# AUTOTRONICS

## MOTRONIC FUEL INJECTION SYSTEM TRAINING PANEL


AUTOTRONICS - SIMULATORS

## DL DM97

### LEARNING EXPERIENCE

This demonstration panel represents the real components on a Volkswagen car model with Motronic fuel injection system. These apparatuses are essential to show the structure of the system and its working process. The device applies to theoretical teaching and maintenance training of the ignition system for secondary vocational skill schools.

### GENERAL CHARACTERISTICS

- Dim. mm (HxLxW) : 1700x1600x700
- Weight approx. 200 kg
- Input power supply: A.C. 220V ± 10% 50Hz
- Operating voltage: 12V DC
- Fuel pressure gauge: 0-15kg/psi
- Operating functioning temperature: -40°C to +50°C

### ACCESSORIES

Suggested instruments for best practice:

- Digital Multimeter (not included)
- Automotive Oscilloscope (not included)
- OBD Fault diagnosis Scanner (not included)

### MAIN CHARACTERISTICS

The didactic system shows a real and operable Motronic fuel injection system to imitate the system's structure and working process, including spark plug ignition, fuel pump operation and fuel injections.

**Main components:**

- Detection control panel (with various detection terminals)
- ECU
- Diagnostic socket
- Ignition switch
- Distributorless grouping ignition system (Includes igniter, spark plug)
- Crankshaft position sensor and signal wheel
- Fuel tank
- Gasoline fuel pump
- Gasoline fuel pump relay
- Fuel injectors
- Fuel pressure gauge
- Throttle body assembly
- Intelligent fault setting and appraisal system
- Movable framework

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## OTHER CHARACTERISTICS

a) The trainer is made of advanced aluminum-plastic plate with characteristics of not less than 4mm thick. The plate is corrosion resistant, impact resistant, pollution resistant, fireproof, and moisture proof. The panel surface is processed by special craft and spraying primer. The circuit diagrams are painted with never fade colour and the boards are coated with varnish. The trainees can learn and analyze the working principle of the control system by looking and analysing the diagram and the real-life components

b) The training panel has installed detection terminals to identify electric signals, such as resistance, voltage, current, and frequency, of circuit components of the ignition system.

c) The training panel has installed a diagnosis socket to which an automobile decoder can be connected to read and clear fault codes from the engine electrical control system.

d) The training base frame is made of steel and the surface is paint-coated. Pivoting wheels are mounted. A small table top shelf is fixed on the base frame to place material and testing devices

e) The didactic panel does not use accumulators or battery and it does not require any charging. It can be connected to a 220V AC voltage which changes to a 12V DC voltage through the internal circuit. The 12V DC voltage protects the training panel against short circuit.

f) Equipped with intelligent fault setting system, include fault setting and troubleshooting.