

Item and Method of Inspection	Reject If
1. GENERAL for all required lamps	Truck ✓ Trailer ✓ Bus ✓
<p>All lamps must comply with designated requirements. Lenses and bulbs must meet CMVSS/FMVSS standards. For this section FMVSS standards are considered equivalent to CMVSS unless otherwise stated.</p> <p>For reference, please see the BC Inspection & Approval Protocol for Vehicle Lamps, Lights and Reflectors Document.</p> <p>All lamps mentioned except hazard lamps are to be inspected with head lamps and all other auxiliary lamps on with brakes applied.</p> <p>a) operation</p> <p>Note: See Appendix A (Federal Lighting) for details on CMVSS 108 requirements for lamps, lamp location and colour.</p> <p>Additional Inspection Procedure(s): Test the operation of all required lamps, lamp switches and controls, and lamp indicators.</p> <p>b) obstructions</p> <p>c) markings</p> <p>JIS and ECE code markings are acceptable, except headlamps.</p>	<p>a) fails to illuminate fully and correctly in response to the switch or control</p> <ul style="list-style-type: none"> – fails to turn off in response to the switch or control – broken, cracked, insecure mounting or missing – lens is clouded or reduces transmission of light is not clearly visible or is covered in any manner – does not meet CMVSS, DOT or SAE standards – 25% or more of LEDs of any one lamp assembly are inoperative <p>b) covered or obscured by any non-OEM part or object</p> <ul style="list-style-type: none"> – any lens or device covered or coated by a material/ substance that reduces light transmittance (internal or external) <p>c) bulbs do not meet CMVSS or are not labelled as such</p> <ul style="list-style-type: none"> – not clearly labelled with CMVSS/DOT/SAE

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2. Required lamps	
a) headlamp NOTE: This applies to truck and bus only. “HID” = high-intensity discharge lamp.	a) broken, cracked, inoperative or missing moisture is present inside the lamp assembly NOTE: A crack is acceptable in a lamp assembly with a replaceable bulb if no moisture is present inside the lamp assembly. <ul style="list-style-type: none"> – headlamp beam pattern is not directed toward right hand side of roadway – a non-functional diode in LED headlamp – HID bulb is installed in an incandescent headlamp housing – HID assembly does not display either HG, DC, DR or DCR codes – headlamp switch or beam (high and low) selector is broken, inoperative, missing, does not meet OEM standard – high beam indicator lamp on instrument panel is inoperative – vehicle modification or installation of lamp causes headlamp to be higher or lower than permitted by CMVSS 108 (Appendix A) <p>The headlamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not two or four facing front as far apart as practicable – not white (correlated color temperature (CCT) rating of 2854K-5000K) – does not illuminate correctly when operated by headlamp control on high and low beam
i) number and location	i) not two or four on front as far apart as possible – low-beam devices are not most outboard light source (or uppermost, if arranged vertically) in four-lamp configuration
ii) height	ii) height is not between 56 cm and 137 cm (22 and 54 in.) above road surface when measured at centre of lamp

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<p>iii) markings</p> <p>Compliant ECE code frontal illumination markings: C R CR C/R HC HR HCR HC/R DC DR DCR DC/R</p> <p>Device must NOT have single directional arrow (→) associated with either of these markings. A double arrow (↔) indicates a switchable beam pattern device and inspector must confirm correct low beam projection setting for LHD traffic pattern.</p> <p>b) tail lamp</p> <p>i) height</p> <p>c) stop (brake) lamp</p> <p>d) centre high mount stop lamp</p> <p>NOTE: Required on every truck with a width under 2.05 m, and GVWR of 4,536 kg and less, built after January 10, 1997. Not required on trailers.</p>	<p>iii) not clearly labelled with CMVSS/DOT/SAE or compliant ECE code frontal illumination markings</p> <ul style="list-style-type: none"> – any JIS markings present <p>b) broken, cracked, inoperative or missing</p> <ul style="list-style-type: none"> – vehicle modification or installation of lamp causes tail lamp to be higher or lower than permitted by CMVSS 108 – not two, not located on rear as far apart as practicable – not red in colour – does not illuminate correctly when operated by headlamp control <p>i) height is not between 38 cm to 183 cm (15 to 72 in.) above the road surface when measured at centre of lamp</p> <p>c) broken, cracked, inoperative or missing</p> <p>The stop lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not two lamps, not located at rear of vehicle and as far apart as practicable, not red in colour – does not illuminate correctly when service brakes are applied <p>d) broken, cracked, inoperative or missing</p> <p>The centre high mount stop lamp fails to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not facing rear of vehicle – not red in colour – does not illuminate correctly when service brakes are applied

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<p>e) turn signal lamp</p> <p>NOTE: Not required on front of trailers.</p>	<p>e) broken, cracked, inoperative or missing</p> <ul style="list-style-type: none"> control is broken, inoperative or missing control fails to hold selected position on a vehicle less than 2.05 m wide, control fails to cancel automatically when steering returns to centre turn signal indicator lamp on instrument panel is inoperative <p>The turn signal lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> not two facing the front, as far apart as practicable, not amber in colour not two facing the rear, as far apart as practicable, not amber or red in colour illuminate correctly when operated by turn signal control do not flash between 50 and 130 times per minute, not clearly visible, not operated by turn signal control
<p>g) side marker lamp</p> <p>NOTE: A single lamp may serve as both a side marker and a clearance lamp, provided it is clearly visible from both the side and the rear.</p> <p>Vehicles 9.1 m or more in length require amber intermediate lamps.</p> <p>Intermediate side marker lamps are not required on vehicles less than 9.1 m in length</p>	<p>g) broken, cracked, inoperative or missing</p> <ul style="list-style-type: none"> amber intermediate side marker lamps are inoperative or missing on a vehicle over 9.1 m in length <p>The side marker lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> not minimum of four in total, not two at the rear and not two at the front, not facing the side not located as close to corners as practicable front are not amber in colour rear are not red in colour
<p>iv) height</p>	<p>iv) height is less than 38 cm (15 in.) above road surface</p>

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<p>h) clearance lamp</p> <p>NOTE: Clearance lamps are required at the front and rear on all vehicles 2.05 m or more in width. Rear clearance lamps are not required on truck-tractors.</p> <p>i) identification lamp</p> <p>NOTE: Identification lamps are required at the front and rear on all vehicles 2.05 m or more in width, except as noted below. Rear identification lamps are not required on truck-tractors. Front identification lamps are not required on trailers.</p> <p>j) licence plate lamp</p> <p>k) daytime running lamp</p> <p>NOTE: Required on all trucks and buses manufactured after December 1, 1989.</p> <p>l) back up lamp</p> <p>NOTE: Back up lamps are required on all trucks, truck-tractors and buses manufactured after January 1, 1971. Back up lamps are not required on trailers</p>	<p>h) broken, cracked, inoperative or missing</p> <p>The clearance lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not four in total, not located as far apart as practicable at the widest point of the vehicle – not two facing the front, as high as practicable, not amber in colour – not two facing the rear, not red in colour <p>i) broken, cracked, inoperative or missing</p> <p>The identification lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not minimum of six in total – not three facing the front, not amber in colour – not three facing the rear, not red in colour <p>j) broken, cracked, inoperative or missing</p> <ul style="list-style-type: none"> – not white, fails to illuminate licence plate – not located so as to shine a white light on plate – not operated by headlamp control <p>k) broken, cracked, inoperative or missing</p> <p>The daytime running lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not located on front of vehicle – not white or amber in colour – operate continually when engine is operating and master lighting switch is not in the “ON” position – defeatable – operates using manual switch <p>l) broken, cracked, inoperative or missing</p> <ul style="list-style-type: none"> – not white in colour or not located at rear – does not illuminate with engine running and transmission in reverse gear

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m) seatbelt warning indicator	m) not activated per OEM test design
n) “check engine” indicator light	n) fails to illuminate or remains illuminated after test cycle
3. Non Required lamps	
<p>NOTE 1: All non-required and non- opaque covered frontal lighting devices must meet applicable compliance standards for highway use.</p> <p>NOTE 2: Non-required frontal lighting devices equipped on a vehicle that do not illuminate but are otherwise compliant, must be indicated as a “CAUTIONARY” or “Pass with Caution” item on the inspection report.</p>	
a1) front fog lamps (if equipped) <ul style="list-style-type: none"> i) lens type ii) number and location iii) colour iv) operation 	<ul style="list-style-type: none"> i) not lens designation SAE “F” or ECE “B” or “F3” ii) more than two, mounted more than 30 cm below headlights, not located on front iii) not white or amber iv) not wired to tail light circuit <ul style="list-style-type: none"> – not operational on park, high or low frontal headlight beam
a2) rear fog lamps (if equipped) <ul style="list-style-type: none"> i) lens type ii) number and location iii) colour iv) operation v) indicator 	<ul style="list-style-type: none"> i) not lens designation SAE “F2” or ECE “F” or “B” ii) more than two, mounted less than 10 cm from rear stop lamp, not located on rear iii) not red iv) not operational on park, high or low frontal headlight beam v) not equipped with an independent, non-flashing operational tell-tale warning light visible to driver
b) high beam driving lamp <ul style="list-style-type: none"> ii) location 	<ul style="list-style-type: none"> b) the high beam driving lamps fail to meet any of the following requirements: <ul style="list-style-type: none"> – SAE lens designation not “Y” or ECE “R” or “HR” – more than two, not located on front of vehicle – not white in colour – does not illuminate correctly and only when headlamp control is switched to high beam ii) not mounted between 40 cm and 1.06 m

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<p>c) low beam driving lamp</p> <p>i) location</p> <p>d) off-road lamps (if equipped)</p> <p>e) park lamps (where fitted) Tail lamp filament may serve as a park lamp.</p> <p>i) number and location</p> <p>ii) colour</p> <p>iii) operation</p> <p>f) hazard warning lamp (If OEM equipped) NOTE: Can operate same lamps as turn signals.</p>	<p>c) the low beam driving lamps fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – lens SAE designation not “Z” or ECE “C” or “HC” – not located on front of vehicle – not white in colour – does not illuminate correctly and only when headlamp control is switched to low beam <p>i) not mounted between 40 cm and 1.06 m</p> <p>d) not covered with opaque cover</p> <p>i) not four, two are not located on front, two not located on rear as far apart as practicable.</p> <p>ii) front are not white or amber, rear are not red.</p> <p>iii) not clearly visible.</p> <p>f) broken, cracked, inoperative or missing</p> <ul style="list-style-type: none"> – control is broken, inoperative or missing – hazard warning indicator lamp on instrument panel is inoperative – the hazard warning lamps fail to meet any of the following requirements: <ul style="list-style-type: none"> – not two facing the front, not as far apart as practicable, not amber in colour – not two facing the rear, not as far apart as practicable, not amber or red in colour – does not illuminate correctly and flash simultaneously when operated by hazard warning control

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	<p><u>OUT OF SERVICE</u></p> <ul style="list-style-type: none"> i) Not at least one head lamp is operative on a power unit. ii) Not at least one tail lamp is operative on the rear visible from 150 m. iii) Not at least one stop lamp is operative on the vehicle visible from 100 m. iv) Not at least one turn signal lamp is operative on each side at the rear, visible from 150 m. v) Not at least one turn signal lamp is operative on each side at the front, visible from 150 m. vi) Any required lamp is inoperative or obstructed during times when the lamp is required.
4. Reflex Reflector	
<p>NOTE: A lamp's lens may also function as a reflex reflector.</p> <ul style="list-style-type: none"> a) required reflectors <p>NOTE: See (Appendix A) for details on CMVSS 108 requirements for reflex reflector location and colour.</p> <ul style="list-style-type: none"> b) rear reflector c) front and rear side, and intermediate reflex reflector <p>NOTE: Amber intermediate reflectors are required on all vehicles over 9.1 m in length.</p>	<ul style="list-style-type: none"> a) any required reflex reflector, or part of a reflex reflector, is broken, missing, obscured or not clearly visible <ul style="list-style-type: none"> – not labelled to show compliance with CMVSS, DOT or SAE standards b) rear reflectors fail to meet any of the following requirements: <ul style="list-style-type: none"> – not two, not located as far apart as practicable, not red in colour, between 380 and 1530 mm from centre of reflector to the ground c) amber intermediate reflex reflector is missing on a vehicle over 9.1 m in length <p>Front and rear reflex reflectors fail to meet any of the following requirements:</p> <ul style="list-style-type: none"> – not four in total, not located as far apart as practicable, between 380 and 1,530 mm from centre of reflector to the ground – not two at the front, not amber in colour – not two at the rear, not red in colour

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5. Retro-Reflective Marking	Truck ✓ Trailer ✓ Bus ✓
<p>NOTE: Required on all truck-tractors manufactured after November 19, 2001.</p> <p>Required on all trailers manufactured after December 1, 1993. Trailers with a width of 2.05 m or more, and GVWR of 4,536 kg or more, regardless of manufacture date.</p> <p>See (Appendix A) for details on CMVSS 108 requirements for retro-reflective markings.</p> <ul style="list-style-type: none"> a) presence b) type/markings <ul style="list-style-type: none"> i) rear lower and side body marking c) condition d) location and type e) location of retro-reflective material voluntarily applied to straight truck <p>NOTE: Having the retro-reflective material too close to a lamp makes it more difficult to see the lamp.</p>	<ul style="list-style-type: none"> a) any required section is missing b) consisting of anything other than alternating red and white retro-reflective sheeting <ul style="list-style-type: none"> i) not white, yellow or alternating white and yellow sheeting <ul style="list-style-type: none"> – not marked DOT – C , DOT- C2 (50 mm wide), DOT-C3 (75 mm wide) or DOT-C4 (100 mm wide) c) peeling off or reflective properties are compromised on an area exceeding 77 cm² (12 in.²) of the entire surface of the required reflective material <p>NOTE: On 50 mm wide material, this means a total length of 15 cm having some loss of reflective property.</p> <ul style="list-style-type: none"> d) retro-reflective markings fail to meet the requirements of CMVSS 108 as shown on (APPENDIX A) e) red coloured retro-reflective marking is located closer than 75 mm to the edge of the lens of any amber lamp <ul style="list-style-type: none"> – white coloured retro-reflective marking is located closer than 75 mm to the edge of the lens of any lamp
	<p><u>OUT OF SERVICE</u></p> <ul style="list-style-type: none"> i) More than 50% of retro-reflective material of any required section is compromised or missing.

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6. Instrument Panel Lamp	Truck ✓ Trailer Bus ✓
a) operation NOTE: Inspect according to OEM vehicle design. Minor loss of illumination of some parts of the instrument panel is not cause for rejecting a vehicle. Illumination is required on the speedometer, and the vehicle operating status gauges required by this standard, and originally illuminated by the OEM.	a) inoperative or no illumination is provided on required instrument, gauge or warning device provided by OEM
7. Headlamp Aim	Truck ✓ Trailer Bus ✓
Ensure that the aiming device is calibrated according to the manufacturer's instructions. a) aim b) adjusters	a) not within manufacturer's specifications for vehicle type b) missing, broken, inoperative, mounted insecurely
	<u>OUT OF SERVICE</u> i) Aiming of headlamp is so severely out of alignment that it is likely to impair the vision of the driver or other motorists.
8. Interior Lamps on a Bus	Truck Trailer Bus ✓
NOTE: Inspection must be conducted according to the requirements of the relevant jurisdiction and applicable CSA D250, D409, D435 and D436. Standard. Inspector must be familiar with the applicable requirements. Additional Inspection Procedure(s): Activate interior lamps, then operate each entrance door. Emergency exit doors are excluded. a) step well lamp	a) not white in colour, inoperative or missing <ul style="list-style-type: none"> – fails to illuminate step well area – stays on when door is closed

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b) aisle and overhead lamps (if OEM equipped) <ul style="list-style-type: none"> – required on Passenger Transportation Branch licenced vehicles. 	b) more than 10% of the lamps on any lamp circuit are inoperative
c) accessible vehicle lighting	c) lamp installed for accessibility device (such as a ramp or lift) is inoperative or missing
9. School Bus Additional Lamps <div>Truck Trailer Bus ✓ </div>	
<p>NOTE: Applies to school bus only. Inspection must be conducted according to the requirements of the relevant jurisdiction and applicable CSA D250</p> <p>Standard. Inspector must be familiar with the applicable requirements.</p> <p>a) alternating warning lamps</p> <p>Additional Inspection Procedure(s): Activate warning system in pre-stop phase (stop arm not deployed) and then with warning system in full stop phase (stop arm deployed). “LED” = light emitting diode</p> <p>b) strobe lamp (if equipped)</p> <p>c) service door exterior lamp</p> <p>Additional Inspection Procedure(s): Open and close service door as required to test operation of exit lamp.</p>	<p>a) not equipped, or do not operate as required by the relevant jurisdiction and applicable CSA D250 Standard</p> <ul style="list-style-type: none"> – one or more diode(s) of LED lamp fail(s) to illuminate – alternating warning lamp indicator on instrument panel or switch is inoperative or missing <p>b) inoperative where required by jurisdiction</p> <ul style="list-style-type: none"> – strobe lamp indicator on instrument panel or switch is inoperative or missing <p>c) not equipped, or does not operate as required by the relevant jurisdiction and applicable CSA D250 Standard</p>
	<p><u>OUT OF SERVICE</u></p> <p>i) On a school bus, alternating overhead warning lamps are inoperative or obstructed.</p>

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10. School Bus Reflective Tape Truck Trailer Bus ✓ 	
<p>School buses manufactured on or after March 31, 1998 must be fitted with conspicuity markings as per CSA D250.</p> <p>a) rear</p>	<p>a) Two horizontal strips from left to right corners: one strip above the rear window and door, the other strip above the rear bumper.</p> <ul style="list-style-type: none"> – Two vertical strips, one at the left corner and one at the right corner, connecting the horizontal strips.
<p>b) sides</p>	<p>b) two horizontal strips extending the length of the bus body: one strip above the windows, and the other between the floor line and belt line</p> <ul style="list-style-type: none"> – two vertical strips, one at the left corner and one at the right corner, connecting the horizontal strips – the longitudinal length of the material shall cover and be visible on a minimum of 90% of the actual bus passenger compartment”

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