

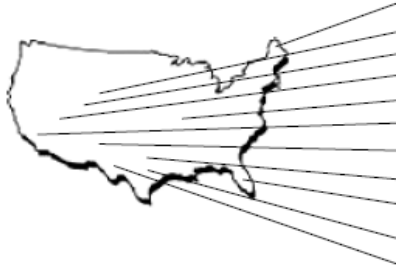
MEA
1989 – 2008

MEA
Mechanic's On-Line Education
September 2008 Calendar

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Monday	Tuesday	Wednesday	Thursday
8 Full Shop Members Attend ALL MEA CLASSES as part of their Membership	9 Lunchtime Internet Class Today 12:00 – 12:30 Air Fuel Ratio Sensor Testing	10 Evening Internet Class Tonight 8:00 – 8:30 Cadillac Northstar Ignition Diagnosis/Testing	11 Current Ramping All Lab Scopes Including "Modis"
15 CAN Diagnosis Multiplex BUS Circuits, U-Codes And "NO Communication" Faults With your Scan Tool	16 NEW!! ALL Brands Wide Band, Broad Band Planar, Wide Ratio Air Fuel Ratio Testing	17 For Information Call MEA Office 908-496-0059	18 Lunchtime Internet Class Today 12:00 – 12:30 5.9 Dodge Cummins Diesel Low Pressure Fuel Systems
22 Basic Electricity and Circuit Diagnosis Part I	23 COMING SOON!! 4 Wheel Drive and Transfer Case Diagnosis and NEW Advanced Charging	24 Lunchtime Internet Class Today 12:00 – 12:30 Nissan Fly By Wire And Throttle Relearn	25 WHY??? Doesn't it Start?? No Start Diagnosis
29 Basic Electricity and Circuit Diagnosis Part II	30 Call To Register For ALL Classes Internet and Conventional (973) 426-9001	1 Lunchtime Internet Class Today 12:00 – 12:30 Honda Hybrid Systems	2 Evening Internet Class Tonight 8:00 – 8:30 Nissan Fly by Wire Throttle Relearn

**MEA
Members Only
Calendar**

September 2008

**CALL To Register
For classes
(973) 426-9001**

1805 Springfield Avenue Maplewood NJ 07040

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

Classes are from 7pm to 10pm

INTERNET



**Tues. Sept. 9th Lunchtime Internet Class Air Fuel Ratio Sensor Testing
Distance Learning – Learn On-Line**

This course cover's Toyota's version of the Air Fuel Sensor which will keep you on the cutting edge of Toyota's computer control systems. Since 1999 Toyota have had Air Fuel Ratio Sensors, and since 2003 ALL Toyota are equipped with Air Fuel Ratio Sensors. Testing these sensors are much different than a conventional O2 sensors and this webinar will show you how to test them quickly and accurately WITHOUT a factory scan tool.

Call 973-761-7420 with any Internet Technical Issues

INTERNET



**Wed. Sept. 10th Evening 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

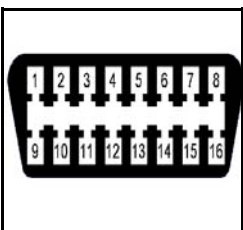
Advanced



Thurs Sept. 11th Current Ramping / All Lab Scopes Including Modis

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.

All Levels!



Monday Sept. 15th Diagnosing Scan Tool "NO COMMUNICATION" Problems

When a MIL is lit, the scanner is the normally the first tool to choose to ID DTC's, and data stream. But when the scanner does not communicate or if series network codes are set, it can often leave a tech with no direction. This class is designed to help the technician attack a **no communication** problem with confidence, by learning and understanding how onboard computers are tied together with Multiplex Networks. 1996-2005 Networks covered in this class will include CCD, PCI, Class 2, SCP, CAN, UART and More!! CAN, the latest of communications network, is phasing into to ALL cars by 2007. This class will cover the 2 minute MEA diagnostic test which will put you quickly on the right path to diagnosing these systems. This class is also a great prep for the ASE L1 Exam, as it now also includes CAN network questions.

NEW!!



Tues. Sept 16th Wide Band, Broad Band Planar, Wide Ratio Air Fuel Sensor Testing

Most manufacturers are now using some type of these sensors. The purpose of these sensors is to verify fuel control under a **wider range** of rich and lean conditions that conventional O2 sensors can't accomplish. These sensors are typically very expensive to replace and can be difficult to diagnose with out a factory scanner. This class will show you how to diagnose with meters, labsopes, and the scanners that you already use. We will cover the Bosch, NTK, Denso, Toyota, GM., Nissan, Honda and many more versions of this sensor. Single cell and dual pump current types will be covered. Come and see how Zirconia and Planar O2 sensors achieve this task. Don't miss out on **diffusion gap/chamber diagnostics**.

INTERNET



**Thurs Sept 18th Lunchtime Internet Class 5.9 Dodge Cummins Low Pressure Fuel Systems
Distance Learning – Learn On-Line**

Cummins transfer pump failures are extremely common on 5.9 Diesel Engines. When this pump fails they can cause damage to other components. Find out how to quickly and accurately troubleshoot these common Dodge Diesels. Highlights include: Proper fuel system bleeding procedures, short cuts to R & R transfer pumps. and operation and testing of these somewhat unique PCM control circuits will be covered completely.

Call 973-761-7420 with any Internet Technical Issues

1805 Springfield Avenue Maplewood NJ 07040

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Classes are from 7pm to 10pm

Entry Level Series!

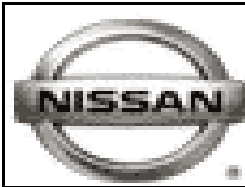


Monday's Sept. 22nd & 29th

Basic Electricity and Circuit Diagnosis Parts I & II

An understanding of Electricity is an essential tool for any technician. This course is designed to give the technicians the tools they need to understand Basic Electricity. All technician will benefit from this 2 night course. First timers will get the essentials, experienced techs will strengthen their skills (it often takes a few times to retain Electrical knowledge). Highlights include: "Need to know" theory & real world diagnosis, Ohms Law, Importance of Watts, Series & Parallel Circuits, Combo series/parallel circuits, short circuit testing, high resistance circuits and circuit defects. 6 step troubleshooting approach. Even though most techs understand Volts, Ohms and Amps, it is the application on the car with parallel and series circuits that can cause misdiagnosis.

INTERNET



Weds Sept. 24th

Lunchtime Internet Class

Nissan Fly By Wire and Throttle Relearn

Distance Learning – Learn On-Line

Most newer Nissan vehicles are coming equipped with electronic throttle assemblies. This class will cover operation, and testing of the complete Electronic Throttle Control System. We will cover ETC, APP, TPS, P0507 and relearn procedures. We will cover the dangers of "Cleaning the throttle body".

Call 973-761-7420 with any Internet Technical Issues

NEW!!



Thurs Sept 25th

Why Doesn't it Start??? No Start Diagnostics

When it comes to a "NO Start", we all know there some basic questions we must ask ourselves with every car. Does it have spark and Injector pulse? Is there fuel Pressure? Correct Fuel Pressure!! Is it breathing and do we have all these things at the right time? However, we have also learned that each system has it's common problem areas. COP vs DIS Spark Control. Multipoint vs Sequential Injection. What part does Cam / Crank synchronization play? This class will cover testing and diagnosis of all these areas. We'll include ... Crank – No Start, No Crank – No Start, Long crank time and many more scenarios. Whether your customer base is mostly Domestic or Import this class will benefit all of your technicians and ultimately your customers.

INTERNET



Weds OCT 1st

Lunchtime Internet Class

Honda Hybrid Systems

Distance Learning – Learn On-Line

Honda Hybrids have been on the road since 1999, and many are now in desperate need of service and repair. This class is designed to get you started with the Honda Hybrid system. Highlights include: starting procedures, unique gauges, proper maintenance procedures as well as common maintenance mistakes. Operation of the IMA system, including charging, assisting and special displays.

Call 973-761-7420 with any Internet Technical Issues

INTERNET



Thurs Oct 2nd

Evening Internet Class

Nissan Fly By Wire and Throttle Relearn

Distance Learning – Learn On-Line

Most newer Nissan vehicles are coming equipped with electronic throttle assemblies. This class will cover operation, and testing of the complete Electronic Throttle Control System. We will cover ETC, APP, TPS, P0507 and relearn procedures. We will cover the dangers of "Cleaning the throttle body".

Call 973-761-7420 with any Internet Technical Issues