



The EM-140D diesel engine trainer is a fully operational engine mounted on a mobile stand. Trainer is based on 2016-2011 Ford Pickup F Series w/ POWERSTROKE 6.7L, 8-cylinder diesel engine platform. The trainer is easy to work on and all major components, wiring and connectors match OEM configuration. Trainer is mounted on a mobile stand constructed of 2" (5cm) tubular steel equipped with four 5" (12.5cm) phenol casters (2-fixed and 2-swivel w/locks). Students can perform many NATEF related Engine Performance and Electrical/Electronic tasks using this trainer. Trainer is equipped with safety guards covering all rotating components.

EDUCATIONAL ADVANTAGES

- Allows demonstration of engine systems to groups of students without the access limitations of a complete vehicle
- Engine systems respond to inserted faults with real world symptoms, OEM DTC's and check engine light operation
- Equipped with all OEM equipment related to EPA 2010 Emission Standards

APPLICATION

- 2016-2011 Ford Pickup F Series w/ POWERSTROKE 6.7L 8-cylinder diesel engine

SPECIFICATIONS

2016-2011 Model Years

- Ford Powerstroke 8-cylinder diesel engine compliant with EPA 2010 standards
- Displacement – 6.7L (409 cu.in.)
- Compression ratio – 16.1 : 1
- Aspiration – Dual boost variable turbochargers w/ wastegate, intercooled
- OHV – (4 valves per cylinder)
- Injection – Direct injection high pressure common rail (30,000 psi) w/ Piezoelectric injectors. Bosch high pressure injection pump.

FEATURES

- High pressure common rail fuel system with piezoelectric injectors
- Automatic transmission
- OBDII data link connector for scan tool hookup
- Integrated ECM breakout box with test points for oscilloscope and DMM hookup
- Breakout box terminals identified with OEM terminology and numbers
- Diesel Particulate Filter (DPF)
- Exhaust Gas Recirculation (EGR)
- Diesel Oxidation Catalyst (DOC)
- Selective Catalytic Reduction (SCR) w/ DEF injection & tank

STANDARD EQUIPMENT

- Automatic regulated 12V battery charger
- Fuel tank
- DEF tank
- Exhaust system with catalytic converter
- Safety covers for all rotating devices
- Heavy Duty 2" square tubing mobile stand with 5" (12.5cm) phenol casters (2-fixed & 2-swivel w/locks)
- Comes with only one OEM key (additional keys available)
- Coolant flow sight glass for V8 diesel engine
- Scan tool tray

OPTIONAL EQUIPMENT

- Custom vinyl dust cover with two zipper closures (24082)
- Secondary key for engine bench (53150)
- Custom fork lift bars for big engine (52827X)
- Custom Instrument panel protection (52905)
- Custom Electronic programmable fault box with 16 faults capable of programming intermittent fault insertion (EM-250-2)
- Manual fault box for engine (EM-250)

INFORMATIONS TECHNIQUES

- **Dimensions:** 109 x 57 x 46 inch (272,5 x 142,5 x 115 cm) / 62 x 114 x 52 inch (155 x 285 x 130 cm) with packaging
- **Weight:** 1272,7 kg (2800 lb) / 1336,4 kg (2940 lb) with packaging