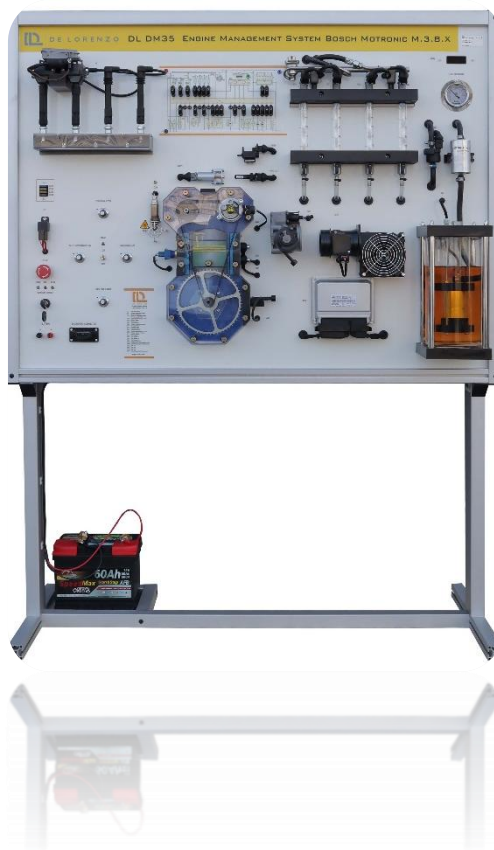




# AUTOTRONICS



## ENGINE CONTROL SYSTEM M 3.8.X MOTRONIC TRAINER DL DM35



### LEARNING EXPERIENCE

This demonstration panel represents the multipoint petrol injection (MPI) system MOTRONIC M 3.8.X. Integrated engine control system shows different operation modes of the fuel injection/ignition system and the trainer is based on OEM components of Audi/VW.



## MAIN CHARACTERISTICS

### The main characteristics and functions of the trainer are:

- Integrated engine control system with multipoint petrol injection system (MPI).
- Visible work process of spark plugs.
- Easy access for high voltage measurements.
- Manual adjustment of the engine crankshaft speed.
- Monitoring operation of fuel supply system, injected fuel quantity, spray pattern quality, fuel pressure of the fuel pump.
- Built-in fuel pump in a transparent tank which allows to see its operation;
- Possibility to change the air/fuel mixture by the oxygen sensor signal simulator.
- Adjustable airflow rate simulator allows to demonstrate a work of mass-air flow meter and air temperature sensor.
- Complete electric wiring diagram of multipoint petrol injection system (MPI).
- Electric wiring diagram with built-in banana plug jumpers for measurements and simulation of system fault codes.
- Possibility to simulate more than 20 faults by disconnecting banana plug jumpers.

### 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).
- Activating the actuators (depending on the control unit).
- Throttle valve adaptation.
- Possibility to measure the parameters of the system by 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).

## GENERAL CHARACTERISTICS

- Dim. mm. approx. (HxLxW): 1800x1000x510.
- Weight approx. kg 150.
- Power supply: AC 220V±10% 50/60 Hz.

## ACCESSORIES

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