

Product Name :
Automotive Pneumatic Air Brake Trainer

Product Code :
NLAB-MECHANICALAB20018



Description :

Automotive Pneumatic Air Brake Trainer

Technical Specification :

The Pneumatic Air Brake Trainer should provide a comprehensive system whereby the student may study and understand the principles, operational theory and maintenance of air brake systems found on trucks or large vehicles. The unit should consist of original International branded heavy duty truck pneumatic braking components, which should be mounted onto separate (Truck and Trailer) integrated floor stands, made from powder coated electro galvanized steel, that are mounted onto wheels for mobility. Air hoses should have a quick connection system, allowing for easy connections and experiments. A color coded schematic chart, under a lexon polycarbonate protective screen, of the brake system and circuit™s, should also be mounted onto the trainer for reference.

Specifications:

Components

A. The trainer should provide a system whereby the student may study

and understand the principles of the theory and operation of compressed air brake systems as commonly found on trucks.

B. The trainer should consist of original functional components, which are mounted onto a large board that is fitted with a wheeled stand for mobility.

C. The trainer should have two boards, one for the truck system and one for the trailer system. Each of the components should be fitted with a pneumatic quick connect/disconnect system so that the students may quickly connect the system and components in a variety of configurations.

D. The following components must be included:

Main Truck Brake Board:

- Pressure Regulator
- Air filter
- Safety protection valve
- Air reservoir tank 1
- Air reservoir tank 2

Quick release valve

- Air pressure gauge
- Hand Control Valve
- Low pressure switch
- Parking brake valve
- Double check valve
- Trailer protection valve
- Drum brake assembly (2 unit)
- Ratio valve
- Foot control valve
- Brake light

- Spring brake chamber
- Diaphragm brake chamber
- Shut off valve
- Drain valve
- Trailer protection valve
- Low pressure indicator
- Trailer coupler
- Color schematic brake system diagram

Trailer Air brake Board:

- Air storage tank circuit 3
- Brake light
- Single check valve
- Relay emergency valve
- Air pressure gauge
- Drain valve
- Safety valve
- Color schematic trailer system diagram

To come complete with comprehensive courseware, operational manual and student job Sheets which provide detailed exercises. Sample Training experimental manual to be provided during the bidding process to ensure all experiments are met.

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