AUTOMOTIVE 12V STARTER EDUCATIONAL FUNCTIONAL

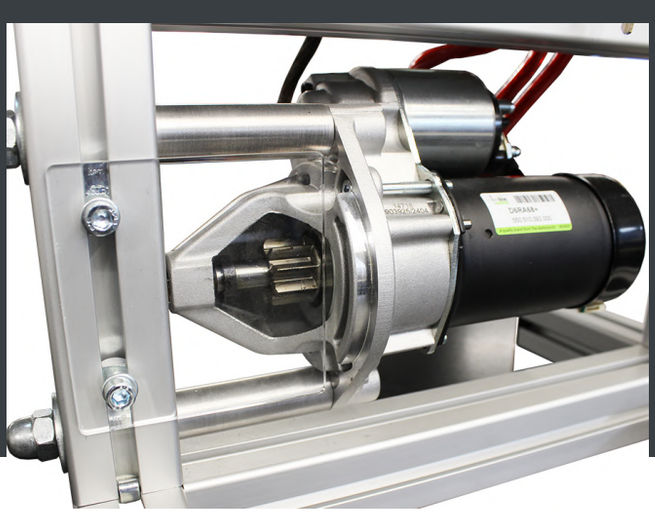
A1

Product number
AVS02

12V Starter Functional Model is a sophisticated educational tool mounted on an aluminum base, featuring authentic automotive components including a bendix drive and ignition switch. This model is equipped with dual operational modes—Mode A for normal starter function demonstration and Mode B for solenoid and coil performance testing. It includes detailed electrical diagrams for both modes and wire loops for current measurement (current clamp meter required separately). The unit's design integrates a protective plexiglass cover, ensuring safety while providing clear

Features

- Incorporates genuine OEM starter motor elements, including the bendix drive and ignition switch, for an authentic educational experience.
- Dual operational modes: Mode A for standard operation demonstration and Mode B for solenoid and coil performance testing.
- Includes diagrams for Modes A and B to facilitate understanding of the electrical pathways and current flow.
- Equipped with wire loops for current measurement (current clamp meter required separately), allowing detailed analysis of electrical consumption during operation.
- Ensures safety and visibility of internal components during operation and demonstrations.

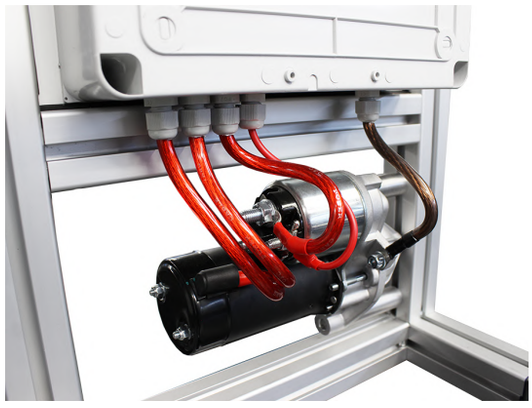


Value for Students

- Gain practical insights into the starter motor's role in rotating the engine crankshaft to initiate combustion. The model demonstrates the starter's interaction with the flywheel ring gear and the application of electromagnetic forces in motor operation.
- Detailed exposure to the starter's components, including the bendix drive, solenoids, and ignition switch, enhances comprehension of each part's function within the system. The model showcases OEM automotive components for realistic hands-on experience.
- Measure the current during starter operation using a current clamp meter (sold separately), allowing them to observe real-time electrical consumption and analyze the power requirements of the starter motor.
- With selectable modes, explore both the functional operation (Mode A) and component-specific demonstrations (Mode B). Mode A allows for real-time operation observation, while Mode B focuses on solenoid functionality and current measurement in various conditions.

Value for Instructors

- Demonstrating the construction, operation, and troubleshooting of starter systems. Teachers can illustrate the principle of electromagnetic force, mechanical movement, and electrical integration in starters.
- The model's dual-mode functionality supports both demonstration and diagnostic training. Teachers can utilize Mode A to show normal operation and Mode B to teach diagnostics of solenoid performance and component faults.
- The inclusion of detailed electrical diagrams and operational switches enables educators to create interactive lessons, allowing students to actively engage with the material and develop practical troubleshooting skills.
- 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 no adjustments to reset to default parameters, making it easy to prepare and start each lesson quickly and efficiently.



Specifications

- Dimensions: 360 x 265 x 520 mm (14.17 in×10.43 in×20.47 in)
- Weight: approx. 9.5 kg (21 lb)
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