CAN BUS EDUCATIONAL TRAINER

A6 | Product number
MSCAN01

Educational trainer designed to provide an understanding of the CAN BUS network system through hands-on experience. Based on OEM components from Mercedes-Benz, featuring the CAN GATEWAY 2.0 system. The trainer includes components such as the dashboard, engine ECU, smart key module, SRS Airbag ECU, and various control modules, all connected through a detailed internal network. It offers a realistic and practical approach for students to learn about CAN BUS networks, including the diagnosis of system faults and component interactions.

Features

- Includes dashboard, engine ECU, smart key, ignition module, lock module, SRS Airbag ECU, central CAN Gateway module, door control modules, and window lifting motors.

- Capable of simulating over 10 different system faults, including open and short circuits, and incorrect signal levels.

- Equipped with banana plug connectors for measuring electrical parameters, and supports diagnosis through an OBD II 16-pin diagnostic connector.

- Allows diagnosis of each control module individually, with capabilities to read/erase fault codes, display live data, and perform actuator tests.

- Features an integrated wiring diagram with open contacts for detailed measurement and analysis, helping students understand component connections and functions.

Value for instructors

- Fully functional CAN BUS network system based on OEM Mercedes-Benz components, ensuring an authentic learning experience for students.

- Detailed instruction in fault diagnosis using modern diagnostic tools. Demonstrate complex concepts like ECU identification, fault code management, and actuator control.

- Simulate faults and measure system parameters to create dynamic, interactive lessons that enhance student engagement and understanding.

- Professional Preparation: 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.

Value for students

- Understand the structure and operation of the CAN BUS network, including the CAN Gateway system and its interactions with various components such as the dashboard, engine ECU, and central locking modules.

- Simulate over 10 system faults and diagnose them using OBD II 16-pin connectors. This includes reading and erasing fault codes, and activating or configuring control units.

- Use banana plug connectors to measure electrical parameters of system components, including window lifting motors, control modules, and the CAN gateway system.

- Perform diagnostic procedures with oscilloscopes and multimeters. Analyze system parameters and electrical signals, and diagnose each control module separately to gain proficiency in real-world diagnostic techniques.

- Observe and control various components such as window lifting motors and central locking systems via the CAN network. Learn about the communication between modules and how faults affect system operation.

- Provides easy, safe, and comfortable training that builds confidence, using OEM components to offer a realistic car repair experience.

Specifications

- Dimensions: 1820 x 1360 x 500 mm (71.65in x 53.54in x 19.69in)

- Weight: approx. 60 kg (132 lb)

- Power supply: 12V from battery (battery not included as standard accessory)

- Optional accessories: 12V battery, 220 (110V)/12V power supply unit, automotive oscilloscope, CAN network analyzer, OBD diagnostic scan tool

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