



**DEGEM
SYSTEMS**

Autotronics

AT-5101

Multipoint Fuel Injection

Advanced Autotronics Simulator

Degem's AT-5101 Multipoint Fuel Injection course consists of a module and computer courseware. The module, which plugs into any free compartment in the AT-5000 main panel, contains multicolor graphic of the entire multipoint system, several test points and LED indicators.

The interactive courseware contains essential theory enhanced with vivid simulations, guided exercises that interact with the MPI module, guided diagnostic exercises and self assessment exercises

All of these provide the ideal learning environment to provide valuable true-to-life diagnostic exercises to train competent autotronics technicians.

Multipoint injection demonstrator

Electronic injection demonstrator

ABS 4 channel system
demonstrator

Engine controls & sensors
simulator

Car air-conditioning & climate
control simulator

Suspension simulator

Transmission simulator

Safety systems simulator

Automotive electrical accessories

Diesel Electrical Wiring Simulator

Diesel Starting & Charging
Simulator

Hydraulic Brakes Demonstrator

Smart Gasoline Car Fault
Insertion system

Smart Truck Fault Insertion
system

Smart Tractor Fault Insertion
system

Smart Motorcycle
Fault Insertion system

Common Rail Injection

Main Panel

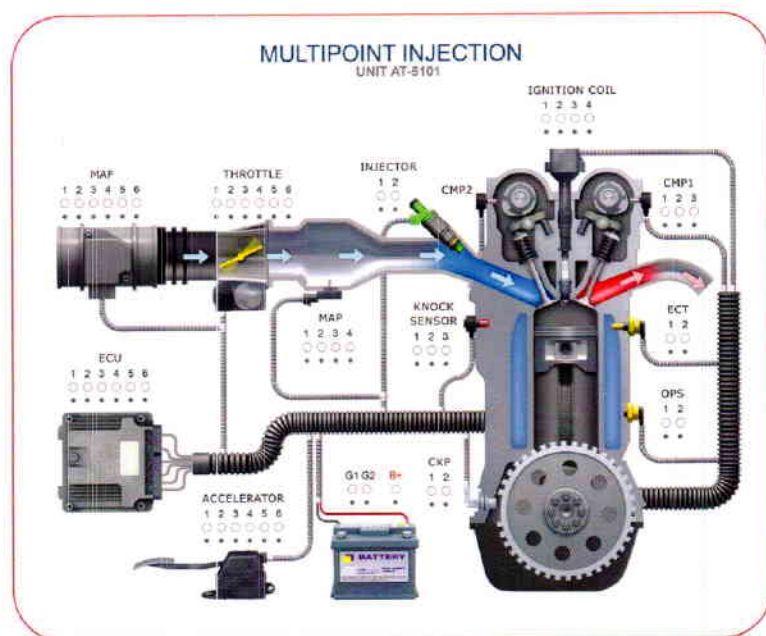
Multipoint Fuel Injection

Emission Control

Airbag Systems

Electronic Stability Program

Hybrid Vehicle Systems



Specifications

THEORY LESSONS COVER

- MAP sensor, MAF sensor
- Motorized throttle
- Injectors
- DIS ignition coil
- CMP: Hall effect camshaft position sensor
- CKP: inductive crankshaft position sensor
- ECT: engine coolant temperature sensor
- Knock sensor
- Accelerator position Hall effect sensor.
- Engine electronic control unit (ECU)

TESTING AND MEASUREMENT GUIDE

Using virtual test instruments, such as digital multimeter and oscilloscope, at designated test points, for observing normal operating condition.

DIAGNOSTIC PROCEDURES

Teach the student various logical diagnostic methods through detailed step-by-step diagnostic procedures.

FAULT FINDING

- Faults are inserted in random order
- Student needs to identify fault by himself.