



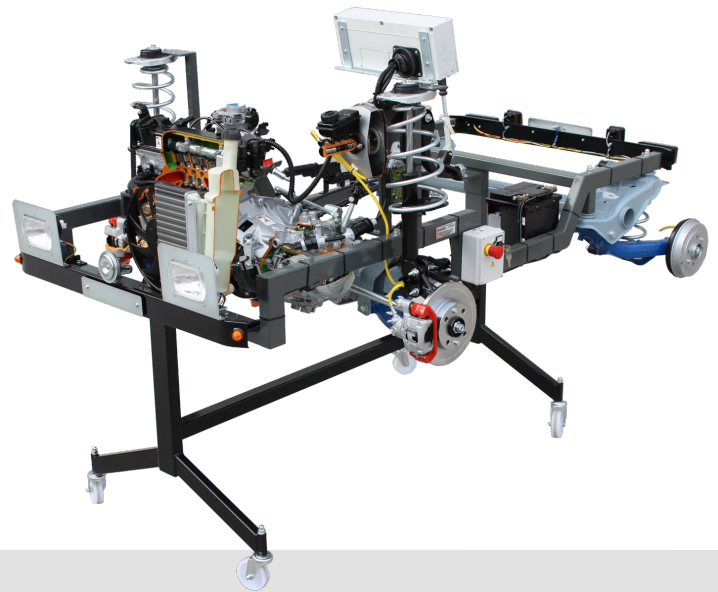
# PETROL (GASOLINE) MPI ENGINE WITH CHASSIS AND WORKING BRAKES SYSTEM

Product number

AE35274E

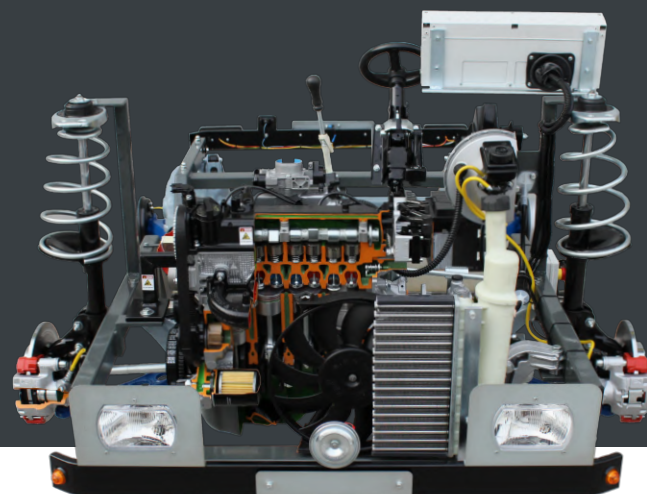


Trainer built on a Fiat chassis, featuring a 1200 cm<sup>3</sup>, 4-cylinder petrol engine with an electronic Multi-Point Injection (MPI) system, a 5-speed gearbox with differential, and a double circuit brake system. The model includes full suspension, steering, gearbox, front-disc and rear-drum brakes and is mounted on a mobile stand with exposed sections for detailed examination of engine, lubrication, fuel, and cooling systems.



## Features

- Engine Cutaway: Displays camshaft, valves, cylinders, crankshaft, oil carter, and water cooling pump with visible lubrication and cooling circuits for functional study.
- Vehicle Chassis: Full suspension system with shock absorbers, coil springs, swing arms, and subframe for suspension dynamics.
- Hydraulic Steering System: Complete system with steering column, rack, and rods for studying hydraulic power and mechanics.
- Electrical System: battery cutaway, and ECU view for power distribution and control functions.
- Brake System: Disk and drum brakes, hand brake, pedal, hydraulic pump, and cylinder for hydraulic braking operation.
- Gearbox and Clutch: Gearbox gears, flywheel, clutch, shifting mechanism, and pedal for transmission and clutch study.
- Color-Coded Components: Clear identification of systems (lubrication, cooling, suspension, braking) with color-coding for enhanced learning.





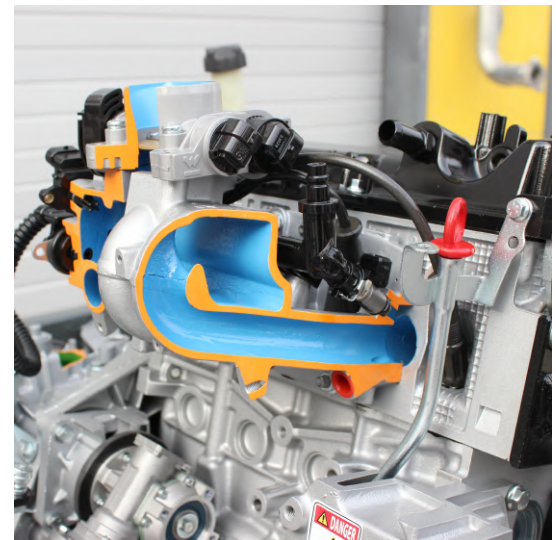
## Value for Students

- Provides a comprehensive understanding of the 4-cylinder, 1200 cm<sup>3</sup> petrol engine with electronic MPI, allowing detailed study of internal combustion processes, fuel injection mechanisms, and multi-point fuel delivery.
- Enables hands-on learning in diagnosing and troubleshooting common engine issues, with a focus on interpreting real-time data from the MPI system, and understanding the interaction between fuel systems and electronic control units.
- Facilitates the study of hydraulic brake systems, including a double circuit with servo assistance, front-disc, and rear-drum brakes, allowing students to grasp the principles of brake operation, force distribution, and safety protocols.



## Value for Instructors

- Provides a fully operational cutaway model, enabling clear demonstrations of engine and chassis operations, which aids in effectively conveying complex automotive principles to students.
- Built with galvanized and chromium-plated parts, this trainer ensures long-term durability and consistent performance, minimizing maintenance requirements and maximizing instructional time.
- The color-coded and professionally painted components help teachers clearly differentiate between systems, improving the educational impact of each session.
- Mounted on a mobile stand with wheels, the trainer is easy to position and integrate into various classroom setups, facilitating interactive and collaborative learning.
- Requires small adjustments to reset to default parameters, making it easy to prepare and start each lesson.
- Uses OEM components for easy, safe, and realistic training that mimics real car.



## Specifications

- Dimensions: 2200 x 1600 x 1150 mm (86.61 in x 62.99 in x 45.28 in)
- Weight: approx. 300 kg (660 lb)
- Power supply: operates at 220 volts (110V US), with an electrically driven engine for reduced-speed operation
- Product number: AE45275E

\*Electric lightning system is not included in this product

