



PETROL(GASOLINE) ENGINE TRAINER WITH DIRECT INJECTION SYSTEM TSI EDUCATIONAL TRAINER

A1-A8

Product number
MVTSI02



Fully functional 1.2 TSI 4-cylinder, 8 Valve, OHC engine, diagnostic capabilities via OBD 16 pole diagnostic socket, and open contacts for system component and circuit measurements. Designed for technical and vocational automotive education, it includes fault code simulations for practical troubleshooting training.



Features

- 4-cylinder, petrol(gasoline) 1.2 TSI, 8 Valve, OHC engine for realistic training.
- OBD 16-pin diagnostic connector for ECU identification, fault code management, live data display, and actuator testing.
- Includes open contacts for measuring system components and circuits, enhancing diagnostic and analytical skills.
- Allows simulation of fault codes for practical troubleshooting training.
- Uses original equipment manufacturer parts for an authentic learning experience.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.





Value for instructors

- Offers a complete functional engine model ideal for teaching and demonstrating modern engine technology, including direct injection systems, turbocharging, and exhaust management.
- Features removable safety panels and a closed structure to prevent exposure to hot and rotating parts, ensuring a safe learning environment.
- The integrated OBD diagnostic connector enables detailed training in fault code management, system parameter analysis, and actuator testing.
- Built with a closed steel frame construction, ensuring durability and ease of maintenance. The compact design integrates an instrument cluster, measurement, and fault simulation panel within a sturdy structure.
- 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.



Value for students

- Learn with real OEM 1.2 TSI engine, gaining hands-on experience with direct petrol(gasoline) injection systems, turbochargers, cooling and exhaust systems.
- Use the OBD 16-pin diagnostic connector to perform ECU identification, read and erase fault codes, display live data, and test actuators. Learn to interpret real-time data and understand system parameters.
- Simulate over 30 different faults by disconnecting banana plug jumpers, practice troubleshooting and diagnostic skills.
- Measure electrical signal parameters of system components, including high-voltage ignition circuits, using integrated banana plug connectors and diagnostic tools such as oscilloscopes and multimeters.
- Analyze exhaust gas before and after the catalytic converter to study emission control and evaluate system performance.



Specifications

- Engine Type: 4 cylinders in line, 1.2 TSI, 8 Valve, OHC
- Product number: MVTSI02