



Description

- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

MOTRONIC M 3.8.X (MPI) trainer is installed in a mobile aluminum frame. This training board simulator is specially designed to help technical students understand multipoint petrol injection (MPI) system MOTRONIC M 3.8.X. The educational trainer is based on Audi/VW OEM components. The integrated engine control system shows different operation modes of the fuel injection/ignition system. The training board-simulator is a great educational tool that allows students to learn the structure of an engine control system, study its components and operation modes, perform various measurements, tests, and other diagnostic procedures. For technical and vocational Tesca education and training.

Technical Specifications and Functions

- Integrated engine control system with multipoint petrol injection system (MPI)
- Monitoring operation of fuel supply system, injected fuel quantity, spray pattern quality, fuel pressure of the fuel pump
- Fuel pump is built into a transparent tank what allows to see its operation;
- Adjustable airflow rate simulator demonstrates the function of the mass – airflow meter and air temperature sensor
- Visible work process of spark plugs
- Easy access to high voltage measurements
- Manual adjustment of the engine crankshaft speed
- Ability to change the air/fuel mixture by the oxygen sensor signal simulator
- The training board has a complete electric wiring diagram of multipoint petrol injection system (MPI)
- Electric wiring diagram with built-in banana plug jumpers for measurements and simulation of the system fault codes
- Ability to simulate more than 20 faults by disconnecting Banana plug jumpers
- Diagnostic and measurement

Oscilloscope/Multimeter

- The system's parameters are measured by connecting to the banana connector
- Ability to measure electrical signal parameters of each system component (such as sensor or actuator)
- Ability to measure high voltage circuit of the ignition system

Note: Specifications are subject to change.

Control Unit Diagnosis

- Diagnosis through OBD 16 – pin diagnostic connector
- Electronic control unit (ECU) identification; Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Activating the actuators (depends on the control unit)
- Throttle valve adaptation
- Control unit encoding/configuration

Other

- The stand has a closed structure – internal wiring is not visible
- Power supply: 12V from the battery or power supply unit (battery and power supply unit are not included as standard accessories)
- Dimensions approx. (HxLxW): 1820 x 1360 x 500 mm
- Nett weight approx : 70 Kg
- CE certificate

Optional Accessories

- Examination console for 10 hidden fault simulations
- 12 V battery
- 220/12 V power supply unit
- OBD diagnostic scan tool

Tesca training equipment is a great tool for professional teachers and technicians that help to explain to students of technical subjects how processes in the Engine control system MORONIC M 3.8.X (MPI) operate and its technology.

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