

Product Name :
Emission Control

Product Code :
NETK554



Description :

Emission Control

Technical Specification :

This Trainer study the devices and the systems used for controlling and reducing the emissions of gasoline engines. The trainer illustrate the operation, the electric signals and all the sensors and the actuators that are used in modern automobiles to reduce the emission of noxious gases. The Trainer cover the following study and experiment subjects: General structure of the management system for a gasoline engine Composition of the exhaust gases in Otto cycle engines Preparation and control of the fuel Lambda regulation Re-circulation of the exhaust gases, anti-evaporation of the fuel and thermal post-combustion Sensors and actuators used in the systems for reducing the exhaust gas Control unit (ECU) and CAN-BUS Analysis of the electric signals of sensors and actuators Troubleshooting with traditional instruments Troubleshooting with OBD self-diagnosis Main Features: Autonomous operation The trainer is able to operate autonomously, without connection to PC. Moreover, it is provided with a USB interface to connect to a computer for data acquisition, graphic visualization, e-Training. Use of some real components The trainer is provided with an electric motor, with phonic wheel and magnetic sensor for position and rotation speed. The electric motor 'simulate' the operation of the real engine (all the operations are made at a speed 10times lower than the real one of the engine: between 80 and 600 rpm). This allow visualizing on LED the operation of the different devices: spark plugs, injectors, etc. On the LCD display the actual speeds are visualized (rpm from 800 to 6000). All the signals (on LED and terminals) is synchronized with the rotation of the phonic wheel and this makes 'real' the operation of the trainer. 'Real' signals All the signals at the test points are real. They are equal in value, shape, time to the signals found in a real automobile. Graphic Display and Keyboard The trainer uses a graphic display and a keyboard for the visualization of the interesting parameters during the operation and for the selection of quantities and functions to be visualized. 'Integrated' Instrumentation The Trainer contain the Instruments that

are normally used on the field for the operation of troubleshooting in automobiles, both the 'traditional' ones, such as the multi-meter, and the 'new' ones, such as the Scan Tool for the OBD diagnosis. Digital Voltmeter It allows performing all the voltage measurements on the system, without the need for external instrumentation. Digital oscilloscope It allow checking the waveforms at all the Test Points of the system and to operate in the same modes of a real oscilloscope. Tester OBD•II (SCANTOOL) It allow operating in the activities of fault finding in the same modes of a Scan tool connected to an automobile through the OBD socket.

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