

The MT-H9000 training simulator is a training unit aimed to study and comprehend a diesel automotive Common Rail injection system associated to a real ECU.



DESIGN

Supported by a steel structure, the model is composed of three main instrument decks for the simulation, visualization and measurement (fault and diagnosis): a vehicle board/instrument panel for modifying road and engine parameters with an EOBD communication diagnosis connection socket; an integrated breakdown simulation board with measuring sockets; an engine cut-away view board which visualizes the air flows, exhausts and gasoil; and a real ECU.

SPECIFICATIONS

The real elements are:

- The injection Common Rail ECU.
- The key ignition switch.
- The EOBD diagnosis socket.

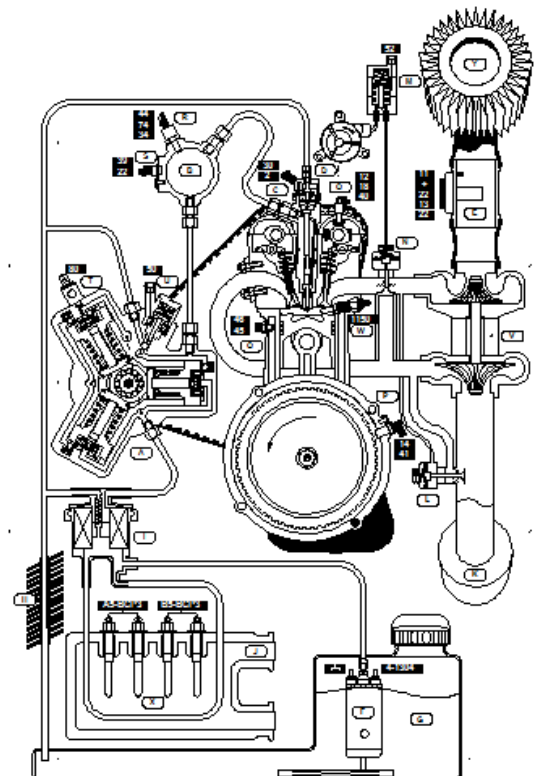
The elements assembled by **EXXOTEST®**:

An ECU board:

- Diagram of an injection ECU and of in/out logical management.
- Accessible measurements on all ECU terminals.
- Inside, the fuses allow for protection when measuring and simulating breakdown situations.

A vehicle board / instrument panel:

- Display and visualisation of the following parameters: engine speed, charge in %, air flow, air temperature, water temperature, fuel temperature and rail pressure.
- Modification of the following parameters: accelerator, charge (road profile), air, water and fuel temperature.
- EOBD socket for connecting the scan tool provided.



OBJECTIVES

- Learn about the whole Common Rail diesel injection system.
- Observe, analyze and understand the operation of all the components of the Common Rail injection system.
- Read and understand the diagrams.
- Measure signals at both ends (in/out) of the different components.
- Simulate breakdown for the diagnosis methods studying.

An engine board:

- Diagram cut-away views of the engine, the turbo, the high pressure pump, the tank, and the various air's, water's and gas oil's pipes.
- The air and gasoil flows visualisation through the led.
- The operation of 3rd piston de-activator, the gasoil pump, the EGR valve, the glow plugs visualisation through the led.

EQUIPMENT



The **MT-H9000** training simulator comes with an EOBD Scan tool for reading parameters and faulty codes. **EXXOTEST® CL550**, multi-functions tester bringing together the functions of Oscilloscope, Multimeter and OBD II scan tool.

The **CL550** is powered by the car battery that allows to use it easily. The software supplied with the **CL550** allows archiving, printing or video projection of the measuring screens on the PC. Same time, the **CL550** is 100% scalable (USB connection allows free updates by internet).

As an option you can use with this teaching model our acquisition system dedicated to automotive **REFLET®** that allows using:

- USB connection,
- 4 traces analog and digital oscilloscope module,
- 2D tools interface,
- 3D instruments interface, dynamic visualization of 3D object



OTHER



- For this teaching support you can order a special MT-table with castors.
- Power supply: 220/110Vac – 50/60Hz
- Size: 1200 X 800 X 1500 mm (transportation box)
- Gross weight : 85 Kg (ready to ship)
- Net weight: 70 Kg

Find all **EXXOTEST®** products on the Internet: www.exxotest.com