



DESCRIPTION:

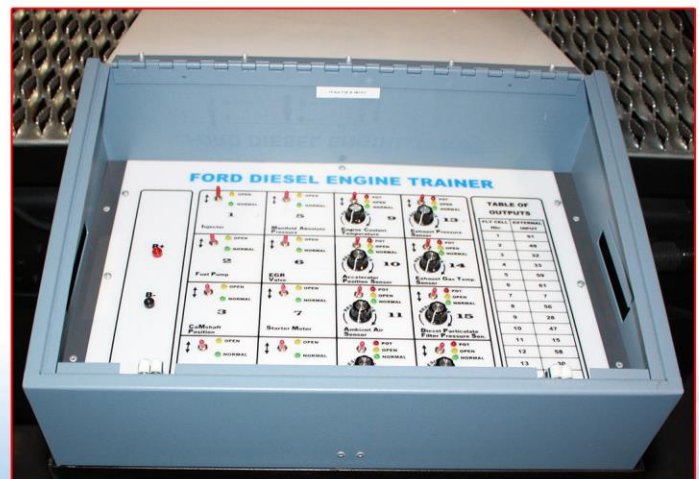
The MEG007-D diesel engine performance program is a half truck, fully operational 6.4 L Powerstroke V8 diesel engine built to meet all diesel engine performance and repair tasks. Completely operational and safe, demonstration of major vehicle systems to groups of students without the access limitations of a complete vehicle make this trainer easy to work with. All major components, wiring and connectors match OEM configurations for easy diagnosis.

EDUCATIONAL ADVANTAGES:

- Latest vehicle system and diagnostic technologies
- Real world symptoms can be created via Fault Insertion Box (12 - 20 faults)
- Functional DLC Connector for use with scan tools
- Breakout Box allows easy access to electrical circuitry for viewing with test-lights, scan tools and oscilloscopes

STANDARD FEATURES:

- Half Truck, Fully Operational (6.4 L Powerstroke V8)
- After treatment (DPF, SCR & EGR) - if applicable
- Breakout Box/Fault Insertion
- OEM/HVAC
- Full Dash
- Steering/Suspension Included
- Brakes Included
- Full Lighting & Stereo System
- Mobile Casters
- NATEF based student worksheets
- Digital Copy of OEM Maintenance Manuals



Dynamic Fault Box

DIESEL ENGINE:

The Diesel Engine Program introduces the latest in diesel engines available with complete cranking, charging, cooling, exhaust system (with aftertreatment), instrument display, breakout box, and Fault Insertion Module.

DYNAMIC FAULTING SYSTEM:

The trainer is to have a Fault Insertion Module feature, to allow the instructor to create faults in the engine control system. The faulting system is designed with many different features and functions. This unit allows an instructor to “tap in”, to various automotive circuits, by wiring it directly to the vehicle’s existing wiring harness. Pin-outs are labeled for “preset” sensors. Each set of pin-outs, not only brings a signal, power, or ground, to the break-out-box, but also allows faults to be created in the corresponding circuit. There are two types of faults that can be induced. The first is an “open circuit”. Second, is a potentiometer, which will add a variable amount of resistance to the given circuit, based on the instructor’s setting. The break-out-box, although labeled specifically, can be wired to any circuit, carrying less than four amps.

FEATURES:

- Pin-outs on the face of the break-out-box for easy access to electrical circuitry for viewing with test-lights, DVOMs and oscilloscopes
- Pin-outs for fifteen sensors/ circuits
- Fourteen “preset” sensor pin-outs
- One “custom” sensor pin-out
- Fault induction capability for a total twenty four possible faults, including:
 - “open circuit” fault induction capability
 - “variable resistive” fault induction capability
- Colored LEDs for indication when a fault is inserted
- Comes with easy-to-follow instructions for wiring and use.



INSTRUCTIONAL REFERENCE MATERIAL:

The manuals provide full information and procedures for troubleshooting diesel engines. Potential problems are listed, diagnostic methods are indicated and repair procedures detailed. Also to be included is the manufacturer's service manual, to contain detailed procedures, descriptions and diagrams of the engine provided. (Owner’s Manual, Service Manual, Fault Insertion Manual)

TRAINING AND SERVICE REQUIREMENTS:

If training/service is required, Megatech is an ASE CASE certified training provider. CASE training providers enhance and aid in the continued certification process and have been evaluated through a quality-assurance process called CASE (Continuing Automotive Service Education) and certified by ASE.

SPECIFICATIONS:

Approx. Size: 160” x 96” x 80” (Cm: 405 x 270 x 200)

Approx. Weight: 5,500 lbs. (2,500 Kg)