AUTOTRONICS

EDUCATIONAL ENGINE MODEL WITH PETROL INJECTION SYSTEM MOTRONIC– LIVE ENGINE

DL DM40

AUTOTRONICS - DEMONSTRATORS

LEARNING EXPERIENCE

This training engine with multipoint petrol injection (MPI) system MOTRONIC based on original (refurbished) components of Audi/VW vehicle is specially designed to demonstrate the engine management system and operational structure. Self – contained, fully operational engine installed in a mobile frame.
Training engine is a great educational tool that allows students to learn the structure of the engine and its components, power supply system, cooling system, engine control system. It also allows to study components and operation modes of the engine control system, to perform various measurements, tests and other diagnostic procedures.

GENERAL CHARACTERISTICS

- Dim. mm approx (HxLxW) : 1550x1000x1200
- Weight approx. kg 310
- Power supply: AC 220V±10% 50/60 Hz

MAIN CHARACTERISTICS

The main characteristics and functions of the trainer are:

- Possibility to measure the exhaust gas before and after the catalytic converter.
- Possibility to simulate more than 20 faults by disconnecting banana plug jumpers.
- Educational functional engine model with fuel supply system, instrument cluster, cooling system, power supply system and the exhaust system.
- Engine with external components is clearly visible after removing safety panels. Easy access to the engine and its components for service and maintenance.
- Integrated engine emergency stop button.
- Supplied with safety removable panels to protect against hot and rotating parts.
- Electric wiring diagram with built in banana plug jumpers for measurements and simulation of system fault codes
- Instrument cluster, measurement and fault simulation
- panel integrated in a closed aluminium frame construction.

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ACCESSORIES

- Oscilloscope (Not included)
- Multimeter (Not included)
- OBD (Not included)

OTHER CHARACTERISTICS

The trainer has the following diagnostic and measurement features:

- Control unit diagnosis
- Control unit encoding/configuration
- Reading/erasing fault codes
- Diagnosis through OBD 16 – pin diagnostic connector
- Electronic control unit (ECU) identification
- Displaying the operating system parameters (live data)
- Actuator test (depending on the control unit)
- Throttle adaptation
- Possibility to measure the parameters of the system connecting to the banana connector (Oscilloscope and multimeter are required)
- Possibility to measure electrical signal parameters of each system component (such as sensor or actuator) (Oscilloscope and multimeter are required)
- Possibility to measure high voltage circuit of the ignition system (Oscilloscope and multimeter are required)

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