

Product Name :
ABS System Trainer

Product Code :
NLAB-VOCATIONALTVET26002



Description :

ABS System Trainer

Technical Specification :

A complete, fully operational, ABS unit which is typically found on passenger vehicles.

- Four variable speed electrical drive system for each wheel to control the individual speed of each wheel
- Master brake cylinder with pedal handle

Linear Heat Conduction System

- ABS hydraulic actuator (modulator) unit which is controlled by the onboard computer system (ECU)
- Five brake line pressure gauge to show the pressure differentials from the master brake cylinder to the individual wheels
- Brake master cylinder with vacuum assist boost mechanism and brake pedal assembly.
- The front of the trainer features precise schematic color graphic illustrations that clearly explain the operation of the entire ABS and braking system.
- A control Panel should be provided with an on/off power switch, power system light (POWER ON), ABS warning light (indicated problems) and an ABS operational light (ABS ON). Also has Volt and Ampere meters to

measure the DC input power and a brake light to show the operation of the braking system just as on the vehicle.

- Road Conditions and Performance Display Panel.
- The trainer is supplied complete with a training course on ABS operation and servicing including student job sheets and a technical manual on ABS systems

Modules:

- The trainer should be developed not only to be just a simulator but the ABS system is fully functional, featuring a real ABS unit and real brake systems which makes it ideal for student observation, experimentation and also troubleshooting.
- Different friction values can be set for each wheel to simulate variable road conditions.
- Control of the braking action could be observed with either the ABS unit on or off.
- ABS unit is clearly laid out on a display board that is mounted on a mobile trolley.

Electronic/Electrical Fault Insertion System:

- Multiple electronic fault insertion system: This system should allow for up to 10 faults to be inserted at any one time. Faults can be inserted individually or in groups.
- Electronic Fault Panel: Faults indicated by LEDs. When the fault is electronically activated a corresponding LED will illuminate showing the fault is active.
- Student Testing Mode: The LED fault indication display can be deactivated so that the faults can be active but the display is switched off.
- Electronic Fault Reset Button: The LED control should have a fault-reset button that will clear and reset the system back to normal.
- Test Points: The trainer has short circuit protected test points that allow the student to take measurements during the troubleshooting exercises.

Included Accessories:

- Vacuum pump for power brake boost
- Fault system with 10 electrical faults and Electrical Test point

Power 12VDC regulated power supply
Vacuum pump for power brake boost
Four wheels with wheel sensors
Master brake cylinder with pedal handle

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