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OBD-II SENSOR KIT FOR TRAINNING

Model: SENSOR KIT-13 (Updated 26/02/2025)

❖ IMAGE



Image of SENSOR KIT - 13 full set

*** OVERVIEW**

- SENSOR KIT-13 is a product of DTDAUTO Vietnam in 2013
- SENSOR KIT-13 designed used for vocational training of vehicle electronic fuel injection system
- SENSOR KIT-13 is a compact, flexible, effective teaching device, suitable for research and indepth training of students in automotive electricity and fuel. Very convenient for teaching in many places moved by personal motorcycle or cars.
- Equipment building on real parts of the Toyota electronic fuel injection system with full function as "Input, ECU, Output"

PURPOSE

Teaching aids and learning aids for teachers and students of automobile vocational training schools:

- Understand basic sensors on the new OBD-II standard of Cars
- Understand the structure, principles and operating principles of sensors with fuel injection and electronic ignition system
- Understand, analysis the dependence between the INPUT (signal input sensors) and OUTPUT (signal control actuators) through ECU (electrical controller)
- Understand the system's electrical circuit diagram and the actual installation location of components on the vehicle (according to accompanying documentation).

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- Understand how to diagnose faults and repair them through different methods:
 - + Replacing and excluding
 - + Find fault position via analyzing on electrical wiring diagram
 - + Find fault by intelligent diagnostic tools and other measurement equipment

*** BASIC SPECIFICATION**

A. The equipment

- Includes full sensor system used on OBD-II engine of Japan Toyota manufacturer

Sensors	ECM	Actuators
- 01 Intake air sensor unit (THA, MAF) - 01 Engine temp. sensor (THW) - 01 Oxygen sensor (HO2S) - 01 Throttle position sensor (TPS) - 01 Knock sensor (KNK) - 01 Engine speed sensor (RPM) - 01 Cam shaft position sensor (G) - 04 Switch as AC, STA, STP, Power	01 ECM – Engine Control Module	- 01 injector - 01 ignition coil, igniter, spark - 01 ISC valve - 01 Check Engine Light

- Installed according to the practical KIT model. The sensors can operate as on a car with a 12VDC power supply integrated inside.
- The connectors with electrical diagram principle allow learners and teachers test, check actual parameters (*Live data*) convenient.

The connector pins and schematic diagram allow learners and teachers to conveniently measure live data.

- "PAN MAKER" able to create basic faults for learning and teaching: there are 02 options create fault by normal switches or setting on computer.
- The connector used exchange data with a computer or scanner
- Use measuring by Multi-meter and AutoScope (pulse measuring device)
- Use PC Diagnostic scanner (high serial data)

B. Document and software for training:

- Electronically pdf file support training with text, images, animation, animations for new ignition and electronic fuel injection systems. It is suitable for teaching with projector and multimedia training
- OBD-II software for read/ clear fault codes, show Engine Live data
- AutoScope software, PAN Maker software...

* PACKAGE

- 01 OBD-II KIT sensors
- 01 full set of equipment for OBD-II Diagnosis (EFI SCAN)
- 01 Multi-meter
- 01 full set of PC Auto Scope equipment for check automotive signal pulses
- 01 USB memory of DTD CODE software license used for: lookup fault codes, vocational training



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- 01 English guidebook

- Some cable accessories

*** OTHER SPECIFICATIONS**

- Voltage used: 12VDC/50A;

- Weight: about 35 kg

- Actual product size: 80 x 43 x 42 (cm)

- Weight total Package about 40kg

- Package size: 84 x 46 x 44 (cm)

- This kind of product is indoor-equipment

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