

**❖ IMAGE****❖ INTRODUCTION**

- Equipment is designed has many independent function modules, separate components. It simulates operating principles, construction of electric wiring and electronic control system on new generation motorcycles.
- Teachers and students can measure; check direct technical parameters or using computer, specialized check equipments.
- Especially, open design of equipment can assemble modules according to requirement of lessons (*from basic to advantage, from simply to complex*). User can compare/discriminate the resemblance and the difference between generations by methods, survey by professional measuring tools.
- Training software is on computer. It supports electric wiring diagram information, basic technical parameters, images, survey charts, and animate lectures.

**❖ APPLICATION**

Used for electronic, electric system training in vocational schools about electric systems and electronic control on modern motorbikes/scooters.

**❖ FUNCTION**


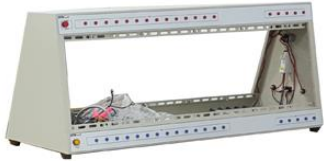




- Equipment provides full pedagogical elements in technical training equipment.
- Equipment is built visually based on real spare parts of FI/PGM-FI motorcycle electronic, electric system of HONDA LEAD 110cc/125cc.
- Connect online, control, simulate, display, diagnose and train for contents as below:
  - + Basic electronic and electric technical in motorcycle repair
  - + Automatic control technical in structure and operation of new generation motorcycle
    - ▶ Electric supply system, charging system, safety starting system
    - ▶ Light system, alarming signal periodic maintenance instruction (*Oil service soon*)
    - ▶ Ignition system (*CDI, TCI*) and electronic fuel injection (*PGM-FI*) include: intake air supply, fuel and electronic control generations
    - ▶ Integrated ECM system (*STARTING, CHARGING, IGNITION, FI, ACG, IDLING STOP, HEAD LAMP...*)
    - ▶ Diagnosis system (*OBD On-Board Diagnostic*) includes protocols: MIL Code, K-line, OBD-II
    - ▶ Digital odometer display system and digital odometer correction
    - ▶ Evaporation emission control system (*EVAPO*)
    - ▶ Alternating Current Generator and starter (*ACG*)
    - ▶ Idling stop system
    - ▶ Engine operation optimum system base on altitude (*ALTITUDE*)
    - ▶ Immobilizer system (*Immobiliser, Security*) and key programming
    - ▶ Safety system and warning system on new generation motorcycles
  - + Common faults on engine control unit (*ECU/ ECM*)
  - + Live data analysis technique in diagnosis, correction and repair complex faults using MOTOSCAN
  - + Idle speed correction, fuel mixture rate and engine power of the electronic fuel injection system








+ Read/ Clear/Reset technique in ECU memory, analyze live data, active actuators using specialized diagnosis tool [MOTOSCAN TAB](#)

+ Look up document, electric diagrams, specifications and repair instruction for motorcycles as: Honda, Yamaha, Piaggio, Suzuki, SYM by [MOTODATA](#) software

+ Thinking, knowledge development about professional electronic repair technical, help students develops self-study habits in the next year.

**❖ COMPONENTS**

No.	ITEM	QUANTITY	IMAGE
01	Moto – Trainer 1.0 software on CD ROM	01	
02	A-frame used to install function modules on training table (integrated 12V 10A and 5V 3A power supply, indicator lamp, power cord...)	06	
03	Basic function modules of electrical systems: - 20 separate function modules - 78 panels	78 panels	
04	Power supply unit	06	
05	Connectors and accessories	06	
06	Sensor heater	03	

07	User guide	01	
08	<a href="#">MOTOSCAN TAB</a> - SMART DEVICE TO DIAGNOSE, REPAIR ELECTRONIC AND ELECTRICAL SYSTEMS FOR NEW GENERATION MOTORCYCLES	06	
09	Technical data software repair motorcycles & scooters: <a href="#">MOTODATA</a>	06	
10	Tool measure electric pulse: AUTOSCOPE	06	
11	Electric measure tool: <a href="#">MULTI - METER</a>	10	
12	The light check ignition timing: <a href="#">IGNITION TIMING LIGHT</a>	03	
13	Tool test compression pressure inside the cylinder and fuel pressure: <a href="#">P TESTER</a>	06	

### ❖ ADVANTAGES

- Equipment is designed has many independent function modules, separate components. It simulates operating principles, construction of electric wiring and electronic control system on new generation motorcycles.

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- Training software is on computer. It supports electric wiring diagram information, basic technical parameters, images, survey charts, and animate lectures. ([click here to view training content](#))

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