

Product Information Sheet

Gasoline Engine (CAN and Climate Control) Trainer



This trainer provides a complete working engine with an engine management system incorporating CAN bus control technology. It also includes a fully-functional climate control system for group or whole-class demonstration.

The engine incorporates the very latest twin independent variable camshaft timing (Ti-VCT) technology to optimise performance, reduce emissions and increase fuel efficiency.

The engine and climate control system are mounted on a moveable, heavy-duty, steel frame.

The system comprises all the elements that control the air-fuel ratio, the ignition timing, and the exhaust emissions together with the ECU and all the sensors and actuators associated with the control system.

The system also enables fault conditions to be inserted and for these faults to be diagnosed with specialist workshop test equipment.

This resource is supplied with a manual containing practical tasks and activities.

The trainer can also be used in conjunction with our optional cloud-based software, which offers online interactive theory presentations, investigations, and assessments, which support the practical activities, carried out using this resource.

Trainer Enables Demonstrations of the Following:

- The position and mounting of all engine components
- Engine management system fundamentals
- The electronic control unit (ECU)
- CAN bus
- Sensor components
- Actuator components
- Pressurized fuel systems
- Fuel injection components
- Exhaust emission control components
- Climate control system
- Fault finding

Items Included:

- Trainer
- Practical activity manual

Other Items Required:

- Fuel
- Air-con charging
- Diagnostic equipment
- Battery (12V 44Ah)

General Information:

Trainer Dimensions (W x D x H):
1600 x 1500 x 1500 mm / 63 x 59 x 59 inches

Packed Volume: Approx. 4.3m³ / 156ft³

Packed Weight: Approx. 545kg / 1205lb

Packed Dimensions (W x D x H):

1615 x 1565 x 1720 mm / 64 x 62 x 68 inches

The image shown is for illustrative purposes only - actual product may vary due to product enhancement.

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