

Product Name :
Anti-Lock Braking System

Product Code :
TK871



Description :

Anti-Lock Braking System

Technical Specification :

Anti-Lock Braking System

This simulation panel has been specially designed and realized to allow for a complete and easy learning of the techniques and the electromechanical devices used in the anti-lock braking systems in the cars. It is possible to simulate a braking system, provided with a four sensors anti-lock system (ABS). The panel shows how modern car ABS systems are designed to operate.

Main Characteristics:

The system covers the following subjects:

- ABS operation when wheels rotate at different speeds
- ABS operation when wheels rotate at same speed
- Pressure measurement during operation
- Hydraulic ABS valve operation
- Self-diagnosis control
- Fault diagnosis procedure
- Various control signals measurements in the ABS system
- Low fluid level detection
- ABS operation with one-wheel speed sensor is disconnected.
- ABS operation with destroyed hydraulic valve
- Brake system operation when the electronic brake unit is disconnected
- Brakes operation when there is leakage

System operation with different relative rotation speed of wheels

ABS operation with hydraulic valve stuck

This vertical frame bench-top trainer is specially designed to show to students how automotive systems work. The simulator consists of a panel operated by the support of a computer with a colored silk-screen diagram that clearly shows the structure of the system and allows the location of the components on it. The trainer is supplied with a Software and the supported documentation guides the students to the study and the performance of the simulation exercises.

General Characteristics:

Dim. mm (Height x Length x Width): 700x1000x150 - (470 with the base)

Weight kg 25

Input power supply: AC 220V $\hat{A}$ $\pm$ 10% 50 Hz

Working temperature: -40 $\hat{a}$,f ~ +50 $\hat{a}$,f.

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