



### Product Introduction

The training system is made based on the Volkswagen Passat B5 whole-vehicle electrical system, and complete with auxiliary system and all parts are original, which fully demonstrates the composition structure and working process of whole-vehicle electrical, it is suitable for the teaching requirements of theoretical learning, practical operation, fault setting and diagnosis of whole-vehicle electrical.

### System Composition

Engine control unit, combined instrumentation, throttle body assembly, left front window motor, right front window motor, left front lock block, right front lock block, left rear window motor, left rear lock block, right rear window motor, horn, right rear lock block, right rear lock block,

Rearview mirror switch, left rearview mirror, right rearview mirror, door and window switch, OBDII diagnostic interface, crankshaft position sensor, crankshaft signal generating disk, camshaft position sensor, oxygen sensor, air flow meter (or intake manifold absolute pressure sensor), knock sensor, boost pressure sensor, boost pressure limit solenoid valve, intake air temperature sensor, carbon tank solenoid valve, water temperature sensor, ignition coil, spark plug, fuel nozzle, ignition switch, comfort unit, ignition key with chip,

Anti-theft identification coil, wiper motor, spray pump, generator, starter, battery, sound system, rear taillight, left headlight assembly, right headlight assembly, relay and fuse box, measuring panel and mobile support, supporting the original car circuit diagram etc.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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## Function and Characteristics

1. Fully demonstrate the structure composition and working principle of the whole vehicle electrical system of Passat B5, so that students can more intuitively understand the electrical connection of the whole vehicle;
2. Through the various electrical switches and buttons on the teaching panel, the working process of the automotive anti-theft system, instrument system, lighting system, wiper system, horn system, ignition system, electric Windows, electric door locks, sound system, starting system and charging system is demonstrated.
3. The training platform is equipped with color schematic diagram of the whole car and detection terminals, which can detect various signal parameters such as voltage, resistance, frequency, etc., by special instruments;
4. The training platform is equipped with a diagnostic seat, which can be connected to a special or general vehicle decoder to read the fault code, clear the fault code, read the data stream, perform component testing, parameter setting, waveform analysis and other self-diagnostic functions for the whole vehicle electric system;
5. Fault setting and assessment system: Single and combined faults can be manually set or cleared by using the fault setting box, it covering all faults of sensor, actuator and controller. Fault setting types: Including open circuit, short circuit and other faults, the fault switch back to the initial position, the fault is cleared, can be arbitrarily set compound fault and troubleshooting, using fault Settings to facilitate the assessment for students.
6. The rotating part on the training platform is equipped with a safety cover;
7. Universal caster mobile device with lock, easy to move, easy to teach.

## Training Items:

1. Practical training on the components and control principles of electrical systems;
2. Practical training on the working principles of the whole electrical system: engine electronic control system, instrument system, lighting system, wiper system, horn system, ignition system, electric window system, electric door lock system, audio system, starting system, and charging system;
3. Practical training on real-time detection of voltage, resistance, and signal of various circuit components by using a multimeter/oscilloscope (prepared by user);
4. Practical training on circuit schematic analysis for whole-vehicle electrical each system;
5. Practical training on decoder fault code reading, fault code clearing, data stream reading, programming, and terminal component testing.

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**Technical Specification**

- 1.** Model: Volkswagen Passat B5
- 2.** Input power; Ac 220V±10% 50Hz (Single phase)
- 3.** Working power supply; DC12V
- 4.** Three-phase asynchronous motor:
- 5.** Voltage: AC 220V
- 6.** Power: 2.2KW
- 7.** Current: 5.0A
- 8.** Speed: 1430r/min
- 9.** Working environment temperature: -40°C ~ +50°C
- 10.** Product Size: 2500×850×1850mm (length × width × height)
- 11.** Selection of high quality profile welding, surface spray treatment

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