



EDUCATIONAL DIESEL ENGINE TRAINER WITH VE PUMP (TDI) EURO 2

A9

Product number
MVVE01



Fully functional legendary 1.9 TDI engine with a VE pump, designed to meet EURO 2 standards. Equipped with real-time diagnostics via an OBD 16-pole diagnostic socket, this trainer allows fault code simulations and includes open contacts for measuring components and circuits. It offers an immersive and hands-on learning experience for technical and vocational automotive education.



Features

- Fully operational OEM diesel engine with VE pump meeting EURO 2 standards.
- OBD 16-pole diagnostic socket for real-time fault code reading and system analysis.
- Functional systems include ignition, cooling, fuel injection, throttle, exhaust, and timing.
- Removable panels for easy access, maintenance, and student safety from moving or heated parts.
- Open contacts for measuring system components and analyzing circuits.
- Fault code simulations for advanced troubleshooting and practical training.
- OEM components used to replicate a real-world automotive experience.



Value for Students

- Learn the operation of engine components, including the VE pump, fuel injection, ignition, cooling, and exhaust systems.
- Analyze engine working principles in real-time, gaining insights into timing, throttle control, and solenoid functions.
- Operate a fully functional engine system that starts and runs, offering hands-on experience with a live diesel engine.
- Perform diagnostics using the OBD socket, enabling fault code reading, live data monitoring, and troubleshooting real engine issues.
- Study core systems such as fuel injection, ignition, charging, and exhaust, while understanding the role of sensors, solenoids, and wiring.
- Utilize open contacts for precise measurement of electrical signals, enhancing the understanding of engine electronics and mechanics.
- Safely practice diagnostics and repairs with removable panels that allow access to internal components while protecting students from moving and hot parts.

Value for Instructors

- Provide students with real-world experience using OEM automotive parts, replicating the functionality of an actual diesel engine.
- Offer comprehensive training on essential systems such as cooling, fuel injection, and timing, preparing students for practical applications.
- Create fault scenarios and utilize fault code simulations to train students in advanced diagnostic techniques.
- Ensure easy maintenance and safe teaching with removable panels that provide clear visibility of components and protect students.
- Enable detailed electrical and mechanical diagnostic training for a complete understanding of diesel engine systems.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.

Specifications

- Power supply: 12V battery, diesel fuel
- Product number: MVVE01