



Product Overview

The Air Brake System Teaching Board is a comprehensive training platform designed to demonstrate the working principles, operation, and safety features of pneumatic braking systems used in heavy commercial vehicles.

The system integrates a complete air brake circuit, allowing learners to study pressure generation, storage, control, and brake application in a controlled and safe training environment.

Key Features

- Complete air brake circuit demonstration
- Real pneumatic valves and components
- Dual-circuit system for realistic training
- Safe operation with built-in protection features
- Suitable for classroom and workshop-based instruction

Technical Specifications

System Pressure

- 8–10 bar (0.8–1 MPa) operating pressure

Air Supply

- Built-in mini compressor (0.75–1.5 kW)
- Reservoir capacity: typically 2–5 liters each (primary & secondary circuits)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Valves Included

- Foot brake valve (dual-circuit treadle)
- Quick-release valve
- Relay valve
- Trailer control valve (if simulating tractor-trailer systems)
- Spring brake control valve
- Parking brake valve
- Protection valve
- Air dryer (optional)

Gauges

- Tank pressure gauges (primary, secondary)
- Application pressure gauge (foot valve output)

Frame Dimensions

- approx. 1,200–1,600 mm (W) × 700–900 mm (D) × 1,500–1,800 mm (H)

Weight

- 100–200 kg depending on complexity

Power Supply

- 220V or 110V AC for onboard compressor

Safety

- Automatic pressure relief valve
- Emergency stop button
- Overcurrent protection

Complete Circuit

- Air compressor simulation
- Governor
- Reservoirs
- Brake system

Training Functions

- Air pressure generation and regulation
- Dual-circuit brake operation

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- Service brake and parking brake functions
- Pressure monitoring and system response
- Fault diagnosis and safety behavior analysis

Educational Advantages

- Realistic pneumatic brake system layout
- Safe, controlled training without vehicle installation
- Clear visualization of air flow and pressure changes
- Ideal for step-by-step instruction and hands-on practice

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