



# DIESEL ENGINE TRAINER WITH CR (COMMON RAIL) SYSTEM EURO 3

A9

Product number  
MVCR01



Fully operational diesel engine with a Common Rail (CR) fuel injection system. It includes an OBD 16-pin diagnostic connector, integrated fault simulation with 12 switches, and banana plugs for measuring electrical signals. The trainer is housed in a closed steel frame with removable panels for safety and a control panel for interactive learning.



## Features

- Fully functional diesel engine model, equipped with a Common Rail (CR) fuel supply system, cooling system, power supply system, intake and exhaust system for detail training.
- OBD 16-pin diagnostic connector for ECU scanning, fault code management, and live data display.
- More than 20 faults simulation via switches for practical fault diagnosis and system testing.
- Safety removable panels for easy access to engine components, closed frame structure protects internal wiring for accident damage.
- Integrated banana plug jumpers for measuring electrical signal parameters and fault simulation.





## Value for Students

- Explore the operation of a diesel engine with a CR fuel system, learn fuel delivery, cooling, power supply, intake, exhaust, alternator and other essential systems. Clear access to components such as the fuel injectors, rail, and sensors for detail study of their functions and interactions.
- OBD 16-pin diagnostic socket for real-time diagnostics, read and erase fault codes, monitor live data, and perform actuator tests. Fault simulation switches for replication of over 20 different engine faults.
- Safety panels and an open design allow easy access to the engine and its components. This accessibility gains understanding of the engine's structure and operational principles.
- The ability to measure system parameters via banana connectors and simulate faults provides a realistic learning environment. Students can measure electrical signals, diagnose component failures, and analyze system responses.



## Value for Instructors

- Effective educational rig for teaching diesel engine systems and diagnostic procedures. It offers OEM based platform for demonstrating the operation and troubleshooting of modern CR fuel injection systems.
- Removable panels for safety to protect against hot and rotating parts. Allowing easy access to the engine for maintenance and service purposes.
- OBD 16-pin connector and fault simulation features for diagnostic training. Teachers can guide students through various diagnostic techniques and fault simulations.
- 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.
- 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.

## Specifications

- Dimensions: 1550 x 1000 x 1200 mm (61.02 in×39.37 in×47.24 in)
- Weight: approx. 350 kg (770 lb)
- Power Supply: 12V battery, Diesel fuel
- Product number: MVCRO1

