Item and Method of Inspection	Reject If
1. Hydraulic Brakes	Truck   ✓        Trailer   ✓       Bus   ✓
<ul> <li>a) metal line and fittings <ul> <li>Additional Inspection Procedure(s):</li> <li>Inspect lines and fittings for leaks while brakes are fully applied with heavy force on the brake pedal, (i.e.: panic stop). Operate engine if necessary to maintain power-assist.</li> </ul> </li> <li>NOTE: All connections between brake system components must be proper flared type.</li> <li>NOTE: Surface rust and corrosion is normal on metal lines and fittings, and is not cause for rejection.</li> <li>b) flexible line/hose</li> <li>Additional Inspection Procedure(s):</li> <li>Inspect flexible hoses while brakes are applied with heavy force on the brake pedal, (i.e.: panic stop). Operate engine if necessary to maintain power-assist.</li> </ul>	<ul> <li>a) heavy rust, corrosion or scaling, is present on any metal line or fitting that reduces or increases the thickness, or compromises the structural integrity of the material <ul> <li>level 1 leak of brake fluid</li> <li>chafing, cracked, flattened or restricting section</li> <li>insecure mounting causing line to shift out of its normal position</li> <li>repaired by welding or soldering</li> <li>repaired using material or method does not meet OEM standard</li> </ul> </li> <li>b) bulged or swells under pressure, flattened, twisted, restricting section or insecure mounting</li> <li>outer composite material is cracked or chafed exposing an inner layer as shown in hose and tube condition chart in introduction</li> <li>deficient product is used that does not meet OEM standard</li> </ul>
c) master cylinder d) pressure differential switch	<ul> <li>c) damaged or insecure mounting <ul> <li>fluid is contaminated</li> <li>level 1 leak of brake fluid</li> <li>fluid level is below indicated minimum level, or if not indicated, more than 13 mm from top</li> <li>filler cap is damaged, loose or missing, vent holes are plugged, or gasket is missing or swollen</li> </ul> </li> <li>d) switch or electrical connection is damaged, insecure or loose. <ul> <li>level 1 leak of brake fluid</li> <li>inoperative</li> </ul> </li> </ul>

Item and Method of Inspection	Reject If
e) variable or proportioning system	e) link is damaged, missing, or seized
Additional Inspection Procedure(s): Check links for mechanical defects. Test when there is evidence of a problem. Refer to manufacturer service instructions and confirm that the valve is functioning properly.	<ul> <li>inoperative</li> <li>level 1 leak of brake fluid</li> </ul>
<ul> <li>f) auxiliary or work brake (line-lock device)</li> <li>NOTE: Line-lock devices block brake fluid from returning to the master cylinder as a means of holding a vehicle stationary. Improperly installed they can interfere with normal service brake operation.</li> </ul>	f) any device is installed that interferes with normal service brake operation
g) breakaway brakes (over 1,400 kg must be equipped)	g) inoperative or missing
	– fails to remain fully applied for 15 minutes
	OUT OF SERVICE
	i) A brake hose or line swells under pressure.
	ii) Level 2 leak in any part of the brake system.
	iii) Brake pedal moves downward when brakes are held applied.
	iv) A brake hose is broken, crimped, restricted, or cracked exposing any inner layer.
	v) Master cylinder fluid level is below indicated minimum level or less than ¼ full.
	vi) Brake fluid is contaminated in a way that prevents normal brake operation.
	vii) Breakaway inoperative/missing.
2. Brake Pedal/Actuator	Truck   ✓   Trailer     Bus   ✓
a) pedal	a) broken, cracked, loose, missing or abnormally worn
	<ul> <li>welded or repaired in a way that does not meet OEM standard</li> </ul>
b) mount	b) cracked, deteriorated, insecure or weakened by corrosion
c) anti-slip feature	c) ineffective, loose or missing

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) Pedal is missing.
3. Vacuum Assist (Boost) System on Truck or Bus	<b>Truck</b>  ✓  Trailer     <b>Bus</b>  ✓
a) line, hose and clamp	<ul> <li>a) broken, chafed, collapsed, cracked, leaking, loose or missing</li> <li>insecure mounting, incorrect type, or positioned within 50 mm of any exhaust system component and not protected by a heat shield</li> </ul>
b) check valve c) tank	<ul> <li>b) incorrectly installed or inoperative, leaking or missing</li> <li>c) damaged, structurally deteriorated from corrosion, insecure or loose, leaking or missing</li> </ul>
<ul> <li>d) operation</li> <li>Additional Inspection Procedure(s): Test system operation as described below.</li> <li>Stage 1 – Start engine, build to full vacuum, shut engine off, make two (2) full brake applications.</li> <li>Stage 2 – With engine off, press brake pedal several more times to eliminate remaining vacuum. Apply a light force on brake pedal and then start engine.</li> </ul>	<ul> <li>d) during stage 1 – vacuum reserve is insufficient to assist two full brake applications</li> <li>during stage 2 – downward movement of brake pedal is not felt when engine is started</li> </ul>
e) warning device	e) not equipped with an audible or visual signal in the event of failure of air pressure or braking effectiveness
<ul> <li>f) vacuum pump</li> <li>Additional Inspection Procedure(s):</li> <li>Confirm proper operation of the vacuum pump to manufacturer specifications. When no specification is available, check with engine running at 1,200 rpm using vehicle gauge, or connect external gauge.</li> </ul>	<ul> <li>f) vacuum pump does not operate within manufacturer specifications, or when no specification is available, is unable to achieve and maintain 4.5 kPa of vacuum</li> <li>NOTE: High altitude can reduce achievable vacuum level.</li> </ul>

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) A brake hose or line swells under pressure.
	ii) Level 2 leak in any part of the brake system.
	iii) Applied pedal travel exceeds 80% of total pedal travel
	iv) Power assist unit is inoperative.
	v) A check valve is inoperative or missing.
	vi) The brake pedal does not move downward when the engine is started with the brakes applied.
4. Hydraulic Assist (Boost) System on Truck or Bus	Truck  ✓  Trailer     Bus  ✓
a) engine-driven pump, reservoir and belt	a) level 2 leak of hydraulic boost fluid
Additional Inspection Procedure(s): Check with engine stopped and with engine running. Inspect drive belt according to Section 1. Power Train, Item 10. Engine or Accessory Drive Belt.	<ul> <li>fluid level is below indicated minimum level, or if not indicated, more than 25 mm from top</li> <li>filler cap is damaged, loose or missing</li> </ul>
b) line and hose	b) level 2 leak of hydraulic boost fluid
Additional Inspection Procedure(s): Check with engine stopped and with engine running.	<ul> <li>broken, chafed, collapsed, cracked, loose or missing</li> </ul>
	<ul> <li>insecure mounting or incorrect type</li> </ul>
c) operation	c) hydraulic assist (boost) is not available or system
Additional Inspection Procedure(s): Confirm proper operation of the hydraulic assist (boost) system according to manufacturer service instructions. When no manufacturer service instructions are available, check as described below.	<ul> <li>– system does not operate as described in manufacturer service instructions</li> <li>– warning or indicator lamp is activated, showing a system malfunction</li> </ul>
<ul> <li>Test Method 1 – For a system with electrically- driven back-up pump. Operate brakes with engine running and engine stopped with ignition off. Observe system operation and status of indicator lamps.</li> <li>Test Method 2 – For a system with gas- accumulator back-up. Stop engine and deplete pressure reserve. Then apply a moderate force on brake pedal and start engine.</li> </ul>	<ul> <li>during Test Method 1 – system does not operate as described in manufacturer service instructions or electric driven pump fails to operate as intended</li> <li>during Test Method 2 – on a system with gasaccumulator back-up – pedal fails to sink down and then push back up again</li> </ul>

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) A brake hose or line swells under pressure.
	ii) Level 2 leak in any part of the brake system.
	iii) Applied pedal travel exceeds 80% of total pedal travel.
	iv) Power assist unit is inoperative.
	v) A check valve is inoperative or missing.
	vi) The brake pedal does not move downward when the engine is started with the brakes applied.
5. Air Assist (Boost) System on Truck or Bus	Truck  ✓  Trailer     Bus  ✓
<ul> <li>a) operation</li> <li>Additional Inspection Procedure(s): Confirm proper operation of the air assist (boost) system according to manufacturer service instructions.</li> <li>When no manufacturer service instructions are available, check as follows: Stop engine and deplete pressure reserve. Then apply moderate force on the brake pedal and start the engine.</li> </ul>	<ul> <li>a) system does not operate as described in manufacturer service instructions</li> <li>downward movement of brake pedal is not felt when engine is started</li> </ul>
	OUT OF SERVICEi) A brake hose or line swells under pressure.ii) Level 2 leak in any part of the brake system.iii) Applied pedal travel exceeds 80% of total pedal travel.iv) Power assist unit is inoperative.v) A check valve is inoperative or missing.vi) The brake pedal does not move downward when the engine is started with the brakes applied.

Item and Method of Inspection	Reject If
6. Air-Over-Hydraulic Brake System	Truck   ✓        Trailer   ✓       Bus   ✓
NOTE: An Air-Over-Hydraulic Brake System is a brake system that uses compressed air to transmit force from the driver control to a hydraulic brake fluid system that actuates the service brakes. The brake pedal is connected to an air valve that delivers air pressure to hydraulic pressure converters.	
NOTE: The air system of an air-over-hydraulic brake system must comply with CMVSS 121.	
<ul> <li>a) operation</li> <li>Additional Inspection Procedure(s):</li> <li>Inspect system operation according to manufacturer service instructions. When no manufacturer service instructions are available, inspect the air supply system for compliance with the items 1 – 6 in Section 3A Air Brakes. Inspect the hydraulic system components for compliance with all relevant items listed in this Section.</li> </ul>	<ul> <li>a) system does not operate as described in manufacturer service instructions</li> <li>a vehicle manufactured after 1975 does not have a dual-circuit air system and two independent air-to- hydraulic pressure converters</li> <li>any system defect or malfunction is detected</li> </ul>
	OUT OF SERVICE
	i) A brake hose or line swells under pressure.
	ii) Level 2 leak in any part of the brake system.
	iii) Applied pedal travel exceeds 80% of total pedal travel.
	iv) Power assist unit is inoperative.
	v) A check valve is inoperative or missing.
	vi) The brake pedal does not move downward when the engine is started with the brakes applied.
7. Surge Brake Controller on Trailer	Truck     <b>Trailer   ✓  </b> Bus
a) controller operation	a) controller is damaged or defective
Additional Inspection Procedure(s): Check the operation of the surge brake controller according to the manufacturer service instructions. Actuate the controller using suitable means and confirm brake operation at each wheel. Test operation of any backing mechanism	<ul> <li>controller is seized, or fails to operate brakes when actuated manually</li> <li>backing/towing function fails to operate as intended</li> </ul>

Item and Method of Inspection	Reject If
b) brake fluid reservoir	b) insecure mounting or loose
	<ul> <li>level 1 leak of brake fluid</li> </ul>
	<ul> <li>brake fluid level is below "Full" mark or less than</li> <li>75% of capacity when reservoir is not marked</li> </ul>
	<ul> <li>reservoir filler cap damaged, loose or missing</li> </ul>
c) break-away device	c) missing from a trailer required to have a break-away device
Additional Inspection Procedure(s): When a break-away device is present, it must be	<ul> <li>damaged, improperly installed or inoperative</li> </ul>
inspected according to the service instructions provided by the manufacturer and it must be functional.	
	OUT OF SERVICE
	i) Brakes are inoperative or fail to operate as intended.
	ii) Required break-away device is improperly installed, inoperative or missing.
8. Vacuum System on Trailer	Truck     <b>Trailer   ✓</b>   Bus
Additional Inspection Procedure(s): When inspecting a trailer that uses vacuum to actuate or boost braking, inspect the system according to the service instructions provided by the manufacturer	
a) condition and operation	a) damaged or fails to operate as intended
	OUT OF SERVICE
	i) Brakes are inoperative or fail to operate as intended.
9. Air-Boosted Trailer Brake System	Truck     <b>Trailer   ✓</b>   Bus
Additional Inspection Procedure(s): When inspecting a trailer that uses an air-boosted brake system, inspect the system according to the service instructions provided by the manufacturer	
a) condition and operation	a) damaged or fails to operate as intended

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) Brakes are inoperative or fail to operate as intended.
10. Electric Brake System on Trailer	Truck     Trailer   ✓   Bus
Additional Inspection Procedure(s): Wheels and drums must be disassembled on all electric brake systems.	
NOTE: Inspect the wheel-end (drum or disc) brake system components, on a trailer with electric brakes, according to the relevant requirements for drum or disc brake system as outlined in this section below.	
a) wheel magnet and actuator	a) any part is broken, damaged, loose, or missing
Additional Inspection Procedure(s): When the manufacturer of the brake system provides a test procedure for confirming the operation of the electromagnet used to actuate the brake, the test procedure must be conducted as part of the inspection.	<ul> <li>magnet is inoperative or seized</li> </ul>
b) wiring	b) shorted, insulation is cracked or peeled
	<ul> <li>improperly spliced or connected</li> </ul>
	<ul> <li>not secured at least every 1,800 mm</li> </ul>
c) break-away device	c) missing from a trailer required to have a break-away
Additional Inspection Procedure(s): When a break-away device is present, it must be inspected according to the service instructions provided by the manufacturer and it must be functional.	device – damaged or inoperative
d) battery and controller	d) damaged or fails to operate as intended
Additional Inspection Procedure(s): Test the battery and controller according to the service instructions provided by the manufacturer.	

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) Brakes are inoperative or fail to operate as intended.
	ii) Required break-away device is inoperative or missing.
11. Brake system indicator lamps	Truck  ✓  Trailer     Bus  ✓
a) operation	a) missing, not red or amber in colour
Additional Inspection Procedure(s): Confirm the location and labeling of brake indicator lamps according to manufacturer service instructions. Check operation of brake indicator lamps according to manufacturer service instructions. When no manufacturer service instructions are	<ul> <li>does not operate according to manufacturer service instructions</li> <li>indicates a brake system malfunction or defect</li> </ul>
available, begin with engine stopped, then turn ignition on. Lamps must turn on when ignition is first turned on. Lamps may go out after 2-3 seconds or may stay on until the engine is started.	
NOTE: Some indicator lamps may stay on, after a repair or system malfunction, until vehicle speed reaches 8-16 km/h.	
	OUT OF SERVICE
	i) Any brake indicator is inoperative or fails to operate as intended.
	ii) An active brake failure is indicated.
12. Drum Brake System Components	Truck  ✓      Trailer  ✓      Bus  ✓
NOTE: Drums must be removed.	
a) brake operation	<ul><li>a) a required brake is missing</li><li>a brake is inoperative</li></ul>

Item and Method of Inspection	Reject If
b) brake shoe lining condition (service brakes) NOTE: Cracks in the surface of the lining, surface erosion and minor spalling of the contact face of the lining are normal. Also inspect lining for damage caused by "rust-jacking." This includes lining material cracking, lifting or separating from backing metal, due to rust build-up.	<ul> <li>b) a crack extending partially through, or completely through the lining from the friction surface to the metal backing, passing from any rivet hole to the edge <ul> <li>a crack in the edge of the lining that is wider than 1 mm or longer than 38 mm</li> <li>a piece of the lining is broken off exposing a rivet</li> <li>lining is distorted or separating from shoe, (e.g. an object 1 mm thick can be inserted more than 10 mm between the lining and the backing metal)</li> <li>lining is contaminated by brake fluid, oil or grease (Also see Section 9 Item 5 for wheel seal leaks)</li> <li>lining or any lining fastener is loose – shim is used between lining and shoe</li> <li>shoe or lining is installed incorrectly (such as primary and secondary shoes reversed)</li> </ul> </li> </ul>
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Item and Method of Inspection	Reject If
	Examples of Brake Shoe Lining Pass and Reject Conditions:
	Reject condition 1 – a partial crack in the lining, extending from a rivet hole to the edge
	Reject condition 2 – a crack completely through the lining, extending from a rivet hole to the edge
	Reject condition 3 – a crack in the edge of the lining wider than 1 mm
	Reject condition 4 – a crack in the edge of the lining longer than 38 mm
	Reject condition 5 – a piece of the lining is broken off exposing a rivet
	Reject condition 6 – lining is distorted or separating from shoe
	Pass condition 7 – minor crack or spalling of the lining material
	Pass condition 8 – crack in edge of lining shorter than 38 mm
	Pass condition 9 – crack in edge of lining less than 1 mm wide
c) brake shoe lining thickness	
i) bonded lining	<ul><li>i) worn to 1.6 mm (1/16 in.) or less at centre of shoe</li><li>– worn to minimum as indicated by component</li></ul>
	manufacturer over 1.6 mm
ii) riveted lining	ii) worn to 3.2 mm (1/8 in.) or less at centre of shoe
	<ul> <li>worn to 1.6 mm (1/16 in.) or less above rivet when wheels and drum removed</li> </ul>
	<ul> <li>worn to minimum as indicated by component manufacturer over 1.6 mm</li> </ul>

Item and Method of Inspection	Reject If
Additional Inspection Procedure(s): Lining thickness must be measured at each inspection and the measurement must be recorded on the inspection report.	
For the purposes of recording lining thickness on the inspection report, lining thickness measurements are taken at the edge of the lining, near the centre of the brake shoe. The measurement must be taken of the thinner brake shoe lining, when there is a difference in thickness.	
d) brake drum condition	d) surface crack longer than 75% of the width of the
NOTE: Heat checks and some surface cracks on the friction surface are normal. A heat check has	<ul> <li>surface crack within 25 mm of the open edge</li> </ul>
a width less than 0.5 mm and a depth less than 0.5 mm. A surface crack is at least 0.5 mm wide and 0.5 mm deen	<ul> <li>surface crack, groove or worn area that is a structural weakness</li> </ul>
Any surface crack, groove or worn area that is deeper than the drum wear limit is a structural weakness.	<ul> <li>external crack</li> <li>friction surface is abnormally worn, or is hardened and blackened due to overheating ("martensite")</li> <li>friction surface is contaminated by grease or oil (Also see Section 9 Item 5 for wheel seal leaks.)</li> </ul>
e) brake drum diameter (wear) Additional Inspection Procedure(s):	<ul> <li>e) measured drum diameter exceeds limit indicated on the brake drum, OEM standard or industry standard, or if limit is not available:</li> </ul>
Brake drum diameter must be measured unless an exemption applies, and the measurement must be recorded on the inspection report.	<ul> <li>for nominal drum size of 350 mm (14 in.) or less:</li> <li>2.3 mm more than original drum diameter</li> </ul>
	<ul> <li>for nominal drum size greater than 350 mm (14 in.): 3.0 mm more than original drum diameter 2.3 mm = 0.09 in.</li> <li>3.0 mm = 0.12 in.</li> </ul>
f) self-adjuster mechanism	<ul> <li>f) abnormally worn, incorrect thread direction, inoperative</li> </ul>
	<ul> <li>missing or seized</li> </ul>

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Item and Method of Inspection	Reject If
g) anchor pin and return spring	g) abnormally worn, bent, broken, loose or missing
	<ul> <li>spring stretched</li> </ul>
h) backing plate	h) bent, damaged or loose
	<ul> <li>shoe contact area is grooved or worn in a manner that restricts free movement of shoes</li> </ul>
i) axle and spindle	i) cracked
j) wheel cylinder	j) damaged, inoperative or seized, loose or insecure mounting
	<ul> <li>level 2 leak of brake fluid</li> </ul>
	<ul> <li>dust seal is cracked, damaged, deteriorated, missing, or split</li> </ul>
k) wheel seal	k) level 2 leak of bearing lubricant
	OUT OF SERVICE
	i) Any part is binding, broken, missing, seized, or mounted incorrectly.
	ii) A brake drum is in a condition where an imminent failure appears likely.
	iii) Level 2 leak of brake fluid at wheel cylinder.
	iv) A brake is inoperative.
	v) Brake lining thickness is less than 1.6 mm.
	vi) A piece of the lining is broken off exposing a rivet or bolt.
	vii) A crack in the edge of the lining wider than 1 mm.
	viii) A crack in the edge of the lining longer than 38 mm.
	ix) Broken or missing return spring, anchor pin, or spider.
	x) Brake lining or brake drum friction surface is contaminated by brake fluid, grease or oil.
	NOTE: Also see section 9, item 5 for wheel seal leaks.

Item and Method of Inspection	Reject If
13. Disc brake System components	Truck  ✓  Trailer  ✓  Bus  ✓
<ul> <li>13. Disc brake System components</li> <li>a) brake operation</li> <li>b) disc (rotor) condition</li> <li>NOTE: Heat checks and some surface cracks on the friction surface are normal. A heat check has a width less than 0.5 mm and a depth less than 1 mm. A surface crack is at least 0.5 mm wide and 1 mm deep.</li> <li>NOTE: Lateral run-out and parallelism only need to be checked only where there is evidence of a problem.</li> </ul>	Truck  ✓        Trailer  ✓        Bus  ✓          a) a required brake is missing       -       a brake is inoperative         b) section is broken off or missing       -       crack extends from the friction surface through to the cooling vent         -       any surface crack is longer than 75% of the radial width, within the friction surface       -         -       any surface crack extends to an outer edge       -         -       groove or pitted area in rotor that reduces rotor thickness below minimum allowable value         -       contact pattern of the pad on solid rotor material (i.e.: not rusted) is less than 75% of the radial width, around the entire rotor, on one side         -       lateral run-out or out-of-parallelism exceeds 0.3 mm         -       friction surface of the rotor is contaminated by
	<ul> <li>friction surface of the rotor is contaminated by brake fluid, grease or oil (Also see section 9 item 5 for wheel seal leaks) 0.3 mm = 0.01 in.</li> </ul>
	<ul> <li>disc not vented properly</li> <li>hot spots are present that cannot be removed by machining</li> </ul>

Item and Method of Inspection	Reject If
c) disc (rotor) thickness Additional Inspection Procedure(s): Disc (rotor) thickness must be measured. Measurements must be recorded on inspection report.	<ul> <li>c) - two grooves worn beyond maximum 2.3 mm (3/32 in.)</li> <li>lateral run out exceeds 0.128 mm (0.005 in.) on discs 380 mm (15 in.) in diameter or less</li> <li>lateral run out exceeds 0.128 mm on discs 380 mm (15 in.) in diameter or less</li> <li>lateral run out exceeds 0.25 mm (0.01 in.) on discs greater than 380 mm (15 in.)</li> <li>lateral run out exceeds 0.25 mm on discs greater than 380 mm (15 in.)</li> <li>original thickness decreased by any combination of wear and machining below manufacturer's minimum thickness in direct on not exceed an actor.</li> </ul>
d) caliper	<ul> <li>minimum thickness indicated on rotor</li> <li>d) any part is binding, broken, missing, seized or mounted incorrectly or inferior attaching bolt is used <ul> <li>slide pin/slider or pad slider is binding, damaged, seized, mounted incorrectly, or not equivalent to OEM standard</li> <li>caliper movement within the anchor plate exceeds manufacturer specification, guide is welded or repaired in a way that does not meet OEM standard</li> <li>level 2 leak of brake fluid</li> <li>pad retainer is bent, damaged, insecure or missing</li> <li>boot or bellows is cracked or deteriorated, damaged, or missing</li> </ul> </li> </ul>
e) anchor plate	e) loose or bolt is missing
f) pad condition	<ul> <li>f) broken, cracked, damaged, or abnormally worn</li> <li>friction material is contaminated by brake fluid, oil or grease (Also see section 9 item 5 for wheel seal leaks)</li> <li>friction material loose on pad, pad is missing, or pad is installed incorrectly</li> </ul>

Item and Method of Inspection	Reject If
<ul> <li>g) pad (friction material) thickness</li> <li>Additional Inspection Procedure(s):</li> <li>Pad (friction material) thickness of both inboard and outboard pad must be measured and measurement of the thinnest pad must be recorded on the inspection report.</li> <li>NOTE: Pad (friction material) thickness can be determined by measuring the friction material itself or by measuring the combined thickness of the friction material and pad backing plate, then deducting the thickness of the backing plate. Record the thickness of the friction material only.</li> </ul>	<ul> <li>g) pad (measured friction material) thickness is less than manufacturer specification, or industry standard, or if limit is not available</li> <li>worn to 1.6 mm (1/16 in.) above rivet when wheels and disc removed</li> <li>worn to 1.6 mm (1/16 in.) or less at the thinnest point on bonded pads</li> <li>worn to 3.2 mm (1/8 in.) or less at the thinnest point on riveted linings</li> <li>worn to minimum as indicated by component manufacturer over 1.6 mm</li> <li>worn to 3.2 mm (1/8 in.) at thinnest point on riveted pads</li> <li>worn to 1.6 mm (1/16 in.) or less above rivet on riveted lining when caliper removed</li> </ul>
h) clearance between pads and rotor (caliper adjustment)	h) does not meet manufacturer's specifications

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) Any part is binding, broken, missing, seized or mounted incorrectly.
	ii) A rotor (disc) friction surface shows metal to metal contact with brake pad or severe rusting.
	iii) A rotor (disc) has a crack that extends to the hub or through to the vented section.
	iv) Any brake component is in a condition where an imminent failure appears likely.
	v) A brake is inoperative.
	vi) Friction material of the pad or friction surface of the rotor is contaminated by brake fluid, grease or oil.
	vii) Any disc is cracked to the hub or failure appears imminent.
	viii) Any brake component is in a condition which would indicate failure is imminent.
	ix) Any brake is inoperative.
	<ul> <li>Any brake pad is worn to 1.6 mm (1/16 in.) or less above rivet or shoe (worn to minimum as indicated by component manufacturer over 1.6 mm).</li> </ul>
	xi) Worn to 3.2 mm (1/8 in.) or less at the thinnest point on riveted linings.
	xii) Any level 2 fluid leak.

Item and Method of Inspection	Reject If
14. Mechanical Parking Brake	Truck   ✓   Trailer     Bus   ✓
a) operation	a) parking brake does not hold as required
Additional Inspection Procedure(s): Refer to manufacturer service instructions for test procedure. When such instruction is not available, test as described below.	
With a manual transmission – Apply the parking brakes and place the transmission in the second or third lowest gear. Engage the clutch slowly without applying the throttle. Vehicle may rock and shake, but it should not roll, and engine may stall.	
With an automatic transmission – Apply the parking brake and place the transmission in forward gear. Raise engine speed to no more than 800 rpm. Vehicle may shift due to torqueing of the suspension, but it should not roll forward or backward.	
NOTE: Some vehicles with automatic transmissions use an interlock that prevents a vehicle from being placed into gear when the parking brake is applied. Inspect such a vehicle according to the test method provided by the manufacturer.	
b) indicator lamp	b) parking brake indicator lamp does not activate when control is placed in the applied position
c) control	c) binds, broken or missing
	<ul> <li>inoperative or fails to lock</li> </ul>
d) cable and/or linkage	d) broken, frayed, improperly secured, missing, seized or equalizer is missing
e) adjustment	e) any part of the system is improperly adjusted
<ul><li>f) friction material</li><li>Additional Inspection Procedure(s):</li></ul>	f) thickness is less than 3.2 mm (1/8 in.) on riveted lining or less than 1.6 mm (1/16 in.) on bonded lining
Inspecting the condition of the parking brake friction material is necessary in cases when shoes are visually accessible, or the brake is disassembled.	<ul> <li>worn to minimum as indicated by component manufacturer over 1.6 mm</li> <li>contaminate</li> </ul>

Item and Method of Inspection	Reject If
	OUT OF SERVICE
	i) Brake is inoperative or fails to operate as intended.
	ii) Vehicle rolls forward or backward with little or no resistance when parking brake is applied.
15. Spring-Applied Hydraulic-Released (SAHR) Parking Br	ake Truck  ✓  Trailer     Bus  ✓
NOTE: A spring-applied hydraulic-released (SAHR) Parking Brake System uses a mechanical spring to apply the parking brake. Pressurized hydraulic fluid is used to compress the spring and release the parking brake.	
a) operation	a) parking brake does not hold as required
Refer to manufacturer service instructions for test procedure. When such instruction is not available, test as described below.	
A manual transmission – Apply the parking brakes and place the transmission in the second or third lowest gear. Engage the clutch slowly without applying the throttle. Vehicle may rock and shake, but it should not roll, and engine may stall.	
<b>An automatic transmission</b> – Apply the parking brake and place the transmission in forward gear. Raise engine speed to no more than 800 rpm. Vehicle may shift due to torqueing of the suspension, but it should not roll forward or backward.	
NOTE: Some vehicles with automatic transmissions use an interlock that prevents a vehicle from being placed into gear when the parking brake is applied. Inspect such a vehicle according to the test method provided by the manufacturer.	
b) indicator lamp	b) parking brake indicator lamp does not activate when control is placed in the applied position
c) line and hose	c) level 2 leak of hydraulic fluid
Additional Inspection Procedure(s): Check with engine stopped and with engine running.	<ul> <li>broken, chafed, collapsed, cracked, leaking, loose or missing</li> <li>insecure mounting or incorrect type</li> </ul>

Item and Method of Inspection	Reject If
d) release canister	d) damaged, inoperative, insecure, or loose
	<ul> <li>level 2 leak of hydraulic fluid</li> </ul>
<ul> <li>e) friction material</li> <li>Additional Inspection Procedure(s):</li> <li>Inspecting the condition of the parking brake friction material is necessary in cases when shoes are visually accessible, or the brake is disassembled.</li> </ul>	<ul> <li>e) thickness is less than 3.2 mm (1/8 in.) on riveted lining or less than 1.6 mm (1/16 in.) on bonded lining</li> <li>worn to minimum as indicated by component manufacturer over 1.6 mm</li> <li>contaminated</li> </ul>
	OUT OF SERVICE
	i) Brake is inoperative or fails to operate as intended.
	ii) Vehicle rolls forward or backward with little or no resistance when parking brake is applied.
16. Anti-Lock Brake System (ABS) on a Truck or Bus	<b>Truck</b> $ \checkmark $ Trailer $  $ <b>Bus</b> $ \checkmark $
NOTE: Every truck or bus manufactured on or after April 1, 2000, with a GVW above 4,536 kg must be equipped with ABS.	
Every vehicle equipped with ABS that was not mandatory for the vehicle when it was manufactured must have ABS in good working order.	
a) indicator lamp	a) inoperative or missing
Additional Inspection Procedure(s): Cycle the ignition off and on while monitoring the ABS indicator lamp.	<ul> <li>fails to turn on during bulb-check cycle when ignition is turned on</li> <li>indicates the presence of an active malfunction by staying on after the bulb-check cycle</li> <li>any visual evidence that the system has been</li> </ul>
	tampered with or defeated
b) ABS decal – cautionary pass	b) DO NOT REJECT – pass with caution and advise owner if ABS decal is missing
c) electronic control unit (ECU)	c) insecure mounting, missing or connector corroded
d) wiring	d) insecure mounting, missing, or connector corroded
Additional Inspection Procedure(s): Visually inspect accessible portions of the wiring. Inspect all repairs and damaged areas.	<ul> <li>conductor is exposed due to damage, improper repair or other condition of wire</li> <li>connection or repair does not meet OEM standard</li> </ul>

Item and Method of Inspection	Reject If
e) ABS modulating valve	e) missing, insecure mounting to ECU, level 1 leak of brake fluid or abnormal corrosion
<ul> <li>f) wheel speed sensor</li> <li>NOTE: Different configurations of sensors and modulators are permitted by CMVSS. Be sure to confirm the OEM configuration of the ABS before rejecting a vehicle due to missing wheel speed sensors.</li> </ul>	f) inoperative, insecure mounting, missing, connectors corroded
	OUT OF SERVICE
	i) Any malfunction of the ABS system that prevents normal brake operation.
17. Stability Control System	Truck  ✓  Trailer     Bus  ✓
<ul> <li>a) indicator lamp/system status</li> <li>Additional Inspection Procedure(s):</li> <li>Check for indication of any fault or malfunction by cycling the ignition off and on while monitoring the indicator lamp.</li> </ul>	<ul> <li>a) lamp fails to illuminate during bulb-check or lamp remains illuminated</li> <li>fault or malfunction is indicated</li> <li>any visual evidence that the system has been tampered with or defeated</li> </ul>

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