



THE LAB EQUIPMENT

Email : [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

Phone: +91-8759245890

**Product Name :**

Engine management system (MPI)

**Product Code :**

SLE/ATE/28



**Website:** <https://www.thelabequipment.com>, **Email:** [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010



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## Description :

### Feature

Purpose of the training stand - practical and laboratory training/testing

Educational demonstration stand is designed for gasoline injector engine management system (MPI) study

### Specification

Mobile stand on four wheels

Gasoline injector engine management system (MPI) with multipoint petrol injection installed in upper part of stand

Stand allow to monitoring the following

- Amount of injected fuel
- Fuel supply system
- Fuel pressure of the fuel pump

Construction of the fuel pump and fuel distribution system allow visually see the distribution of the fuel flow

Adjustable crankshaft rotation speed

Ensured the possibility of ignition system high voltage circuit measurements

Air flow in the intake manifold are adjustable, allowing functional demonstration of air mass flow and air temperature sensors

Engine management system have a built-in voltmeter

Ability altering the air/fuel mixture by the O2 sensor signal simulator

Included the principal electrical circuit diagram with elements of the (MPI) system with built-in electrical measurement connectors. Stand allows to simulate 15 system errors by disconnecting plugs from connectors

The ignition system and spark plugs installed in a way that allows visual monitoring of their activities

Possibility of measuring system parameters in electrical circuits, connecting to measurement contacts

Ability to measure any system component electric parameters by connecting to the electrical circuit

The stand has a closed structure – internal wiring is not visible

Measure the waveforms and check the changes according to RPM speed

Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor

Ensured the possibility of running control unit diagnostics using 16 - pin diagnostic socket

Ensured the ability of detected systemic error reading / deletion

Ensured the possibility of system parameters control

Training stand include

- Exam / practical work simulation terminal, which should be able to simulate not less than 10 different system errors
- Automobile oscilloscope
- diagnostics equipment

Training stand size: 1860x1450x700 mm

Flame intensity measurement by adjusting the ignition gap

Ensured

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