EXOTEST®

Automotive Technology Teaching & Training

ABS simulator

Ref.: DTP-ABS1000

The DTP-ABS1000 is a teaching support that allows to observe and to study the Anti-lock Braking System (ABS) automotive system.

OBJECTIVES

- Proceed to functional analysis.
- Proceed to physical measurements.
- Display the brake fluid path, the triggering of the actuators, the pressure in the calipers and wheel slip.

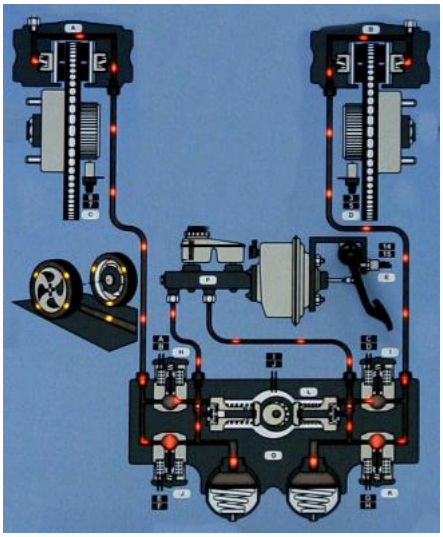
DESIGN

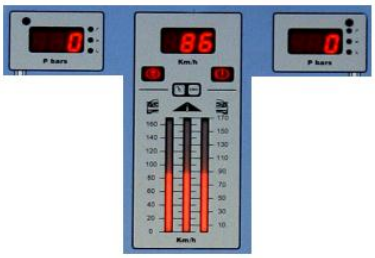
The model is composed of a dynamic visualization deck and of an ECU deck. Based on a Bosch ECU technology, it is delivered with a PC application allowing physical data extraction and analysis.

SPECIFICATIONS

Visualization deck:

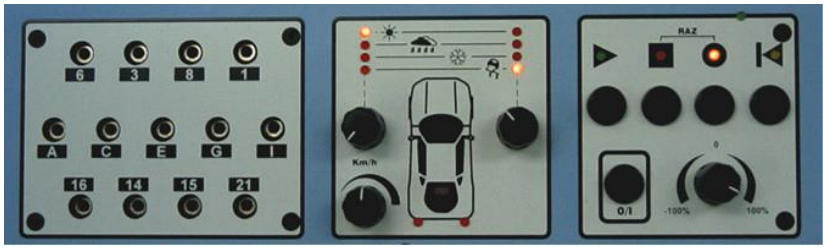
- Digital display of the braking circuit pressure for each wheel.
- Vehicle and wheels speed display on bar graphs.
- Visualization (using LEDs) of the fluid stream in the hydraulic group and of the electro valves' status (intake & exhaust).





Control and measurement deck:

- Variation of the front wheels adhesion (independent adjustment of the 2 wheels adhesion).
- Braking on a conventional system brake pedal, vehicle's speed adjustment, braking pressure…



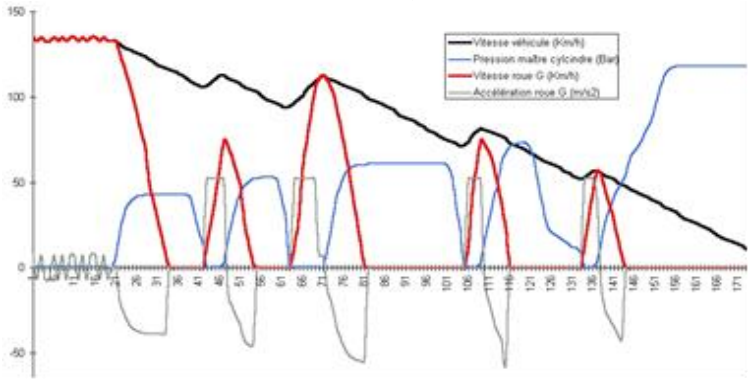
- Braking sequence recording and step by step replaying.
- Measurement sockets for multimeter, oscilloscope or PC acquisition systems (as REFLET®).

ABSCOM data extraction and analysis PC software:

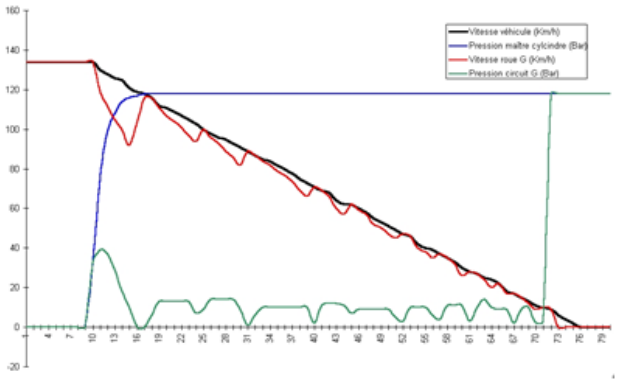
Possibility to trace on a table (csv files format) the ABS regulation curves and the EV activity timing diagrams.

Examples of curves obtained from data extractions:

With ABS system



Without ABS system



EQUIPMENT

As an option you can use with this teaching model our acquisition system dedicated to automotive REFLET® that allows using:

- USB connection,
- 4 traces analog and digital oscilloscope module,
- 2D tools interface,
- 3D instruments interface, dynamic visualization of 3D object - EXXOTEST®innovation.

OTHER

- Power supply: 220/110Vac – 50/60Hz
- Size: 630 X 420 X 420 mm (transportation box)
- Gross weight : 13 Kg (ready to ship)
- Net weight: 10 Kg

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