

**IMPORTANT NOTE:** Every lamp, reflex reflector, and conspicuity treatment 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 the vehicle's 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	Quality	Colour	Location	Height mm (in.) from the ground
<b>1</b>	Headlamps – Lower Beam US require "DOT" lettering on lens US & Canada – light source code required on lens	(H, HR)	Forward road illumination	Minimum 2	White	On the front – symmetrical as far apart as practicable If 4 lamp system – outboard or above upper beams	560-1,370 (22-54)
	Headlamps – Upper Beam US require "DOT" lettering on lens US & Canada – light source code required on lens	(H, HR)	Forward road illumination	Minimum 2	White	On the front – symmetrical If 4 lamp system – outboard or above upper beams	560-1,370 (22-54)
	Parking Lamps Vehicles less than 2,032 mm wide	(P)	Indicate parked vehicle	Minimum 2	White or amber	On the front – symmetrical as far apart as practicable	380-1,830 (15-72)
	Daytime Running Lamps (DRL) Vehicles less than 2,032 mm wide	(Y2)	Indicate in use vehicle	Minimum 2	White or amber	On the front – symmetrical as far apart as practicable	380 (15) min. Max. depends on type of DRL
	Front Turn Signal/Hazard Warning Lamps	(I)	Indicate direction of turn/identify disabled vehicle	Minimum 2	Amber	On the front – symmetrical as far apart as practicable	380-2,110 (15-83)
<b>2</b>	Front Clearance Lamps Vehicles 2,032 mm wide or wider *photometrically certified at installation angle	(P2, PC* or P3, PC2*)	Show vehicle's width	Minimum 2	Amber	At widest point – symmetrical on the front or near the front facing forward	As high as practicable
<b>3</b>	Front Identification (ID) Lamps Vehicles 2,032 mm wide or wider	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Amber	On the front – center horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart	As high as practicable or on top of the cab
<b>4</b>	<b>a</b> Front Side Marker Lamps *photometrically certified at installation angle	(P2, PC* or P3, PC2*)	Front and rear side marker lamps/side reflectors indicate vehicles presence and length	Minimum 2	Amber	Each side at front as far apart as practicable	380 (15) minimum
	<b>b</b> Front Side Reflex Reflectors	(A)		Minimum 2	Amber	Each side at front as far apart as practicable facing sideward	380-1,530 (15-60)
<b>5</b>	<b>a</b> Rear Side Marker Lamps** *photometrically certified at installation angle	(P2, PC* or P3, PC2*)		Minimum 2	Red	Each side at rear as far back as practicable	380 (15) minimum
	<b>b</b> Rear Side Reflex Reflectors**	(A)		Minimum 2	Red	Each side at rear as far back as practicable facing sideward	380-1,530 (15-60)
	** not required on Truck Tractors						
<b>6</b>	Rear Clearance Lamps Vehicles 2,032 mm wide or wider Not required on Truck Tractors *photometrically certified at installation angle	(P2, PC* or P3, PC2*)	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
<b>7</b>	Rear Identification (ID) Lamps Vehicles 2,032 mm wide or wider Not required on Truck Tractors	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Red	On the rear – center horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart facing rearward	At the top may be lower if door header narrower than 25 mm
<b>8</b>	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear – symmetrical as far apart as practicable	380-1,830 (15-72)
	Stop Lamps	(S)	Indicate braking	Minimum 2	Red	On the rear – symmetrical as far apart as practicable	380-1,830 (15-72)
	Rear Turn Signal/Hazard Warning Lamps	(I)	Indicate direction of turn/identify disable vehicle	Minimum 2	Red or amber	On the rear – symmetrical as far apart as practicable	380-2,110 (15-83)
	Rear Reflex Reflectors	(A)	Show vehicle's presence and width	Minimum 2	Red	On the rear – symmetrical as far apart as practicable	380-1,530 (15-60)

All inspection procedures are visual unless additional inspection procedures are indicated or where applied force is necessary to verify tightness and/or component security.

## APPENDIX A – Federal Lighting • Section 6 – Lamps

<b>9</b>	Backup Lamp	(R)	Illuminates ground behind the vehicle and alert road users	Minimum 1	White	Rear	No requirement
<b>10</b>	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear – above or at the sides of license plate	No requirement
<b>11</b>	Center High Mounted Stop Lamp Vehicles less than 2,032 mm wide and 4,536 kg	(U3)	Indicates braking	1	Red	On the rear – centerline of the vehicle	860 (34) minimum

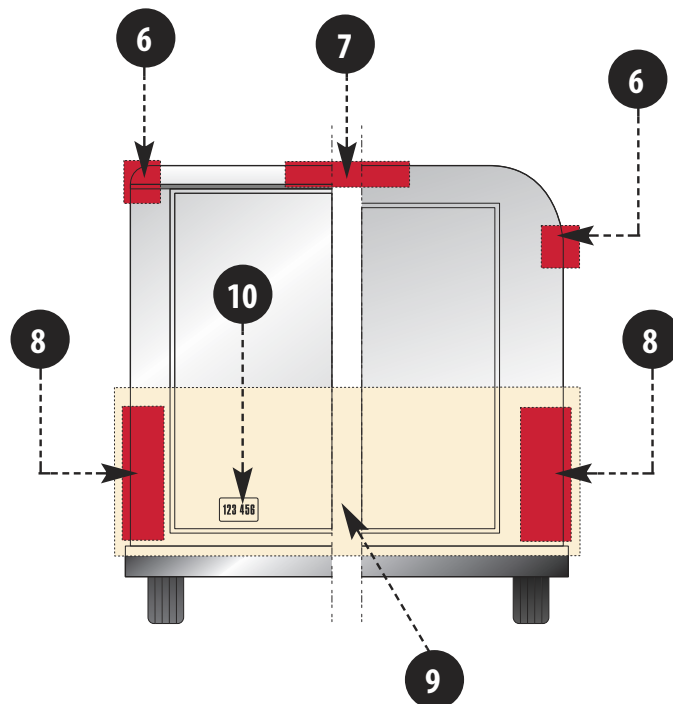
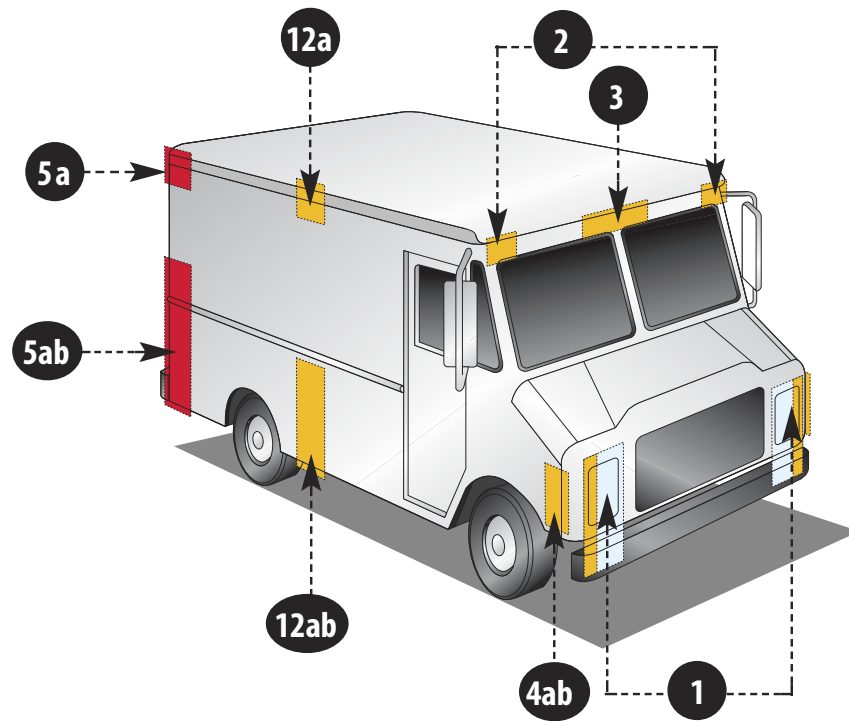
### Truck Tractors

DESCRIPTION		MANDATORY REQUIREMENTS					
Area	Conspicuity Treatment	DOT Coding	Quality	Colour	Location	Height mm (in.) from the ground	Options
<b>13</b>	Rear Upper Body Markings		Exactly 2 pairs of 300 mm long strips	White	Rear upper corners of cab facing rearward	As high as practicable may be lower only if rear ID lamps are at the top	
<b>14</b>	Rear Marking		Exactly 2 sections of min. 600 mm each	Red/ White	Rear – facing rearward – on fenders, on mud flap brackets, or within 300 mm below the top of mud flaps	At the top may be lower if door header narrower than 25 mm	If mud flaps not used – on the cab or frame mounted brackets

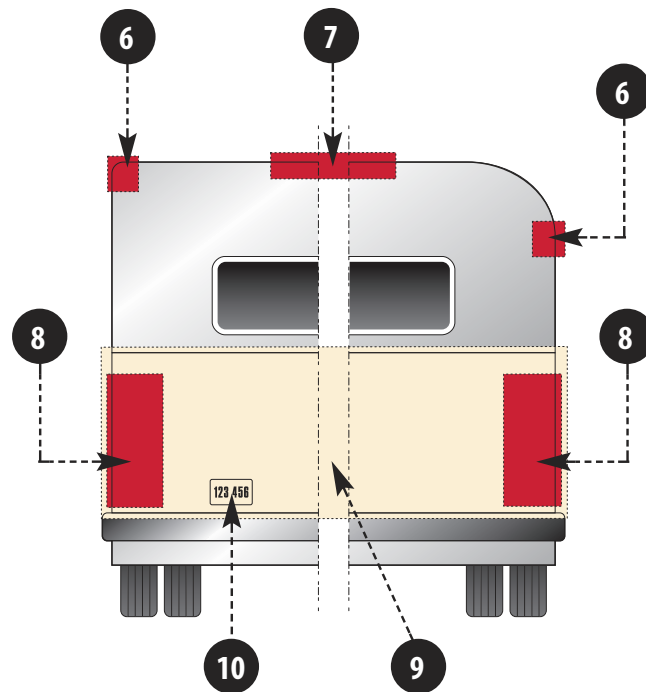
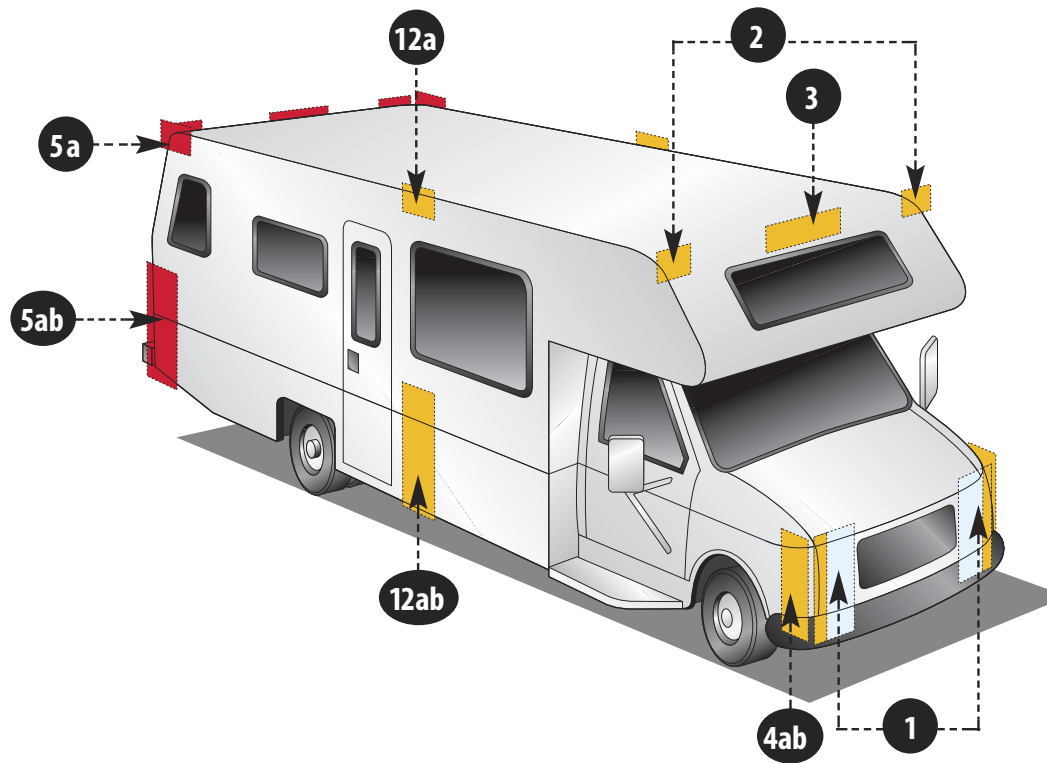
**NOTE:** The edge of red conspicuity tape shall not be closer than 75 mm to the edge of any amber lamp and the edge of white conspicuity tape shall not be closer than 75 mm to the edge of any lamp

For more information contact: National Highway Traffic Safety Administration: Office of Safety Performance Standards      Attention: Richard Van Iderstine      Fax: 202-366-4329  
 Transport Canada: Motor Vehicle Safety Enforcement Branch      Attention: Compliance Engineering      Fax: 613-998-4831

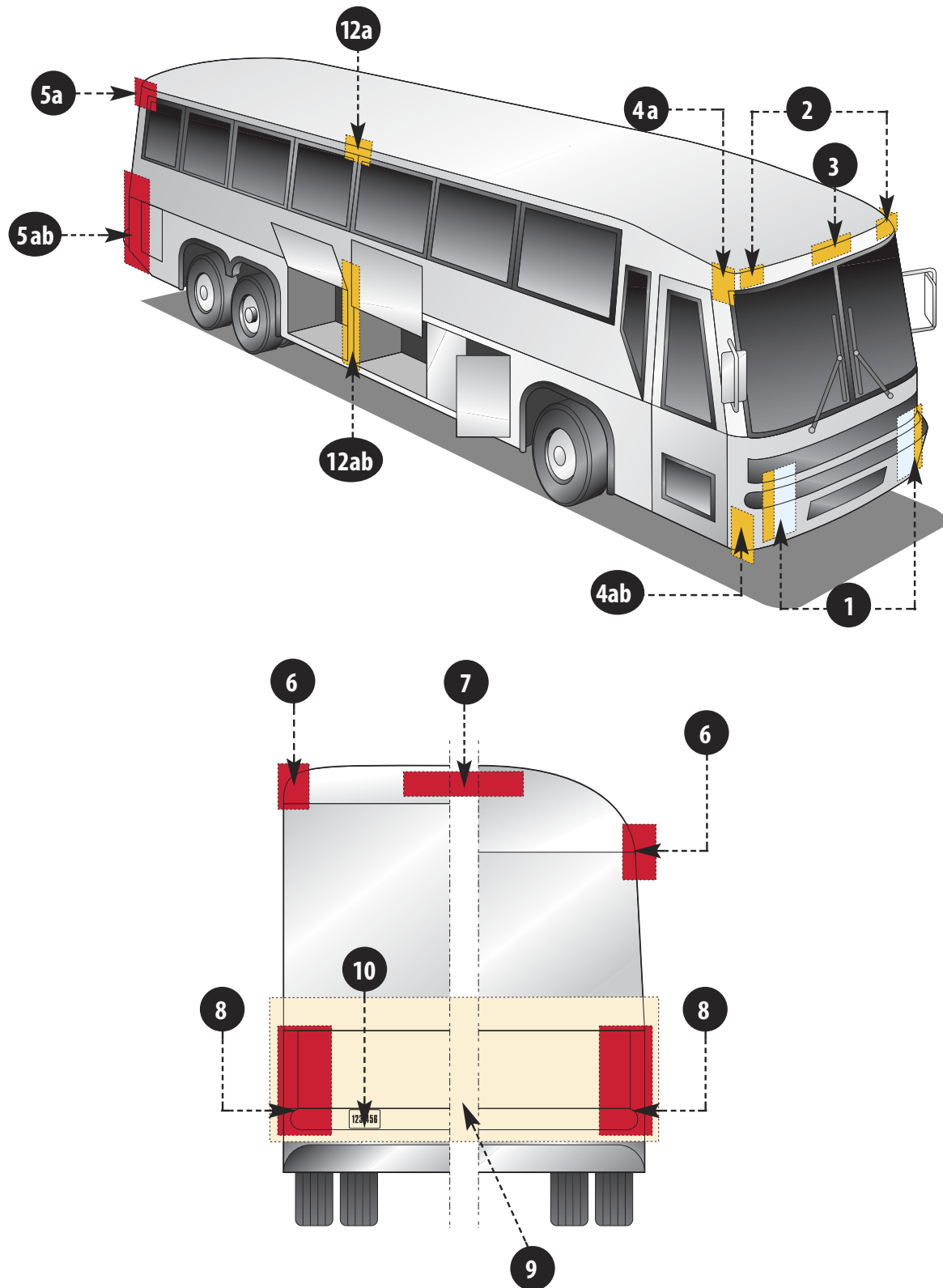
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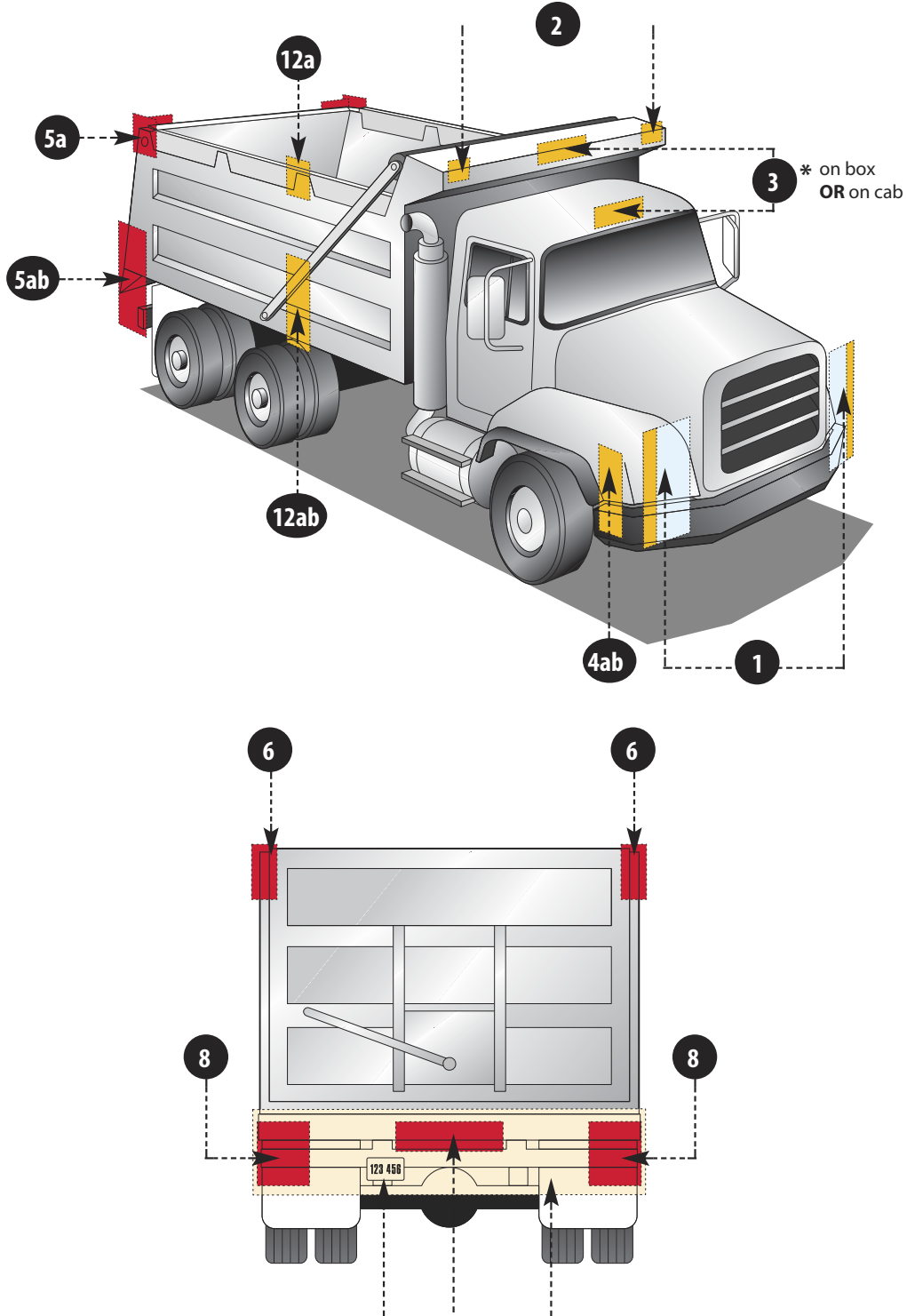
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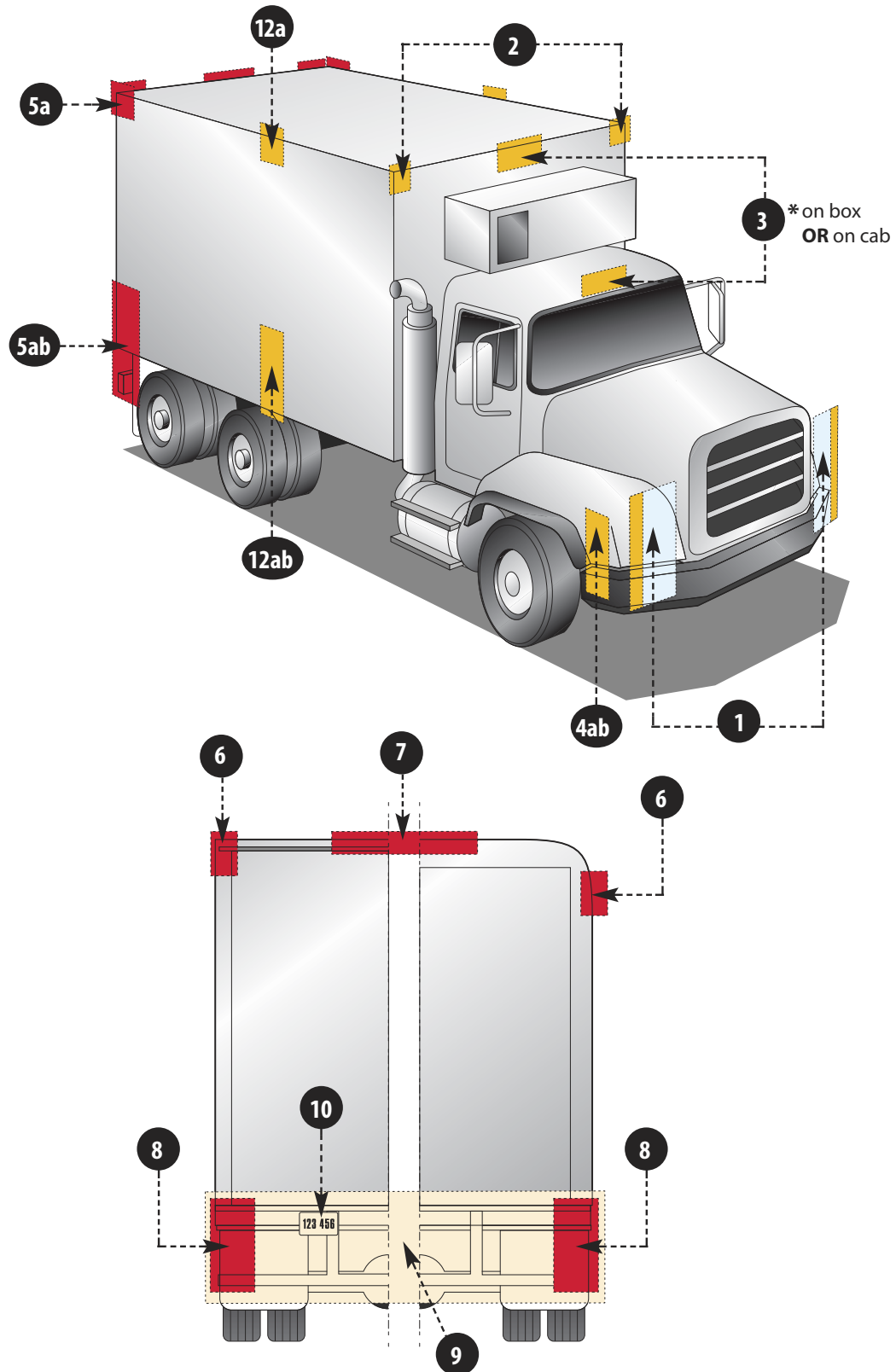
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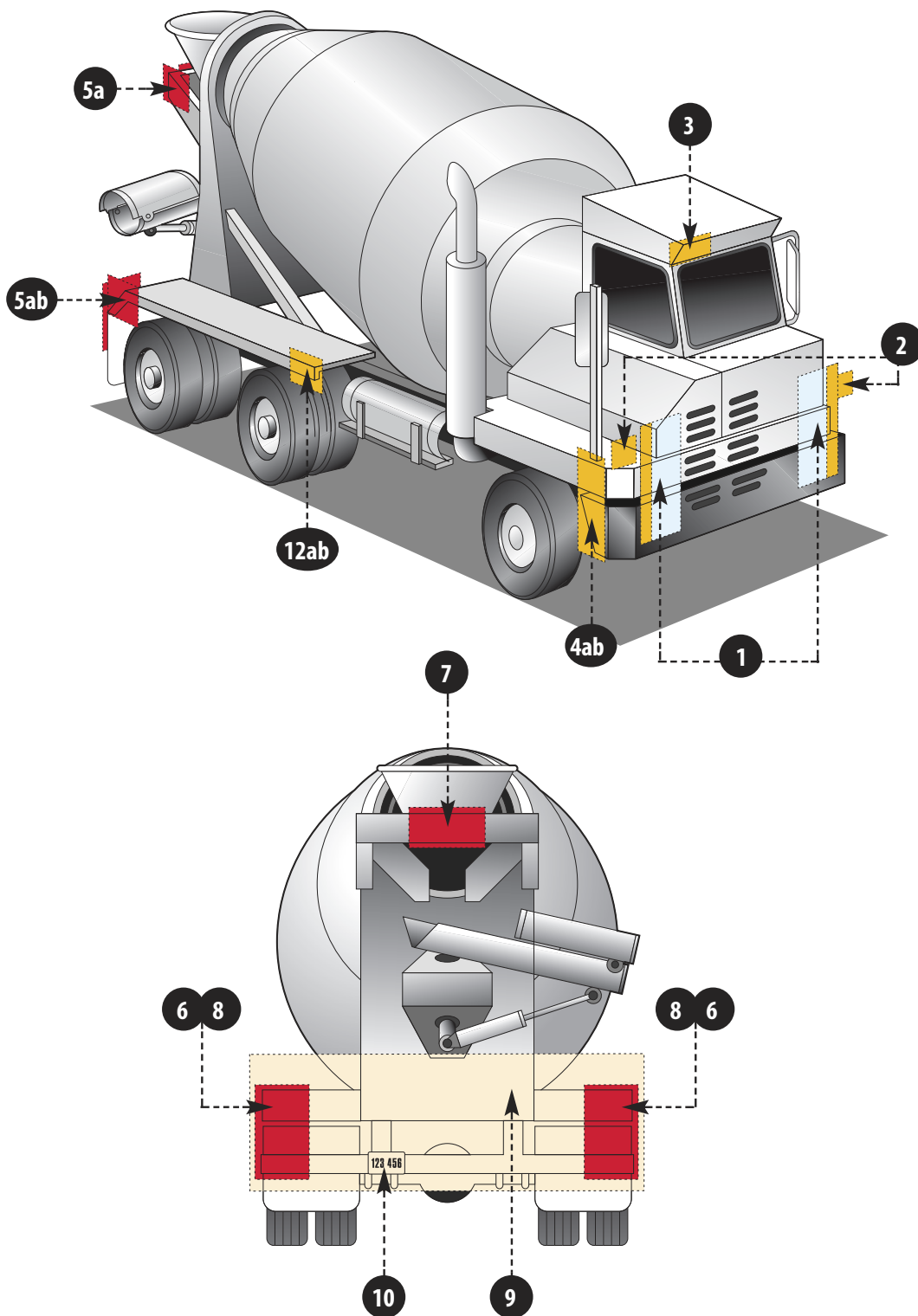
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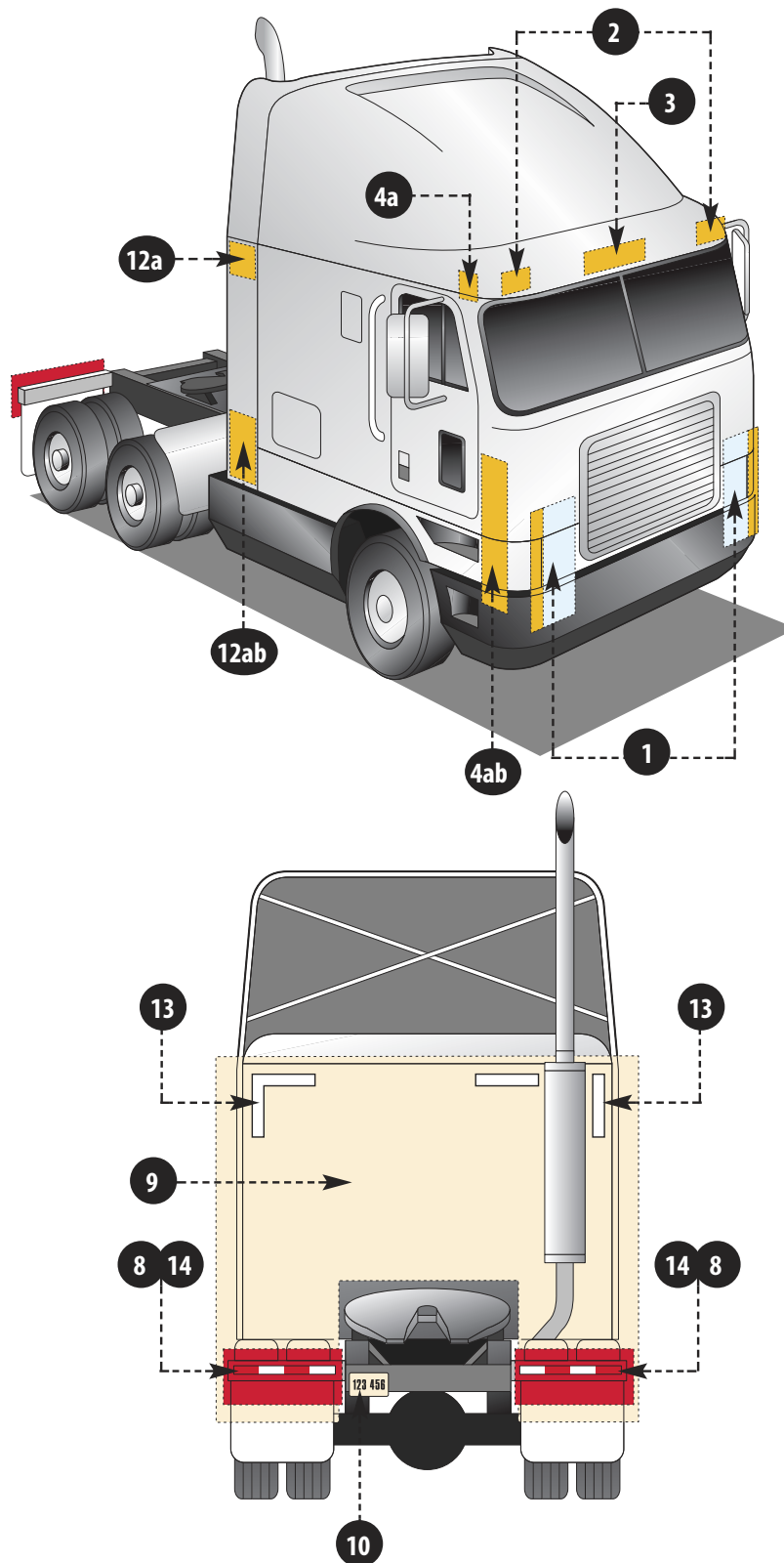


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## APPENDIX A – Federal Lighting • Section 6 – Lamps

**IMPORTANT NOTE:** Every lamp, reflex reflector, and conspicuity treatment 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 the vehicle's 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

DESCRIPTION				MANDATORY REQUIREMENTS			
Area	Equipment	SAE Lens Coding	Functional Purpose	Quality	Colour	Location	Height mm (in.) from the ground
<b>1</b>	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear – symmetrical as far apart as practicable	380-1,830 (15-72)
	Stop Lamps	(S)	Indicate braking	Minimum 2	Red	On the rear – symmetrical as far apart as practicable	380-1,830 (15-72)
	Rear Turn Signal Lamps	(I)	Indicate direction of turn	Minimum 2	Red or amber	On the rear – symmetrical as far apart as practicable	380-2,110 (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	380-1,530 (15-60)
<b>2</b>	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear – above or at the sides of license plate	No requirement
<b>3</b>	Rear Side Marker Lamps <small>*photometrically certified at installation angle</small>	(P2, PC* or P3, PC2*)	Front and rear side marker lamps/side reflex reflectors indicate vehicles presence and length	Minimum 2	Red	Each side at rear as far back as practicable	380-1,530 (15-60) no max. for veh. under 2,032 mm (80") wide
	Rear Side Reflex Reflectors	(A)		Minimum 2	Red	Each side at rear as far back as practicable facing sideward	380-1,530 (15-60)
<b>4</b>	<b>a</b> Front Side Marker Lamps <small>*photometrically certified at installation angle</small>	(P2, PC* or P3, PC2*)	Front and rear side marker lamps/side reflex reflectors indicate vehicles presence and length	Minimum 2	Amber	Each side at front as far apart as practicable	380 (15) minimum
	<b>b</b> Front Side Reflex Reflectors	(A)		Minimum 2	Amber	Each side at front as far apart as practicable facing sideward	380-1,530 (15-60)

### ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS

Vehicles 9.1 m (30 ft.) long or longer

DESCRIPTION				MANDATORY REQUIREMENTS			
Area	Equipment	SAE Lens Coding	Functional Purpose	Quality	Colour	Location	Height mm (in.) from the ground
<b>5</b>	<b>a</b> Intermediate Side Marker Lamps <small>*photometrically certified at installation angle</small>	(P2, P3, PC* or PC2*)	Indicate presence of a long vehicle	Minimum 2	Amber	Each side near center facing sideward	380 (15) minimum
	<b>b</b> Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Amber	Each side near center facing sideward	380-1,530 (15-60)

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Width 2,032 mm (80 in.) or wider

DESCRIPTION			MANDATORY REQUIREMENTS				
Area	Equipment	SAE Lens Coding	Functional Purpose	Quality	Colour	Location	Height mm (in.) from the ground
<b>6</b>	Rear Clearance Lamps *photometrically certified at installation angle	(P2, PC* or P3, PC2*)	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
<b>7</b>	Rear Identification (ID) Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Red	On the rear – center horizontally spaced 150 mm (6 in.) to 300 mm (12 in.) apart facing rearward	At the top – may be lower if door header narrower than 25 mm
<b>8</b>	Front Clearance Lamps *photometrically certified at installation angle	(P2, PC* or P3, PC2*)	Show vehicle's width	Minimum 2	Amber	At widest point – symmetrical on the front or near the front facing forward	As high as practicable

Width 2,032 mm (80 in.) or wider AND GVWR 4,536 kg (10,000 lb.) or more

DESCRIPTION		MANDATORY REQUIREMENTS					
Area	Conspicuity Treatment	DOT Coding	Quality	Colour	Location	Height mm (in.) from the ground	Options
<b>9</b>	Rear Upper Body Markings	<b>DOT-C</b> <b>DOT-C2</b> <b>DOT-C3</b> <b>DOT-C4</b>	Exactly 2 pairs of 300 mm 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 treatment.  <b>Optional in Canada:</b> Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.
<b>10</b>	Bumper Bar Marking		Continuous	Red/ White	On the rear bumper bar's horizontal element full width – facing rearward	No Requirement	
<b>11</b>	Rear Lower Body Markings		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 1,525 mm from the ground	
<b>12</b>	Side Markings		(see locations)	Red/White (see options)	Each side – facing sideward continuous, or evenly spaced over minimum of 50% of length starts and ends as close to the front and rear of the vehicle as practicable	As high as practicable may be lower only if rear ID lamps are at the top	

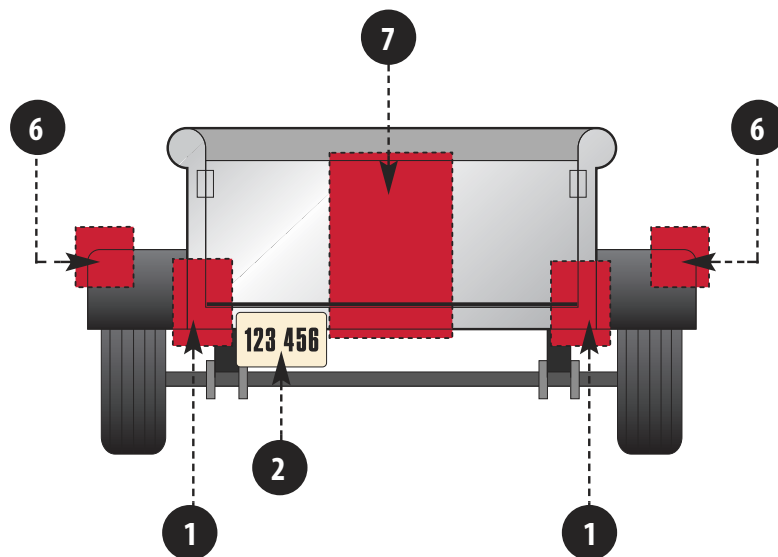
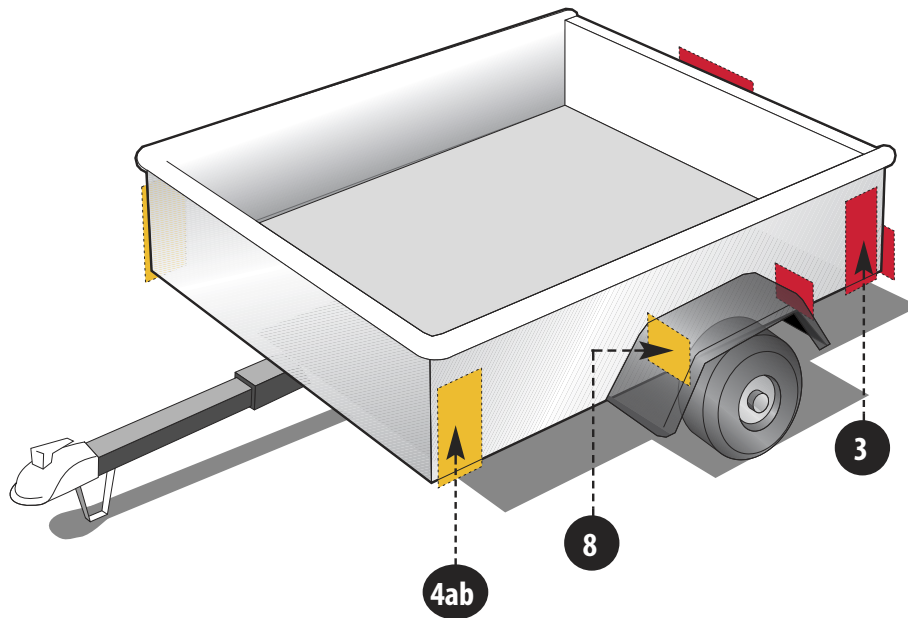
**NOTE:** The edge of red conspicuity tape shall not be closer than 75 mm to the edge of any amber lamp and the edge of white conspicuity tape shall not be closer than 75 mm to the edge of any lamp

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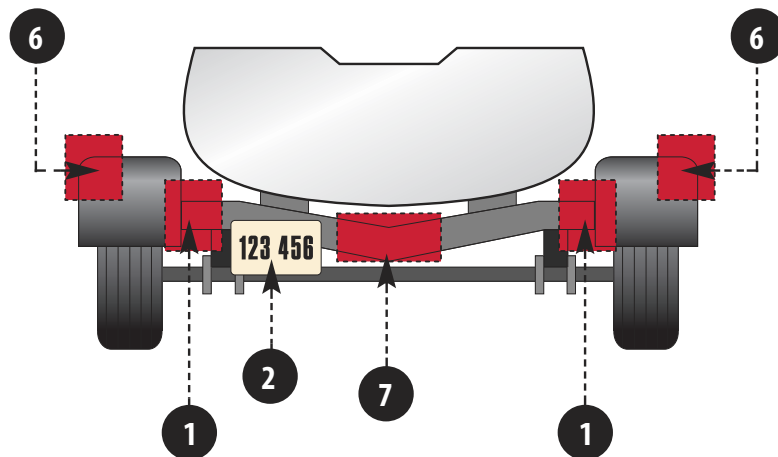
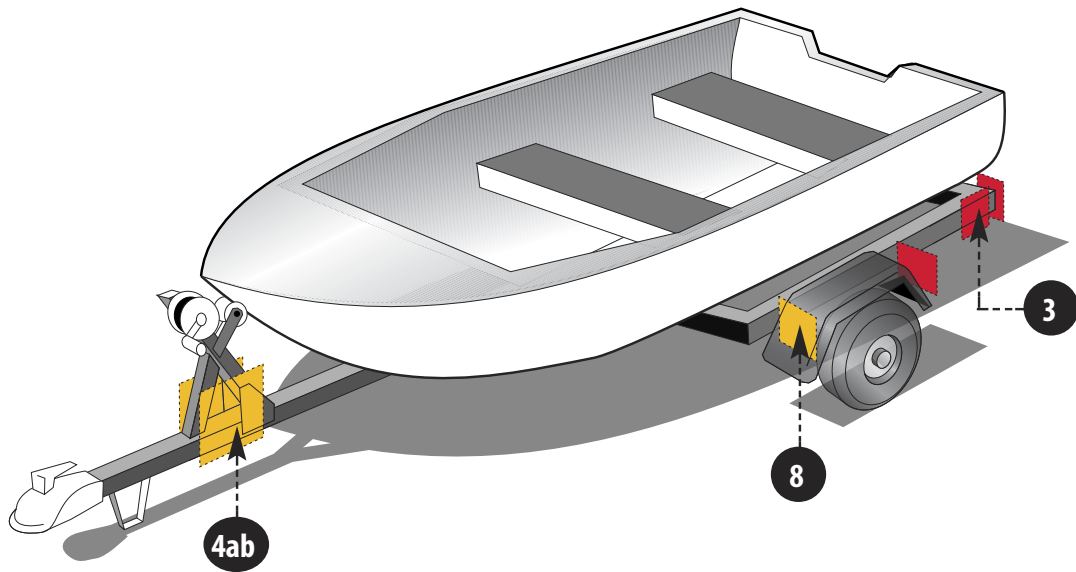
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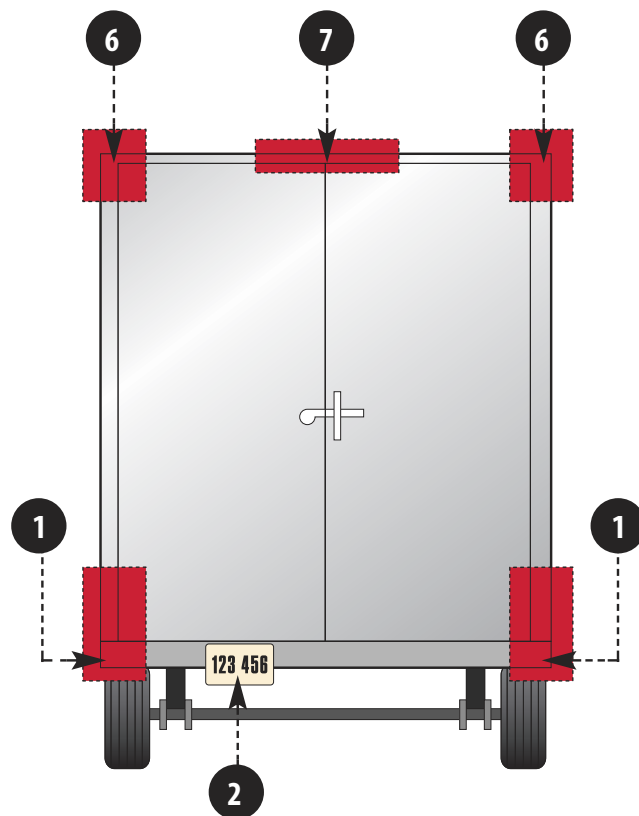
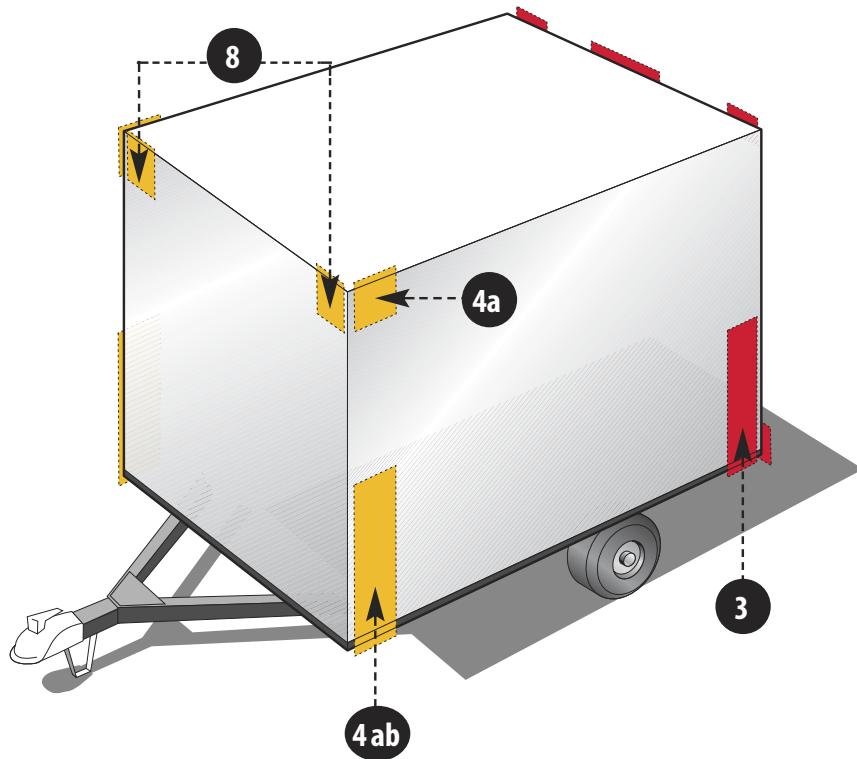
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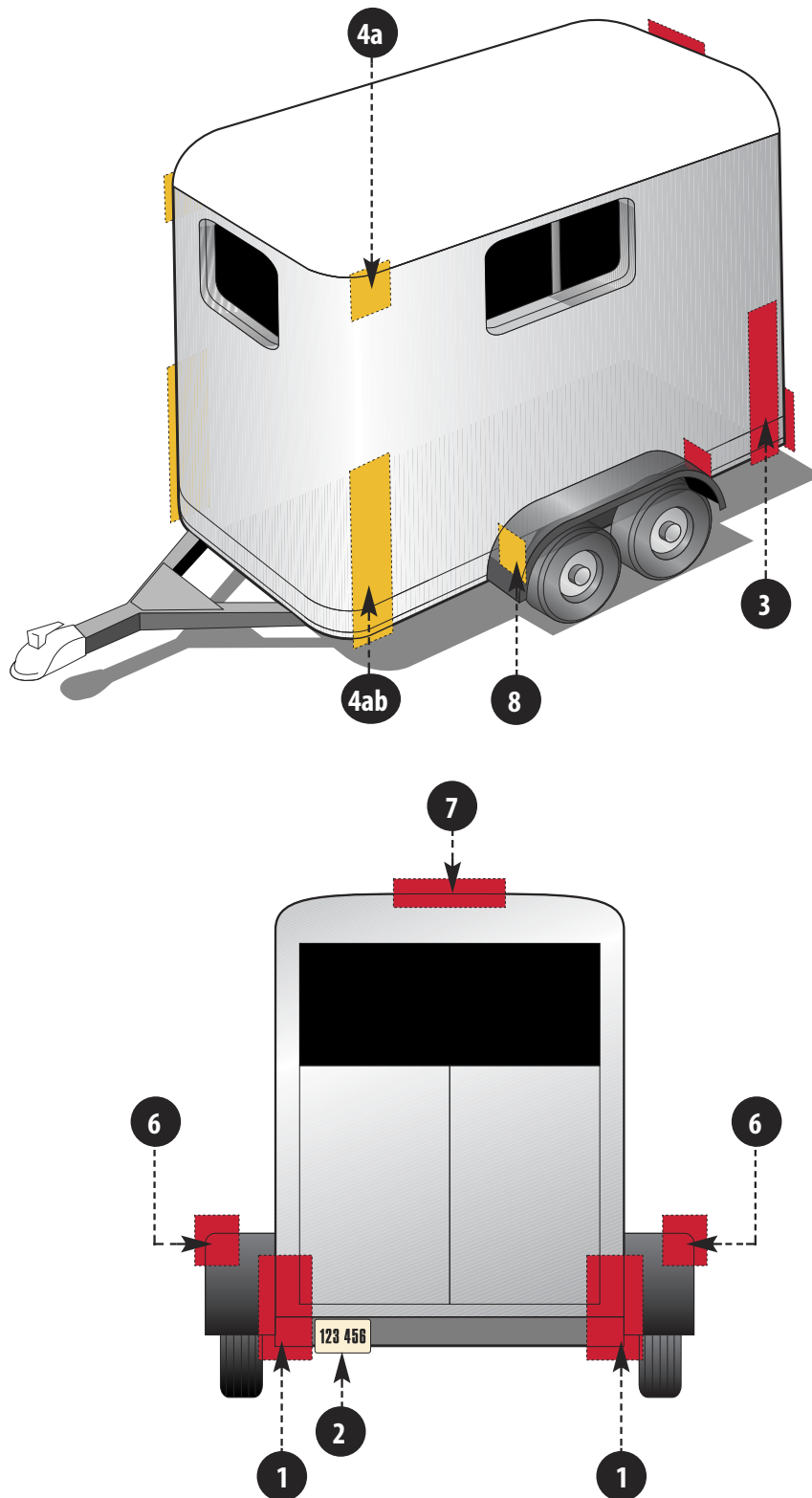
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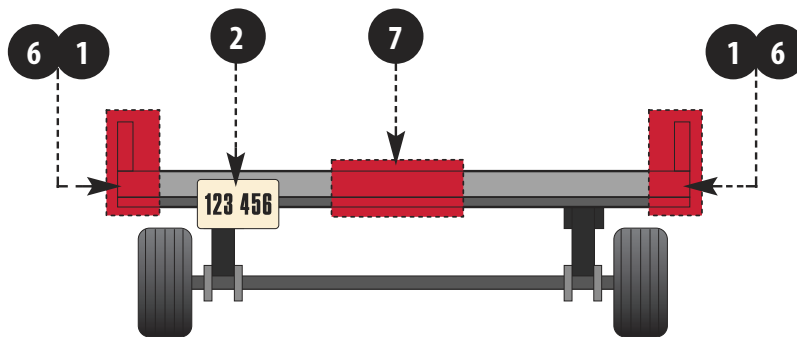
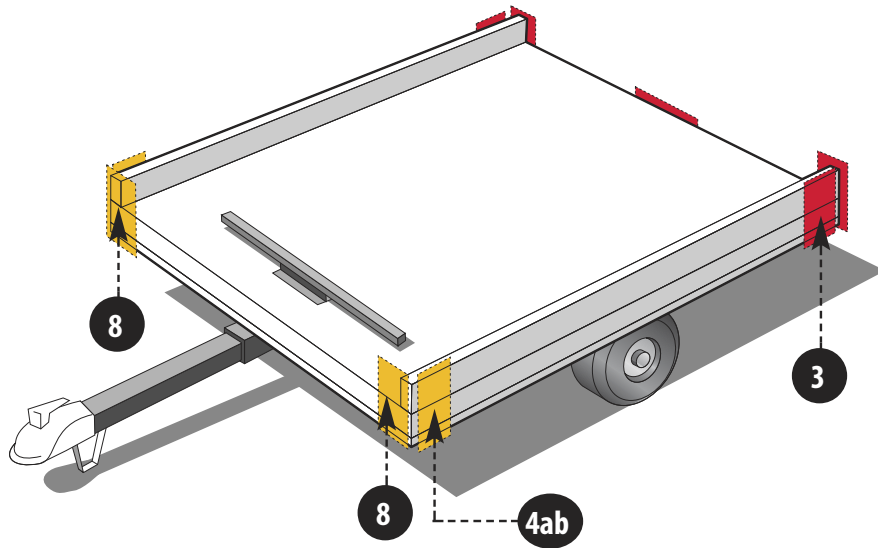
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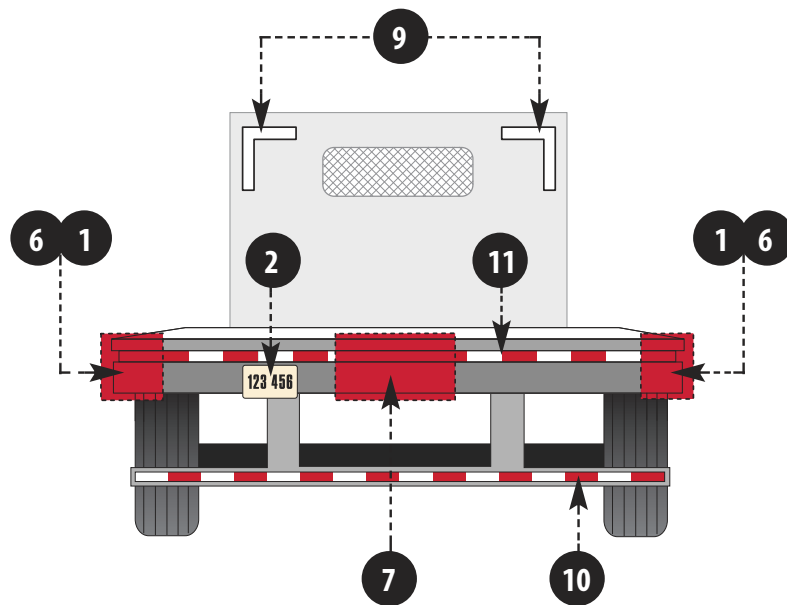
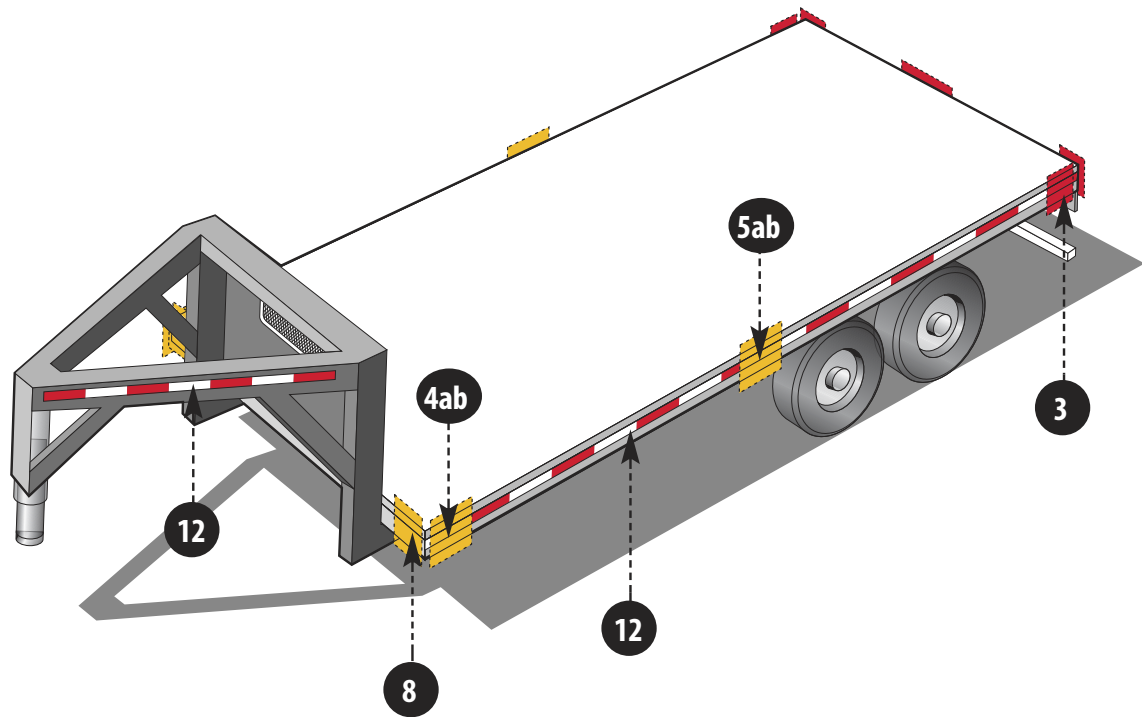


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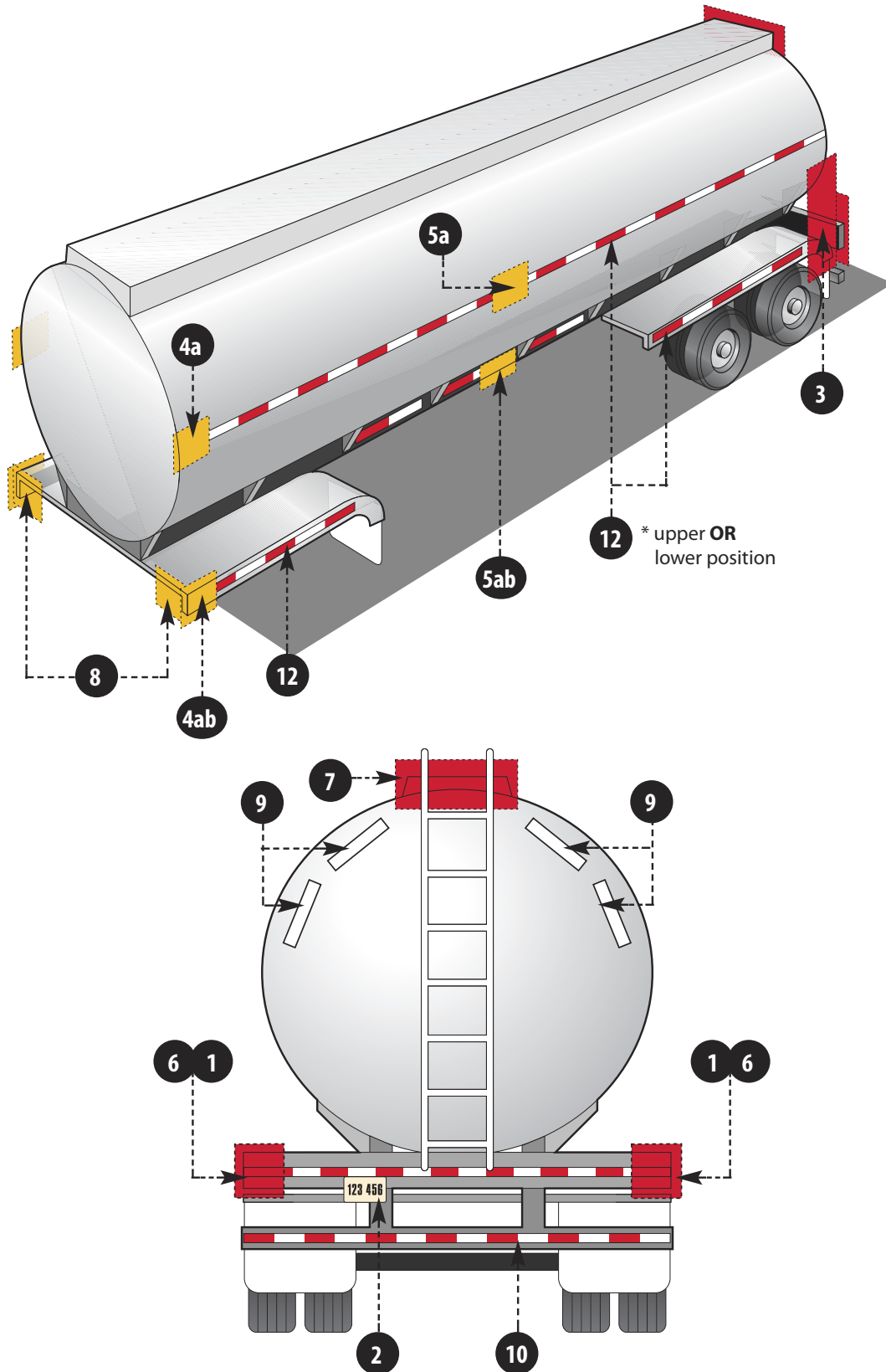


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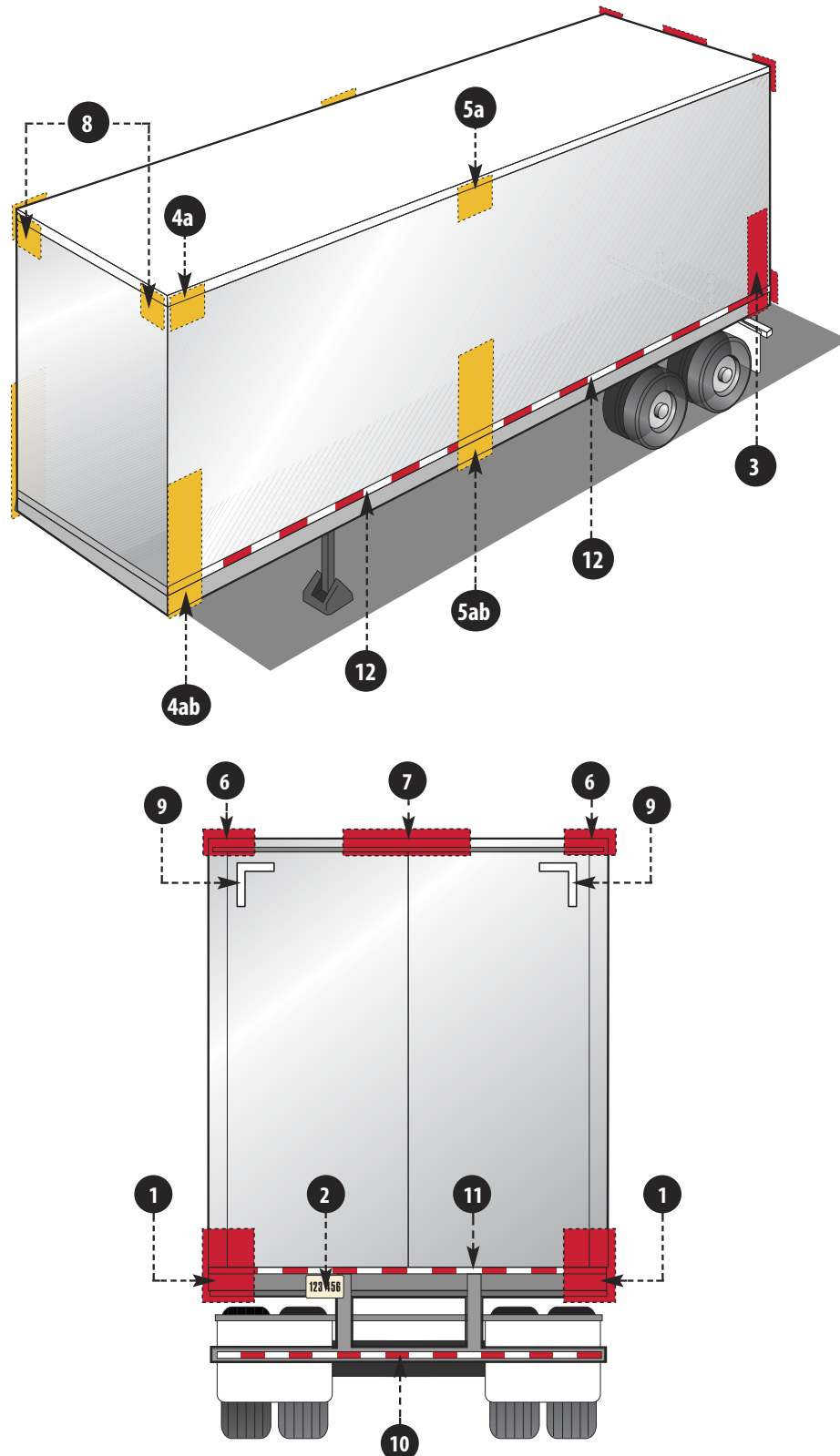




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