

RevUp - Smarter Solutions for Faster Repairs

Join this hands-on, in-person training hosted by Dorman Training Center and Motor Age Training—a full-day event designed to sharpen your diagnostic skills and deepen your understanding of advanced vehicle repair.

Attendees must choose one class to attend per session.

MORNING SESSION

- Upping Your Diagnostic Skills Instructor: Jerry "G" Truglia
- Diagnostic Strategies
 Instructor: Pete Meier

AFTERNOON SESSION:

- Building Your Diagnostic Worksheet Instructor: Ken Zanders
- Driving Down the Rabbit Hole Instructor: Josh Weaver

SIGN UP TODAY!

Scan code or click <u>here</u> to register

For questions please contact: DTC@DormanProducts.com or visit: dormantrainingcenter.com

Location:

Automotive Training Center 900 Johnsville Blvd. Warminster, PA 18974

Date:

September 20, 2025

- Morning Session:
 8:30 a.m. EST
- Afternoon Session:
 1:30 p.m. EST

Instructors:

Jerry "G" Truglia, Pete Meier, Ken Zanders, Josh Weaver

Price: \$149.95





Your Instructor For This Webinar

- Owner, O&K Truck and Auto Repairs Ltd.
- ATTP Master Instructor, New York State
- Author, "Medium/Heavy Duty Truck Electricity and Electronics"
- Training provider for various Associations, industry and various NY State agencies
- Developed trainings that range from four hours to multiple days, specializing in brakes, electrical, regulations and many other subjects relating to our industry.
- Member of various organizations such as SAE, CVSA, TANY



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What Will Be Covered

Instructions For This Webinar

This webinar will be approx. 1 hour long

- All slides that are presented are in your handout and are numbered
- Have a pen or pencil and paper for notes
- Questions can be asked at anytime

- **Why scan tools**
- In depth look at CanDo scantools
- 03 Live scan tool demo



Scan Tool Usage

Question: Who fixes the truck? Is it the tool or the technician?

- The scan tool aids the technician.
- The scan tool gathers information.
- The technician needs to know what to do with the information.
- This requires knowledge:
 - How does the system operate.
 - Engine, ABS, Transmission, Emissions, Lights and anything else that has a connection with ECM's, PCM's and various controllers found in todays vehicles.

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Scan Tool Usage

Benefits of a scan tool.

- Provide data from different makes of vehicles (OEM's).
- Step by step instructions on diagnostics and repair of various systems (scan tool dependent).
- Options such as graphing, recording and bi-directional capabilities of certain systems and components.
- Gathering and displaying information that can be beneficial to fleets, owners etc., such as fuel usage, fuel economy and other trip information.





How Computers "Think"

The Scan Tool as Interpreter

Our dialog with the vehicle computer begins when we use the scan tool to enter a request for data. We may ask for information about fault codes, or about the current state of engine sensors. The computer responds to our request and sends back a string of coded voltage pulses representing data. The scan tool converts data from the vehicle computer into words and measurements and displays them on the scan tool display screen. The scan tool is the middleman—the interpreter—in our communication with the



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computer.

Scan Tool Usage

Manufacturers are constantly increasing the functionality of scan tools.

- A single scan tool can cover multiple makes, models and systems.
- This enables faster diagnostics.
- Portability via laptops and tablets have enabled mobility usage (drive and scan).

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Scan Tool Usage

A perfect use of this is "Forced Regeneration"

- This action is typically performed away from buildings, and it can often take half an hour or more to perform. This regulated emissions system requires a scan tool due to the requirements related to strict codes and procedures to clear the codes and clearing (resetting) derates as an example.
- > If you are a big shop, you might need several scan-tools due to the length of time that a scan-tool is tied up performing these actions on a vehicle.
- That is why there are so many options for scan tools and prices.

"The trick is to know your scan tools capabilities"

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Scan Tool Considerations (purchases)

The next question is: "What should I look for in a scan tool"?

The options are limitless out there for different needs.

- Realistically it is also what you can afford. BUT;
- You need to also ask yourself, "what do I want to know, when I hook up to the vehicle".
- Putting those two thoughts together means getting the best bang for your buck.





Scan Tool Considerations (purchases)

Regardless of affordability, you need to at a minimum consider:

- Reliability
- Coverage
- Software and hardware (ideally marry those two together).

Note: This is a shop environment requiring a rugged laptop or tablet.

- Ideally look for one that can work on maximum makes and models.
- Purchase from a reputable source that has good support.
- User friendly is also important, so regardless of skill level, everyone can at a minimum navigate through the tool.

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Electronic Service Tools (ESTs)

Before we continue our journey, let's look at different options of connecting to a vehicle's Electrical/Electronic system.

An electronic service tool (EST) is used to perform the following:

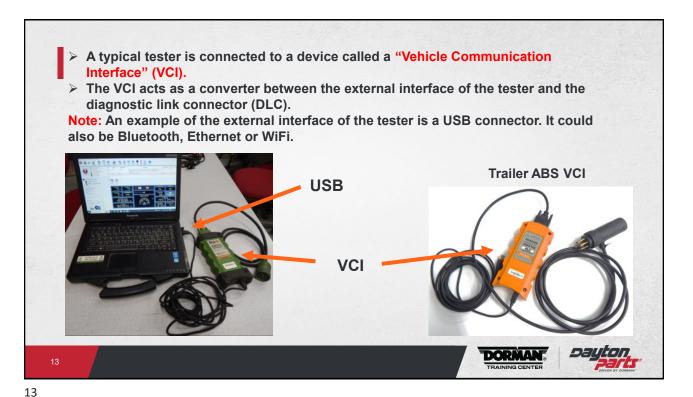
- View system identification data
- Access active codes and history codes
- · Erase (clear) inactive (history) codes
- · View data
- Perform bi-directional tasks (diagnostic tests) on various subcomponents
- Snapshot function
- Reprogram customer data parameters on engine and chassis systems
- Enable updates

Note: There are also "read-only" scan-tools. Usually, the smaller hand-held type with minimal command keys to display fault codes and system status. Usually used to service vehicles and not necessarily repair vehicles.

The test tool (scan tool) must locate the messages and convert them to useful data.

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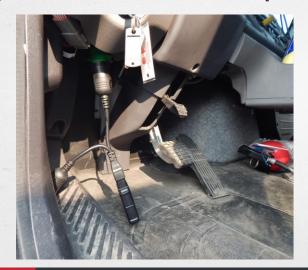








CanDo Wireless Hook-Up





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Connecting Service Tool

Connecting the service tool

- Initializing process permits the chassis electronic system to communicate with the EST (scan tool).
- The first information usually displayed will be the system software identification, which identifies the chassis system.

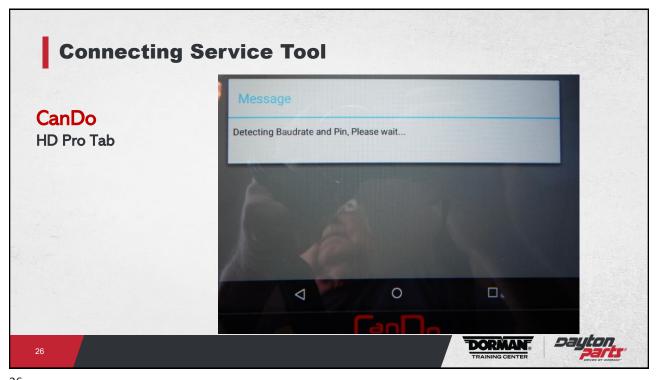
Once the application has finished loading, the typical tool allows options such as:

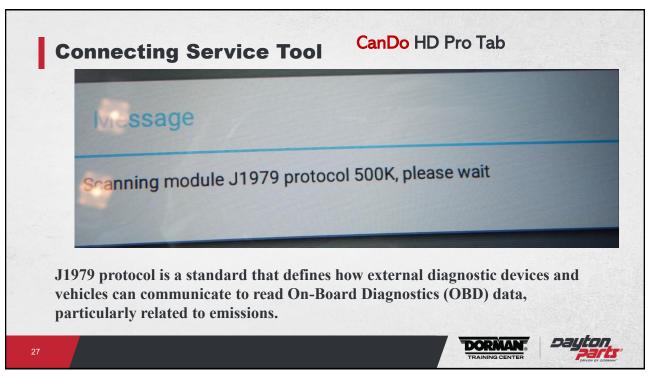
- Reading fault codes.
- · Monitor various parameters.
- Diagnostic (bi-directional) tools.
- Customer programming.

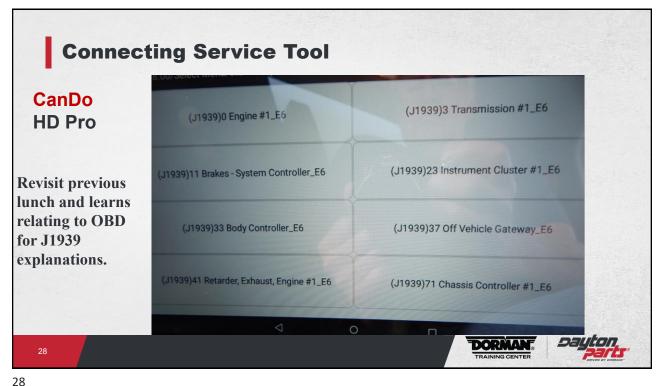


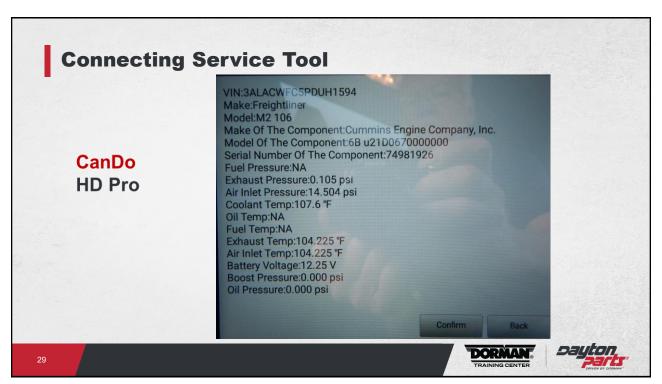






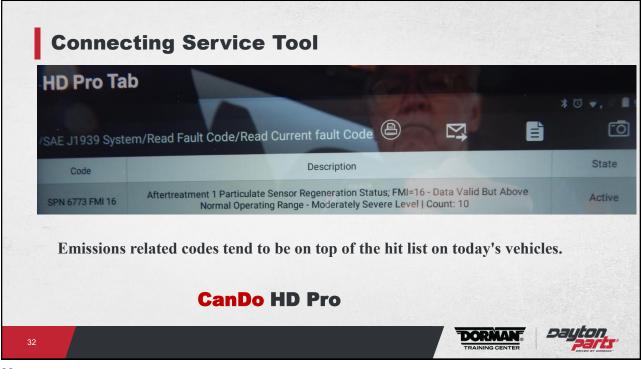


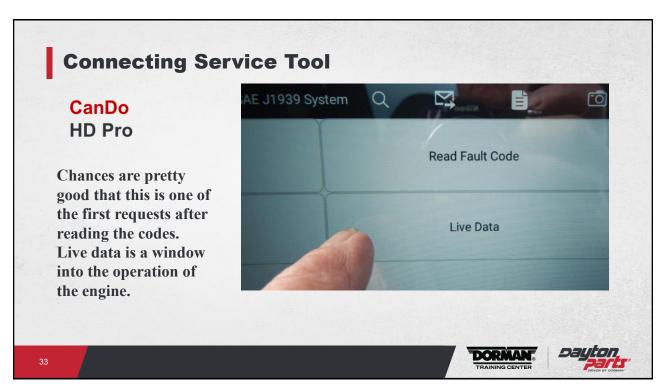


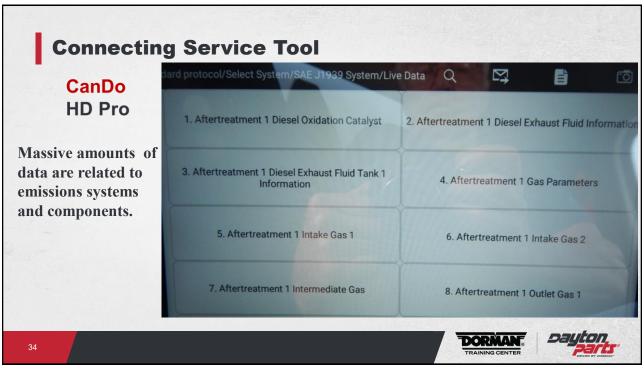


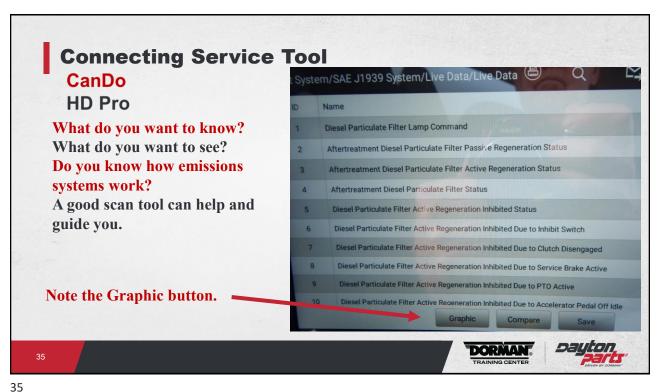




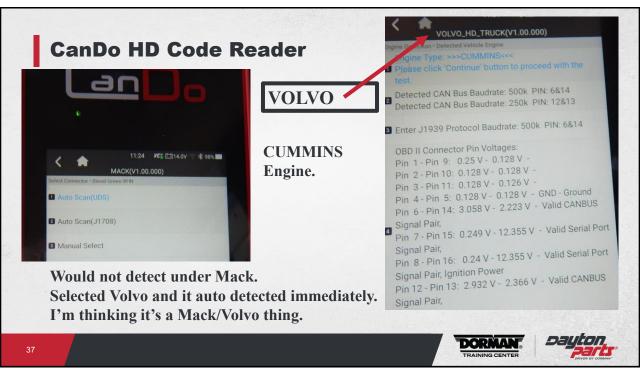




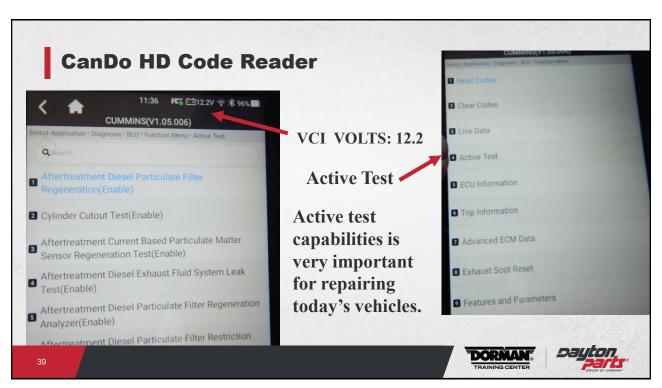


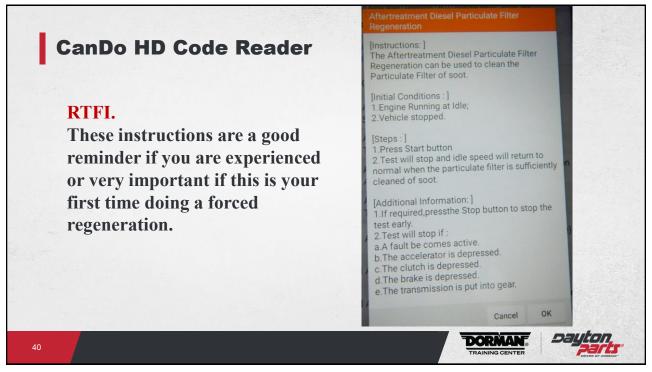


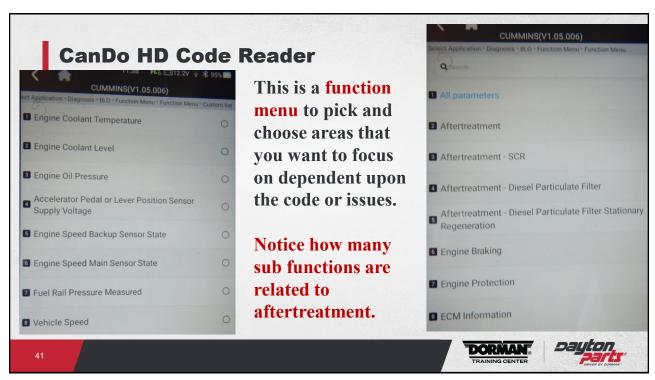


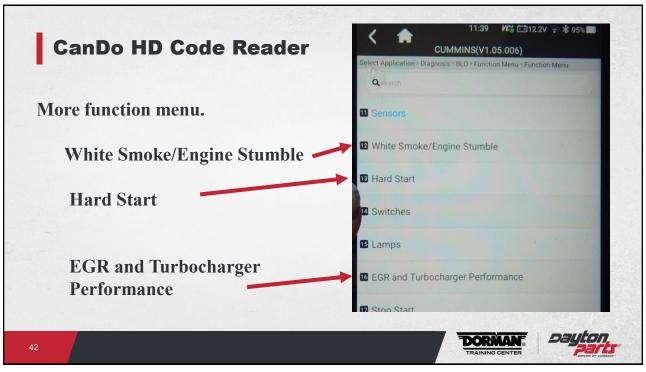


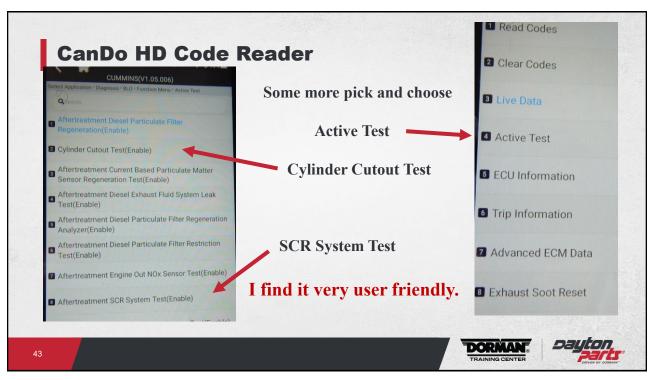
CanDo HD Code Reader Product ID BLO 2 Engine Type ISB 6.7 - CM2450K 3 Engine Model 6B u21D0670000000 One click of the 11:31 VC: 12.4V 7 \$ 97% ECM Name CM2450A button, and you CUMMINS(V1.05.006) have everything 5 ECM Part Number(P/N) Cummins engines(Auto Detect) you want to know 6 Engine Serial Number(S/N) 2 Cummins engines(J1939) about the engine. 7 FCM Code(E/C) 3 Cummins engines(J1708) Not Set **B** ECM Real Time Cummins engines(ISO15765) Auto Detect. 179 kW Advertised Power at RPM 2400 RPM Advertised Power RPM 759.00 N*m Peak Torque at RPM

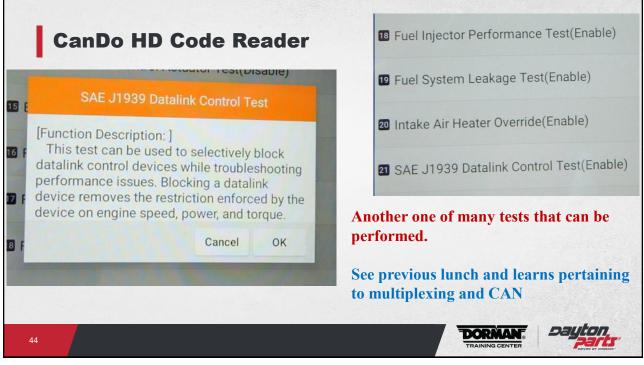


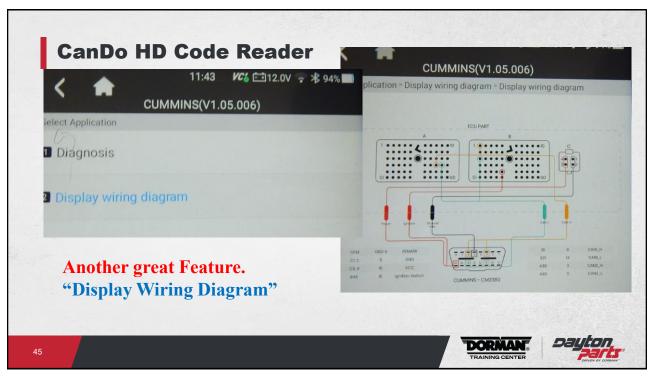




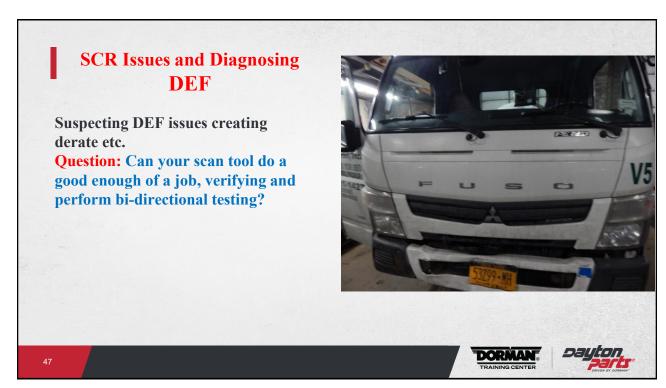


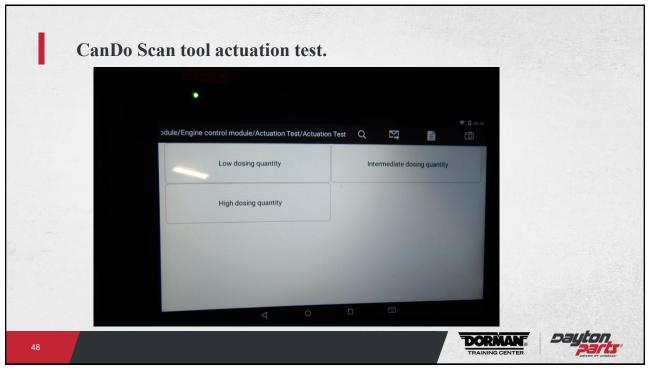


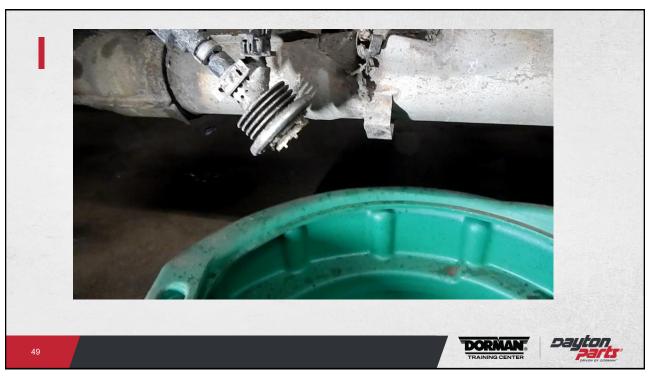


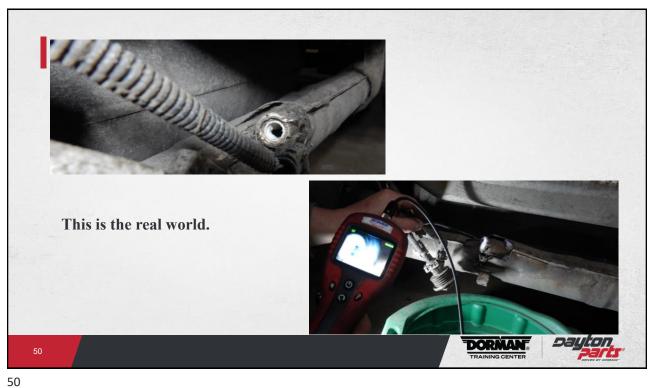












Questions?

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