

Fleet: Brake inspections

Brake inspection of commercial motor vehicles or farm vehicles

The following are items to check when inspecting air brake systems.

Pads

Do not operate if any of the following exist:

- The pads do not contact the braking surface
- Oil contamination on the brake lining
- Lack of brake pad lining thickness
 - Drum Brakes: 1/4 inch or less, measured at center
 - Disc Brakes: 1/8 inch or less



- Cracks in pad that exceed 1.5 inches in length
- Portions of lining segments that are missing that exposes a fastening device (rivet or bolt)



Drums and rotors

Do not operate if the wheel has any of the following defects:

- **Drums:** A drum with any external crack or cracks that open upon brake application.
- **Rotors:** Cracks in rotors with visible space between the edges. Do not confuse short hairline heat check cracks with flexural cracks.

Airlines and connections

Do not operate if any of the conditions exist:

- Audible air leaks
- Improper repairs made to tubing
- Tubing crimped, cracked or broken in such a manner as to restrict air flow
- Color difference on nylon plastic tubing (red or blue hose showing white)
- Damage on rubber hosing showing reinforcement-ply
- Bulging of air hose



See deterioration

Brake chambers

Do not operate if the brake chambers:

- Are loose or mismatched sizes
- Have any non-manufactured holes or cracks in the spring brake housing

Air reservoir

- **Tank:** Drain tank at end of each day
 - Check water to determine if it is contaminated with oil

For further guidance, refer to the Federal Motor Carrier Safety Administration 49 CFR Part 393 Subpart C (ecfr.gov/current/title-49/part-393/subpart-C).



For assistance with risk management services or safety resources, contact us at RMSolutions@nationwide.com or 1-800-260-1356.

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