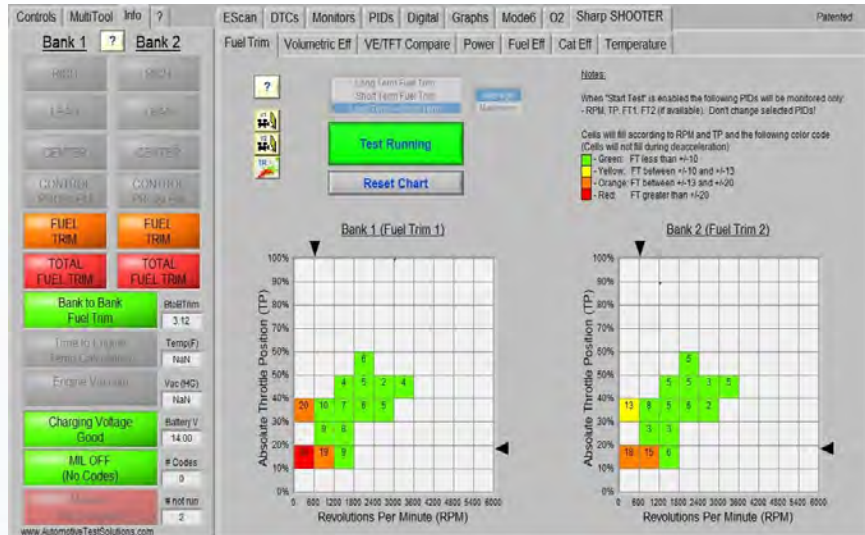
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2019 Hyundai Santa Fe After Repair



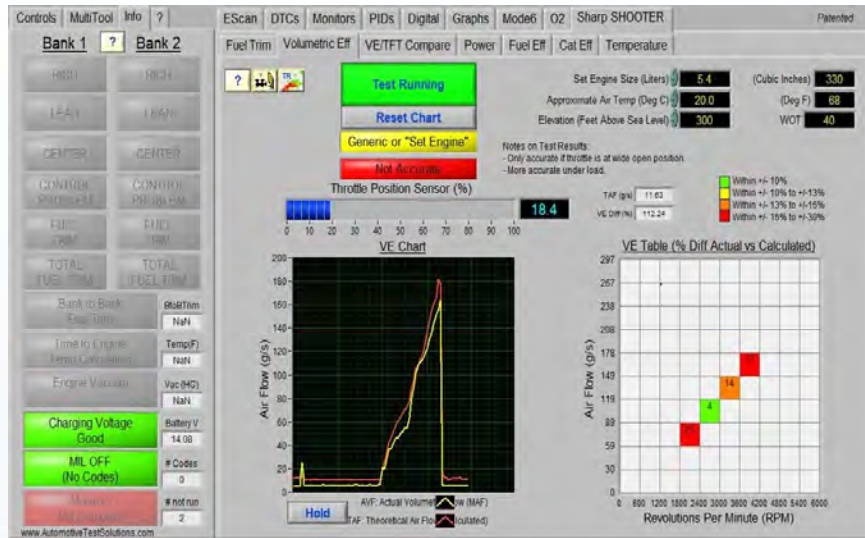
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2019 Ford Mustang



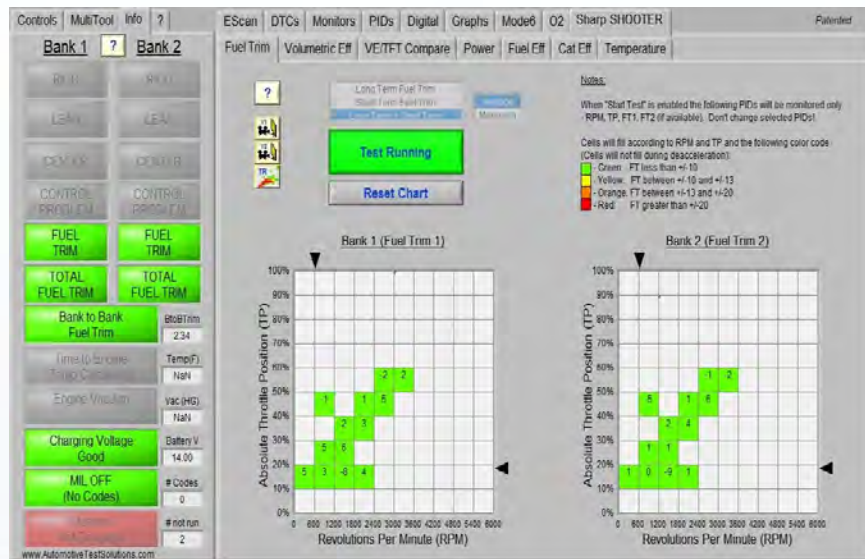
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2019 Ford Mustang



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2019 Ford Mustang Good Fuel Trim



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On To The Vehicle Data



Innova Smart Diagnostic System



Hands-On Electronic Class

3 Day / 24 Hours

Dates: *Friday Jan. 19th*

Saturday Jan. 20th

Sunday Jan. 21st, 2024

Time: 8:00am to 4:30pm

Topics covered include circuits and circuit testing, opens, shorts, voltage drops, relay testing, meter usage (DMM), Labscope / graphing meter usage, sensor, actuators, and hands-on testing to use on an array of applications such as starting, batteries, fuel delivery, ignition, sensors, computers, and more.

Bring your meter, scope, graphing meter amp clamp and any other electrical tools.

Cost:

\$1100.00

Includes: Electrical Book, Lunch, Snacks & all day Beverages.

Location: 10 Lupi Plaza, Mahopac, NY 10541

#845 628-1062

drestucci@dormantraining.com or gtruglia@dormantraining.com



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We offer greater freedom to fix cars and trucks
by engineering exclusive, labor-saving
and cost-effective repair solutions.



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Thank You !

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