

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.

	DE	ESCRIPTION				MANDATORY REQUIREM	MENTS
rea	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 source code required on lens	Forward road illumination	Minimum 2	White	On the front - symmetrical (If 4 lamp system - inboard or below lower beams)	560-1370 (22-54)
	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	(1)	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) *photometrically certified at installation angle	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 cab
4a	Front Side Marker Lamps	(P2, PC* or P3 ,PC2*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
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*) *photometrically certified at installation angle	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 ** ** not required on Truck Tractors	(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*) *photometrically certified at installation angle	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 loo only if rear ID lamps are at the t
7	Rear I dentification 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	in Canada: at the top - maybe lower if door header narrower tha 25mm in USA: as high as practicable
8	Tail Lamps	(Т)	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	(1)	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
О	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	(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

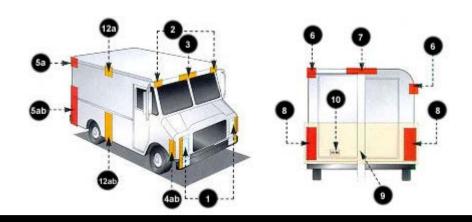
2032mm wide and 4536kg

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	DE	SCRIPTION	MANDATORY REQUIREMENTS										
Α	Area Equipment	(SAE Lens Coding)	Functional Purpose	Quant ty	Color	Location	Height mm (in.) from the ground						
1	12a Intermediate Side Marker Lamps	(P2 or PC)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center	380 (15) minimum						
1	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)						

TRUCK TRACTORS

DES	SCRIPTION		MANDATORY REQUIREMENTS								
Area	rea Conspicuity DOT Code Quantity Color Treatment		Color	Locat on	Height	Options					
13		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			Exactly 2 sections of min. 600mm each			· ·	If mud flaps not used - on the cab or frame mounted brackets				





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	Headlamps - Upper 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 (If 4 lamp system - inboard or below lower beams)	560-1370 (22-54)
	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	(1)	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) *photometrically certified at installation angle	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 cab
4a	Front Side Marker Lamps	(P2, PC* or P3 ,PC2*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
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*) *photometrically certified at installation angle	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 ** ** not required on Truck Tractors	(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*) *photometrically certified at installation angle	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 loo only if rear ID lamps are at the t
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8	Tail Lamps	(Т)	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	(1)	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
О	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	(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

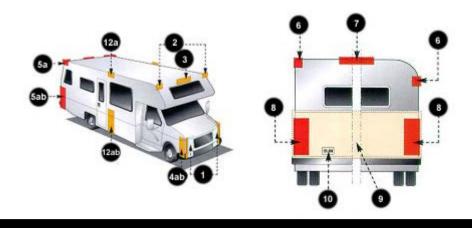
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TRUCK TRACTORS

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Area	rea Conspicuity DOT Code Quantity Color Treatment		Color	Locat on	Height	Options					
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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*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
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5a	Rear Side Marker Lamps **	(P2, PC* or P3, PC2*) *photometrically certified at installation angle	reflex reflector indicate vehicle's presence and length	Minimum 2	Red	Each side at rear - as far back as practicable	380 (15) minimum
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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

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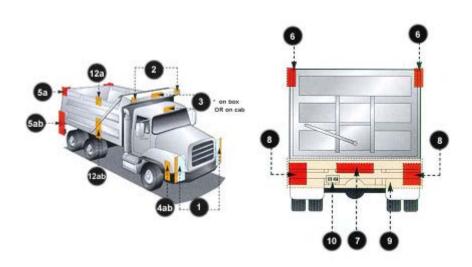
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TRUCK TRACTORS

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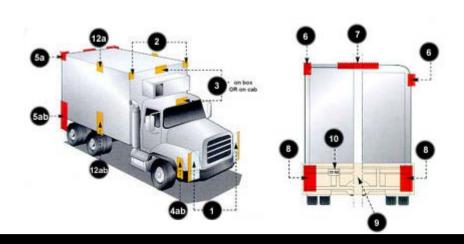
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14		DOT-C, DOT-C2, DOT-C3, or DOT-C4	Exactly 2 sections of min. 600mm each	Red/White	Rear - facing rearward - on fenders, on mud flaps brackets, or within 300mm below of the top of mud flaps	As horizontal as practicable and not higher than 1525 mm from the ground	If mud flaps not used - on the cab or frame mounted brackets			

This table summarizes lighting equipment requirements contained in Federal/Canada Motor Vehicle Safety Standard 108. For complete compliance requirements consult *Title 49* - Code of Federal Regulations, Section 571.108. (USA) and *Section 108 of the Motor Vehicle Safety Regulations* (Canada).





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ea	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 source code required on lens	Forward road illumination	Minimum 2	White	On the front - symmetrical (If 4 lamp system - inboard or below lower beams)	560-1370 (22-54)
	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. 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	(1)	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) * photometrically certified at installation angle	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 to cab
а	Front Side Marker Lamps	(P2, PC* or P3 ,PC2*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
b	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)
а	Rear Side Marker Lamps **	(P2, PC* or P3, PC2*) *photometrically certified at installation angle	reflex reflector indicate vehicle's presence and length	Minimum 2	Red	Each side at rear - as far back as practicable	380 (15) minimum
b	Rear Side Reflex Reflectors ** ** not required on Truck Tractors	(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*) *photometrically certified at installation angle	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 I only if rear ID lamps are at the
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	in Canada: at the top - maybe lower if door header narrower the 25mm In USA: as high as practicable
8	Tail Lamps	(Т)	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	(1)	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
0	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement
1	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

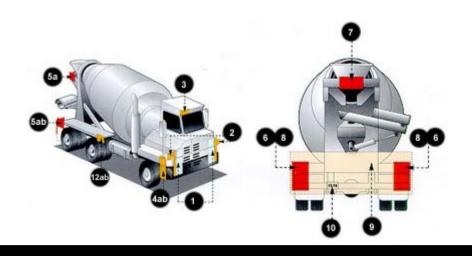
VEHICLES 9.1 m (30 ft.) LONG OR LONGER

	DES	SCRIPTION	MANDATORY REQUIREMENTS				
Area	Area Equipment (SAE Lens Coding) Functional Purpose				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)

TRUCK TRACTORS

DES	CRIPTION	MANDATORY REQUIREMENTS								
Area	Conspicuity Treatment			Locat on	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			





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.

BASI	C EQUIPMENT REQUIRED ON ALL T	RUCKS, BUSES & MPVs					
	DE	ESCRIPTION				MANDATORY REQUIREM	MENTS
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 source code required on lens	Forward road illumination	Minimum 2	White	On the front - symmetrical (If 4 lamp system - inboard or below lower beams)	560-1370 (22-54)
	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	(1)	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) *photometrically certified at installation angle	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*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
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*) *photometrically certified at installation angle	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 ** ** not required on Truck Tractors	(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*) *photometrically certified at installation angle	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	in Canada: at the top - maybe lower if door header narrower than 25mm in USA: 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	(1)	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

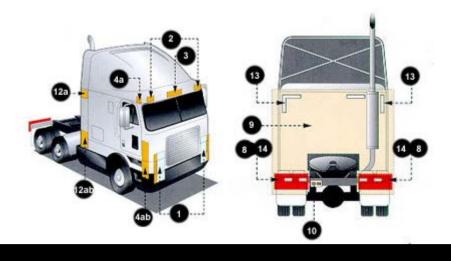
VEHICLES 9.1 m (30 ft.) LONG OR LONGER

	DES	SCRIPTION	MANDATORY REQUIREMENTS				
Area	Equipment	Functional Purpose	Quant ty	Color	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)

TRUCK TRACTORS

DES	SCRIPTION		MANDATORY REQUIREMENTS								
Area	Conspicuity Treatment	DOT Code	Quantity	Color	Locat on	Height	Options				
13		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		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				





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.

BASI	C EQUIPMENT REQUIRED ON ALL T	RUCKS, BUSES & MPVs					
	DE	ESCRIPTION			MANDATORY REQUIREM	MENTS	
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 source code required on lens	Forward road illumination	Minimum 2	White	On the front - symmetrical (If 4 lamp system - inboard or below lower beams)	560-1370 (22-54)
	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	(1)	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) * photometrically certified at installation angle	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	t Side Marker Lamps (P2, PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
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*) *photometrically certified at installation angle	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 ** ** not required on Truck Tractors	(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*) *photometrically certified at installation angle	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	in Canada: at the top - maybe lower if door header narrower than 25mm in USA: as high as practicable
8	Tail Lamps	(Т)	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	(1)	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

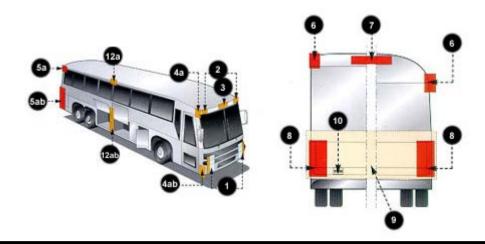
VEHICLES 9.1 m (30 ft.) LONG OR LONGER

	DES	SCRIPTION	MANDATORY REQUIREMENTS				
Area	Area Equipment (SAE Lens Coding) Functional Purpose				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)	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)	

TRUCK TRACTORS

DES	CRIPTION	RIPTION MANDATORY REQUIREMENTS							
Area	Conspicuity DOT Code Quantity Color Locat on Treatment		Height	Options					
13		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		DOT-C, DOT-C2, DOT-C3, or DOT-C4	Exactly 2 sections of min. 600mm each		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		





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.

	C EQUIPMENT REQUIRED ON ALL T						
	DF	ESCRIPTION				MANDATORY REQUIREM	IENTS
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 source code required on lens	Forward road illumination	Minimum 2	White	On the front - symmetrical (If 4 lamp system - inboard or below lower beams)	560-1370 (22-54)
	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	(1)	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) * photometrically certified at installation angle	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*) *photometrically certified at installation angle		Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum
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*) *photometrically certified at installation angle	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 ** ** not required on Truck Tractors	(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*) *photometrically certified at installation angle	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	in Canada: at the top - maybe lower if door header narrower than 25mm in USA: 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	(1)	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

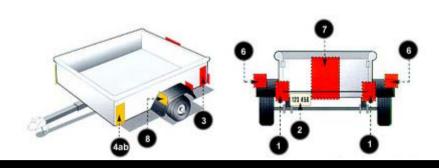
VEHICLES 9.1 m (30 ft.) LONG OR LONGER

	DES	SCRIPTION	MANDATORY REQUIREMENTS				
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quant ty	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)

TRUCK TRACTORS

DES	SCRIPTION		MANDATORY REQUIREMENTS								
Area	Conspicuity Treatment	DOT Code	Quantity	Color	Locat on	Height	Options				
13		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		DOT-C, DOT-C2, Exactly 2 sections of min. 600mm each Red/V		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

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 TRAILERS

		DESC	RIPTION	MANDATORY REQUIREMENTS						
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground			
1	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 Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)			
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2		On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)			
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement			
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide			
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2	Red	Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)			
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum			
4b	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)			

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	SCRIPTION	MANDATORY REQUIREMENTS				
Area	Functional rea Equipment (SAE Lens Coding) Purpose				Color	Location	Height mm (in.) from the ground
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
5b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)

WIDTH 2.032 m (80 in.) OR WIDER

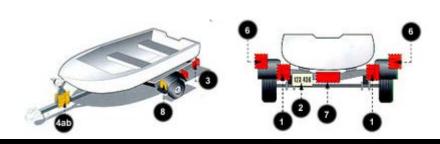
		DESCRIPTION			MANDATORY REQUIREMENTS								
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height						
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top						
7	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	 in Canada: at the top - maybe lower if door header narrower than 25 mm in USA: as high as practicable 						
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable						

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DES	SCRIPTION						
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	Location	Height	OPTIONS
9	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips		On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
10		DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
11	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
12	Side Marking		see location	see	Each side - facing sideward - continuous, or evenly spaced over minimum of 50% of length, starts and ends as close to the front and rear or vehicle as practicable	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, or writte and yellow.

This table summarizes lighting equipment requirements contained in Federal/Canada Motor Vehicle Safety Standard 108. For complete compliance requirements consult *Title 49* - Code of Federal Regulations, Section 571.108. (USA) and *Section 108 of the Motor Vehicle Safety Regulations* (Canada).





TRAILERS: 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 TRAILERS

		DESC	RIPTION		MANDATORY REQUIREMENTS							
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground					
1	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 Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)					
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)					
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement					
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide					
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2		Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)					
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum					
4b	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)					

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	SCRIPTION	MANDATORY REQUIREMENTS				
Area	Functional Area Equipment (SAE Lens Coding) Purpose				Color	Location	Height mm (in.) from the ground
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
5b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)

WIDTH 2.032 m (80 in.) OR WIDER

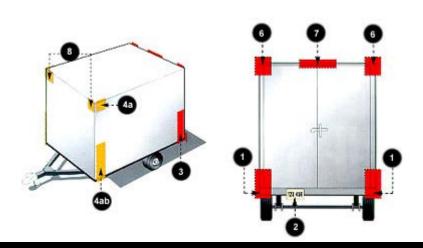
		DESCRIPTION			MANDATORY REQUIREMENTS							
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height					
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top					
7	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	in Canada: at the top - maybe lower if door header narrower than 25 mm in USA: as high as practicable					
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable					

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DE:	SCRIPTION						
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	OPTIONS		
9	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips		On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
10		DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
11	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	practicable to the range of 375 to 1525 mm from	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
12	Side Marking		see location	see	50% of length, starts and ends as close to the front and rear or vehicle as	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid write, solid yellow, or write and yellow.

This table summarizes lighting equipment requirements contained in Federal/Canada Motor Vehicle Safety Standard 108. For complete compliance requirements consult *Title 49* - Code of Federal Regulations, Section 571.108. (USA) and *Section 108 of the Motor Vehicle Safety Regulations* (Canada).





TRAILERS: 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.

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BASIC EQUIPMENT REQUIRED ON ALL TRAILERS

		DESC	RIPTION		MANDATORY REQUIREMENTS							
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground					
1	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 Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)					
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)					
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement					
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide					
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2	Red	Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)					
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum					
4b	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)					

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	ESCRIPTION	MANDATORY REQUIREMENTS				
Area	Equipment	(SAE Lens Coding)	Quantity	Color	Location	Height mm (in.) from the ground	
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
5b	Intermediate Side Reflex Reflectors	(A)	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)	

WIDTH 2.032 m (80 in.) OR WIDER

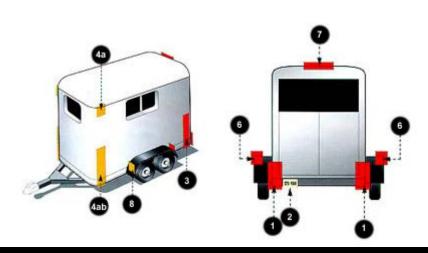
		DESCRIPTION			MANDATORY REQUIREMENTS								
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height						
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top						
7	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	 in Canada: at the top - maybe lower if door header narrower than 25 mm in USA: as high as practicable 						
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable						

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DES	SCRIPTION						
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	Location	Height	OPTIONS
	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips		On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
		DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	practicable to the range of 375 to 1525 mm from	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
12	Side Marking		see location	see	Each side - facing sideward - continuous, or evenly spaced over minimum of 50% of length, starts and ends as close to the front and rear or vehicle as practicable	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, or writte and yellow.

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TRAILERS: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.

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BASIC EQUIPMENT REQUIRED ON ALL TRAILERS

		DESC	CRIPTION		MANDATORY REQUIREMENTS						
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground				
1	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-1830 (15-72)				
	Stop Lamps	(S)	Indicate braking	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-1830 (15-72)				
	Rear Turn Signal Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)				
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2		On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)				
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1		On the rear - above or at the sides of license plate	No requirement				
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide				
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2		Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)				
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length		Yellow	Each side at front - as far forward as practicable	380 (15) minimum				
4b	Front Side Reflex Reflectors	(A)		Minimum 2		Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)				

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	ESCRIPTION	MANDATORY REQUIREMENTS				
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height mm (in.) from the ground
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
5b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)

WIDTH 2.032 m (80 in.) OR WIDER

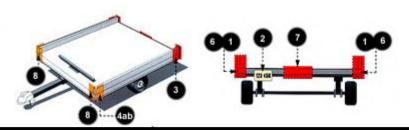
		DESCRIPTION			MANDATORY REQUIREMENTS								
Area Equipment (SAE Lens Coding) Functional Purpose					Color	Location	Height						
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2	Red	At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top						
7	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	in Canada: at the top - maybe lower if door header narrower than 25 mmin USA: as high as practicable						
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable						

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DES	SCRIPTION						
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	OPTIONS		
9	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips		On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
10		DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
11	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
12	Side Marking		see location	see	, , , , , , , , , , , , , , , , , , , ,	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, or writte and yellow.

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TRAILERS: 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.

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BASIC EQUIPMENT REQUIRED ON ALL TRAILERS

		DESC	CRIPTION	MANDATORY REQUIREMENTS						
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground			
1	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 Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)			
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)			
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1		On the rear - above or at the sides of license plate	No requirement			
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide			
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2		Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)			
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum			
4b	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)			

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	ESCRIPTION	MANDATORY REQUIREMENTS				
Area	Area Equipment (SAE Lens Coding) Functional Purpose					Location	Height mm (in.) from the ground
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
5b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)

WIDTH 2.032 m (80 in.) OR WIDER

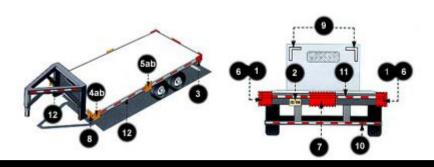
		DESCRIPTION			MANDATORY REQUIREMENTS							
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height					
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top					
7	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	 in Canada: at the top - maybe lower if door header narrower than 25 mm in USA: as high as practicable 					
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable					

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

C	ESCRIPTI	ON						
A	Consp c	.,	DOT oding	Quantity	OPTIONS			
	9 Rear Uppe Marking	Body		Exactly 2 pairs of 300mm long strips	White	On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
•	0 Bumper Ba Marking		T-C T-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
	Rear Lowe Marking		T-C3 T-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	as nonzontal as practicable and as close as	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
•	2 Side Marki	g		see location	see	Each side - facing sideward - continuous, or evenly spaced over minimum of 50% of length, starts and ends as close to the front and rear or vehicle as practicable	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, of writte and yellow.

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TRAILERS: FEDERAL LIGHTING EQUIPMENT LOCATION REQUIREMENTS

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BASIC EQUIPMENT REQUIRED ON ALL TRAILERS

		DESC	CRIPTION	MANDATORY REQUIREMENTS						
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground			
1	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-1830 (15-72)			
	Stop Lamps (S)		Indicate braking	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-1830 (15-72)			
	Rear Turn Signal Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)			
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2		On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)			
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1		On the rear - above or at the sides of license plate	No requirement			
	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red		380-1530 (15-60) no max. for veh. under 2.032m(80") wide			
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2		Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)			
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum			
	Front Side Reflex Reflectors	(A)		Minimum 2		Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)			

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	ESCRIPTION	MANDATORY REQUIREMENTS				
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height mm (in.) from the ground
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
5b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)

WIDTH 2.032 m (80 in.) OR WIDER

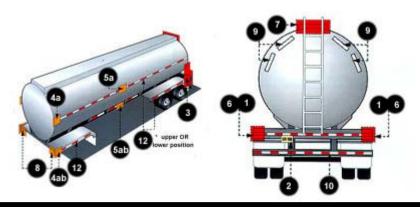
		DESCRIPTION			MANDATORY REQUIREMENTS								
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height						
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top						
	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	in Canada: at the top - maybe lower if door header narrower than 25 mmin USA: as high as practicable						
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2		At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable						

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DES	SCRIPTION						
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	OPTIONS		
9	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips		On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
10		DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
11	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	practicable to the range of 375 to 1525 mm from	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
12	Side Marking		see location	see		As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, or writte and yellow.

This table summarizes lighting equipment requirements contained in Federal/Canada Motor Vehicle Safety Standard 108. For complete compliance requirements consult *Title 49* - Code of Federal Regulations, Section 571.108. (USA) and *Section 108 of the Motor Vehicle Safety Regulations* (Canada).





TRAILERS: 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 TRAILERS

		DESC	RIPTION	MANDATORY REQUIREMENTS					
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground		
1	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 Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)		
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)		
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement		
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide		
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2		Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)		
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum		
4b	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)		

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	DE	SCRIPTION	MANDATORY REQUIREMENTS							
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity Color Location		Height mm (in.) from the ground				
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum			
5b	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380-1530 (15-60)			

WIDTH 2.032 m (80 in.) OR WIDER

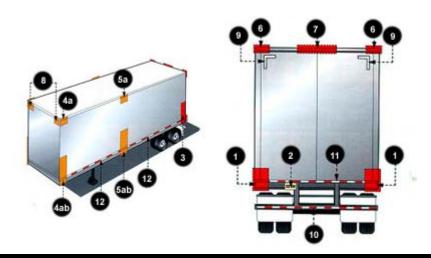
		DESCRIPTION		MANDATORY REQUIREMENTS						
Area	Equipment	(SAE Lens Coding)	Functional Purpose	Quantity	Color	Location	Height			
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top			
7	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	 in Canada: at the top - maybe lower if door header narrower than 25 mm in USA: as high as practicable 			
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable			

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DE	SCRIPTION						
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	OPTIONS		
9	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips	White	On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity
10	•	DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment
11	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	Optional in Canada Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
12	Side Marking		see location	see	Each side - facing sideward - continuous, or evenly spaced over minimum of 50% of length, starts and ends as close to the front and rear or vehicle as practicable	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, of writte and yellow.

This table summarizes lighting equipment requirements contained in Federal/Canada Motor Vehicle Safety Standard 108. For complete compliance requirements consult *Title 49* - Code of Federal Regulations, Section 571.108. (USA) and *Section 108 of the Motor Vehicle Safety Regulations* (Canada).





TRAILERS: 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 TRAILERS

		DESC	RIPTION	MANDATORY REQUIREMENTS					
Area	Equipment	(SAE Lens Coding)	Funct onal Purpose	Quant ty	Color	Location	Height mm (in.) from the ground		
1	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2		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 Lamps	(1)	Indicate direction of turn	Minimum 2		On the rear - symmetrical - as far apart as practicable	380-2110 (15-83)		
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical - as far apart as practicable- facing rearward	380-1530 (15-60)		
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement		
3	Rear Side Marker Lamps	(P2,PC* or P3, PC2*) *photometrically certified at installation angle		Minimum 2	Red	Each side at rear - as far back as practicable	380-1530 (15-60) no max. for veh. under 2.032m(80") wide		
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors indicate	Minimum 2		Each side at rear - as far back as practicable facing sideward	380-1530 (15-60)		
4a	Front Side Marker Lamps	(P2, PC* or P3, PC2*) * photometrically certified at installation angle	vehicle's presence and length	Minimum 2	Yellow	Each side at front - as far forward as practicable	380 (15) minimum		
4b	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front - as far forward as practicable facing sideward	380-1530 (15-60)		

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

LENGTH 9.1 m (30 ft.) OR LONGER

	Di	SCRIPTION			MANDATODY DECLUDEMENTS		
	Di	ESCRIPTION	MANDATORY REQUIREMENTS				
Area	urea Equipment (SAE Lens Codi		Functional Purpose	Quantity Color Lo		Location	Height mm (in.) from the ground
5a	Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center - facing sideward	380 (15) minimum
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WIDTH 2.032 m (80 in.) OR WIDER

		DESCRIPTION		MANDATORY REQUIREMENTS							
Area	Equipment	Equipment (SAE Lens Coding) Functional Purpose			Color	Location	Height				
6	Rear Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width - MAY NOT be combined with tail lamps	Minimum 2		At widest point - symmetrical - on the rear or near the rear - facing rearward	As high as practicable - may be lower only if ID lamps are at the top				
	Rear Identification Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3		On the rear - center, facing rearward - horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	 in Canada: at the top - maybe lower if door header narrower than 25 mm in USA: as high as practicable 				
8	Front Clearance Lamps	(P2, PC*or P3, PC2*) * photometrically certified at installation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical - as far forward as practicable - facing forward	As high as practicable				

WIDTH 2.032 m (80 in.) OR WIDER <u>AND</u> GVWR 4536 kg (10,000 lb.) OR MORE

DES	SCRIPTION							
Area	Consp cu ty Treatment	DOT Coding	Quantity	Color	Location	Height	OPTIONS	
9	Rear Upper Body Marking		Exactly 2 pairs of 300mm long strips	White	On the rear upper corners - facing rearward	At the top	Reflex reflectors may not be required if they are replaced, in their required location, with conspicuity	
10		DOT-C DOT-C2	Continuous	Red/White	On the rear bumper bar's horizontal element - full width - facing rearward	No requirement	treatment	
11	Rear Lower Body Marking	DOT-C3 DOT-C4	Continuous	Red/White see options	On the rear - full width of the vehicle - facing rearward	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	Optional in Canada Rear lower body and side conspicuity treatment m also be solid white, solid yellow, or white and yello	
12	Side Marking		see location	see	Each side - facing sideward - continuous, or evenly spaced over minimum of 50% of length, starts and ends as close to the front and rear or vehicle as practicable	As horizontal as practicable and as close as practicable to the range of 375 to 1525 mm from the ground	also be solid writte, solid yellow, of writte and yellow.	

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LIGHT BEAM PATTERNS FOR FOG, DRIVING & OFF-ROAD LIGHTS . . .



FOG LIGHT

Fog lights (shown in white) provide a low, wide-angle light pattern to increase short-range visibility. Ideal for added safety in fog, sleet or rain. Both am

sleet or rain. Both amber and clear fog lights are suitable. Amber, while not penetrating, is more visible to approaching vehicles.

Standard high-beam head lights shown in yellow

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LIGHT BEAM PATTERNS FOR TRACTOR & IMPLEMENT LIGHTS . . .

