

TRUCK BRAKES



TRAILER ANTILOCK BRAKE TRAINER: MEGABS6

DESCRIPTION:

The design of a 6 wheel ABS system is mostly for truck and heavy duty transport systems. The trainer simulates the speed of 0 – 90 mph and demonstrates any wheel lock condition. Students can be tested with conditions set by the instructor. The teacher will be able to select wheel speed sensor low resistance on the back panel board and have the students search for the system problems. After powering up the ABS controller, the warning light sequence indicates a malfunction and will stay on with vehicle speeds above 6mph. The ECU Fault Code Display shows code 03 (for example) which refers to “A sensor/wiring open; or short circuit axel 2.” The MEGABS6 Trainer has the following components and features:

A. FRONT PANEL BOARD

- Main power switch
- Overload indicator and reset button
- Symbols of exciter rings with built in LED
- Wheel speed display for each wheel
- Wheel speed power and signal sensor graphic (with plug in type connectors for easy access to measure resistance and output voltage)
- Wheel sensors cables exposed to allow for oscilloscope hook up.
- ABS power and signal connectors accessible for trouble shooting
- ABS warning lights (trailer and towing vehicle)
- Two toggle switches – ignition and brake light
- Seven momentary switches, the first controlling vehicle speed, the remaining six control the wheel speed independently
- Air pressure gauges which indicate brake booster pressure

Requires air supply

B. BACK PANEL BOARD

The fault box is mounted behind a key locked door which allows the instructor to set various malfunctions and is not accessible by students.

The ECU and air pressure modulators are mounted above the bottom shelf to provide easy access to all electrical connections. The ECU mounting bracket contains the air pressure inlet (Quick Disconnect Fitting)