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Young

MEA
Mechanic's OnLine & Classroom Education
March 2009 Calendar

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MEAttraining.com
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MEA also offers ALL NJ State ETEP & DMV Classes

All Conventional Classes are at the Maplewood Location unless otherwise indicated

Monday	Tuesday	Wednesday	Thursday
2 ALL INTERNET CLASSES NO EXTRA COST TO MEA MEMBERS	3 Call to Register For ALL Classes Internet and Conventional (973) 426-9001	4 NEW Diesel Driveability For Gas Guys	5 NEW Luncheon Internet Class Today 12:00 – 12:30 Cadillac Northstar Ignition Diagnosis/Testing
9 Toyota OB2 II Systems	10 ATTENTION READ THIS!!! BOTH Regular & Internet Classes are on this Calendar	11 Evening Internet Class Today 8:00 – 8:30 P1457 Honda EVAP System Diagnosis NEW	12 NEW & UPDATED GM 6.5 Diesel
16 Reading Wiring Diagrams Including DIN	17 Satellite Class – Pine Beach GM NEW 4X4 / Transfer Case	WE NEED DIESEL PARTS! If you have them, PLEASE SAVE THEM FOR US!	19 Current Ramping With your Lab Scope
NEW 23 Luncheon Internet Class Today 12:00 – 12:30 Shifted Ground O2 Sensor Testing	24 Computer Controlled Charging Systems NEW	25 Evening Internet Class NEW Today 8:00 – 8:30 Ford Electronic Module Controlled Wipers	26 J2534 Internet PCM Pass-Thru Reprogramming IN YOUR BAY!

MEA Members Only Calendar

1805 Springfield Avenue Maplewood NJ 07040

March 2009

CALL To Register

For classes
(973) 426-9001

Hotline hours are from 9am to 5pm Monday through Friday Classes are from 7pm to 10pm

DIESEL



Wed. March 4th

NEW!!

Diesel Driveability for Gas Guys

This course is designed for the Driveability Technician who may not have had much experience with Diesels. Many "gas guys" have fixed computerized engine controls on gas cars and trucks for a long time (and are good at it) without the need to bother with Diesels. Diesel Guys on the other hand are guys who fix diesel vehicles all the time. The problem is that in the light duty truck market, we are now saturated with COMPUTERIZED diesels, and they no longer can be side stepped without a decrease in business. This course is designed to get ALL techs that do not work on Diesels, fixing them with confidence, without the "prior diesel experience" requirement. This prior experience requirement does not mean this is a "new tech" class. It is designed for good techs that do not work on Diesels. Working on diesel vehicles is a great new opportunity for shops. This course will cover operation, testing and common problems on Ford Powerstrokes, GM Duramaxs, Dodge Cummins, and Sprinter systems.

INTERNET



Thurs. March 5th Lunchtime Internet Class Cadillac Northstar Ignition Diagnosis and Testing Distance Learning – Learn On-Line

Northstar Engines have multiple crankshaft and camshaft sensors. Because of this diagnosing stalling, hesitation, or cutout complaints on Northstar Cadillac's can sometimes seem difficult. This webinar will examine the testing and operation of the dual crank and cam sensor ignition system found on this popular engine package. Whether it is an Escalade or a Deville, this course will cover common failures, difficulties with diagnosis, and TSBs pertaining to these sensors.

Call 973-761-7420 with any Internet Technical Issues

Import Series



Mon. March 9th

Import Series

Toyota OBD II Systems

In Toyota OBD II Systems we cover Toyota's latest problems and their solutions. Highlights include Electronic Throttle Control (including multiple Throttle / Accelerator Pedal Position Sensors) Fuel Pump ECU testing (all systems), Multiple EGR system testing such as Cut-Off Control and Constant Vacuum. Also Toyota's version of the Air Fuel Sensor with alternate testing techniques WITHOUT the factory scan tool. OBD II Catalyst and EGR Monitoring which will keep you on the cutting edge of Toyota's computer control systems.

INTERNET



Weds. March 11th

Evening Internet Class

P1457 Honda EVAP System Diagnosis

Distance Learning – Learn On-Line

This is the most common EVAP code on Honda and Acura vehicles. Honda breaks these systems into multiple pieces, will look at the different sections of this system and how each section operates. We will cover testing of each section and what the PCM monitors. We will also cover the purge solenoid, the vent-solenoid, and the by-pass solenoid and how to test each one.

Call 973-761-7420 with any Internet Technical Issues

NEW!!!



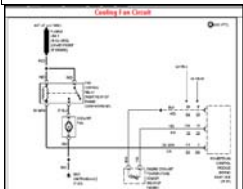
Thurs. March 12th

NEW & Updated

GM 6.5 Diesel Fuel Injection

This, the second of the GM Diesel classes, focuses on the engine performance of the 6.5L electronic / mechanical injection system. There will be complete coverage of the Injection Pump controls. Testing and diagnosis of the Fuel solenoid, fuel shut solenoid, Optical sensor, Fuel Temp sensor, and Injection Timing Stepper Motor. All of these will be covered with the focus on Fast and Accurate diagnosis of all Driveability problems from NO Start to Lack of Power to Check Engine Light on! Just because you made it to the 6.6L Duramax class doesn't mean your good on all GM Diesel systems. Come and learn about the differences!!

All Levels



Mon. March 16th

Reading and Understanding Wiring Diagrams including DIN

Reading and interpreting wiring diagrams is essential to diagnosing today's driveability problems. Complete understanding of the electrical system is a necessary step in creating a diagnostic plan. Whether you're working on an inoperative power window circuit or an ignition system with coil-on-plug, using a wiring diagram can help you get to the source of the problem fast. We'll cover both Alldata's and Mitchell's (same as Shop Key) approach to diagrams. Where are their strengths and where do they fall short? We'll look at OEM wiring especially those challenging **European DIN diagrams**. Learn "what color does 'L' represent or what is 'ws' in a diagram".

MEA Members Only Calendar

March 2009

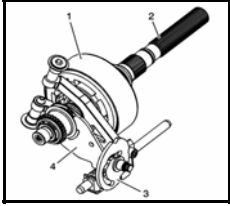
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Satellite



Tues. March 17th

NEW!!

GM 4X4 and Transfer Case

This is the first class in a series of transfer case and 4X4 classes. The focus of the class is the electronic operation and testing of the GM 4X4 Transfer Case. Today's transfer case's are computer controlled. All Inputs to be covered, including prop shaft speed, shift control switch, encoder motor feedback circuits. The output controls to be covered are encoder motor operation, and front axle actuator. By covering all the inputs and outputs and the wiring for the transfer case control module, interpretation of scan data will be covered that will help bring all the pieces together.

Satellite Class – Pine Beach Firehouse, 525 Prospect Ave. Pine Beach, NJ 08741

Advanced



Thurs March 19th

Current Ramping / All Lab Scopes

This class covers the latest in advanced lab scope diagnostic testing skills. Mastering current waveforms unlocks the secrets to FASTER diagnosis, as well giving you a window into problem vehicles that we did not have before this technique was discovered. From finding out how all of the injectors and ignition can be tested from the fuse box, to viewing electrical fuel pump integrity, this class will give you the tools to get the job done right! If you own a low amps probe, or are considering buying one this class is for you. The class will focus on problem patterns and their interpretation. Included in this course will be good and bad current waveform analysis for both fuel and ignition systems. This class is for the advanced labscope user, and attending our labscope class prior to this current ramping class is highly recommended.

INTERNET



Mon. March 23rd

Lunchtime Internet Class

Shifted Ground O2 Sensor Testing

Distance Learning – Learn On-Line

Many manufacturers have taken a different approach to Air Fuel Ratio sensing. While Some manufactureres have moved to a wide band / wide ratio O2 sensor; others have moved to shifted ground O2 sensors. This class will cover the shifted ground Zirconia O2 sensors and how to test them quickly and easily. Since these sensors are 4 wire, just like a conventional O2 this course will also show you how to identify and test them using your multimeter without knowing in advance what type of sensor you have. Also covered are MEA tips and tricks heater circuit diagnosis easy again, when the computer controls the heater via a duty cycle power or ground circuit.

ADVANCED



Tues. March 24th

NEW!!

Computer Controlled Charging

In this class we will cover Charging Systems Controlled by the PCM, BCM, DIM, IPC and other computers. Chrysler, Ford, GM and Honda currently have these systems and more manufacturers are installing these systems. We will cover operation and testing of current sensors and battery temp sensors. Electrical Power Management coverage, including different modes of operation such as Charge mode, Fuel Economy mode and Load Shedding. Also covered will be RVC, SARVC, Gen Com, Gen Mon, ELD, and EVR. This class will help you quickly decide if it's a bad alternator or if the computer is the cause.

INTERNET



Weds. March 25th

Evening Internet Class

Ford Electronically Controlled Wiper Systems

Distance Learning – Learn On-Line

As with most systems that we now work on, wipers have been and are electronically controlled. All components will be covered; they include the multi function switch, wiper control module (**wiper governor**), wiper motor low-high-delay operation, and the sometimes difficult to diagnose, **the wipers do not want to park complaint**. As with all MEA classes a complete wire by wire of every circuit involved will be covered.

Call 973-761-7420 with any Internet Technical Issues

Cutting Edge



Thurs. March 26th

J2534 Internet Pass-Thru Reprogramming

J2534 is the new reprogramming standard in the industry. It allows you, the technician, to reprogram PCMs by connecting your personal computer to the Internet, and then connecting a Pass Thru device from your computer to the car. Learn the 'ins and outs' of how this process works, and most importantly learn the "Real World" need to know items that only MEA can provide. In this course you will also learn about the Pass Thru tools that are being sold,, and learn how to equip your shop to implement them. While this is cutting edge technology today, we firmly believe that the manufacturers are all following this path due to regulations, and you WILL be doing this in your shop. Check this class out and learn how to PREPARE for this technology.