



# Parts & Accessories



U.S. Department of Transportation  
Federal Motor Carrier Safety Administration



FMCSA  
Federal Motor Carrier Safety Administration



# Lights

Please visit the following link to view a chart that specifies the required color, position and types of lamps and reflectors for CMVs:

<http://www.fmcsa.dot.gov/rulesregs/fmcsr/regs/393.11.htm>



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# Lights



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- All required lamps must be able to light at all times.
- All lamps must be securely mounted on a permanent part of the vehicle



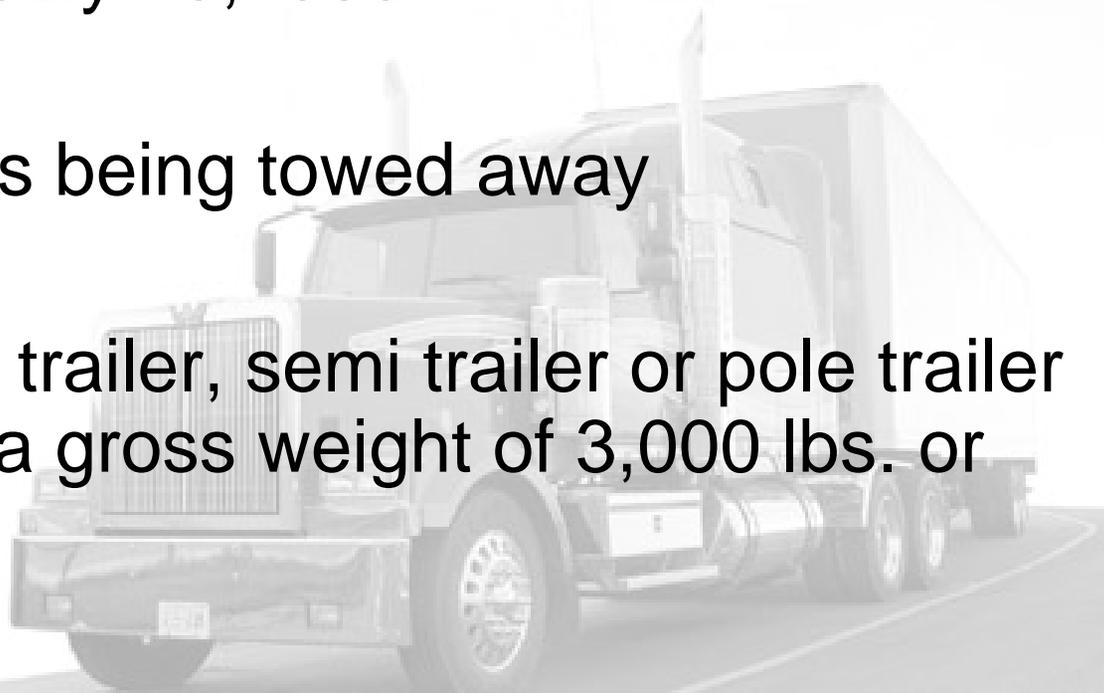
# Brakes On All Wheels

Every CMV must be equipped with brakes acting on all wheels, except:

- Trucks and truck tractors manufactured before July 25, 1980
- Vehicles being towed away
- Any full trailer, semi trailer or pole trailer having a gross weight of 3,000 lbs. or less



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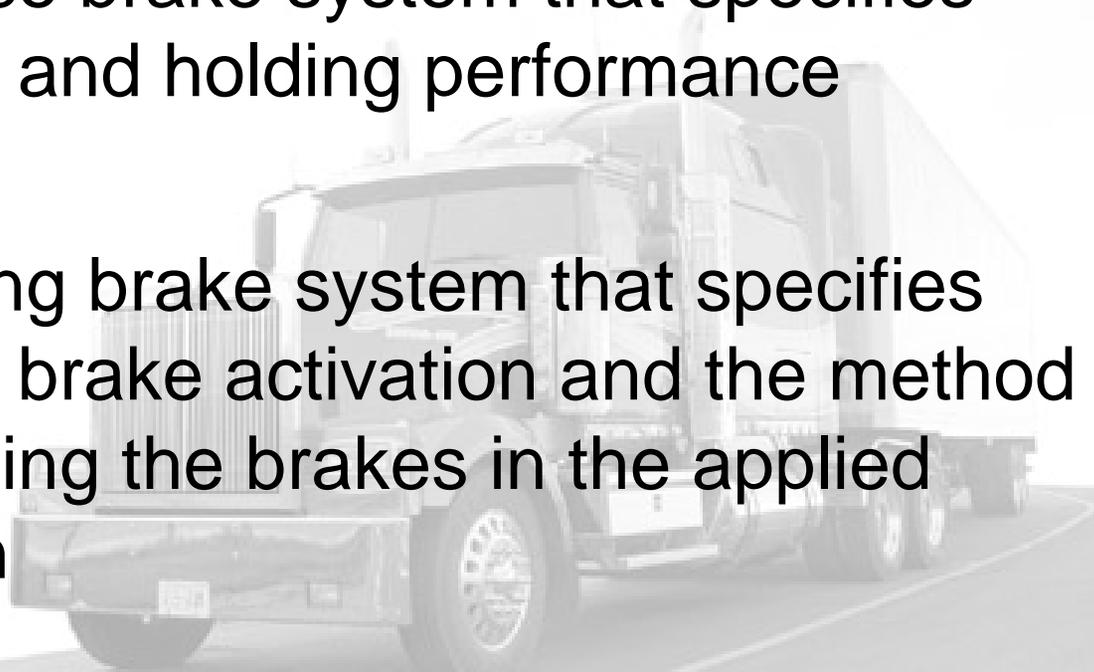
# Brakes

Commercial motor vehicles must be equipped with the following brake systems:

- A service brake system that specifies braking and holding performance
- A parking brake system that specifies parking brake activation and the method for holding the brakes in the applied position



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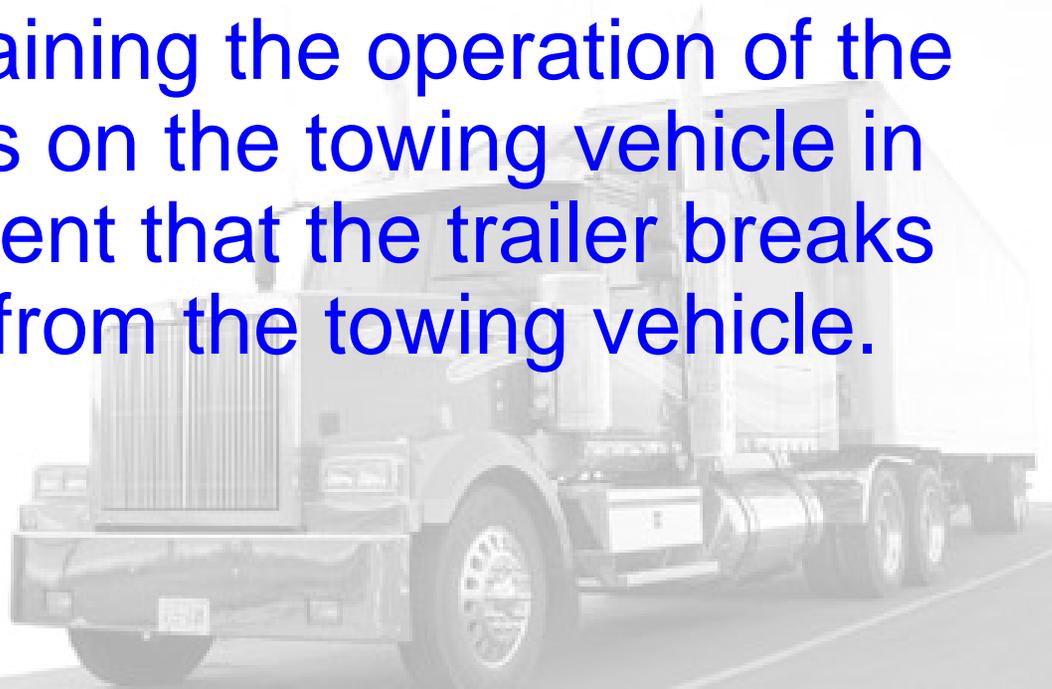
# Breakaway and Emergency Braking



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Every vehicle used to tow a trailer equipped with brakes must have a means of maintaining the operation of the brakes on the towing vehicle in the event that the trailer breaks away from the towing vehicle.



# Brake Warning Devices



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Buses, tractors and trucks must be equipped with a signal that provides a warning to the driver when a failure occurs in the vehicle's service brake system.



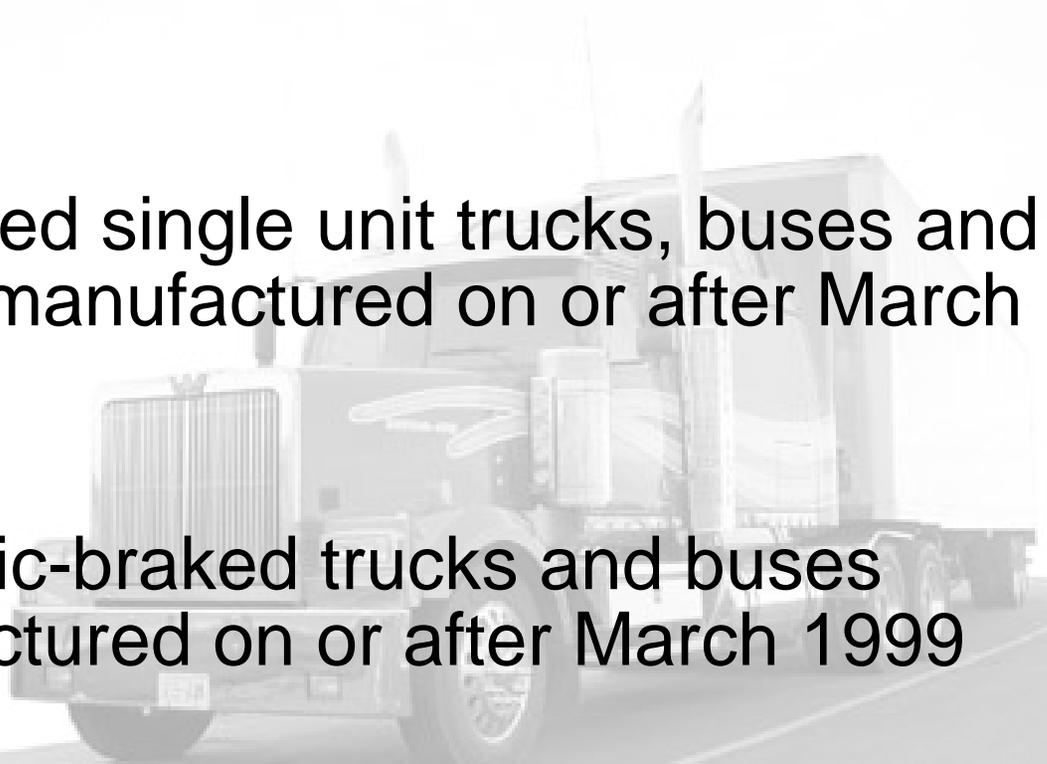
# Antilock Braking Systems

The following CMVs are required to be equipped with antilock braking systems:

- Truck-tractors manufactured after March 1, 1997
- Air-braked single unit trucks, buses and trailers manufactured on or after March 1, 1998
- Hydraulic-braked trucks and buses manufactured on or after March 1999



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# Windshield Condition

A vehicle's windshield must be free of discoloration and cracks in the area extending from the top of the steering wheel to within two inches to the top of the windshield.



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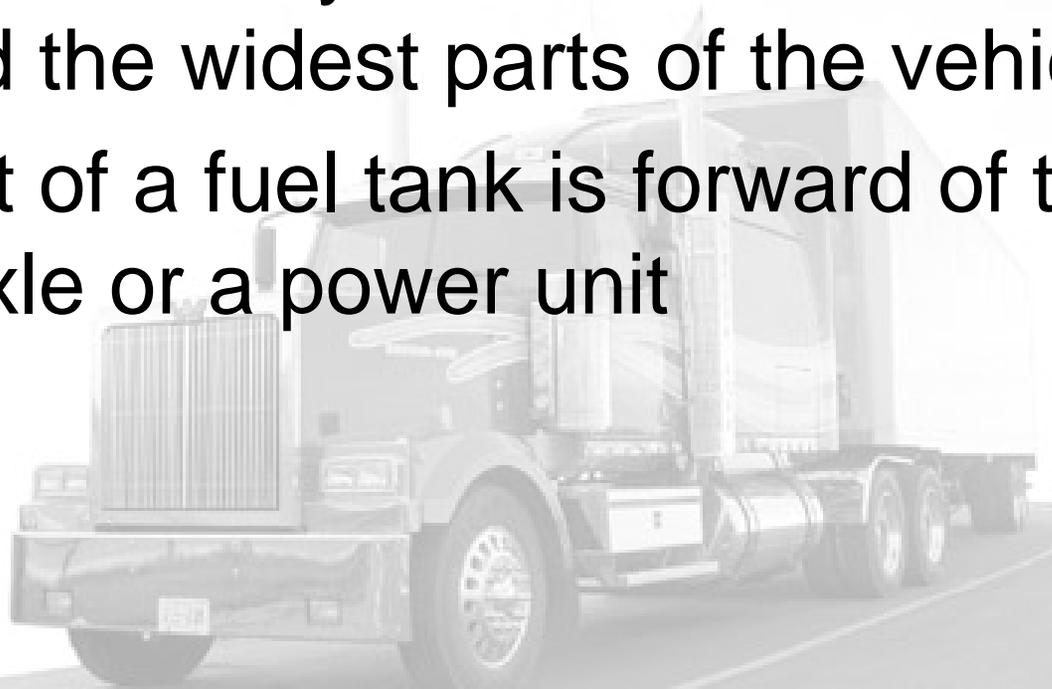
# Fuel Systems

Each fuel system must be located so that:

- No part of the system extends beyond the widest parts of the vehicle
- No part of a fuel tank is forward of the front axle or a power unit



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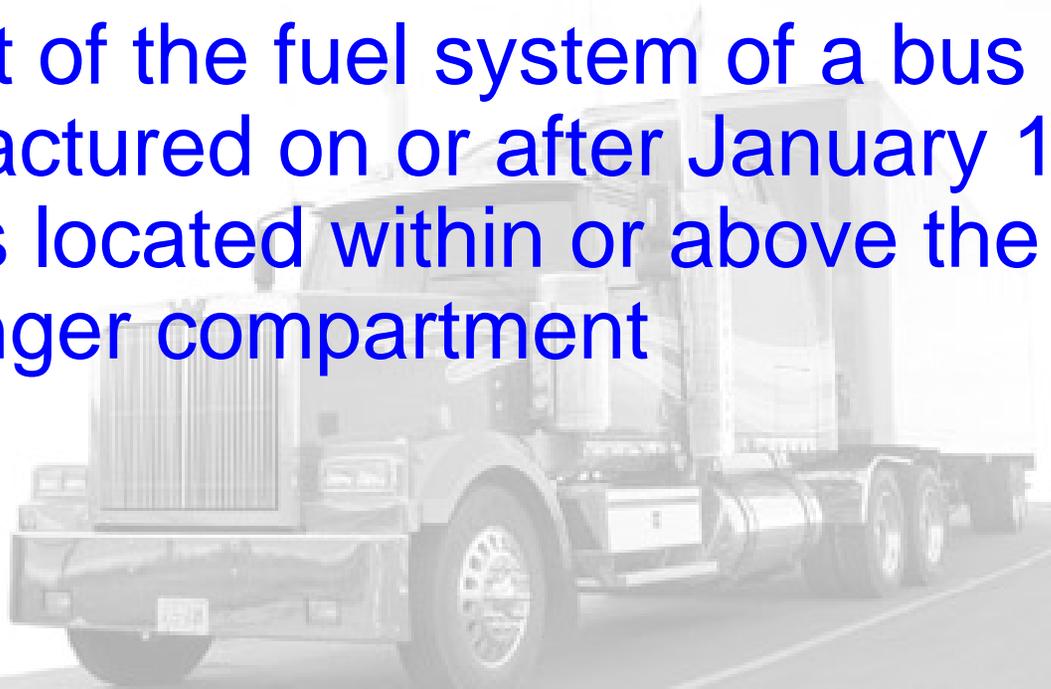
# Fuel Systems



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- Fuel lines do not extend between a towed vehicle and the towing unit while the combination is in motion
- No part of the fuel system of a bus manufactured on or after January 1, 1973 is located within or above the passenger compartment



# Cargo Security

Cargo is required to be loaded and secured so that it will not shift or fall off the vehicle.



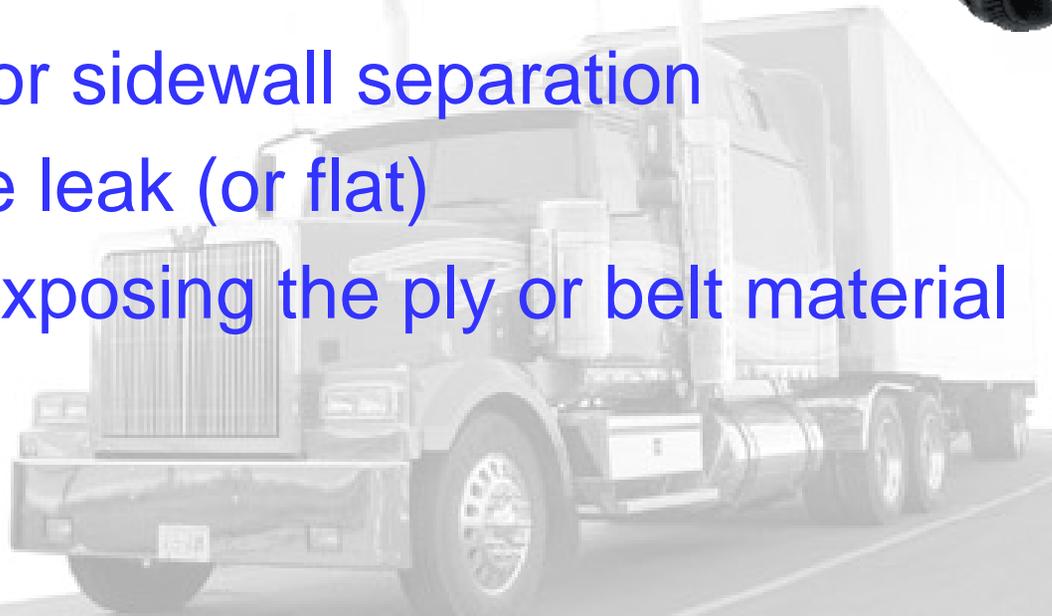
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# Tires

No tire on a CMV may have any of the following defects:

- Body ply or belt material exposed through tread or sidewall
- Tread or sidewall separation
- Audible leak (or flat)
- A cut exposing the ply or belt material



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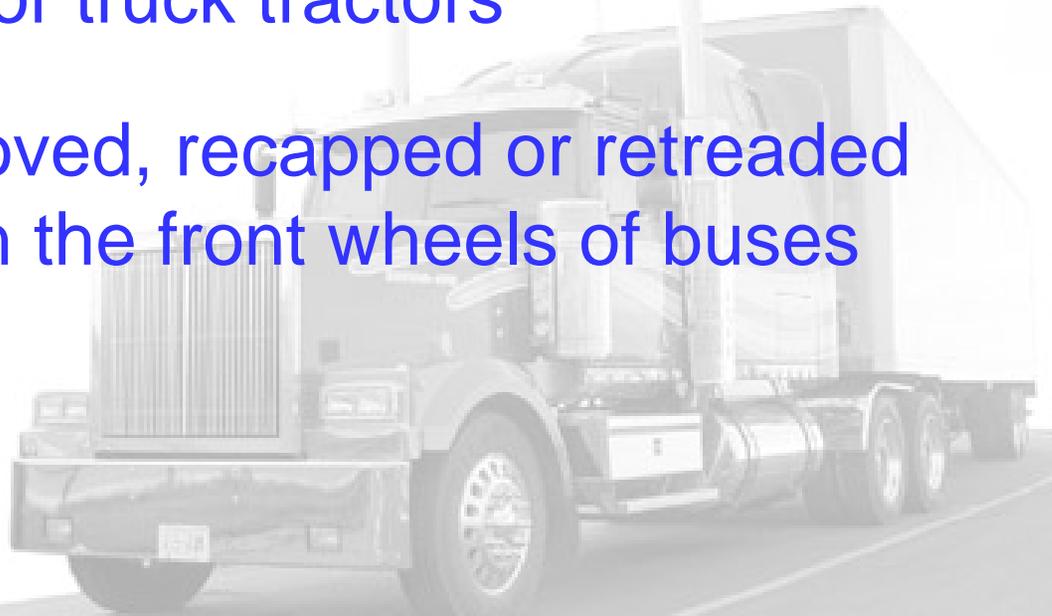
# Tires



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- A tread groove pattern depth of less than  $\frac{4}{32}$  of an inch (front tires) or  $\frac{2}{32}$  of an inch (other tires)
- regrooved tires on front wheels of trucks or truck tractors
- Regrooved, recapped or retreaded tires on the front wheels of buses





# Sleeper Berths

- Must not be installed on a trailer and must be located in or adjacent to the cab
- Must be equipped with adequate sheets and blankets and a mattress and springs (or innerspring mattress)
- Must be adequately ventilated



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# Exhaust Systems



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- Must be located where it is not likely to burn or damage the electrical wiring, fuel supply, or any combustible part of the vehicle
- Discharge from the exhaust system must not be located immediately below the fuel tank or filler pipe



# Exhaust Systems



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- May not leak or discharge at any point forward of or directly below the driver or sleeper compartment
- May not be temporarily repaired with patch or wrap material
- Pipe and mufflers must be securely fastened to the vehicle



# Rear End Protection

- Every CMV must be equipped with bumpers or other devices that prevent the under ride of another vehicle



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# Seat Belts

The vehicle must be equipped with seats, seat belt assemblies and seat belt anchorages as specified in the Motor Vehicle Standards.



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# Emergency Equipment

CMVs must carry the following emergency equipment:

- Fire extinguisher
- Spare fuses
- Warning devices for stopped vehicles



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# Fire Extinguisher

- Must be securely mounted and accessible
- Must have a gauge or indicator that shows whether the extinguisher is fully charged
- Must have a label showing its Underwriters' Laboratories rating



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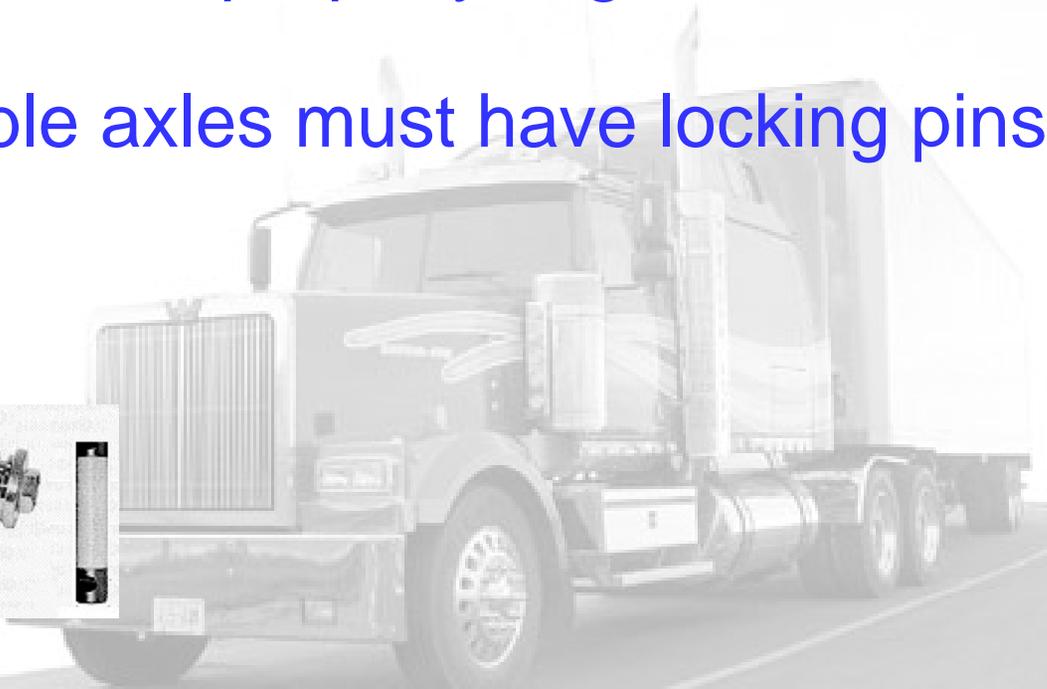
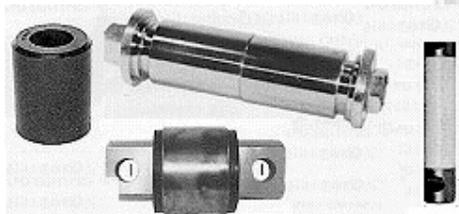
# Suspension Systems

Suspension systems are required to be structurally sound and in safe working order, including the following:

- Axles must be properly aligned
- Adjustable axles must have locking pins in place



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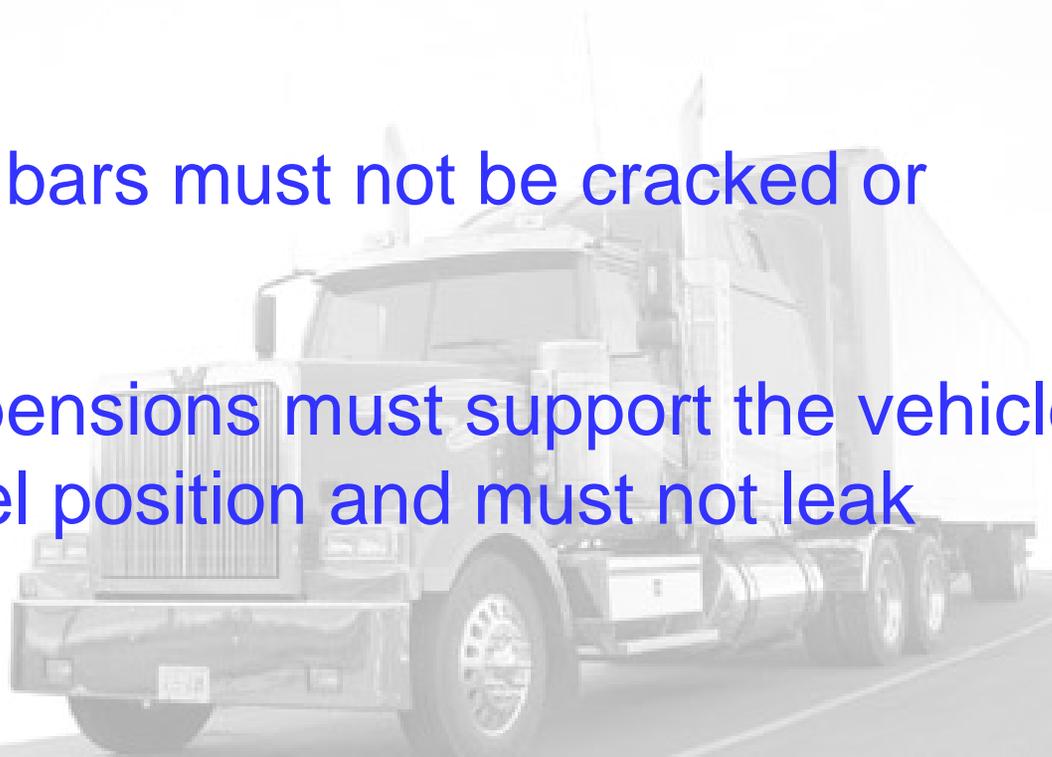
# Suspension Systems



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- Leaf springs must not be cracked, broken, missing or shifted out of position
- Coil springs must not be cracked or broken
- Torsion bars must not be cracked or broken
- Air suspensions must support the vehicle in a level position and must not leak



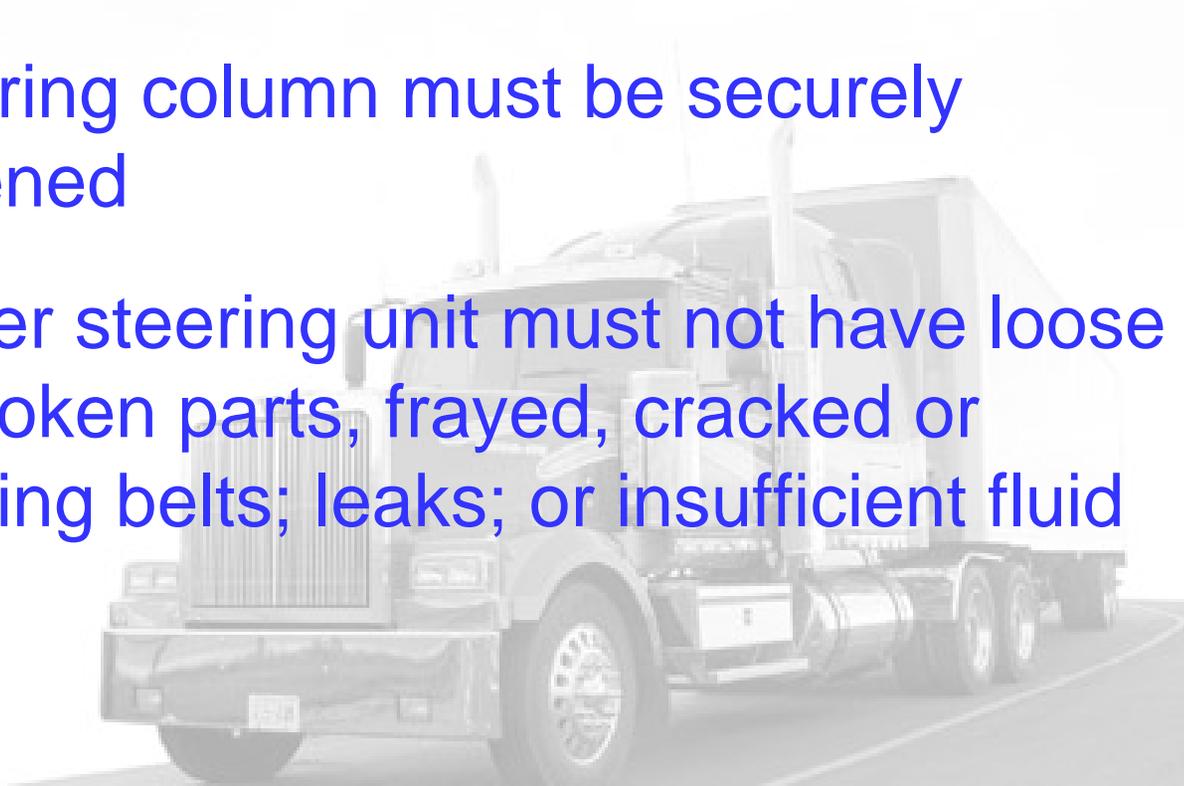
# Steering System

Steering system must be in proper working order:

- Steering wheel must be properly secured
- Steering column must be securely fastened
- Power steering unit must not have loose or broken parts, frayed, cracked or slipping belts; leaks; or insufficient fluid



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# Steering System

- Steering system must not have worn or welded universal joints, loose steering gear box, missing bolts or a loose pitman arm on the steering gear output shaft.

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# In Conclusion

Always remember to make sure that all parts and accessories adhere to U.S. guidelines.

Thank you for your time and attention.

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