



Automotive EFI Ignition Demonstrator Order Code : 32684 demonstrates fully operational Multi Point EFI system. Using original components and clearly laid out display board mounted on an integrated floor stand, made from powder coated steel, mounted onto wheels for mobility enables ease of demonstratopm. The engine sensors have a signal generator to simulate various engine conditions and a corresponding electrical meter that continuously monitors the signal. The effect of altering the sensor condition can be immediately apparent on the meters. The Electrical wiring diagram is provided in a special design panel to incorporate Input / Output connections from sensors and ECU. Original Car ECU is a source and programmable and have the ability to connect to a PC, for programming and displaying system data.

Specifications

1. The following components are included in Multi point EFI System Trainer:

A. Prime Components and Systems

- Electronic Control Unit (ECU)
- Test Point Panel for ECU Input/Outputs
- Fuel Tank Reservoir
- Electric Fuel Pump with pressure gauge
- Fuel Filter
- Fuel Distributor Rail with pressure gauge
- Fuel Injectors
- Fuel Pressure Regulator
- Graduated Fuel Volume Meter for each Injector
- Complete Ignition System (detailed below)
- Variable speed drive for ignition with Tachometer
- Silk-screened engine Diagram showing layout of components
- Throttle position sensor
- Mass Air Flow Sensor
- Complete system sensors (detailed below)
- Sensor controls with meters (detailed below)
- Electrical relays and control devices

B. Sensors and Actuators

- Mass Air Flow Sensor or map sensor

Note: Specifications are subject to change.

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- Intake Air Temperature sensor
- Throttle Position sensor
- Crankshaft Position and Engine Speed sensor
- Engine Temperature (coolant) sensor
- Lambda sensor

C. Ignition System

- Ignition Coil
- Ignition Distributor or Distributor less ignition
- Infinitely Variable Drive System for distributor
- Spark Plugs
- Set of High Tension Leads

D. System Controls and Devices

- Key Ignition switch with pilot lights
- System Relays
- Electronic Control Unit (ECU)
- Engine Speed Control
- Air Flow Control
- Throttle position Control
- Intake Air Temperature Control
- Engine Temperature (coolant) Control
- Lambda (Oxygen) Control
- Battery Voltage Control

E. Meters and Gauges

- Mass Air Flow meter
- Throttle Position meter
- Intake Air Temperature meter
- Engine (coolant) Temperature meter
- Engine Speed Tachometer (RPM)
- Lambda (Oxygen) meter
- Battery Voltage meter
- Fuel Pump pressure gauge
- Fuel Rail pressure gauge

F. 12 VDC Regulated Power Supply, 30 Amps

Electronic Fault Insertion System:

- Multiple electronic fault insertion system: This system allows for up to 10 faults to be inserted at any one time. Faults can be inserted individually or in groups.
- Electrical Circuit Diagram Panel with Test Points: Features electrical circuit diagram panel that incorporates electrical test points that allow the student to take measurements during the troubleshooting exercises.
- Electronic Fault Insertion System with LED Display: Incorporated into the electrical Circuit Diagram panel. The system is able to activate the fault via pushbuttons that in turn operate electrical relays that cause the fault to occur. When the fault is electronically activated a corresponding LED will illuminate showing the fault is active.
- Student Testing Mode: The LED fault indication display can be deactivated, so that the faults can be active but the display is switched off.
- Electronic Fault Reset Button: The LED control have a fault-reset button that will clear and reset the system back to normal.

Manuals

- All necessary User/Operational manual provided with the equipment.

Accessories

- Set of 4mm terminals
- Other related accessories for the functionality of this equipment provided with the trainer.

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