AUTOTRONICS

EMISSION CONTROL

DL AM06

LEARNING EXPERIENCE

The combustion of the fuel inside the cylinders of an engine is, usually, incomplete. The more it is incomplete, the bigger is the emission of noxious components which can be found in the exhaust gases from the engine.

To reduce environmental pollution it is necessary to improve the efficiency of the engine for what concerns the exhaust gases.

This simulation panel deals with the study the techniques used for the reduction of the noxious emissions in the car.

MAIN CHARACTERISTICS

It is possible to simulate:

- Composition and control of the exhaust gases in the Otto cycle based engines
- Combustion products
- Preparation and control of the fuel and operating conditions
- Adaptation to the operating conditions
- Lambda regulation
- Recirculation of the exhaust gases
- Anti-evaporation of the fuel
- Catalytic thermal post-combustion
- Analysis of the exhaust gases in the Otto cycle based engines: test cycles

This vertical frame bench-top trainer is specially designed to show to students how automotive systems work. The simulator consists of a panel operated by the support of a computer with a coloured silk-screen diagram that clearly shows the structure of the system and allows the location of the components on it.

The display of the information available on the computer screen allows the continuous control of the educational system. The operational conditions can be entered by the students and the insertion of faults can be carried out through the computer by the teacher.

The trainer is supplied with a CAI Software and the supported documentation guides the students to the study and the performance of the simulation exercises. All components installed and given leads are made to protect the safety of the students.

GENERAL CHARACTERISTICS

- Dim. mm approx (HxLxW) : 700x1000x150 - (470 with the base)
- Weight approx. kg 25
- Input power supply: AC 220V±10% 50 Hz
- Working temperature: -40℃ ~ +50℃.

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