

**❖ Image****❖ Overview**

- ESAC is a product of DTDAuto Technology Team – Institute of Physics, Hanoi, Vietnam.
- ESAC is designed to use in vocational schools where trainees are taught principles of construction & operation of Electronic Air Suspension System in modern vehicles.
- ESAC is modern training-equipment providing all basic elements in technique training such as: Listening, Watching, Acting; simulates online with specialized computer-software.
- The system is built visually based on Electronic Air Suspension System of Toyota vehicles; connects online to a computer to control, simulate & display and graph the operation.
- ESAC is designed, made in Vietnam with the German standard of training-equipment.
- Help trainees to understand or get:
  - + The basic system construction
  - + Good-points as well as weak-points compared

**❖ Technical features****1. Computer software**

- E-textbooks include static-images, animation, illustration video..., which simulate online the construction and the operation of ESAC system.
- Work well on projectors and in Multimedia classes.
- Connected to a computer by COM or USB port to control ESAC model.
- Graph the operation and compare normal air suspension with ESAC Electronic air suspension
- Lookup circuit diagrams, lookup & read fault codes automatically and give repair suggestions.

**2. Board component system**

- The system includes:
  - + 04 Air suspensions (*equivalent replacement*)
  - + 01 Valve to divide compressed air
  - + 01 Motor (*to create force*)
  - + 04 Height sensors
  - + 01 Steering angle sensor
  - + 01 Throttle position sensor
  - + 01 Brake pressure sensor
  - + 01 Speed sensor
  - + 01 Adjuster (*to change cart load*)
  - + 04 bumped wheels
  - + 01 Parameter display panel
  - + 01 Control panel
  - + 01 Electronic control unit
  - + 01 Air compressor
  - + 01 vibrator with 4 direction eccentric Camshaft

<p>with normal suspension</p> <ul style="list-style-type: none"><li>+ Operation principles of Electronic Air Suspension System.</li><li>+ Circuit diagrams, real positions of parts in a Toyota vehicle</li><li>+ Fault diagnosis and basic repairing methods</li></ul> <p>❖ <b>Components</b></p> <ul style="list-style-type: none"><li>- 01 Model (<i>simulating ESAC system</i>)</li><li>- 01 CDROM of training-software of ESAC system</li><li>- 01 desktop computer, 01 printer and 01 table (<i>extra optional</i>)</li><li>- Reference documents, textbooks</li><li>- 01 12V/50A battery, 01 charge unit and other accessories, cables</li></ul>	<ul style="list-style-type: none"><li>+ Contacts, fuses, warning lights, circuit diagrams, air tubes...</li><li>+ 01 electrostatic-panted steel frame with mobile-wheels</li><li>- Directly manipulate with real parts on the model</li><li>- Make characteristic study of the operation with a computer</li></ul> <p>❖ <b>Other specifications</b></p> <ul style="list-style-type: none"><li>- Voltage: 220VAC/50Hz and 12VDC/50A</li><li>- Total weight: about 60 kg</li><li>- Using area: 1600 X 1900 X 600 mm</li><li>- This kind of product is indoor equipment</li></ul>
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