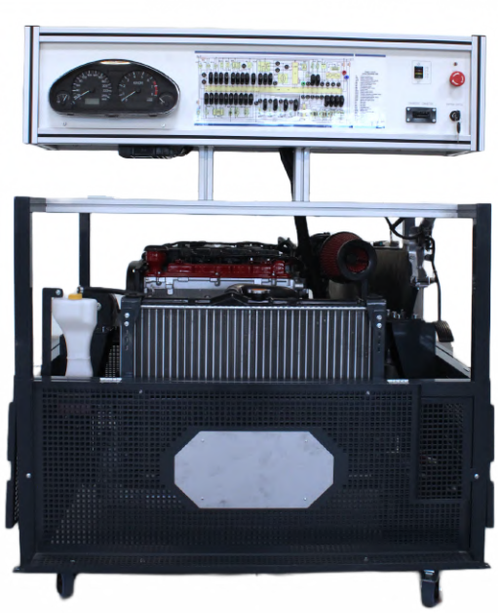
PETROL (GASOLINE) ENGINE TRAINER WITH DIRECT INJECTION SYSTEM (GDI) EURO3

A8 Product number MVGDI01

Educational Petrol (Gasoline) Engine Trainer is a fully functional GDI engine with EURO3 standards, mounted on a mobile metal frame. It features an OBD II diagnostic connector, fault simulation capabilities, and an adjustable control panel with essential diagnostic tools. This trainer provides a hands-on learning experience with OEM parts for students and instructors, allowing them to study engine components, wiring diagrams, and control systems, as well as practice real-world diagnostic procedures. It utilizes OEM components, ensuring a realistic and safe training environment, and its mobile design facilitates easy movement and integration into various classrooms.

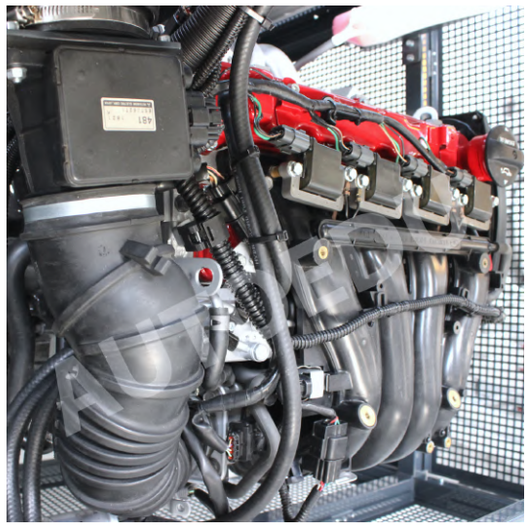


Features

- Fully functional GDI EURO3 engine operates with direct fuel injection and is representative of modern internal combustion engines.
- Equipped with an OBD II diagnostic connector for real-time parameter monitoring and fault management.
- Removable jumpers and electrical contacts enable simulation of system failures and performance issues.
- Includes a dashboard, electrical diagram with measuring contacts, fuse box, battery connection indication, STOP switch, and ignition key.
- Accelerator pedal and clear fuel level indicator included for practical engine operation.
- Mounted on a robust metal frame with transport wheels for ease of movement and stability.

Value for Students

- Fully operational GDI petrol (gasoline) engine, providing practical experience with a contemporary fuel injection system.
- Utilize the OBD II diagnostic connector to monitor engine parameters, read and clear fault codes, and activate performance elements, enhancing troubleshooting skills.
- Experience real-world diagnostics by simulating engine failures using removable jumpers and electrical contacts. Observe how these failures impact engine performance and learn corrective measures.
- Access electrical diagrams with measurement contacts and jumpers for real-time analysis of system components and circuits. This facilitates a thorough understanding of engine component interactions and performance metrics.
- Operate the engine similarly to standard automotive applications, allowing students to apply theoretical knowledge to practical scenarios, including fuel management and engine control.
- Study engine components, wiring diagrams, and control systems via a clearly labeled dashboard and instructional aids, reinforcing comprehension of complex systems.



Value for Instructors

- Effective visual and practical aid for explaining engine construction, operation, and diagnostics.
- Uses OEM components for easy, safe, and realistic training that mimics real car.
- The mobile frame designed for easy movement and integration into various classrooms. Allows concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- Supports a range of educational activities, from basic engine operation to advanced diagnostic procedures, accommodating diverse instructional needs.
- The integration of OBD II diagnostics and fault simulation tools provides students with a realistic and practical learning environment for engine troubleshooting and performance evaluation.
- The intuitive control panel with labeled components simplifies lesson preparation and ensures a straightforward teaching experience.
- Removable panels that protect against hot and rotating parts, while allowing easy access to the engine for maintenance and instructional purposes.
- Closed steel frame with internal wiring for clean and safe learning environment while maintaining the model's durability.
- Requires small adjustments to reset to default parameters, making it easy to prepare and start each lesson.
- 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)
- Power Supply: 12 V battery
- Product number: MVGDI01