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Product Name :

Engine management system (MPI)

Product Code :

SLE/ATE/28



Science Lab

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Description :

Engine management system (MPI) (Product Code: SLE/ATE/28) is a mobile training stand used to teach the operation, measurement and fault diagnosis of a gasoline multipoint injection engine management system in automotive technician labs. Trainees can simulate 15 system errors by pulling plugs, read and clear codes through a 16-pin diagnostic socket, and watch fuel flow and spark plugs at work. The stand and its fault-simulation system are built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM and technical educational equipment manufacturer, at its own factory in Ambala, India; the MPI engine management system installed on it is a sourced production unit, not made in Ambala.

Specifications

Parameter	Detail
Purpose	Practical and laboratory training/testing of a gasoline MPI engine management system
System	Gasoline injector engine management system with multipoint petrol injection, installed in the upper part of the stand
Stand	Mobile, on four wheels; closed structure with internal wiring not visible
Size	1860 × 1450 × 700 mm
Power	Network power supply (220/12V) and a 12V battery
Fuel system monitoring	Amount of injected fuel, fuel supply system and fuel pump pressure; fuel pump and distribution system built so the fuel flow distribution can be seen
Engine speed	Adjustable crankshaft rotation speed
Air intake	Adjustable air flow in the intake manifold for demonstrating the air mass flow and air temperature sensors
Mixture control	Air/fuel mixture can be altered with an O2 sensor signal simulator
Ignition	Ignition system and spark plugs mounted for visual monitoring; high voltage circuit measurements possible; flame intensity measured by adjusting the ignition gap
Operation check	Injector and spark operation checked in the plug sequence 1, 3, 4, 2, with inspection of each sensor
Electrical measurement	Built-in voltmeter; principal electrical circuit diagram of the MPI system with built-in measurement connectors; electrical parameters of any component measurable; waveforms checked against RPM
Fault simulation	15 system errors simulated by disconnecting plugs from connectors
Diagnostics	Control unit diagnostics via 16-pin diagnostic socket; reading and deletion of detected errors; system parameter control; control unit coding/configuration
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