



The BrakeTime System

For Air Brake Vehicle Testing



IN240306-01B

What is BrakeTime?

BrakeTime is a system of hardware, software and electronics used to time air brake systems used on over the road vehicles. It is designed to test these vehicles for compliance of US (CFR49 571.121) and Canadian (No.121) air brake regulations. This page describes some of the many software features. The goal was to make the system easy to operate while maintaining test integrity.

Trailer Test Modules

- Semi-Trailer Service Brake Timing
- Semi-Trailer Parking Brake Response
- Towing Semi-Trailer Service Brake Timing
- Towing Semi-Trailer Parking Brake Response
- Converter Dolly Service Brake Timing
- Converter Dolly Parking Brake Response
- Towing Semi-Trailer Differential Test



Common Test Features

- Saves Complete Test Detail - Not Just The Results
- Test Number Entry Automatic Or Manual
- Optional Label Entry Included In File Name
- Optional Description Entry For Extra Data
- Output Via The Print Module
- Quick Save Feature Combine Print And Save Functions
- Individual Run Functions In Applicable Modules

Power Unit (Truck/Tractor) Modules

- Power Unit Service Brake Timing
- Power Unit Parking Brake Response
- Towing Power Unit Service Brake Timing

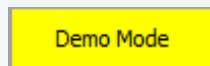
Other Modules

- Vehicle Air System Leak Test
- System Calibration For Trailers
- System Calibration For Power Units
- Multipurpose Pressure Scan



Demonstration Mode

- The Software Simulates Vehicle Testing
- Works On Most Of The Above Modules
- Returns Realistic Result Values
- Print And Save The Simulation Results

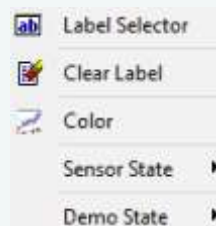


Sensors

- High Performance 150 PSI Sensors
- Up To Eight Can Be Used At One Time
- Sensors Coupled Using Common XLR Cables
- Cables Are Color Coded And Interchangeable

Settings For Each Sensor

- Each Numbered Incrementally
- Descriptive Label Can Be Added
- Point And Click Label Creator
- Drop Down Access To Label History
- Configurable Color Coding



Sensor Sets Functions

- These Functions Work On All Of The Sensors As A Group
- Can Save And Retrieve As Set To Match A Specific Vehicle

Common User Configurable Settings

- Hide Or Show Specific Test Modules
- Three Line Print Header
- Graph Display Defaults
- Test Reference Number Default Creation
- Many More

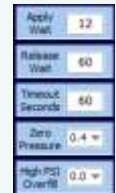
Test Run Functions

- Quick Access To Run Results
- Display Result Summary Status
- Display Graph Of The Run
- Export Run Data To Spreadsheet
- Multiple Test Run Option



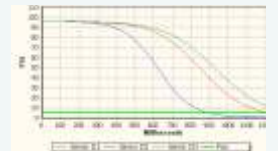
Test Settings (Most Modules)

- These Settings Manage The Test Between Runs
- System Fill Time Before Pressure Apply
- System Fill Time Before Pressure Release
- Timeout Seconds And Pressure Offsets



Run Graph Features

- Color Coded Graph Of Pressure Values
- Show Header And/Or Footer If Set
- Show/Hide Individual Sensors
- Show/Hide Test Detail Data
- Print And/Or Save Graph
- Bright Green Passbar



Test Detail Data

- Four Data Modules To Hold Data About The Test
- The Modules Are Vehicle, Locale, Owner And Notes
- Each Module Includes Multiple Entry Fields
- Data Can Be Saved And Retrieved As Needed

Print Module

- Output To Printer Or PDF File
- Multiple Form Selections
- Graphs On Some Forms
- Configurable Print Header Values
- Configurable Print Title Value
- Configurable Print Notation Value



Help/Trainer Module

- The Original Help System Is Included But Deprecated.
- The More Detailed Trainer Module Is The Current Standard
- Pages Include Operational Detail
- Sample System Graphics
- Text From Applicable Regulation Code.