



# PETROL (GASOLINE) ENGINE TRAINER WITH MULTIPOINT INJECTION SYSTEM MPI EURO5

A8

Product number  
MVMP103-AT



Fully functional 4-cylinder EURO 5 multi-point injection (MPI) petrol (gasoline) engine with automatic transmission installed in a durable metal frame with transport wheels. It includes a control panel with all necessary devices, electrical diagrams, and component markings, providing a comprehensive hands-on learning experience for understanding engine operations, diagnostics, and troubleshooting.



## Features

- A complete, operational 4-cylinder EURO 5 multi-point injection (MPI) petrol engine system with automatic transmission, mounted in a transportable metal frame.
- Centralized control for all engine operations, including a detailed electrical diagram and component legend.
- OBD II 16-pin connector for real-time parameter monitoring, fault code management, and performance element activation.
- Access points for measuring and monitoring component and circuit parameters.
- Jumper-based system for simulating various engine faults and operational changes.
- Includes fuel pump, injectors, ignition coils, throttle position sensor, camshaft position sensor, lambda sensor, knock sensor, speed sensor, air mass meter, intake air temperature sensor, coolant temperature sensor, and TCCS control module.





## Value for Students

- Fully operating 4-cylinder EURO 5 multi-point injection (MPI) petrol (gasoline) engine with automatic transmission gives real experience on multi-point injection fuel injection, exhaust, cooling systems, wiring and other components working principles.
- Use the OBD 16-pin diagnostic connector to perform ECU identification, read and erase fault codes, display live data, and test actuators. Learn to interpret real-time data and understand system parameters.
- Learn to identify and diagnose engine faults by manipulating jumpers to simulate various operational failures, enhancing problem-solving skills.
- Measure and monitor working parameters of key components, such as the fuel pump, injectors, ignition coils, sensors, and control valves, using open contacts and a detailed circuit diagram.
- Understand the function and operation of sophisticated components like the throttle position sensor, camshaft position sensor, lambda sensor, knock sensor, air mass meter, and coolant temperature sensor.
- Work with safety removable panels that protect against hot and rotating parts, enhancing both learning and safety. You can access its components for maintenance directly through removable panels.



## Value for Instructors

- Offers a complete functional engine with automatic transmission model ideal for teaching and demonstrating modern engine technology, including multi-point injection systems, cooling and exhaust management.
- Utilize the control panel, electrical diagrams, and component markings to provide detailed explanations and facilitate in-depth understanding of engine systems. The integrated OBD diagnostic connector enables detailed training in fault code management, system parameter analysis, and actuator testing.
- Built with a closed metal frame construction with removable panels, ensuring durability and ease of maintenance. The compact design integrates an instrument cluster, measurement, and fault simulation panel within a sturdy structure and internal wiring.
- Allows instructors to demonstrate and simulate a wide range of faults, providing students with valuable troubleshooting practice.
- Mobile and space saving stand, allows concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- The training stand is designed for simplicity, requiring only small adjustments to reset to default parameters, making it easy to prepare and start each lesson quickly and efficiently.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.



## Specifications

- Dimensions: 1200 x 1000 x 1500 mm (47.24 in×39.37 in×59.06 in)
- Weight: approx.: 300 kg (660 lb)
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