



# DIESEL ENGINE TRAINER WITH CR (COMMON RAIL) SYSTEM EURO 5

A9

Product number  
MVCR03



A self-contained, fully operational EURO5 diesel engine model in a mobile frame. This training engine is specially designed to demonstrate Common Rail diesel injection system and operational structure.

The training engine allows students to learn the structure of the engine and its components, power supply system, cooling system, engine control system. It also allows to study components and operation modes of the engine control system, perform various measurements, tests and other diagnostic procedures.



## Features

- EURO 5 engine with Common Rail (CR) diesel injection system, cooling system, power supply system, and exhaust system based on Renault original components.
- Understand control unit for accurate representation of engine management and diagnostics.
- Provides protection against hot and rotating parts while allowing clear visibility and easy access to engine components.
- Open contacts with banana plug jumpers for fault simulations and measurements. Supports fault code simulations and diagnostic procedures.
- Features OBD II 16-pin connector for comprehensive engine control unit diagnostics, including fault code reading/erasing, live data display, actuator activation, and control unit coding.
- Includes an integrated emergency stop button for immediate shutdown in case of an emergency.





## Value for Students

- Learn EURO 5 diesel engine's with Common rail (CR) injection system physical components, including the power supply system, cooling system, and exhaust system. The model features removable safety panels for clear visibility and hands-on access to internal engine parts.
- Learn about the operation of the engine's power supply and cooling systems. The model includes a complete Common Rail fuel supply system and cooling mechanisms.
- Understand engine control system, including its operational modes and diagnostic features. Understand how the control unit manages engine performance and functions.
- Perform various measurements and diagnostic tests. The training model includes open contacts and built-in banana plug jumpers for system fault simulations and diagnostics.
- Simulate and diagnose over 20 different faults by disconnecting banana plug jumpers, increase troubleshooting skills and problem-solving abilities.
- OBD II 16-pin diagnostic connector to read and erase fault codes, display live system parameters, activate actuators, and perform throttle adaptation and control unit coding.



## Value for Instructors

- The model with OEM EURO 5 engine components and a fully operational Common Rail diesel injection system. Students get real experience with all parts and functions exact as in real cars.
- Safety is prioritized with removable panels that protect against hot and rotating parts, while allowing easy access to the engine for maintenance and instructional purposes.
- Equipped with an OBD II 16-pin diagnostic connector, the model supports comprehensive ECU diagnostics, including fault code management and live data monitoring.
- The mobile frame design ensures easy movement and integration into various classroom settings, optimizing space usage and enabling flexible teaching arrangements. Allows concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- The training model features a closed steel frame with internal wiring securely contained, promoting a clean and safe learning environment while maintaining the model's durability.
- 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.

## Specifications

- Dimensions: 1550 x 1000 x 1200 mm (61.02 in x 39.37 in x 47.24 in)
- Weight: approx. 350 kg (770 lb)
- Product number: MVCRO3