



ELECTRONIC STEERING RIG EDUCATIONAL TRAINER

A4

Product number
MSEVS01



Fully functional educational tool designed to demonstrate and analyze electric hydraulic power steering systems. It features a rack-and-pinion steering mechanism integrated with an electro-hydraulic power steering system, driven by an electric motor and hydraulic pump. The trainer includes a comprehensive control panel with an OBD 16-pin diagnostic connector for fault code reading, RPM simulation, and driving speed adjustment. It is equipped with essential components such as a tachometer, speedometer, hydraulic fluid tank, and various switches



Features

- Steering Mechanism: Rack-and-pinion steering integrated with an electro-hydraulic power steering system.
- Equipped with an OBD 16-pin diagnostic connector for fault code reading and system analysis.
- Includes switches for simulating RPM, driving speed, and system monitoring.
- Four casters with brakes for easy mobility and stable positioning.
- Features for RPM simulation, speed adjustment, and fault simulation.





Value for Students

- Fully operational OEM based electric hydraulic power steering system.
- Use the OBD 16-pin diagnostic socket to read fault codes, monitor system data, and simulate various failures.
- Study how driving speed and steering angle affect the performance of the hydraulic pump and electric motor.
- Analyze the roles of the steering angle sensor, power steering control unit, and electric motor in adjusting steering assistance.
- Utilize components such as tachometers and speedometers to measure system parameters and simulate driving scenarios.



Value for Instructors

- Demonstrate the structure and function of electric hydraulic power steering systems effectively.
- Facilitate hands-on learning with real-world components like steering columns, hydraulic pumps, and diagnostic tools.
- Use included wiring diagrams, legends, and diagnostic connectors for clear instructional support.
- OBD 16-pin connector and fault simulation features support extensive diagnostic training. Teachers can guide students through various diagnostic techniques and fault simulations, enhancing their practical skills and understanding of engine diagnostics.
- The mobile frame designed for easy movement and integration into various classrooms. Allows concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- Closed steel frame with internal wiring for clean and safe learning environment while maintaining the model's durability.
- Requires small adjustments to reset to default parameters, making it easy to prepare and start each lesson.

Specifications

- Dimensions: 1000 x 560 x 1200 mm (39.37 in×22.05 in×47.24 in)
- Weight: approx. 56 kg (123 lb)
- Power supply: 12V battery
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