

TRUCKS, BUSES, MPVs: FEDERAL LIGHTING EQUIPMENT LOCATION REQUIREMENTS

IMPORTANT NOTE: Every lamp, reflex reflector, and conspicuity treatment (device) must be permanently attached in the location specified below and must comply with all applicable requirements prescribed for it by FMVSS/CMVSS 108. The face of any device on the front/rear and sides should be, respectively perpendicular and parallel to vehicle centerline, unless it is photometrically certified at installation angle. No part of the vehicle shall prevent any device from meeting its prescribed requirements unless an auxiliary device meeting all prescribed requirements is installed.

In Canada: Manufacturers and importers of vehicles must have the proper certification test records demonstrating compliance of lighting components with all prescribed requirements.

BASIC EQUIPMENT REQUIRED ON ALL TRUCKS, BUSES & MPVs

DESCRIPTION				MANDATORY REQUIREMENTS			
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height mm (in.) from the ground
1	Headlamps - Lower Beam	(H, HR) Attention: US: "DOT" lettering required on lens Attention: US & Canada: light source code required on lens	Forward road illumination	Minimum 2	White	On the front - symmetrical - as far apart as practicable (If 4 lamp system - outboard or above upper beams)	560-1370 (22-54)
	Headlamps - Upper Beam	(H, HR) Attention: US: "DOT" lettering required on lens Attention: US & Canada: light	Forward road illumination	Minimum 2	White	On the front - symmetrical (If 4 lamp system - inboard or	560-1370 (22-54)

		source code required on lens				below lower beams)	
	Parking Lamps- Attention: Required only on vehicles less than 2032mm wide	(P)	Indicate parked vehicle	Minimum 2	White or Yellow	Front - symmetrical - as far apart as practicable	380-1530 (15-60)
	Daytime Running Lamps - Attention: for Canada required, for US optional.	(Y2) Attention: for US, "DRL" lettering required on lens if device is not headlamp	Indicate in-use vehicle	Minimum 2	White or Yellow	Front - symmetrical - as far apart as practicable	380 (15) minimum Maximum depends on type of DRL
	Front Turn Signal/Hazard Warning Lamps	(I)	Indicate direction of turn / identify disabled vehicle	Minimum 2	Yellow	Front - symmetrical - as far apart as practicable	380-2110 (15-83)
2	Front Clearance Lamps- Attention: Required for vehicles 2032mm wide or wider	(P2, PC* or P3*,PC2) <i>*photometrically certified at installation angle</i>	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - on the front or near the front - facing forward	As high as practicable
3	Front Identification Lamps (ID)	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Yellow	on the front - center - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	As high as practicable or on top of cab
4a	Front Side Marker Lamps	(P2, PC* or P3 ,PC2*) <i>*photometrically</i>		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum

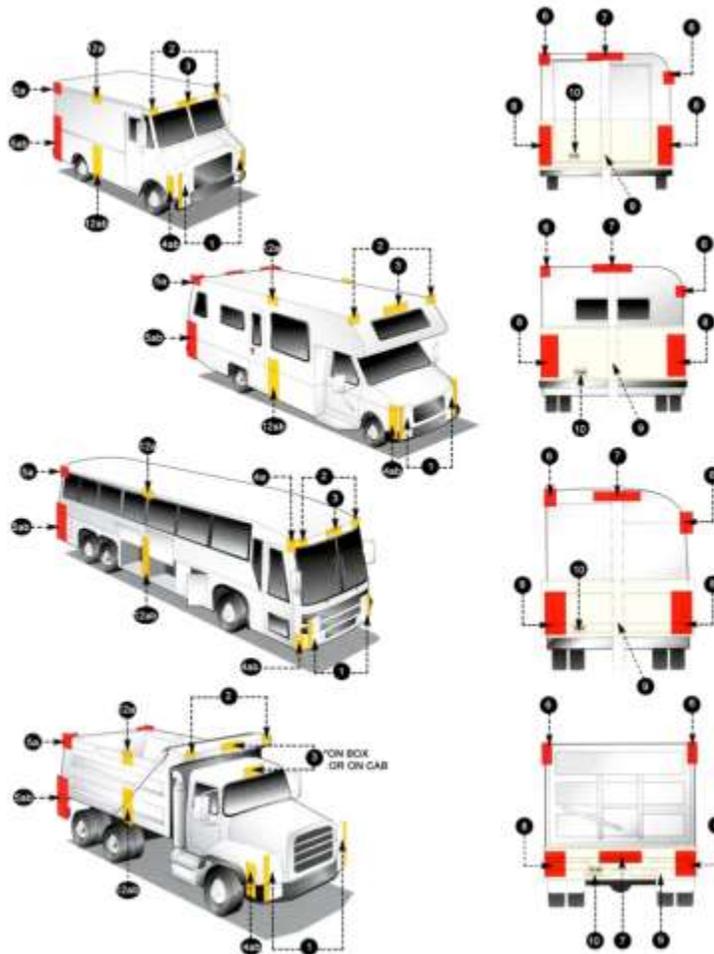
		<i>certified at installation angle</i>					
4b	Front Side Reflex Reflectors	(A)	Front and Rear side marker lamps / side	Minimum 2	Yellow	At front - symmetrical - as far forward as practicable - facing sideward	380-1530 (15-60)
5a	Rear Side Marker Lamps**	(P2, PC* or P3, PC2*) <i>*photometrically certified at installation angle</i>	reflex reflector indicate vehicle's presence and length	Minimum 2	Red	Each side at rear - as far back as practicable	380 (15) minimum
5b	Rear Side Reflex Reflectors** <i>** not required on Truck Tractors</i>	(A)		Minimum 2	Red	Each side at rear - as far back as practicable - facing sideward	380-1530 (15-60)
6	Rear Clearance Lamps Attention: Required for vehicles 2032mm wide or wider, but not required on Truck Tractors	(P2, PC* or P3, PC2*) <i>*photometrically certified at installation angle</i>	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2	Red	At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable- may be lower only if rear ID lamps are at the top
7	Rear Identification Lamps (ID) Attention: Required for vehicles 2032mm wide or wider, but not required on Truck Tractors	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Red	Rear - center - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart, facing rearward	<i>in Canada :</i> at the top - maybe lower if door header narrower than 25mm <i>in USA:</i> as high as practicable

8	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable	380-1830 (15-72)
	Stop Lamps	(S)	Indicate braking	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable	380-1830 (15-72)
	Rear Turn Signal/Hazard Warning Lamps	(I)	Indicate direction of turn/ identifies disabled veh.	Minimum 2	Red or Yellow	On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)
	Rear Reflex Reflectors	(A)	Show vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable - facing rearward	380-1530 (15-60)
9	Backup Lamp	(R)	Illuminate ground behind the vehicle and alert road users	Minimum 1	White	Rear	No requirement
10	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement
11	Center High Mounted Stop Lamp Attention: Required for vehicles less than 2032mm wide and 4536kg	(U3)	Indicates braking	Minimum 1	Red	On the rear - centerline of the vehicle	860 (34) minimum

ADDITIONAL EQUIPMENT FOR SPECIFIC VEHICLES

VEHICLES 9.1 m (30 ft.) LONG OR LONGER

DESCRIPTION				MANDATORY REQUIREMENTS			
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height mm (in.) from the ground
12a	Intermediate Side Marker Lamps	(P2 or PC)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center	380 (15) minimum
12b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)



TRACTORS

DESCRIPTION		MANDATORY REQUIREMENTS					
Area	Conspicuity Treatment	DOT Code	Quantity	Color	Location	Height	Options
13	Rear Upper Body Marking	DOT-C, DOT-C2, DOT-C3, or DOT-C4	Exactly 2 pairs of 300mm long strips	White	Rear upper corners of cab - facing rearward	As high as practicable excluding fairings	
14	Rear Marking	DOT-C, DOT-C2, DOT-C3, or DOT-C4	Exactly 2 sections of min. 600mm each	Red/White	Rear - facing rearward - on fenders, on mud flaps brackets, or within 300mm below of the top of mud flaps	As horizontal as practicable and not higher than 1525 mm from the ground	If mud flaps not used - on the cab or frame mounted brackets

TRAILERS: FEDERAL LIGHTING EQUIPMENT LOCATION REQUIREMENTS

