



TRUCK DIESEL ENGINE WITH COMMON RAIL (CR) SYSTEM EDUCATIONAL TRAINER

A9/A2

Product number

MVSCR06



Fully operational truck diesel engine model in a mobile frame. This training engine is specially designed to demonstrate common rail (CR) 6-cylinder diesel injection system and operational structure. The educational training engine is based on OEM components with functional engine control system. This fully functional model includes a CR fuel supply system, instrument cluster, cooling system, power supply, and exhaust system, providing a realistic and hands-on educational experience. Also allows to study components and operation modes of the engine control system, perform various measurements, tests and other diagnostic procedures.



Features

- Includes common rail (CR) 6-cylinder diesel injection system, cooling system, power supply system, and exhaust system based on Renault original components.
- Utilizes a 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, live data display, actuator activation, and control unit coding.
- Includes an integrated emergency stop button for immediate shutdown in case of an emergency.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.



Value for instructors

- The model with OEM truck 6-cylinder inline diesel engine components and a fully operational CR diesel injection system. Students gets 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.



Value for students

- Learn common rail (CR) 6-cylinder inline diesel engine's 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 (CR) fuel supply system and cooling mechanisms.
- Perform various measurements and diagnostic tests. Measure electrical signal parameters of each system component using an oscilloscope or multimeter, connecting through built-in banana plug connectors.
- Simulate and diagnose over 10 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.

Specifications

- Dimensions: 1900 x 2600 x 1100 mm (74.80x102.36x43.31 in)
- Weight: approx. 950 kg (2100 lb)
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