



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

### SPECIFICATIONS

#### 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)
- 52827X Custom fork lift bars for big engine
- Comes with only one OEM key (additional keys available)

#### OPTIONAL EQUIPMENT

- 24082 Custom vinyl dust cover with two zipper closures
- 53150 Secondary key for engine bench
- 52905 Custom Instrument panel protection
- 53125 Custom coolant flow sight glass for V8 diesel engine
- 53090 Custom Electronic programmable fault box with 16 faults capable of programming intermittent fault insertion
- 52575 Manual fault box for engine
- 53147 Scan tool tray

#### TECHNICAL SPECIFICATIONS

- DIMENSIONS: 272.5 x 142.5 x 115 cm (109 x 57 x 46 in) / 155 x 285 x 130 cm (62 x 114 x 52 in) (w/packaging)
- SHIPPING WEIGHT: 1272.7 kg (2800 lb) / 1336.4 kg (2940 lb) (w/packaging)