

Overview

The petrol engine trainer + CMES is an educational package featuring a petrol engine trainer modified to accommodate a CMES unit.

The petrol engine trainer is a real physical educational unit featuring a petrol engine and all systems necessary for its operation, and is designed to enhance students and technicians troubleshooting skills in the field of petrol engines by simulating their common electric faults.

Meanwhile CMES, the Class Management and Examinations system, is an integrated solution, combining hardware and software to automate the teaching process within a class room or laboratory.

The CMES manages students' attendance, conducts examinations, simulates randomly generated faults on BEDO trainers, could function as a computer to display multimedia or E-content, and generates detailed student reports.



Details

- 4-cylinder petrol engine mounted on a robust frame with four wheels for ease of relocation.
- Trainer includes all components required for engine operation such as battery, electric circuitry, fuel reservoir, fuel injection system, ignition system, cooling system, complete exhaust system, starter motor and alternator.
- Trainer allows the trainee to vary engine RPM.
- Trainer designed in a manner to allow the trainee to observe all system components.
- A large control panel on trainer operation switches, faults simulation switches, vehicle dash board and a port for connecting external fault diagnosis equipment.
- Trainer allows connecting an external multi-meter between dedicated terminals at each fault switch and a common earth terminal; that is to measure electric parameters of some system components.
- Trainer capable of simulating up to 20 engine faults.
- The engine condition is refurbished by default, where it has undergone a complete overhaul, replacement of faulty or worn components, and has received a paint job.
- Alternatively the engine could be supplied in new condition upon special request.
- Optionally the engine may be pre-assembled with a manual or automatic transmission, and a gear shift stick in the unit, according to the Ordering Information section, keeping in mind that a purchased unit cannot be modified.
- This trainer differs from a normal petrol engine trainer in that it has been designed to allow CMES to isolate its fault switches during random faults simulation.

Ordering Information

The unit may be purchased in one of the following configurations, keeping in mind that a purchased unit cannot be modified:

AT-01012-16	Petrol Engine Trainer + CMES, 1600 cc
AT-01012-16MG	Petrol Engine Trainer with Manual Gear Box + CMES, 1600cc
AT-01012-16MT	Petrol Engine Trainer with Manual Transaxle + CMES, 1600cc
AT-01012-16AG	Petrol Engine Trainer with Automatic Gear Box + CMES, 1600cc
AT-01012-16AT	Petrol Engine Trainer with Automatic Transaxle + CMES, 1600cc
AT-01012-20	Petrol Engine Trainer + CMES, 2000 cc
AT-01012-20MG	Petrol Engine Trainer with Manual Gear Box + CMES, 2000cc
AT-01012-20MT	Petrol Engine Trainer with Manual Transaxle + CMES, 2000cc
AT-01012-20AG	Petrol Engine Trainer with Automatic Gear Box + CMES, 2000cc
AT-01012-20AT	Petrol Engine Trainer with Automatic Transaxle + CMES, 2000cc

Electric Supply

3-phase, 380 V, 50/60 Hz , or 1-phase, 220 V, 50/60 Hz

Additional power requirements are attainable upon special request.

Options

- AT-14011 E-content for Petrol Engines
- AT-15102 Cover for the unit
- AT-15103 Touch screen computer
- AT-15104 Touch screen computer holder for the unit
- AT-15105 Wall holder for the touch screen computer
- AT-15106 Multi-meter
- AT-15107 Connection cables
- AT-15108 Fault diagnosis equipment
- AT-15109 Labels for the laboratory
- AT-15110 Basic tool kit
- AT-15111 Advanced tool kit

Faults Simulated

- Spark Plug faults
- Fuel injector faults
- Sensor faults
- Electric faults

Energy Supply

Gasoline

Supplied by Default

User manual in English or Arabic