

IMPORTANT PLEASE READ

- All lamps and reflective devices shall be mounted permanently to a permanent part of the vehicle.
- FMVSS 108 references Society of Automotive Engineers (SAE) Standards or recommended practices.
- Individual state requirements are not included.
- All heights measured from ground to center of lamp or reflective device at curb weight.
- Auxiliary lights cannot interfere with required lighting.
- Any lamps in pairs should be symmetrical and located as far apart as practicable.
- No part of the vehicle shall prevent any device from meeting its requirement unless an auxiliary lamp or reflective device meeting the requirement is installed.
- The face of any device installed on the front, rear or side should be respectively perpendicular or parallel to the vehicle's centerline unless it is photometrically certified at the installed angle.
- As long as visibility and photometric requirements are met, any two or more lamps and reflectors can be combined.

EXCEPTIONS:

1. Turn signal lamp and any lamp of greater intensity (turn signal lamp and stop lamp may be combined if stop lamp is deactivated when turn signal lamp is activated.)
2. Clearance lamp and tail lamp.

REQUIRED ON ALL VEHICLES

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	Lamp or Reflective Device	Location	Height (inches)	Color	Number
1	Head Lamp <small>(not required on trailer)</small>	Front ¹	22"-54"	White	2 or 4
2	Tail Lamp	Rear ¹	15"-72"	Red	2 or more
3	Turn Signal Lamp	Front ¹	15"-83"	Amber	2 or more
		Rear ^{1,5} <small>(not required on truck-tractor if front turn signals are double-faced and visible from the rear)</small>	15"-83"	Red or Amber	2 or more
4	Hazard Lamp <small>(same lamp as turn signal)</small>	Front ¹	15"-83"	Amber	2 or more
		Rear ¹	15"-83"	Red or Amber	2 or more
5	Stop Lamp	Rear ^{1,5}	15"-72"	Red	2 or more
6	License Plate Lamp	Rear, at license plate	No requirement	White	1 or more
7	Side Marker Lamp	Side near front	15" min.	Amber	1 each side
		Side near rear <small>(not required on truck-tractor)</small>	15" min. ²	Red	1 each side
8	Backup Lamp <small>(not required on trailer)</small>	Rear	No requirement	White	1 or more
9	Rear Reflector	Rear ¹	15"-60"	Red	2 or more
10	Side Reflector	Side near front	15"-60"	Amber	1 each side
		Side near rear <small>(not required on truck-tractor)</small>	15"-60"	Red	1 each side
11	Intermediate Side Lamp <small>(if vehicle overall length is 30' or greater)</small>	Side near center <small>(side, near the midpoint between front and rear side marker lamps)</small>	15" min.	Amber	1 each side
12	Intermediate Side Reflector <small>(if vehicle overall length is 30' or greater)</small>	Side near center <small>(side, near the midpoint between front and rear side marker lamps)</small>	15"-60"	Amber	1 each side
13	Parking Lamp <small>(only if vehicle is less than 80" wide)</small>	Front <small>(not required on trailer)</small>	15"-72"	Amber or White	2 or more

1. One on each side of vertical centerline, at same height, as far apart as practicable.
2. 60" maximum on rear of trailers of 80" or more in width.
3. Front identification lamps may be mounted either on the cab roof above the windshield or on the top of the body.
4. Clearance lamps may be installed at a location other than on the front or rear if necessary to indicate the overall width of a vehicle or for protection from damage during normal operation of the vehicle; and, at such a location, they need not meet the photometric output at any test point that is 45° inboard.
5. Stop lamps and rear turn signal lamps must have a minimum luminous lens area of 12 sq. in. not including reflex reflector area.

REQUIRED ON ALL VEHICLES 80" OR WIDER					
14	Identification Lamp	Front, spaced 6"-12" on center (not required on trailer)	As high as practical ³	Amber	3
		Rear, spaced 6"-12" on center (not required on truck-tractor)	As high as practical	Red	3
15	Clearance Lamp	Front at widest point to indicate overall width of vehicle ^{1,4}	As high as practical	Amber	2
		Rear, at widest point to indicate overall width of vehicle ¹ (not required on truck-tractor)	As high as practical	Red	2

REQUIRED ON TRUCKS, BUSES AND MULTIPURPOSE PASSENGER VEHICLES LESS THAN 80" IN OVERALL WIDTH & WITH A GVWR OF 10,000 LBS> OR LESS

16	Center High Mounted Stoplamp (CHMSL)	Rear, on the vertical centerline of the vehicle	34" min.	Red	1
<ul style="list-style-type: none"> CHMSL cannot be combined with any other lamp or reflective device other than with a cargo lamp. CHMSL cannot be combined optically with any cargo lamp. 					

REQUIRED ON TRAILERS 80" OR MORE IN OVERALL WIDTH WITH A GVWR OF MORE THAN 10,000 LBS.

17	Conspicuity Systems	On sides and rear of trailer	15" min. 60" max.	Red and White	See Section 5.7 of FMVSS 108
		Rear upper corners of trailer	As high as practical	White	1 each side See Section 5.7 of FMVSS 108
<ul style="list-style-type: none"> Edge of red sheeting cannot be closer than 3" to the edge of any luminous lens area of any amber lamp. Edge of white sheeting cannot be located closer than 3" to the edge of any luminous lens. Trailers equipped with conspicuity systems conforming to Section 5.7 need not be equipped with reflex reflectors required by Table 1 of FMVSS 108. Trailers manufactured before Dec. 1, 1993 must be retrofitted to conform to 49 CFR 393.13. 					

REQUIRED ON TRUCK-TRACTORS

18	Conspicuity Systems	Rear upper corners of cab	As high as practical	White	1 each side See Section 5.7 of FMVSS 108
		Rear, on fenders, mudflap brackets or within 11.8" below top of mudflaps	As horizontal as practical <small>not higher than 60" from the ground</small>	Red and White	1 each side See Section 5.7 of FMVSS 108
<ul style="list-style-type: none"> If the vehicle is certified with temporary mudflap support brackets, the strips shall be mounted on the mudflaps or on plates transferable to permanent mudflap support brackets. For truck-tractors without mudflaps, the strips may be mounted outboard of the frame on brackets behind the rear axle or on brackets ahead of the rear axle and above the top of the tires at unladen vehicle height, or they may be mounted directly or indirectly to the back of the cab as close to the outer edges as practicable, above the top of the tires, and not more than 60" above the road surface at unladen vehicle height. For strips mounted on the back of the cab, no more than 25% of their cumulative area may be obscured by vehicle equipment as determined in a rear orthogonal view. If one strip must be relocated to avoid obscuration by vehicle equipment, the other strip may be relocated in order to be mounted symmetrically. 					

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- Clearance lamps may be installed at a location other than on the front or rear if necessary to indicate the overall width of a vehicle or for protection from damage during normal operation of the vehicle; and, at such a location, they need not meet the photometric output at any test point that is 45° inboard.
- Stop lamps and rear turn signal lamps must have a minimum luminous lens area of 12 sq. in. not including reflex reflector area.