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**Product Name :**  
Common Rail Diesel Injection

**Product Code :**  
LBNY-0005-120000160



### **Description :**

The system allows students to learn about the structure of the engine control system, study its components and operation modes, and perform various measurements, tests and other diagnostic procedures. Fully functional engine control system Common Rail direct injection installed in a mobile aluminum frame. The educational training system is based on OEM components of Renault.

#### **Technical Specifications and Functions:**

Integrated engine control system with diesel Common Rail direct injection.

Adjustable air flow rate simulator allows to demonstrate a work of mass air flow meter and air temperature sensor.

Integrated simulators allows to change parameters of engine temperature sensor.

The stand consists of two parts: one is designed to demonstrate the work of the high pressure pump and the injectors, the other to demonstrate the electronic engine management system. Both parts are electrically interconnected and operate as a single system.

Manual adjustment of the engine crankshaft speed.

Monitoring operation of high pressure fuel supply system, injected fuel quantity, the amount of fuel back leak, spray pattern quality.

The system has a complete electric wiring diagram of the Common Rail direct injection system.

Integrated simulators allows to change parameters of intake air pressure sensor.

#### **Diagnostic and Measurement:**

Oscilloscope/multimeter

Possibility to measure electrical signal parameters of each system component.

System parameters are measured by connecting to the 4 mm connectors.

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Control unit diagnosis  
Diagnosis through OBD 16 pin diagnostic socket  
Displaying the operating system parameters  
Activating the actuators  
Electronic control unit identification  
Reading/erasing fault codes

**Technical Specification :**

Control unit encoding/configuration  
Data:  
Power supply: 220/12 V  
Dimensions approx.: (HxLxW)  
Mechanical part (trolley) 1500 x 800 x 500mm  
Electronic part (board) 1820x1360x500mm  
Weight: 135 Kg.



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