Item and Method of Inspection	Reject If
1. Steering Control and Linkage	Truck ✓ Trailer ✓ Bus ✓
Additional Inspection Procedure(s): Check the steering components listed below using tools and methods according to manufacturer service instructions.	
a) steering box or rack and pinion unit	a) loose or insecure mounting, mounting bolt loose or missing
	- housing broken, cracked, or level 2 leak of oil or fluid
b) bellow, clamp and boot	b) insecure, missing, split or torn
	 bulging, swollen or discoloured due to oil leak from internal end seal clamp missing
c) tie rod	c) bent, broken, cracked or welded, or repaired in a way that does not meet OEM standard
d) tie rod end, drag link and ball and socket joint	d) bent, insecure, loose or worn
	 threads stripped or repaired
	 ball and socket joint is worn beyond manufacturer specifications
	 damaged, welded or repaired in a way that does not meet OEM standard
	 part is used that does not meet OEM standard
e) pitman arm	e) bent, damaged, insecure or loose on spline
	 repaired by welding
f) ball-joint in upper or lower control arm	f) loose in knuckle or control arm
	 wear exceeds limit shown by wear-indicator, OEM standard limit or industry standard limit, or is injected with repair materia
	 insecure or loose
	 improper or loose retainer
g) cotter pin or similar retaining device	g) missing, or deficient part is used that does not meet OEM standard

Item and Method of Inspection	Reject If
h) steering dampener	h) inoperative or missing
	- level 2 leak of dampener fluid
i) steering column	i) insecure mounting or loose
	- mounting fastener loose or missing
j) telescopic/tilt steering	j) movement exceeds manufacturer specification, or whe
Additional Inspection Procedure(s): Check the operation of locking device(s). With unit locked, grasp the steering column and attempt to move it horizontally and vertically on its mounts.	specification is not available, is greater than 6 mm
k) steering shaft universal joint and yoke	k) binding, loose, seized, welded or repaired in a way th does not meet OEM standard
	 clamp bolt loose or missing, or spline loose or stripped
l) steering column slip joint	l) rotational free play between splines exceeds 1.0 mm
Additional Inspection Procedure(s): Grasp the sections of the slip joint and check rotational free play by twisting in opposite directions. Then check the total side to side, or up and down movement of the slip joint perpendicular to the line of rotation.	 total side to side, or up and down movement exceeds 6 mm rotational free play side to side, or up and down movement
m) adjusting sleeve	 m) bent, loose or welded or repaired in a way that does not meet OEM standard tightening bolt is in a position that interferes with

Item and Method of Inspection	Reject If
n) remote (right hand) steering control	NOTE: Inspect as described in Section 5 – Instruments and Auxiliary Equipment
	OUT OF SERVICE
	i) Any crack, modification or other condition that interferes with free movement of any steering component, or repair that does not meet OEM standard.
	Steering Box or Rack & Pinion Unit
	 Cracked, loose or insecure mounting, mounting bolt loose or missing or has been repaired in way, (e.g.: welded) that does not meet OEM standard.
	Steering Linkage
	 iii) Any ball and socket joint has looseness in line with the shank or neck of the ball greater than manufacturer specification, or when specification is not available, greater than 3.0 mm.
	iv) The socket of a ball and socket joint is injected with any repair material, or a ball and socket joint has been repaired in way (e.g.: welded) that does not meet OEM standard.
	v) Pitman arm is loose on steering gear output shaft spline or has been repaired in way (e.g.: welded) that does not meet OEM standard.
	vi) Any nut is loose or missing.
	vii) Loose clamp, clamp bolt or nut on tie rod, drag link, pitman arm, or steering arm.
	viii) Any looseness in any threaded joint.
	·

Item and Method of Inspection	Reject If
	Steering Column and Related Parts
	ix) Adjusting sleeve is loose or insecure.
	x) Loose or insecure mounting, mounting bolt loose or missing.
	xi) Column fails to lock into position.
	xii) A universal joint has been repaired in way (e.g.: welded) that does not meet OEM standard.
	xiii) Any looseness of the yoke-coupling at the steering gear input shaft.
2. Power Steering System (Hydraulic and Electric)	Truck ✓ Trailer Bus ✓
Additional Inspection Procedure(s): Inspect the power steering components with the engine stopped. Then with engine running, turn wheels fully to the left and right and check system operation	
a) fluid	a) below indicated minimum level or fluid is contaminated
b) belt	NOTE: Inspect drive belt according to Section 1. Power Train, Item 10. Engine or Accessory Drive Belt.
c) hose	c) cracked, worn by or is in contact with moving parts
	 distance to exhaust system component is less than 25 mm
	 level 2 leak of power steering fluid
d) pump	d) inoperative, insecure mounting, or loose
	 level 2 leak of power steering fluid
e) cylinder	e) missing, inoperative, insecure mounting, or loose.
	 level 2 leak of power steering fluid.
f) mounting bracket	f) broken, cracked or loose
,	 bolt loose or missing

Item and Method of Inspection	Reject If
g) assist	g) does not operate as intended (i.e.: power-assist provided is noticeably reduced requiring more than normal steering effort to turn the wheels left or right
	OUT OF SERVICE
	i) Power steering does not operate as intended.
	ii) Any steering component is in a condition where imminent failure appears likely.
	iii) Level 3 leak of power steering fluid.
	iv) Auxiliary power assist cylinder is loose.
3. Steering Operation (Active Steer Axle)	Truck ✓ Trailer ✓ Bus ✓
NOTE: Trailers equipped with steering or other components not defined in this section must have those components inspected under applicable criteria in the Truck/Tractor section.	
NOTE: An active steer axle is one that is directly controlled by the steering wheel. Check steering operation	
after inspecting steering control and linkage, and checking power steering as described above. a) steering wheel	a) broken, damaged, loose on spline or modified
power steering as described above.	a) broken, damaged, loose on spline or modified – diameter is not OEM or equivalent
power steering as described above.	

Item and Method of Inspection	Reject	If
c) steering lash or free-play Additional Inspection Procedure(s):	c) steering lash or free-play is shown below	greater than the distance
Check vehicle having power steering with engine	MANUAL ST	EERING
running. Measure lash or free-play beginning with wheels in straight-ahead position. Then turn steering wheel just until turning motion can be observed at the front wheels. Mark rim of steering wheel and turn the	Wheel Diameter 508 mm (20 in.) and less Over 508 mm (20 in.)	Steering Lash 89 mm (3.5 in.) 102 mm (4.0 in.)
steering wheel in the opposite direction until motion	POWER STE	ERING
can just be observed. Measure the distance of steering wheel rotation that does not cause turning of the wheels. NOTE: Steering wheel measured from the outside.	Wheel Diameter 508 mm (20. in.) and less Over 508 mm (20 in.) – visual inspection reveal looseness in any ball stu pointor mechanical link	ıd, end assembly pivot
d) tire clearance	d) space between tire and frame, fender or other vehic part is less than 25 mm at any point in turn.	
e) steering stop	e) improperly adjusted or mis	sing
	OUT OF SERVICE	
	i) Steering binds or jams durin	g rotation
	ii) Steering lash or free-play is g shown below:	greater than the distance
	MANUAL ST	EERING
	Wheel Diameter 508 mm (20 in.) and less Over 508 mm (20 in.) POWER STE	Steering Lash 140 mm (5.5 in.) 196 mm (7.75 in.) ERING
	Wheel Diameter	Steering Lash
	508 mm (20 in.) and less Over 508 mm (20 in.)	89 mm (3.5 in.) 102 mm (4 in.)

Item and Method of Inspection	Reject If
Additional Inspection Procedure(s): Raise the axle to unload the kingpin. Turn the wheels through a full right and left turn.	
 a) lateral movement Additional Inspection Procedure(s): Rock the wheel in and out, by hand or using a bar, to check for kingpin movement. Measure lateral movement at the outer edge of the tire. Use a dial gauge if necessary. b) vertical movement Additional Inspection Procedure(s): Place a bar under the tire and check for vertical movement between spindle support and axle. Use a dial gauge if necessary. 	 a) not within manufacturer specification or when manufacturer specification is not available for wheels under 20 in.: lateral movement is more than 3 mm for wheels 20 in. or larger: lateral movement is more than 5 mm b) not within manufacturer specification or when manufacturer specification is not available, greater than 2.5 mm
c) condition	c) binding or jamming is detected while turning wheel
	OUT OF SERVICE i) Binding or jamming caused by the kingpin or thrust bearings.
5. Self-Steer and Controlled-Steer Axle	Truck ✓ Trailer ✓ Bus ✓
NOTE: These are passive steer axles. A passive steer axle responds only to lateral force to turn wheels. The suspension components on a self-steer or controlled steer axle must be inspected according to Section 2, items 1-4. The steering components must be inspected according to items 1 and 4 above. Additional inspection procedure(s): Additional items may require inspection than those listed below. Refer to manufacturer service instructions related to the particular axle – for items in addition to those listed below – that are required to be inspected as part of a periodic safety inspection.	

Item and Method of Inspection	Reject If
a) operation	a) binding or jamming is detected while turning wheels
Additional Inspection Procedure(s): Raise the vehicle and turn the wheels through a full right and left turn.	
b) clearance	b) there is less than 25 mm between the tire and frame, fender or other vehicle part
c) steering stop	c) missing or not adjusted properly
d) air pressure regulator	d) inoperative or missing
e) pressure gauge	e) inaccurate, inoperative or missing
	 not equipped with legible instruction indicating the minimum centering force pressure requirement
f) operating instruction label	 f) not equipped with legible instruction indicating safe operation (such as: stating the speed at which the axle locks)
	OUT OF SERVICE
	i) Cracked, loose or insecure mounting, mounting bolt missing or loose, or has been repaired in way that does not meet OEM standard.
	ii) Inoperative or missing steering lock on a C-dolly.
	iii) Steering locks in any position except centred.
	NOTE: Also see Out of Service condition for items 1 to 4 in this section above.
Wheel Alignment	
Theel alignment required where visual evidence	Does not meet OEM specifications.

of misalignment.