



DESCRIPTION:

The Megatech MEG550G trainer is a fully electronically controlled fuel injection system trainer constructed from a late model GM OBDII type vehicle to teach the fundamentals of fuel injection and engine control. The trainer can provide engine diagnosis and problems in the fuel system and has a complete operational fuel injection system with "built-in" fault simulation, sensors, actuators and controls. All controls for the sensors are conveniently located on the front panel of the portable cabinet. All six-fuel injectors operate so that students can view the injector spray patterns inside the clear Fuel Rails. The electronic control module inputs signals from the sensors to demonstrate the different MULTI-PORT fuel injection functions. The trainer has a complete ignition system with pick-ups and spark plugs. A full function MAF sensor with blower motor creates air flow and a vacuum attachment is connected to the MAP sensor. A DLC connection for scan tool hook-up and diagnosis is provided for monitoring and troubleshooting 6 code and non-code faults.

EDUCATIONAL ADVANTAGES:

- Uses OEM Automotive components.
- Full demonstration of engine diagnosis and problems in the fuel system.
- Live fuel injection operation and spray patterns.
- Live ignition system with observable spark
- DLC provided for monitoring and troubleshooting

FEATURES & COMPONENTS:

- Power Train Control Module(PCM)
- Coolant Temperature Sensor (ECT)
- Intake Air Temperature (IAT)
- Throttle Body
- Throttle Position (TP) Sensor
- Upstream Heated Oxygen Sensor (HO2S11)
- Downstream Heated Oxygen Sensor (HO2S12)
- Mass Air Flow (MAF) with Air Sim
- Manifold Pressure Sensor with Vac Sim
- Knock Sensor (KS)
- Ignition Switch
- Oil Pressure Switch
- Fuel Pump
- Fuel Pump Relay
- Fuel Pump Test Connector
- Fuel Injectors
- Fuel Rail
- Idle air Control (IAC) Valve
- Evaporative Vent Solenoid
- Ignition Control (IC) w/MODULE
- Transaxle Solenoid TCC PWM
- Digital Tachometer
- (6) Real World Faults
- Owner's Manual
- Instructor's Manual w/ Experiments

SPECIFICATIONS:

Size – 48" x 24" x 48" (122 x 61 x 122 cm)

Weight – Approx. 150 lbs (68 kg)

Power – 12 VDC (NOT included)