

(d) Parts and accessories shall not be welded to the frame or chassis of a commercial motor vehicle except in accordance with the vehicle manufacturer's recommendations. Any welded repair of the frame must also be in accordance with the vehicle manufacturer's recommendations.

(e) No holes shall be drilled in the top or bottom rail flanges, except as specified by the manufacturer.

[53 FR 49402, Dec. 7, 1988, as amended at 70 FR 48055, Aug. 15, 2005]

**§ 393.203 Cab and body components.**

(a) The cab compartment doors or door parts used as an entrance or exits shall not be missing or broken. Doors shall not sag so that they cannot be properly opened or closed. No door shall be wired shut or otherwise secured in the closed position so that it cannot be readily opened. EXCEPTION: When the vehicle is loaded with pipe or bar stock that blocks the door and the cab has a roof exit.

(b) Bolts or brackets securing the cab or the body of the vehicle to the frame shall not be loose, broken, or missing.

(c) The hood must be securely fastened.

(d) All seats must be securely mounted.

(e) The front bumper must not be missing, loosely attached, or protruding beyond the confines of the vehicle so as to create a hazard.

[53 FR 49402, Dec. 7, 1988, as amended at 78 FR 58484, Sept. 24, 2013]

**§ 393.205 Wheels.**

(a) Wheels and rims shall not be cracked or broken.

(b) Stud or bolt holes on the wheels shall not be elongated (out of round).

(c) Nuts or bolts shall not be missing or loose.

**§ 393.207 Suspension systems.**

(a) *Axles.* No axle positioning part shall be cracked, broken, loose or miss-

ing. All axles must be in proper alignment.

(b) *Adjustable axles.* Adjustable axle assemblies shall not have locking pins missing or disengaged.

(c) *Leaf springs.* No leaf spring shall be cracked, broken, or missing nor shifted out of position.

(d) *Coil springs.* No coil spring shall be cracked or broken.

(e) *Torsion bar.* No torsion bar or torsion bar suspension shall be cracked or broken.

(f) *Air suspensions.* The air pressure regulator valve shall not allow air into the suspension system until at least 55 psi is in the braking system. The vehicle shall be level (not tilting to the left or right). Air leakage shall not be greater than 3 psi in a 5-minute time period when the vehicle's air pressure gauge shows normal operating pressure.

(g) *Air suspension exhaust controls.* The air suspension exhaust controls must not have the capability to exhaust air from the suspension system of one axle of a two-axle air suspension trailer unless the controls are either located on the trailer, or the power unit and trailer combination are not capable of traveling at a speed greater than 10 miles per hour while the air is exhausted from the suspension system. This paragraph shall not be construed to prohibit—

- (1) Devices that could exhaust air from both axle systems simultaneously; or
- (2) Lift axles on multi-axle units.

[53 FR 49402, Dec. 7, 1988, as amended at 70 FR 48055, Aug. 15, 2005]

**§ 393.209 Steering wheel systems.**

(a) The steering wheel shall be secured and must not have any spokes cracked through or missing.

(b) *Steering wheel lash.* (1) The steering wheel lash shall not exceed the following parameters:

| Steering wheel diameter                  | Manual steering system  | Power steering system |
|--|-------------------------|-----------------------|
| 406 mm or less (16 inches or less) ..... | 51 mm (2 inches) .....  | 108 mm (4¼ inches).   |
| 457 mm (18 inches) .....                 | 57 mm (2¼ inches) ..... | 121 mm (4¾ inches).   |
| 483 mm (19 inches) .....                 | 60 mm (2⅝ inches) ..... | 127 mm (5 inches).    |
| 508 mm (20 inches) .....                 | 64 mm (2½ inches) ..... | 133 mm (5¼ inches).   |
| 533 mm (21 inches) .....                 | 67 mm (2⅞ inches) ..... | 140 mm (5½ inches).   |