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Product Name :

Engine Trainer Diesel Common Rail engine with all components, Break-Out Boxes and OBD

Product Code : LIM-CAT-L0072-00059



Description :

Engine Trainer Diesel Common Rail engine with all components, Break-Out Boxes and OBD

Technical Specification :

Engine Trainer: Diesel Common Rail engine with all components, Break-Out Boxes & OBD Built on a mobile frame made of high-strength aluminum profile

Instrument cluster, fuse block, ignition start switch, emergency stop switch and component simulation are installed on the control panel on the front side.

Component simulation with representation of different operating conditions and emergency running characteristics

manipulation of single sensors possible

Reaction of the engine management e.g. by evaluation of measured value blocks or error entries visibly comprehensible

Original OBD interface

Interface for student measuring stations

Possibility of connecting workshop-standard diagnostic systems

Pull-out drawer for measuring instruments, laptop or work documents

Built-in and lockable fault circuit with 24 different electrical faults within the engine control system, the voltage supply system, the fuel injection system and the fuel supply system switchable

Resulting malfunctions enable the instructor to perform various realistic learning situations.

Troubleshooting with break-out boxes with test adapter for engine management available

Signals and voltage values of all system-relevant parts and components can be measured or diagnosed Optionally, parallel measuring adapters can be installed at the plug connections of the components to which faults can be applied Dismantling-free measurement of the electrical line connections, including in hard-to-reach places. Residual bus simulation for the generation of required signals of drive components that are not installed, in order to ensure proper function and diagnostic capability without restriction Rotating components and assemblies with high operating temperatures are protected against accidental contact. All components used for real function are original components of the respective manufacturers. Details: Testing and repair of mechanical, electrical and electronic circuits and systems Assembly and disassembly work on the engine Working with maintenance and circuit diagrams Measuring electrical variables and signals, as well as documenting and evaluating them Identifying individual components and becoming familiar with their operating characteristics and parameters Learning to use standard workshop diagnostic equipment Working with electrical and mechanical measuring and testing devices, e.g. return flow measurement Checking components in order to be able to decide on necessary repair measures Learning objectives: Working with maintenance plans, circuit diagrams, circuit symbols, terminal designations, lines, line connections Naming mechanical, electrical and electronic components, assemblies and systems Testing and repairing mechanical, electrical and electronic circuits and systems Selecting and using mechanical and electrical measuring and testing devices Measuring and evaluating electrical quantities and signals Documenting work results and evaluating them by comparing them with calculated variables and manufacturer specifications Utilize the capabilities of shop diagnostic equipment Incorporating problem-solving strategies or alternatives during diagnosis Documenting measured values, signals and error logs and analyzing and evaluating them Checking individual components and deciding on necessary repair measures. Scope of Delivery: Ready-to-use and mobile functional model incl. fault circuit, data sheets, circuit diagrams and operating instructions and interface for student measuring station. All original components of the respective manufacturer required for function Control panel with instrument cluster, ignition start switch, emergency stop switch and OBD connection Lockable component condition simulation for manipulating various sensor values and for displaying emergency running characteristics Interface for student measuring station Fuel tank made of sheet steel (20 liters) with original inline fuel pump, control unit for fuel pump and closed original tank venting system Level indicator via instrument cluster Battery master switch Adapter cable set Break- Out Boxes ECU incl. Mounting frame.



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