LIGHTING EDUCATIONAL TRAINER

A6

Product number
MSAS02-T7

Automotive lighting educational simulator using VW/AUDI OEM components. It integrates a detailed electric wiring diagram with banana plug jumpers for measurements, diagnostics and connections. Equipped with an OBD 16-pin diagnostic connector for fault code management, live data display, and ECU identification. The system allows for adjustable headlight beam levels and includes diagnostic tools such as oscilloscopes and multimeters.

Features

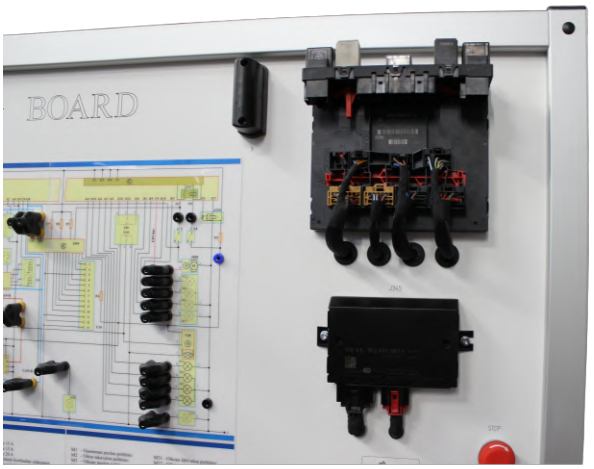
- Based on VW/AUDI OEM components, utilizes authentic parts for accurate representation of automotive lighting systems.
- Integrated Trailer 7-pin socket package (ISO1724) for trailer connection learning.
- Integrated OBD 16-pin connector for diagnostic functions, including fault code management and live data display.
- Front headlights equipped with motors for precise beam adjustment.
- Electrical wiring diagram includes built-in banana plug jumpers and open contacts for component measurement and circuit testing.
- Compatible with oscilloscopes, multimeters, and optional headlight testers for comprehensive analysis.
- Ability to simulate faults by disconnecting jumpers and observing system changes.
- Mobile aluminum frame ensures durability and ease of movement within educational settings.

Value for Students

- Understanding of automotive lighting systems by analyzing the structure, operation, and components of front and rear lighting assemblies, including fog lights and high-level brake lights and trailer 7-pin socket.
- Use the built-in OBD 16-pin diagnostic connector to diagnose and troubleshoot lighting system issues. Learn to read and erase fault codes, identify Electronic Control Units (ECUs), and display live system data.
- Employ banana plug jumpers and open contacts for accurate measurements and connection of system components. Utilize oscilloscopes and multimeters to measure electrical signal parameters and analyze system behavior.
- Conduct practical tests on various lighting components and control units, including headlight range control, trailer detection, and signaling devices. Simulate faults by removing jumpers and observe how these faults impact system operation.
- Practice adjusting the beam levels of front headlights using integrated motors. Optionally, use a headlight tester to refine and confirm beam alignment.

Value for Instructors

- The stand's use of OEM components and realistic control interfaces provides an authentic learning experience, replicating actual vehicle lighting systems.
- The clear layout of control buttons, electrical diagrams, and diagnostic interfaces simplifies instruction and allows for efficient setup and operation of training sessions.
- The OEM-based system allows students to be trained in diagnostics using almost any multibrand, specialized or OEM scan tools, ensuring a safe and high-quality learning environment.
- Board on castors version, which is mobile and space saving in the classroom, allows concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- Simulate faults and measure system parameters to create dynamic, interactive lessons that enhance student engagement and understanding.
- 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.



Specifications

- Dimensions: 1820 x 1360 x 500 mm (71.65 in×53.54 in×19.69 in)
- Weight: approx. 60 kg (132 lb)
- Power supply: 12V battery (optional), or 220 (110V)/12V power supply unit
- Product number: MSAS02-T7