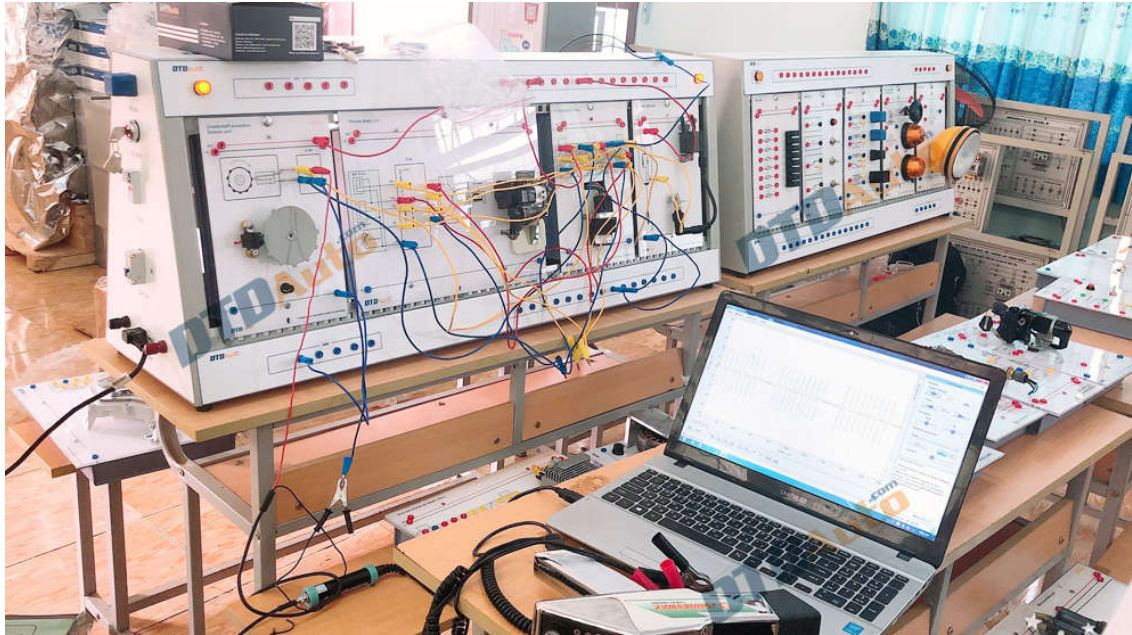


❖ IMAGE**❖ INTRODUCTION**

- 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


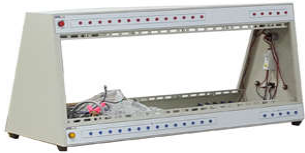




- Equipment provides full pedagogical elements in technical training equipment.
- Equipment is built visually based on real spare parts of FI/PGM-FI motorcycle electronic, electric system of HONDA LEAD 110cc/125cc.
- Connect online, control, simulate, display, diagnose and train for contents as below:
 - + 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

+ 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...)	02	
03	Basic function modules of electrical systems: - 26 separate function modules - 38 panels	26	
04	Power supply unit	01	
05	Connectors and accessories	01	
06	Sensor heater	01	

07	User guide	01	
08	Scanner for PGM/FI motorcycles & scooters: <u>MOTOSCAN 6.2</u>	01	
09	Technical data software repair motorcycles & scooters: <u>MOTODATA</u>	01	
10	Tool measure electric pulse: <u>AUTOSCOPE</u>	01	
11	Electric measure tool: <u>MULTI – METER</u>	01	
12	The light check ignition timing: <u>IGNITION TIMING LIGHT</u>	01	
13	Tool test compression pressure inside the cylinder and fuel pressure: <u>P TESTER</u>	01	
14	An accessory of MOTOSCAN to repair, reinstall and upgrade the ECU firmware for motorcycle/ scooter: <u>MOTOBOX</u>	01	

❖ 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.
- 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. ([click here to view training content](#))

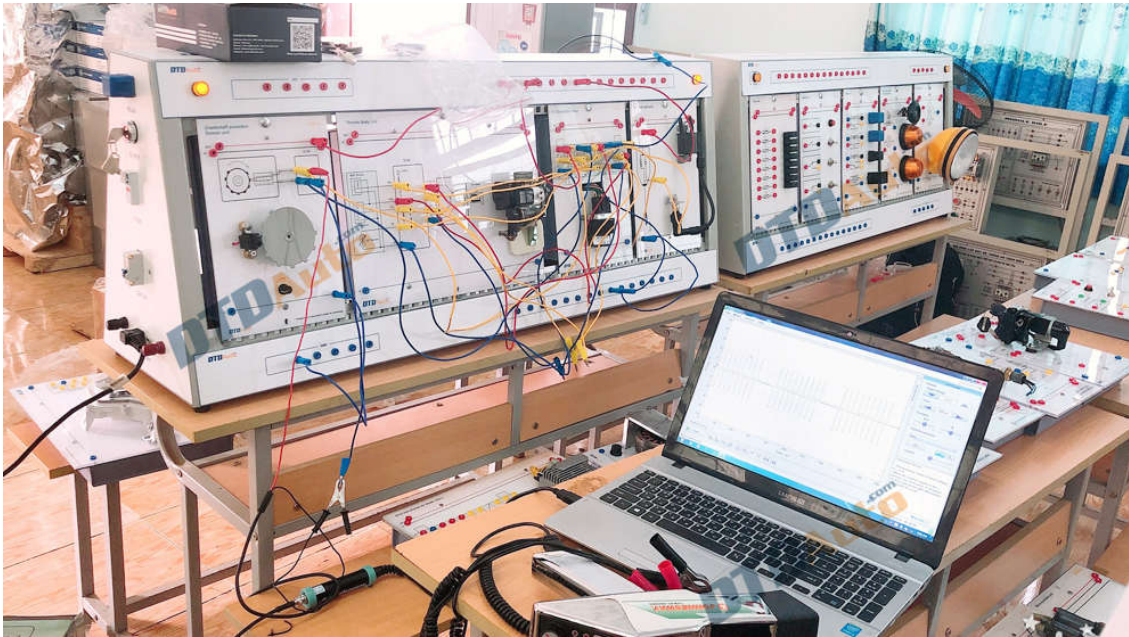
DTDAUTO VIETNAM Co., Ltd

Phone: 1900 2228

Email: dtauto@gmail.com; dtdung@iop.vast.ac.vn

Web: www.dtdauto.com ; www.cartools.com.vn ; www.cartraining.com.vn

(Customers can save this information to contact when needed)

❖ 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 ABS & Smart key system training in vocational schools about modern motorbikes/scooters.

❖ FUNCTION

Equipment provides full pedagogical elements in technical training equipment.

- Equipment is built visually based on real spare parts of ABS & Smart key system of HONDA LEAD 110 and AIR BLADE 125.
- Connect, 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 motorbike/scooter

+ ABS system on new generation motorbike/scooter:




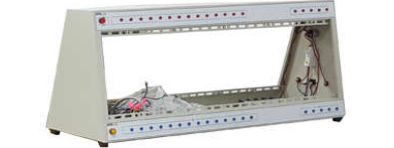


- ▶ The relationship between brake system and ABS
- ▶ The scientific basis, structure, functions, principles and activity of ABS
- ▶ Structure and operating principle of ABS input signals
- ▶ Structure and operating principle of signals and output device of ABS
- ▶ Diagnose fault, analyze fault and live data of ABS system on MOTOSCAN and MOTODATA software.




+ Smart key system on new generation motorbike/scooter

- ▶ The scientific basis, structure, functions, principles and activities of Smart key
- ▶ FOB, SCU, ECM and EEPROM technologies
- ▶ Registration process and synchronization of FOB - SCU - ECM in Smart key
- ▶ Structure and operating principle of signals and input device of Smart key system
- ▶ Structure, operating principle and control algorithm of SCU
- ▶ Structure and operating principle of signals and output device of Smart key system
- ▶ Principle and registration technique for FOB by MOTOSCAN and MOTODATA
- ▶ Principle and using activation for FOBs by MOTOSCAN and MOTODATA
- ▶ Principle, KEY ID deleting technique and Reset SCU when SCU has full 04 KEYS by MOTOSCAN and MOTODATA
- ▶ Principle, FOB cancel technique when lost FOB by MOTOSCAN and MOTODATA
- ▶ Principle, SCU/ECM synchronous technique when replace new SCU/ECM by MOTOSCAN và MOTODATA

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

❖ **COMPONENTS**

No.	ITEM	QUANTITY	IMAGE
01	HONDA ABS equipment (VE panel)	01	
02	PIAGGIO/VESPA ABS equipment (VE panel)	01	
03	HONDA SH SMK equipment (VE panel)	01	
04	HONDA LEAD SMK equipment (VE panel)	01	
05	A-frame used to install function modules on training table (integrated 12V 10A and 5V 3A power supply, indicator lamp, power cord...)	02	
06	User guide	01	
07	Scanner for PGM/FI motorcycles & scooters: MOTOSCAN 6.2	01	
08	Technical data software repair motorcycles & scooters: MOTODATA	01	

09	HONDA Smart key package	01	
10	Tool test compression pressure inside the cylinder and fuel pressure: AUTOSCOPE	01	
11	Electric measure tool for cars and motorcycle: MULTI – METER	01	

❖ **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.
- 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. ([click here to view training content](#))

DTDAUTO VIETNAM Co., Ltd

Phone: 1900 2228

Email: dtdauto@gmail.com; dtdung@iop.vast.ac.vn

Web: www.dtdauto.com ; www.cartools.com.vn ; www.cartraining.com.vn

(Customers can save this information to contact when needed)