



# TRACTOR (FARM) DIESEL ENGINE WITH CR SYSTEM

A9

Product number

MVTCR01



Educational tractor diesel engine with Common Rail (CR) system based on a John Deere engine, this advanced training model integrates a fully functional 4-cylinder in-line diesel engine with Common Rail (CR) fuel injection system, ideal for educational activities in understanding automotive parts, systems, and diagnostics.



## Features

- Based on a John Deere 4-cylinder in-line diesel engine with Common Rail (CR) fuel injection system.
- Includes diagnostic socket for detailed engine diagnostics.
- Features open contacts for measuring and monitoring system components and circuits.
- Equipped with removable jumpers for fault simulation and diagnostics.
- Includes engine controls and a detailed wiring diagram with labeled components and legend for easy reference.
- Removable panels for protection against hot and rotating parts.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.





## Value for Students

- Fully functional John Deere Common Rail (CR) diesel engine, to understand the principals of diesel engine systems, exhaust, cooling, ignition, fuel injection, electric wiring, electric starter, generator and other systems.
- Learn to monitor engine parameters using diagnostic socket. Ability to read and erase fault codes, see live data parameters, adjust system.
- Use open contacts to measure system components and ongoing processes with a real-time data oscilloscope, multimeter or scan tool. Measure high voltage circuit of the ignition system.
- Conduct detailed measurements of system components and ongoing processes using open contacts, enhancing technical proficiency in engine diagnostics and fault simulation.
- Develop troubleshooting skills by simulating and diagnosing faults through removable jumpers, providing a clear understanding of how various components interact and affect engine performance.



## Value for Instructors

- Demonstrate the structure, operation, and diagnostics of a tractor diesel engine with Common Rail system, using OEM components for an authentic learning experience.
- Features removable safety panels and a closed structure to prevent exposure to hot and rotating parts, ensuring a safe learning environment.
- The integrated diagnostic socket enables detailed training in fault code management, system parameter analysis, and actuator testing.
- Space-Saving, functional and durable Design: compact and vertically oriented for enhanced mobility and efficient use of classroom space. Durable construction makes it long lasting and safe to use. Closed panels and internal wiring makes it safe to use and ensures accidental damage to sensitive training stand parts.
- Provide students with a practical, hands-on learning tool that simplifies complex concepts through visual aids like the engine wiring diagram and labeled components.
- Allows instructors to demonstrate and simulate a wide range of faults, providing students with valuable troubleshooting practice.
- 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.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.



## Specifications

- Dimensions: 1580 x 1090 x 1635 mm (62.20 in x 42.91 in x 64.37 in)
- Power supply: 2 x 12 V battery pack (integrated)
- Fuel type: Diesel
- Engine type: 4-cylinder in-line
- Product number: MVTCR01