

How Visual Brake Stroke Adjustment Indicators Work



Figure A:

Brakes Released

Indicator reference identifies those brakes not fully releasing due to mechanical or pneumatic problems. While traveling, indicator functions as a brake chamber seal preventing road spray from entering brake chamber.



Figure B:

Brakes Applied

-Brake stroke within Acceptable range.

Reference is used to determine brake adjustment and balance.



Figure C:

Brakes Applied

-Brake stroke outside of acceptable range.

Indicates ineffective braking, needs maintenance attention.

The visual brake stroke indicator provides drivers and technicians with an effective means to quickly identify defects for prompt correction.





Cost & Safety Benefits of Visual Brake Stroke Indicators

- Reduces each PM* inspection by approx. 20 minutes.
- Promotes use of the industry approved “Applied Stroke” inspection method in the least amount of time.
- Quickly identifies failures/defects.
- Quickly identifies dangerous out-of-adjustment conditions.
- Eliminates the need to physically reference and measure stroke at each wheel position.
- Eliminates damaging manual adjustments to ASAs.
- Facilitates visual brake balance inspections.
- Reduces “safety lane” inspection time.
- Provides a visual troubleshooting aid to mechanics.
- Provides a convenient visual aid to drivers.
- Reduces requests for unscheduled maintenance.
- Reduces costly downtime, OOS violations and fines.
- Reduces frequency of major brake work.

THE BrakeSentry™ KIT: UNIQUE FEATURES Are:



- Measures stroke in 1/4 inch increments
- Flexible and unbreakable material composition
- Fits all brake chambers with external 5/8 inch dia. pushrod
- Dual function stroke indicator and brake chamber seal
- Non-invasive and non-obstructive
- Function and visibility not affected by road dirt
- Easy installation, approx. 3 minutes per wheel
- Does not require any special tools
- Does not require disassembly of any components



PROBLEM:

Out-of Adjustment — The Hidden Defect

Drivers can visually inspect every pre-trip item except brake stroke.

Checking brakes by “feel” is ineffective and unreliable.

Drivers commonly unaware of out-of-adjustment brake conditions.

Undetected defects increase costs and exposure to risk and liability

SOLUTION: **Visual Brake Stroke Indicators**

Eliminate the guesswork!

Equipping brake chambers with BrakeSentry™ provides drivers and technicians with a significant advantage, a quick and effective means to visually inspect and identify any brake out-of-adjustment conditions conditions that ordinarily remain undetected and increase your exposure to the high costs, risks and liabilities associated with trucking’s deadliest and most frequently cited defect. By using BrakeSentry™, the industry prescribed “applied stroke” inspection method can now be performed faster, safer and much more efficiently without the need to crawl under vehicles to physically mark and measure pushrod stroke.

BRAKE STROKE: The Critical Measurement

Since the chamber’s pushrod stroke is physically limited, it is essential that stroke be maintained within the narrow margin of safe and effective operating limits. Therefore, whether accomplished manually or automatically, unless adjustment is within the effective stroke limits, it makes little difference how hard the driver presses on the brake pedal or how much air is delivered to the brake chambers.

“When you’re out of stroke, you’re out of brakes!”