

The Vehicle Equipment Regulations, 1987

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Chapter V-2.1 Reg 10 (consult Table of Saskatchewan Regulations for effective dates) as amended by Saskatchewan Regulations 20/93, [15/96](#), [86/96](#), [10/98](#), [81/98](#), [100/2003](#), [43/2009](#), [29/2012](#), [46/2014](#), [84/2015](#), [41/2016](#), [42/2017](#) and [84/2017](#).

NOTE:

This consolidation is not official. Amendments have been incorporated for convenience of reference and the original statutes and regulations should be consulted for all purposes of interpretation and application of the law. In order to preserve the integrity of the original statutes and regulations, errors that may have appeared are reproduced in this consolidation.

Table of Contents

PART I		43	Backup lamp
Title and Interpretation		44	Reflectors
1	Title	44.1	Type A-2 Retro-reflective
2	Interpretation	45	Electrical wiring
PART II		46	Starter cable
General Prohibitions and Requirements		47	Battery
3	CMVSS	47.1	Frame
4	Standards for motor homes, recreational trailers slide-in campers	47.2	Underbody
5	Emergency lights and sirens	48	Frame of modified vintage vehicles
6	Prohibited lamps	49	Chassis fasteners of modified vintage vehicles
6.1	Helmets and eye protection	50	Bumpers
7	Special equipment for certain vehicles	51	Sharp edges
8	Highway maintenance vehicles and snow removal equipment	52	Fenders or mudflaps
9	School buses	53	Floor
9.1	Vehicles – physical disability	54	Exits
10	Slow moving vehicles	55	Door latch
11	Repealed	56	Hood latch
12	Hydraulic brake fluid	57	Driver's seat
13	LPG Containers	58	Special seats
PART III		59	Repealed
Type A Vehicles		60	Seat-belts
14	Application of Part	60.1	Supplemental restraints
15	Throttle return	61	Required seat-belts and warning system
16	Fuel system	62	Repealed
17	Exhaust system	63	Repealed
18	Muffler	63.1	Child or infant restraint system
19	Transmission	64	Windshield and side windows
20	Load rating to be indicated	65	Prohibition re sale of certain windshields
21	Suspension system	66	Side windows
21.1	Electronic Stability Control	67	Mirrors
22	Brake system	68	Windshield wiper
22.1	Antilock brake systems	69	Defroster or frost shields
23	Hydraulic brakes	70	Sun shield
24	Air brakes	71	Tires
25	Steering system	72	Wheels
26	Vehicle identification number	73	Trailer hitch
27	Speedometer	74	Gooseneck hitch
28	Horn	75	Fifth wheel hitch
29	Fire extinguisher	PART IV	
30	Flares	Type A-3 Vehicles	
31	Lamps general	76	Application of Part
32	Headlamps	77	CMVSS standards apply
32.1	Daytime running lamps	78	CSA standards apply
33	Auxiliary lamps	79	Repealed
34	Brake lamps	80	Repealed
34.1	Centre-mount stop lamp	81	Repealed
35	Signal lamps	82	Repealed
36	Hazard lamps and combined lamps	83	Repealed
37	Tail lamps	84	Repealed
37.1	Strobe lamp	85	Repealed
38	Licence plate lamp	86	Repealed
39	Side-marker lamps	87	Repealed
40	Clearance lamps	88	First aid kit
41	Combined lamps	89	Flares
42	Identification lamps type A-2	90	Warning system
		91	Stop arm
		91.1	Pedestrian-student gate

92	Paint
93	Identification and messages
94	Emergency door to be marked
95	Warning message re stops
96	Repealed
97	Tools to be secure
98	Repealed
99	Repealed
100	Repealed
101	Repealed
102	Repealed
103	Repealed
104	Repealed
105	Repealed
106	Bumpers
107	Repealed
108	Repealed
109	Repealed
110	Repealed
111	Repealed
112	Repealed
113	Repealed
114	Repealed
115	Repealed
116	Repealed
117	Repealed
118	Repealed
119	Repealed
120	Repealed
121	Repealed
122	Repealed
123	Repealed
124	Repealed
125	Repealed
126	Seat belt anchorages
127	Repealed
128	Repealed
129	Repealed
130	Repealed
131	Repealed
132	Repealed
133	Repealed
134	Repealed
135	Repealed
136	Repealed
137	Repealed
138	Repealed
139	Repealed
140	Fire extinguisher
141	Repealed
142	Repealed
143	Repealed
144	Repealed
145	Tire tread depth

PART V

Type V Vehicles

146	Application of Part
147	Throttle return
148	Fuel system

149	Exhaust system
150	Suspension system
151	Brake system
152	Steering system
153	Horn
154	Vehicle identification number
155	Headlamps
156	Tail lamps
157	Brake lamps
158	Exception re lamps
159	Reflectors
160	Seats
161	Windshield
162	Passenger compartment side windows
163	Mirror
164	Windshield wiper
165	Tires
166	Wheels

PART VI

Type T Vehicles

167	Application of Part
168	Certain weights and combinations prohibited
169	Axles
170	Certain axles prohibited
171	Steering axle
172	Suspension
173	Axle and suspension loads
174	Brake system
175	Repealed
176	Electric brakes
177	Hydraulic brakes
178	Air brakes
179	Lamps general
180	Tail lamps
181	Side marker lamps
182	Clearance lamps
183	Combined lamps
184	Brake lamps
185	Signal lamps and hazard lamps
186	Identification lamps
187	Licence plate lamp
188	Reflectors
188.1	Retro-reflective markings
189	Electrical wiring
190	Bumper
190.1	Rear impact guards
191	Sharp edges
192	Fenders or mudflaps
193	Floor or deck condition
193.1	Frame
194	Door or gate latches
195	Windows
196	Tires
197	Wheels
198	Hitch
199	Safety chain
200	Ball type hitch
201	Gooseneck trailer
202	Strength of type T-2 coupler

- 203 Semi-trailer coupler
- 204 Vehicle identification number
- 205 Labelling of trailers

PART VII

Tow Dollies – Type T-3 Vehicles

- 206 Application of Part
 - 207 Certain weights prohibited
 - 208 Locking device required
 - 209 Brakes
 - 210 Lamps general
 - 211 Tail Lamps
 - 212 Brake lamps
 - 213 Signal lamps
 - 214 Clearance lamps
 - 215 Side marker lamps
 - 216 Light bar permitted
 - 217 Securing device
 - 218 Hitch
 - 219 Certain combinations prohibited
- PART VIII
- Type M Vehicles**
- 220 Application of Part
 - 221 CMVSS standards apply
 - 222 Exhaust system
 - 223 Mufflers
 - 224 Fuel system
 - 225 Drive train guard
 - 226 Ground clearance
 - 227 Wheel base
 - 228 Brake system
 - 229 Forks
 - 230 Handlebars
 - 231 Speedometer
 - 232 Horn
 - 233 Controls and instruments
 - 234 Repealed
 - 235 Repealed
 - 236 Vehicle identification and engine serial numbers
 - 237 Lamps general
 - 238 Headlamps
 - 239 Driving lamps
 - 240 Tail lamp
 - 241 Brake lamp
 - 242 Signal lamps
 - 243 Licence plate lamp
 - 244 Clearance lamps
 - 245 Reflectors
 - 246 Electrical wiring
 - 247 Fenders and mudflaps
 - 248 Saddle
 - 249 Main frame
 - 250 Foot pegs and pillion
 - 251 Windshield
 - 252 Mirror
 - 253 Protruding material

- 254 Tires
- 255 Wheels

PART VIII.1

Type S Vehicles

- 255.1 Application of Part
- 255.11 CMVSS standards apply
- 255.12 Exhaust system
- 255.2 Fuel system
- 255.21 Drive guard
- 255.22 Brake system
- 255.3 Steering
- 255.31 Suspension
- 255.32 Occupant support
- 255.4 Throttle return
- 255.41 Kill switch
- 255.42 Controls
- 255.5 Repealed
- 255.51 Windshield
- 255.6 Vehicle identification numbers
- 255.61 Lamps general
- 255.7 Headlamps
- 255.71 Tail lamp
- 255.8 Brake lamp
- 255.81 Reflectors
- 255.9 Electrical wiring
- 255.91 Protruding material

PART VIII.2

**Equipment Standards for Vehicles Exempt from
Registration Requirements**

- 255.911 Standards for unregistered vehicles
- 255.912 Tires
- 255.913 Brakes
- 255.914 Fuel
- 255.915 Steering
- 255.916 Suspension
- 255.917 Chassis
- 255.918 Lamps
- 255.919 Tail lamps
- 255.920 Stop lamps
- 255.921 Signal lamps
- 255.922 Headlamps
- 255.923 Reflectors
- 255.924 Retro-reflective markings
- 255.925 Windshield wiper
- 255.926 Rated hitch
- 255.927 Safety chain
- 255.928 Mudflaps

APPENDIX

FORMS

- Form A Slow Moving Vehicle Warning Device
- Form B Overdimensional Sign — Power Unit - Repealed
- Form C Overdimensional Sign — Pilot Car - Repealed

TABLES

- Table 1
- Table 2
- Table 3

CHAPTER V-2.1 REG 10
The Vehicle Administration Act

PART I
Title and Interpretation

Title

1 These regulations may be cited as *The Vehicle Equipment Regulations, 1987*.

Interpretation

2(1) In these regulations:

- (a) “**Act**” means *The Traffic Safety Act*;
- (b) “**all-terrain vehicle**” means an all terrain vehicle as defined in *The All Terrain Vehicles Act*;
- (c) “**ambulance**” means a vehicle licensed as an ambulance pursuant to *The Ambulance Regulations*;
- (d) “**ANSI**” or “**AS**” means the American National Standards Institute;
- (d.1) “**ASAE**” means the American Society of Agricultural Engineers;
- (e) “**beacon**” means a lamp that emits a rotating or flashing light that is visible from any horizontal angle around the lamp;
- (e.1) **Repealed.** 18 May 2012 SR 29/2012 s3.
- (f) “**bus**” means a vehicle that is designed and used primarily for the movement of people and their personal belongings on a highway and that is over 2060 millimetres in width;
- (g) “**car**” means a passenger car as defined in the *Motor Vehicle Safety Regulations*, CRC, c 1038;
- (h) “**chassis cab**” means a vehicle that has a chassis that is capable of being driven, and that is designed to have added, by a secondary manufacturer, a cab and:
 - (i) a passenger-carrying or cargo-carrying body;
 - (ii) a fifth wheel; or
 - (iii) a work performing structure other than a fifth-wheel coupling;
- (i) “**CCA**” means continuous cranking amperes;
- (j) “**CMVTSS**” means Canadian Motor Vehicle Tire Safety Standards, as amended from time to time;
- (k) “**CMVSS**” means the Canada Motor Vehicle Safety Standards, as amended from time to time;

- (k.1) “**commercial vehicle**” means a commercial vehicle as defined in *The Safety Fitness Regulations*;
- (l) “**converter dolly**” means an axle unit with a fifth wheel assembly used to convert a semi-trailer to a trailer;
- (m) “**CSA**” means the Canadian Standards Association;
- (n) “**dangerous goods**” means dangerous goods as defined in the *Transportation of Dangerous Goods Act, 1992* (Canada);
- (o) “**DOT**” means United States Department of Transport;
- (p) “**emergency light**” means a red, blue or white beacon or flashing lamp;
- (q) “**emergency vehicle**” means any of the following vehicles:
- (i) a vehicle that is used for the transportation of a peace officer in the performance of the peace officer’s duties;
 - (ii) a vehicle that is used for the transportation of a member of a fire department in response to an emergency;
 - (iii) a vehicle that is an ambulance while being used in response to an emergency;
 - (iv) a vehicle that is a vehicle, or a member of a class of vehicles, designated by the board as an emergency vehicle and that is being used in response to an emergency;
 - (v) a vehicle that:
 - (A) is designated by a municipality in a bylaw pursuant to *The Traffic Safety Act* as a vehicle that may be used as an emergency vehicle by a volunteer firefighter or first responder; and
 - (B) is being used in response to an emergency and is operated by a person who meets the requirements prescribed pursuant to *The Traffic Safety Act*;
- (r) **Repealed.** 6 Jne 2014 SR 46/2014 s3.
- (s) “**flare**” is a hazard warning device that meets the requirements of SAE standard J774;
- (s.1) “**flashing lamp**” means a lamp that emits a rotating or flashing light that is visible from the front or from the front and rear of the vehicle, but does not include head lamps, hazard lamps or turn signal lamps;
- (t) “**FM**” means Factory Mutual Insurance Company;
- (u) “**GAWR**” means the gross axle weight rating of the axle as established by the manufacturer of the vehicle;
- (v) “**GVW**” or “**gross vehicle weight**” means the weight of the vehicle and its load;

- (w) “**GVWR**” or “**gross vehicle weight rating**” means the combined weight of the vehicle and its load at which the manufacturer or the administrator states the vehicle can be operated safely and continuously;
- (x) “**LPG**” means liquified petroleum gas;
- (y) “**label of compliance**” means the label authorized by the Government of Canada to be affixed to a vehicle that complies with the CMVSS at the time of manufacture;
- (z) “**limited speed motorcycle**” means a motorcycle that travels on two wheels and has a maximum attainable speed of not more than 70 kilometres per hour;
- (z.1) “**loading lamp**” means a fixed lamp that emits a white light and that provides illumination behind a vehicle for the purpose of loading and unloading cargo and for coupling and uncoupling a trailer
- (aa) “**mobile home dolly**” means a vehicle that is designed to be towed for the purpose of transporting mobile homes;
- (bb) “**modified vintage vehicle**” means a motor vehicle that:
- (i) is designed for the transportation of goods or people on highways;
 - (ii) resembles a vehicle manufactured before 1958; and
 - (iii) has been modified or reconstructed to improve its safety, handling or performance;
- (cc) “**motor home**” means a motor vehicle that is registered with the administrator as a private passenger vehicle, an integral section of which is designed for personal habitation, and is equipped with one or more permanently attached beds together with one or more of:
- (i) a permanently attached refrigerator;
 - (ii) a permanently attached stove; or
 - (iii) permanently attached washing and toilet facilities;
- and includes a bus or a truck that has been so converted and is so registered;
- (dd) “**motorcycle**” means a motorcycle or motor tricycle as defined in the *Motor Vehicle Safety Regulations*, C.R.C., c. 1038;
- (ee) “**multipurpose passenger vehicle**” means a vehicle having a designated seating capacity of 10 or less that is constructed either on a truck chassis or with special features for occasional off-road operation, but does not include an air cushion vehicle, all-terrain vehicle, golf-cart, passenger car or truck;
- (ee.1) “**power-assisted bicycle**” means a power-assisted bicycle as defined in the *Motor Vehicle Safety Regulations*, C.R.C., c. 1038;
- (ff) “**power unit**” means a vehicle designed and used for towing a semi-trailer on a highway with a substantial part of the weight of the semi-trailer and its load carried by the power unit;

- (gg) “**recreational trailer**” means a vehicle designed to be towed on a highway and used for the purpose of personal accommodation;
- (hh) “**SAE**” means Society of Automotive Engineers;
- (ii) “**school bus**” means a bus or van operated primarily for the purpose of transporting people to school and registered as Class PS under the Act;
- (jj) “**semi-trailer**” means a vehicle that is towed on a highway by a power unit with a substantial part of the weight of the semi-trailer and its load carried by the power unit;
- (kk) “**slow moving vehicle warning device**” means:
- (i) a sign in the form and dimensions illustrated in Form A of the Appendix;
 - (ii) a sign larger than the sign mentioned in subclause (i) with all dimensions increased proportionately; or
 - (iii) a sign that complies with ANSI/ASAE S276;
- (kk.1) **Repealed.** 18 May 2012 SR 29/2012 s3.
- (kk.11) “**snowmobile**” means a snowmobile as defined in *The Snowmobile Act*;
- (kk.12) “**special mobile machine**” means a special mobile machine as defined in *The Registration Exemption and Reciprocity Regulations, 2014*;
- (kk.2) “**spotlamp**” means an articulated lamp that is attached to a vehicle that is capable of projecting a white light on an object and that is capable of being directed from within or outside of the vehicle;
- (kk.3) “**stationary lamp**” means a forward facing white lamp mounted above a standard headlamp system that is activated by a switch in the vehicle that is independent of the headlamp switch and electrical circuit;
- (kk.4) “**three-wheeled vehicle**” means a three-wheeled vehicle as defined in the *Motor Vehicle Safety Regulations (Canada) CRC, c. 1038*;
- (ll) “**tow dolly**” means a trailer that is designed exclusively to carry one axle of a motor vehicle for the purpose of towing that motor vehicle behind another motor vehicle;
- (ll.1) “**towed mobile equipment**” means a towed vehicle that:
- (i) has permanently mounted machinery or equipment mounted on the vehicle or as an integral part of the vehicle’s chassis;
 - (ii) is not used, manufactured, designed or intended to be used to transport goods, merchandise or materials other than materials required for the operation of the permanently mounted machinery or equipment; and

(iii) uses the highway incidentally to its primary purpose including the incidental movement between job sites or storage locations, repair or maintenance of the vehicle;

but does not include the following vehicles:

(iv) a farm implement;

(v) a vehicle used for mobile living accommodations, office or shop space;

(vi) a trailer or semi-trailer;

(vii) a timber or metal beam with wheels attached for the purpose of moving buildings;

(viii) a vending, promotional or advertising vehicle that has a gross vehicle weight in excess of 1 360 kilograms;

(mm) **“trailer”** means a vehicle that is towed on a highway by another vehicle but does not include a towed motor vehicle or a semi-trailer;

(nn) **“truck”** means a self-propelled vehicle designed for use on a highway:

(i) for the transportation of goods; or

(ii) on which a work performing structure has been permanently mounted;

(oo) **“type A vehicle”** means a self-propelled vehicle designed for operation on highways and includes a car, truck, van, motorhome, multipurpose passenger vehicle, three-wheeled vehicle, power unit and bus as defined in CMVSS and type A-1 to type A-3 vehicles, but does not include a vintage vehicle, all-terrain vehicle, motorcycle or special mobile machine;

(pp) **“type A-1 vehicle”** means a type A vehicle that is 2060 millimetres or less in width;

(qq) **“type A-2 vehicle”** means a type A vehicle that is a bus, power unit, chassis cab or truck that is more than 2060 millimetres width;

(rr) **“type A-3 vehicle”** means a type A vehicle that is registered with the administrator as a school bus and is designed and used primarily for the transportation of school children;

(ss) **“type M vehicle”** means a motorcycle;

(ss.1) **“type S vehicle”** means a snowmobile;

(tt) **“type T vehicle”** means a trailer, tow dolly, semi-trailer or semi-trailer converted to a trailer by the use of a converter dolly;

(uu) **“type T-1 vehicle”** means a type T vehicle not equipped with air brakes;

(vv) **“type T-2 vehicle”** means a type T vehicle equipped with air brakes;

(ww) **“type T-3 vehicle”** means a tow dolly;

(xx) **“type V vehicle”** means a vintage vehicle;

(yy) **“UL”** means Underwriters Laboratories Incorporated;

(zz) **“ULC”** means Underwriters Laboratory of Canada Incorporated;

(aaa) “**van**” means a self-propelled vehicle of 2060 millimetres or less in width designed so that:

- (i) the cargo or passenger section and operator’s compartment are built as one; and
- (ii) the vehicle may be used for transportation of people or goods on a highway;

(bbb) “**vintage vehicle**” means a motor vehicle:

- (i) that was designed for the transportation of goods or people on highways;
- (ii) whose model year predates the current calendar year by 30 years or more;
- (iii) that, to the extent practicable, has been restored or maintained to the original manufacturer’s specifications; and
- (iv) has a GVWR that is not in excess of 4540 kilograms;

but does not include a modified vintage vehicle;

(ccc) “**work area**” means that section of a highway between a sign warning motorists that highway construction is in progress and a sign indicating that the construction has been passed;

(2) A reference to CMVSS by number is a reference to the section of the *Motor Vehicle Safety Regulations* (Canada), as amended from time to time, that bears that number.

(3) For the purposes of these regulations, the metric measurements in Table 1 of the Appendix are deemed to be the equivalent of the Canadian measurements shown in that Table.

Materials required

(4) For the purposes of subclause (1)(l.1)(ii), materials required for the operation of the permanently mounted machinery or equipment include tools, barricades, fences, traffic controls, warning devices or lights but do not include materials or goods for delivery or disposal.

4 Sep 87 cV-2.1 Reg 10 s2; 19 Mar 93 SR 20/93 s3; 26 Apr 96 SR 15/96 s3; 13 Feb 98 SR 10/98 s3; 1 May 2009 SR 43/2009 s3; 18 May 2012 SR 29/2012 s3; 6 Jne 2014 SR 46/2014 s3; 17 Jne 2016 SR 41/2016 s3; 19 May 2017 SR 42/2017 s3.

PART II
General Prohibitions and Requirements

CMVSS

3(1) Every vehicle that is manufactured on or after January 1, 1986 and registered pursuant to the Act for highway use must:

- (a) comply with the CMVSS at the time of manufacture and bear a label of compliance; or
- (b) be approved by the administrator.

(2) Notwithstanding subsection (1), a commercial vehicle must be equipped and maintained in accordance with the National Safety Code Standard 11 Maintenance and Periodic Inspection Standard established pursuant to the *Motor Vehicle Safety Act* (Canada).

17 Jne 2016 SR 41/2016 s4.

Standards for motor homes, recreational trailers and slide-in campers

4(1) Subject to subsection (2), in addition to meeting the requirements set out in section 3, every motor home and recreational trailer registered pursuant to the Act and every slide-in camper mounted on a vehicle registered pursuant to the Act must comply with one of the following standards in effect at the time it was manufactured:

- (a) CSA Z240 RV;
- (b) National Fire Protection Association (NFPA) 1192.

(2) The administrator may approve for registration and operation on Saskatchewan highways a motor home, recreational trailer or slide-in camper mounted on a vehicle that does not meet the requirements of subsection (1) if the administrator is satisfied that the motor home, recreational trailer or slide-in camper is safe and that it is not contrary to the public interest to do so.

(3) Unless it is exempted by the administrator pursuant to subsection (2), every motor home and recreational trailer registered pursuant to the Act and every slide-in camper mounted on a vehicle must bear a label that is issued by an accredited certification organization recognized by the administrator indicating compliance with the requirements in subsection (1).

18 May 2012 SR 29/2012 s4.

Emergency lights and sirens

5 Subject to sections 6 and 8, no vehicle other than an emergency vehicle shall be equipped with an emergency light or a siren.

23 Oct 2015 SR 84/2015 s3.

Prohibited lamps

6 Except where otherwise permitted or required in these regulations or permitted by the administrator, no vehicle driven on a highway shall be equipped with:

- (a) a lamp that emits a white light facing to the rear;
- (b) a lamp that emits a red light facing to the front;
- (c) a lamp that emits a blue or green light;
- (d) a white or blue flashing lamp; or
- (e) any additional lamp or equipment that impairs the effectiveness of the lamps required by these regulations.

4 Sep 87 cV-2.1 Reg 10 s6.

Helmets and eye protection

6.1(1) Subject to subsections (2) and (2.2), every operator of and every passenger on a motorcycle, three-wheeled vehicle or snowmobile shall wear a helmet that bears a manufacturer label to indicate compliance with one of the following standards:

- (a) ANSI;
- (b) British Standards Institution;
- (c) CSA;
- (d) DOT;
- (e) Snell Memorial Foundation;
- (f) Economic Commission for Europe (ECE).

(1.1) Notwithstanding anything to the contrary in the Act or these regulations, if a motorcycle is being operated by the holder of a driver's licence with a "6" endorsement or an "M" endorsement with a novice 1 or 2 restriction, the operator and any passenger on the motorcycle must have his or her arms and legs covered and wear:

- (a) a three-quarter, modular or full-face helmet that meets the standards set out in subsection (1);
- (b) boots that cover the ankles; and
- (c) full-fingered gloves.

(1.2) Subject to subsection (2), every operator of and every passenger on a power-assisted bicycle must wear either a motorcycle helmet that meets the standards set out in subsection (1) or a bicycle safety helmet that meets one of the following standards or applications:

- (a) CSA;
- (b) Snell Memorial Foundation;
- (c) ANSI; or
- (d) American Society of Testing and Material Standards.

(2) The administrator may approve a helmet for use on a motorcycle, three-wheeled vehicle, power-assisted bicycle or snowmobile that does not meet the requirements of subsection (1) or (1.2) if the administrator is satisfied that the helmet is safe and that it is not contrary to the public interest to do so.

(2.1) If a person operating a motorcycle, three-wheeled vehicle, power-assisted bicycle or snowmobile requires a helmet, that helmet must be securely held in position on the person's head by the straps and fasteners supplied by the manufacturer.

(2.2) The operator or passenger of a three-wheeled vehicle that conforms with the static and dynamic crash testing requirements set out in CMVSS 208 is exempt from the requirements set out in subsection (1).

(3) Every operator of and every passenger on a motorcycle, three-wheeled vehicle or snowmobile shall wear goggles, glasses or a face shield made of transparent, shatter-proof material free from scratches or distortion that would impair the operator's or passenger's vision.

(4) Subsection (3) does not apply to the operator of a motorcycle, three-wheeled vehicle or snowmobile if the motorcycle, three-wheeled vehicle or snowmobile has a windshield that deflects the air stream away from the operator's face.

(5) Subsection (3) does not apply to an operator or passenger of a three-wheeled vehicle if that three-wheeled vehicle has a windshield that complies with section 64.

18 May 2012 SR 29/2012 s5; 6 Jne 2014 SR
46/2014 s4; 17 Jne 2016 SR 41/2016 s5.

Special equipment for certain vehicles

7(1) A police vehicle may be fitted with the following equipment:

- (a) one or more red, blue, white or amber beacons or flashing lamps, in any combination, mounted on the vehicle;
- (b) one or more stationary lamps;
- (c) a siren.

(2) An ambulance may be fitted with the following equipment:

- (a) one or more red beacons;
- (b) one or more white beacons;
- (c) one or more red flashing lamps mounted on the front, rear and sides of the vehicle;
- (d) one or more white flashing lamps mounted on the front, rear and sides of the vehicle;
- (e) one or more stationary lamps;
- (f) one or more amber flashing lamps;
- (g) a siren.

(3) A fire-fighting vehicle may be fitted with the following equipment:

- (a) one or more red beacons;

- (b) one or more red flashing lamps mounted on the front, rear and sides of the vehicle;
 - (c) a red beacon or flashing lamp mounted on the dash of the vehicle;
 - (d) one or more stationary lamps;
 - (e) one or more amber flashing lamps;
 - (f) a siren.
- (3.1) Notwithstanding subsections (1) to (3), the administrator may approve a police vehicle, an ambulance or a fire-fighting vehicle that does not meet the requirements of those subsections if the administrator is satisfied that the police vehicle, ambulance or fire-fighting vehicle is properly fitted with equipment and that it is not contrary to the public interest to do so.
- (4) A vehicle approved as an emergency vehicle by the Highway Traffic Board may be fitted with the following equipment:
- (a) one or more red beacons;
 - (b) one or more red flashing lamps mounted on the front, rear and sides of the vehicle;
 - (c) a red beacon or flashing lamp mounted on the dash of the vehicle;
 - (d) one or more stationary lamps;
 - (e) one or more amber flashing lamps;
 - (f) a siren.
- (4.1) Subject to subsection (4.2), an emergency vehicle within the meaning of subclause 2(1)(q)(v) may be fitted with the following equipment:
- (a) a red beacon or red flashing light that:
 - (i) meets SAE standard J845 or J1318 class 1 requirements; and
 - (ii) is mounted on the dash, front or roof of the emergency vehicle; and
 - (b) a siren that meets SAE standard J1849.
- (4.2) A person operating an emergency vehicle within the meaning of subclause 2(1)(q)(v) must remove, or cover with an opaque cover, the red beacon or red flashing light mentioned in clause (4.1)(a) when that emergency vehicle is not being used in response to an emergency.
- (5) A type A vehicle that is a truck may be fitted with rear-facing loading lamps that emit a white light.
- (6) A type A vehicle may be fitted with an articulated spot lamp that emits a white light to the rear.
- (7) A tow truck must be fitted with one or more beacons that are either amber or amber and blue.

(8) A service truck, an escort vehicle or a vehicle creating a hazard on the highway may be fitted with:

- (a) one or more amber beacons; or
- (b) one or more amber flashing lamps.

(9) A vintage or modified vintage vehicle may have a blue lens 625 square millimetres or less as part of the tail-lamp assembly.

26 Apr 96, SR 15/96, s4; 1 May 2009 SR 43/2009 s4; 18 May 2012 SR 29/2012 s6; 19 May 2017 SR 42/2017 s4.

Highway maintenance vehicles and snow removal equipment

8(1) When operated on a highway:

- (a) highway maintenance vehicles may be fitted with one or more amber lights or beacons; and
- (b) snow removal equipment while engaged in snow removal may be fitted with one or more amber flashing lights or beacons or amber and blue flashing lights or beacons.

(2) An amber or amber and blue flashing light or beacon mentioned in subsection (1) must emit a light that is visible from 125 metres on a clear night.

23 Oct 2015 SR 84/2015 s4.

School buses

9 No vehicle, other than one that is registered as class PS or a bus registered as class PB which transports school children, shall:

- (a) be painted the colour known as “National School Bus Chrome”;
- (b) have on it the words “School bus” or “Do not pass when signals flashing”; or
- (c) have on it a stop arm described in section 91.

4 Sep 87 cV-2.1 Reg 10 s9.

Vehicles – physical disability

9.1 Every vehicle that is used for the transportation of persons with a physical disability must be equipped and maintained in accordance with the requirements of the edition of CSA D409 in effect at the time the vehicle was manufactured.

19 May 2017 SR 42/2017 s5.

Slow moving vehicles

10(1) Subject to subsection (2), a vehicle or combination of vehicles that is not capable of maintaining a speed of at least 40 kilometres per hour shall carry a slow moving vehicle warning device:

- (a) at the rear; or
- (b) in the case of a combination of vehicles, at the rear of the last vehicle of the combination;

as near to the centre as practicable with one side parallel to and not less than 900 millimetres nor more than 1,500 millimetres from the ground.

(2) A vehicle registered with the administrator that, because of load, operating conditions or impairment of the vehicle, operates at 40 kilometres per hour or less on a highway with a speed limit exceeding 50 kilometres per hour may, instead of carrying a slow moving vehicle warning device, operate with:

- (a) hazard warning lamps; or
- (b) an amber beacon.

(3) This section does not apply to construction or maintenance equipment while engaged in actual construction or maintenance work on a highway in a work area.

(4) A slow moving vehicle warning device shall not be displayed on a vehicle travelling at a speed greater than 40 kilometres per hour.

(5) During the period from one-half hour after sunset to one-half hour before sunrise, a vehicle that is not capable of maintaining a speed of at least 40 kilometres per hour must carry a retro-reflective slow moving vehicle warning device that complies with ANSI/ASAE S276.

4 Sep 87 cV-2.1 Reg 10 s10; 6 Jne 2014 SR
46/2014 s5.

11 Repealed. 18 May 2012 SR 29/2012 s7.

Hydraulic brake fluid

12(1) The brake fluid of every vehicle equipped with hydraulic brakes shall conform to the specifications and requirements of CMVSS 116.

(2) No person shall offer for sale brake fluid unless the container bears the words "Motor Vehicle Brake Fluid SAE J1702", "SAE J1703", "DOT 3", "DOT 4", "DOT 5" or "CMVSS 116".

4 Sep 87 cV-2.1 Reg 10 s12.

LPG Containers

13 Where a vehicle is equipped with an auxiliary LPG system for cooking, refrigeration or heating, the gas bottle shall be securely attached to the vehicle and:

- (a) where it is located inside the occupant's compartment, shall be in a separate enclosed area vented at the lowest point to the outside;
- (b) where it is located at the side or the rear of the outside of the vehicle, shall be protected by a bumper or other protective device and shall not extend beyond the side of the vehicle.

4 Sep 87 cV-2.1 Reg 10 s13.

PART III
Type A Vehicles

Application of Part

- 14(1)** The requirements of this Part apply only to type A vehicles.
- (2) Every type A vehicle driven on a highway shall be equipped in accordance with this Part.
- (3) Notwithstanding subsection (2), the administrator may approve for use on a highway a type A vehicle that does not comply with this Part.

4 Sep 87 cV-2.1 Reg 10 s14.

Throttle return

- 15(1)** The vehicle shall have a throttle return device that returns the throttle to the idle position:
- (a) on release of the driver control; and
- (b) in the case of a vehicle manufactured after January 1, 1974, on separation or disconnection of any part of the throttle control linkage.
- (2) Subsection (1) does not prevent the installation or use of a cruise control or hand throttle control for controlling throttle position.

4 Sep 87 cV-2.1 Reg 10 s15.

Fuel system

- 16(1)** The fuel tank, fuel filler pipe and fuel lines of the vehicle shall be secure and free from leaks.
- (2) The fuel filler pipe shall:
- (a) be positioned so that, when the fuel tank is being filled, spillage from the filler neck is prevented from contacting any part of the exhaust or electrical system; and
- (b) have a cap or closing device that prevents spillage and release of vapours.
- (3) In the case of a vehicle manufactured after January 1, 1968, the entrance to the fuel filler pipe shall be outside the cargo and passenger compartments.
- (4) Subsection (3) does not apply to the fuel filler of a pressurized fuel tank.
- (5) The fuel lines shall be constructed of steel tubing or other material suitable for fuel transfer.

4 Sep 87 cV-2.1 Reg 10 s16.

Exhaust system

17 The exhaust system of the vehicle shall:

- (a) be securely mounted and free from abnormal leaks;
- (b) be positioned so that exhaust gases are expelled beyond the outside perimeter of the passenger compartment or trunk;
- (c) release the exhaust in the general direction away from the vehicle; and
- (d) be not closer than 50 millimetres to any fuel, brake or electrical component unless protected by heat shielding.

4 Sep 87 cV-2.1 Reg 10 s17; 19 May 2017 SR
42/2017 s6.

Muffler

18 The vehicle shall have a muffler that effectively reduces combustion noise.

4 Sep 87 cV-2.1 Reg 10 s18.

Transmission

19(1) If the vehicle is fitted with a manual transmission with more than three forward gears, the shift pattern shall be displayed within view of the driver.

(2) If the vehicle is a type A-1 vehicle fitted with an automatic transmission, the vehicle shall have an ignition interlock that prevents the engine from being started when the transmission is set in any position other than neutral or park.

(3) The driveline system must be securely mounted, not be missing any parts and be free of visible cracks, damage or excessive horizontal or vertical movement.

4 Sep 87 cV-2.1 Reg 10 s19; 19 May 2017 SR
42/2017 s7.

Load rating to be indicated

20 If the vehicle was manufactured after January 1, 1978, it shall have a plate or tag permanently attached to the left door post of the vehicle indicating the GAWR of each axle.

4 Sep 87 cV-2.1 Reg 10 s20.

Suspension system

21(1) The suspension system of the vehicle shall:

- (a) in the case of a two axle vehicle, distribute the weight of the vehicle and its load so that no more than 75% of the total weight is carried on one axle;
- (b) not have broken or welded leaf or coil springs;
- (c) not have loose, bent, cracked, broken or disconnected U-bolts, centre bolts, mounting shackles, stabilizers, radius rods or equalizers;
- (d) have a bump pad or other secondary device that prevents the frame or body from contacting the tire or wheel in the event of failure of any component of the primary suspension system;

- (e) prevent any part of the vehicle other than the tires from contacting the ground when one tire is flat;
 - (f) have spring shackles that are not longer than those specified by the vehicle manufacturer; and
 - (g) have at least one functional damping device or shock absorber for each wheel.
- (2) **Repealed.** 19 May 2017 SR 42/2017 s8.

4 Sep 87 cV-2.1 Reg 10 s21; 19 May 2017 SR
42/2017 s8.

Electronic Stability Control

- 21.1(1)** Every vehicle with a GVWR of 4 536 kilograms or less that is manufactured on or after September 1, 2011 must be equipped with an electronic stability control system that complies with the requirements of CMVSS 126 in effect at the time the vehicle was manufactured.
- (2) If a vehicle is equipped with an electronic stability control system, the system must be maintained in accordance with the system manufacturer's specifications.

6 Jne 2014 SR 46/2014 s6; 19 May 2017 SR
42/2017 s9.

Brake system

- 22(1)** The vehicle shall have a brake system that consists of a service brake and a parking brake.
- (2) The service and parking brake systems shall:
- (a) have separate means of application; and
 - (b) be constructed so that failure of any component of one system will not prevent the application of brakes by the other system on at least one wheel on opposite sides of the vehicle.
- (3) The mechanical components of the brake system shall be secure, functional and not misaligned, broken or excessively worn.
- (4) The brake linings and pads shall not be contaminated by petroleum products or be loose or broken.
- (5) The brake linings and pads must not be worn in excess of the lesser of:
- (a) the wear limit recommended by the manufacturer; and
 - (b) in the case of:
 - (i) a vehicle with a gross vehicle weight of 4 540 kilograms or less, 0.80 millimetres of remaining friction material measured at the thinnest part from the base of the bonded material or above the rivet or bolt head on non-bonded material;

- (ii) a vehicle with a gross vehicle weight in excess of 4 540 kilograms and equipped with a hydraulic brake system, 2.0 millimetres of remaining friction material measured at the thinnest part from the base of the bonded material or above the rivet or bolt head on non-bonded material;
 - (iii) a vehicle with a gross vehicle weight in excess of 4 540 kilograms and equipped with an air brake drum system and bonded or continuous strip brake shoe lining, 5.0 millimetres of remaining lining when measured at the centre of the shoe or 1.0 millimetre of remaining lining when measured at the thinnest point;
 - (iv) a vehicle with a gross vehicle weight in excess of 4 540 kilograms and equipped with an air brake drum system and block type brake shoe lining, 7.0 millimetres of remaining lining when measured at the centre of the shoe or 1.0 millimetre of remaining lining when measured at the thinnest point;
 - (v) a vehicle with a gross vehicle weight in excess of 4 540 kilograms and equipped with an air disc brake system, 2.0 millimetres of remaining friction material when measured at the thinnest point.
- (6) Brake rotors must not be worn in excess of the lesser of the wear limit recommended by the manufacturer and:
- (a) for a vehicle equipped with a brake rotor less than 305 millimetres in diameter, a reduction of 1.25 millimetres from the original thickness of the rotor;
 - (b) for a vehicle equipped with a brake rotor of 305 millimetres in diameter or greater, a reduction of 3.00 millimetres from the original thickness of the rotor.
- (7) The brake drums or rotors shall not have not been machined beyond the limit recommended by the manufacturer as marked on the rotor or drum or:
- (a) 1.50 millimetres in the case of drums 280 millimetres in diameter or less;
 - (b) 2.25 millimetres in the case of drums more than 280 millimetres but not more than 320 millimetres in diameter;
 - (c) 3.00 millimetres in the case of drums more than 320 millimetres in diameter;
 - (d) 1.50 millimetres in the case of a rotor with a diameter of 305 millimetres or less; or
 - (e) 2.25 millimetres in the case of rotor over 305 millimetres in diameter.
- (8) The means of application of the parking brake of a vehicle shall permit the immediate reapplication of the parking brake when the parking brake is released.
- (9) The parking brake shall hold the vehicle on a 15% grade with the vehicle facing either up or down the grade while fully loaded.

- (10) The service brake shall:
- (a) apply brakes to all wheels; and
 - (b) be adjusted so that it applies braking as nearly equally as practicable to the wheels on the opposite ends of the same axle.
- (11) Notwithstanding clause (10)(a), the service brake is not required to apply brakes to:
- (a) the front wheels of a power unit, in the case of a power unit that has brakes on two drive axles; and
 - (b) the wheels of a tag axle, in the case of a truck with a tag axle, if the tag axle was installed on the truck before January 1, 1987.
- (12) The means of application of the service brake shall be a foot pedal but, in the case of a vehicle equipped for a handicapped driver, the means of application may be a hand control.
- (13) The means of application of the service brake shall be installed so that it can be operated from the driver's seat.
- (14) The brake lines and connections shall:
- (a) be constructed from materials meeting SAE standards:
 - (i) J1047, J1401, J1403 and J844 for hydraulic brakes;
 - (ii) J1149, J1394, J844 and J1402 for air brakes;
 - (b) be designed and maintained so that they are secured against undue wear, accidental disconnection, chafing and failure due to vibration;
 - (c) not be frayed, severed, cut, crimped or dented in a manner that impedes the flow of brake fluid or air or allows the contents to leak; and
 - (d) be free from leaks.
- (15) The pedal travel of the service brake on full brake application shall be not more than 80% of the total available travel or the travel that is specified by the manufacturer, whichever is greater.
- (16) The brakes shall, without the use of the power assist, stop the fully loaded vehicle or combination of vehicles from a speed of 30 kilometres per hour on a dry, smooth, level, paved surface in a distance of not more than:
- (a) in the case of a single vehicle with a GVW of 4500 kilograms or less, 8 metres;
 - (b) in the case of a combination of vehicles with a combined GVW of 4500 kilograms or less, 12 metres;
 - (c) in the case of a single vehicle with a GVW in excess of 4500 kilograms, 12 metres;
 - (d) in the case of a combination of vehicles with a combined GVW in excess of 4500 kilograms, 14 metres;

without deviating more than 300 millimetres from a straight line.

(17) Unless a rated towing capacity is provided by the manufacturer, a motor home may be used to tow a motor vehicle if the GVW of the towed vehicle does not exceed 2 000 kilograms.

(18) Subject to subsection (17), if the GVW of the towed vehicle exceeds 40% of the GVWR of the motor home, the towed vehicle must be equipped with brakes.

4 Sep 87 cV-2.1 Reg 10 s22; 19 May 2017 SR
42/2017 s10.

Antilock brake systems

22.1(1) Subject to subsection (3), if a vehicle has a GVWR of 4 536 kilograms or greater and was manufactured on or after April 1, 2000, it must be equipped with an antilock brake system that complies with the requirements of CMVSS 105 or CMVSS 121 in effect at the time the vehicle was manufactured.

(2) If a vehicle is equipped with an antilock brake system, the system must be maintained in good working order and in accordance with the system manufacturer's specifications.

(3) The following vehicles, manufactured on or after April 1, 2000 do not require an antilock brake system:

- (a) a vehicle that cannot attain a speed greater than 53.11 kilometres per hour within 3.2 kilometres;
- (b) a vehicle with an axle that has a GAWR of 13 154 kilograms or greater;
- (c) a vehicle that:
 - (i) has no capacity to carry passengers other than the driver or persons who are required to operate the vehicle;
 - (ii) has an unloaded GVW that is not less than 95% of its GVWR; and
 - (iii) cannot attain a speed greater than 72.3 kilometres per hour within 3.2 kilometres.

6 Jne 2014 SR 46/2014 s7.

Hydraulic brakes

23(1) If the vehicle is fitted with hydraulic brakes, the vehicle shall have a brake fluid reservoir that maintains brake fluid:

- (a) at the level specified by the vehicle manufacturer; or
- (b) where the level is not specified by the manufacturer, at a level that is not less than 13 millimetres from the lowest edge of the filler opening.

(2) Where the vehicle is manufactured or assembled after 1969, the hydraulic brake system shall be designed and maintained so that failure of any part of the hydraulic system will not leave the vehicle without brakes on at least two wheels on opposite sides of the vehicle.

- (3) A car manufactured or assembled after 1970, shall have a lamp that:
- (a) is located on the dashboard in full view of the driver; and
 - (b) indicates when a failure of the hydraulic brake system has occurred.

4 Sep 87 cV-2.1 Reg 10 s23; 19 May 2017 SR
42/2017 s11.

Air brakes

24(1) Where the vehicle is fitted with air brakes, the brakes shall have check valves that:

- (a) prevent loss of air from an air reservoir in the event of a leak in the line between the source and the reservoir or a failure at the source; and
 - (b) are located between the source of the compressed air and the air reservoir and between the reservoir of each secondary system and the supply reservoir.
- (2) The air reservoir shall have a capacity of:
- (a) if manufactured after 1975, at least 12 times; or
 - (b) if manufactured in 1975 or earlier, at least eight times;

the combined volumes of all service brake chambers at maximum travel of the pistons or diaphragms.

- (3) The airbrake system must limit the drop in air pressure when the engine is off to 138 kPa on brake application and, while the brakes are applied, to:
- (a) 20 kPa per minute, in the case of a single unit;
 - (b) 40 kPa per minute, in the case of two vehicles in combination;
 - (c) 65 kPa per minute, in the case of three vehicles in combination.
- (4) The vehicle shall have at least one air gauge for each service reservoir that:
- (a) is located in the driver's compartment in full view of the driver;
 - (b) is accurate within 10%; and
 - (c) indicates the pressure in the reservoir.
- (5) Each service reservoir tank must have a device that provides a visible warning to the driver in the event of low air pressure.
- (6) The compressor of the air brake system must build up air pressure to a range between 586 kPa and 689 kPa for single vehicles within two minutes with the engine running at 600 to 800 revolutions per minute.
- (7) If the air brake system is fitted with a belt driven compressor, the compressor belt shall not:
- (a) be cut, frayed or excessively worn; and
 - (b) have more than 15 millimetres deflection when measured at the mid-point between pulleys.

- (8) The air brake system shall have a device that applies the brakes automatically when the air pressure drops below 120 kPa or 315 kPa, whichever is designated by the manufacturer.
- (9) If the vehicle is manufactured on or after May 31, 1996, the air brakes must be equipped with a system that automatically compensates for service brake wear.
- (10) If the vehicle is equipped with an air brake system and is towing another vehicle with an air brake system, the air brake system on the towing vehicle must be equipped with a system to protect the air pressure in the towing vehicle from the effects of a loss of air pressure in the towed vehicle.
- (11) If the vehicle is equipped with a cam type air brake system, the distance of travel of the brake piston or pushrod between an unapplied and applied brake position must not exceed the brake adjustment limits set out in Table 3 of the Appendix for the type and size of the vehicle's brake chamber.

4 Sep 87 cV-2.1 Reg 10 s24; 6 Jne 2014 SR
46/2014 s8; 19 May 2017 SR 42/2017 s12.

Steering system

- 25(1)** The steering system of the vehicle shall be maintained:
- (a) in the case of a vehicle other than a modified vintage vehicle, within the specifications approved by the vehicle manufacturer;
 - (b) in the case of a modified vintage vehicle, within the steering geometry specifications approved by the manufacturer of the steering assembly.
- (2) The steering wheel free play, when measured at the rim, must not exceed:
- (a) in the case of a steering wheel with a diameter of 500 millimetres or less:
 - (i) 85 millimetres for a manual system; or
 - (ii) 75 millimetres for a power steering system; and
 - (b) in the case of a steering wheel with a diameter greater than 500 millimetres:
 - (i) 100 millimetres for a manual system; or
 - (ii) 87 millimetres for a power steering system.
- (3) The steering box and steering column shall not be loose and shall have no loose or missing fasteners.
- (4) The steering wheel shall have:
- (a) at least 25.60 millimetres clearance between the rim and any other part of the vehicle; and
 - (b) a diameter of not less than 330 millimetres, or that specified by the manufacturer, whichever is less.

- (5) The front wheels of the vehicle shall turn from maximum left to maximum right without contacting any non-rotating part with the vehicle loaded when the vehicle is loaded to its GVWR.
- (6) In the case of a type A-1 vehicle, the steering wheel rotation between maximum left and maximum right shall be between two and six turns.
- (7) The front wheels of the vehicle shall tend to return to the straight ahead position when the steering wheel is released during a turn.

4 Sep 87 cV-2.1 Reg 10 s25; 19 May 2017 SR
42/2017 s13.

Vehicle identification number

- 26(1)** The vehicle shall have a vehicle identification number that is sunk into or embossed on a part of the vehicle that is not designed to be removed except for repair.
- (2) If the vehicle is a type A-1 vehicle manufactured or assembled after 1974, the vehicle identification number shall be located inside the operator's compartment adjacent to the left front roof pillar and be readable from outside the vehicle without removing any part.

4 Sep 87 cV-2.1 Reg 10 s26.

Speedometer

- 27** The vehicle shall have a means of indicating speed that is within view of the driver.

4 Sep 87 cV-2.1 Reg 10 s27.

Horn

- 28(1)** The vehicle shall have a horn that emits a sound that is audible under normal conditions from a distance of at least 60 metres.
- (2) The horn shall have a pressure switch that is within easy reach of the driver.

4 Sep 87 cV-2.1 Reg 10 s28.

Fire extinguisher

- 29(1)** A type A-2 vehicle that is a commercial vehicle or is a vehicle transporting bulk flammable products must have a fire extinguisher located in the driver's compartment that is accessible to the driver and:
- (a) is approved by UL, ULC or FM and labelled accordingly;
 - (b) is rated as:
 - (i) in the case of a power unit, ambulance or truck, 5 BC; or
 - (ii) in the case of a bus, 10 BC; and
 - (c) has a visual indicator to indicate that it has not been discharged.

(2) A power unit or truck transporting bulk flammable products must have an additional fire extinguisher with a rated capacity of 20 BC or greater.

(3) The requirements in subclause (1)(b)(ii) or subsection (2) can be satisfied using two approved fire extinguishers whose total rated capacity meets the minimum capacity requirements.

19 May 2017 SR 42/2017 s14.

Flares

30(1) A type A-2 vehicle that is operated outside the corporate limits of an urban municipality shall carry at least three flares.

(2) **Repealed.** 19 May 2017 SR 42/2017 s15.

4 Sep 87 cV-2.1 Reg 10 s30; 19 May 2017 SR 42/2017 s15.

Lamps general

31 All lamps required pursuant to this Part must be securely mounted and meet SAE standards applicable at the time of manufacture.

19 May 2017 SR 42/2017 s16.

Headlamps

32(1) The vehicle shall have at least two headlamps that have both a high beam and a low beam and that are located at the front as far apart as practicable and, where practicable, at a height of not less than 535 millimetres and not more than 1400 millimetres from the ground, measured to the centre of the lamp unless impracticable because of the equipment or construction of the vehicle.

(2) The headlamps shall, while on high beam or low beam, emit a white light visible from a distance of 500 metres.

(3) The headlamps shall, while on high beam or low beam, illuminate a 1000 millimetres by 300 millimetres gray object with white light so that it is visible to the driver, on a clear night, from a distance of at least:

(a) 150 metres in the case of the high beam;

(b) 50 metres in the case of the low beam.

(4) The headlamps shall have a control by which the driver is able to switch between the high and low beams without interruption of light.

(5) The low beam of the headlamp shall be focused so that when the vehicle is unloaded and on level ground and the low beam is illuminating a screen at a distance of 8 m:

(a) the left edge of the high intensity zone is not more than 100 millimetres right or left of straight ahead; and

(b) the top edge of the high intensity zone is no more than 100 millimetres above or below the height of the lamp.

(6) The vehicle shall have a lamp on the instrument panel that indicates to the driver when the high beam is activated.

4 Sep 87 cV-2.1 Reg 10 s32.

Daytime running lamps

32.1(1) A vehicle manufactured on or after December 1, 1989 and registered pursuant to the Act must have two daytime running lamps that are located at the front of the vehicle and that comply with the requirements of CMVSS 108 in effect at the time the vehicle was manufactured.

(2) The daytime running lamps must emit a white or amber light and operate automatically and continuously when:

- (a) the parking brake is released;
- (b) the vehicle is set in motion; and
- (c) the headlamp switch is not in the 'on' position.

(3) Daytime running lamps may be combined with the following lamps:

- (a) low beam headlamps;
- (b) fog lamps;
- (c) signal lamps.

(4) Daytime running lamps that are not combined with other lighting must be located:

- (a) symmetrically, as far apart as is practicable, on either side of the front vertical centre line of the vehicle; and
- (b) at a height of not less than 38 millimetres and not more than 2 110 millimetres above ground, measured from the centre of the lamp with the vehicle unloaded on a flat surface and the tires inflated within the range specified by the manufacturer.

6 Jne 2014 SR 46/2014 s10.

Auxiliary lamps

33(1) If the vehicle is equipped with auxiliary headlamps, fog lamps or driving lamps, those lamps shall be:

- (a) focused at least as low and as far to the right as the low beam of the headlamps; or
- (b) connected so that they are switched off when the low beam is selected.

(2) The auxiliary lamps shall be mounted no higher than the headlamps except where front mounted equipment makes that impracticable.

4 Sep 87 cV-2.1 Reg 10 s33.

Brake lamps

34(1) The vehicle shall have two brake lamps that:

- (a) are located facing the rear;
- (b) are between 380 millimetres and 2110 millimetres from the road surface;

- (c) are positioned as far apart as practicable;
 - (d) emit a red light that is clearly visible from at least 200 metres to the rear; and
 - (e) are activated by brake application.
- (2) A modified vintage vehicle shall have at least one brake lamp meeting the requirements of clauses (1)(a), (b) and (d).

4 Sep 87 cV-2.1 Reg 10 s34; 19 May 2017 SR
42/2017 s17.

Centre-mount stop lamp

- 34.1(1)** The following vehicles must have a centre-mount stop lamp:
- (a) a passenger car manufactured on or after January 1, 1987;
 - (b) every vehicle manufactured on or after January 10, 1997 that:
 - (i) has a GVWR of 4 536 kilograms or less; and
 - (ii) whose overall vehicle width is less than 2.05 metres.
- (2) A centre-mount stop lamp must:
- (a) be activated by the application of the brake pedal;
 - (b) emit a red light that is clearly visible from at least 200 metres to the rear;
 - (c) be visible from the rear of the vehicle; and
 - (d) be located on the rear vertical centre of the vehicle not less than 860 millimetres above the ground unless otherwise specified in CMVSS 108.

6 Jne 2014 SR 46/2014 s11; 19 May 2017 SR
42/2017 s18.

Signal lamps

- 35(1)** The vehicle shall have turn signal lamps that are positioned:
- (a) two facing the front and two facing the rear;
 - (b) as far apart as practicable; and
 - (c) between 350 millimetres and 2110 millimetres from the road surface.
- (2) The signal lamps shall emit:
- (a) a flashing amber light from the front facing lamps that is clearly visible from at least 200 metres to the front; and
 - (b) a flashing amber or red light from the rear facing lamps that is clearly visible from at least 200 metres to the rear.

- (3) In the case of a modified vintage vehicle, a flashing white or amber light may be emitted from the front facing lamps.
- (4) The signal lamps shall be activated by a signal lamp control that is within easy reach of the driver.
- (5) Where the vehicle was manufactured after 1976, the signal lamps shall be self-cancelling.
- (6) The signal lamps shall have an audible or visual indicator to inform the operator when the lamp is activated.

4 Sep 87 cV-2.1 Reg 10 s35; 19 May 2017 SR
42/2017 s19.

Hazard lamps and combined lamps

36(1) Where the vehicle was manufactured or assembled on or after January 1, 1970, it shall have four hazard warning lamps that are positioned:

- (a) two facing to the front and two facing to the rear;
 - (b) as far apart as practicable; and
 - (c) between 350 millimetres and 2110 millimetres from the road surface.
- (2) The hazard lamps shall flash on the left and right sides of the vehicle simultaneously and shall emit:
- (a) a flashing amber light from the front lamps that is clearly visible from at least 200 metres to the front; and
 - (b) a flashing amber or red light from the rear lamps that is clearly visible from at least 200 metres to the rear.
- (3) The hazard lamps shall:
- (a) be independent of all other controls;
 - (b) be activated by a hazard lamp switch that is within easy reach of the driver; and
 - (c) have an audible or visual indicator to inform the operator when the lamp is activated.
- (4) For the purposes of sections 34 and 35 and this section, a single lamp may serve as a brake lamp, a signal lamp and a hazard lamp.

4 Sep 87 cV-2.1 Reg 10 s36; 19 May 2017 SR
42/2017 s20.

Tail lamps

37(1) The vehicle shall have at least two tail lamps that:

- (a) are located at the rear;
- (b) are between 380 millimetres and 2110 millimetres above the road surface;
- (c) are positioned as far apart as practicable;

- (d) emit a red light that is clearly visible from at least 150 metres to the rear; and
 - (e) are activated by the headlamp control.
- (2) A modified vintage vehicle shall have at least one tail lamp meeting the requirements of clauses (1)(a), (c) and (d).

4 Sep 87 cV-2.1 Reg 10 s37; 19 May 2017 SR 42/2017 s21.

Strobe lamp

37.1(1) On or after September 4, 2004, every type A-3 vehicle must be equipped with a strobe lamp that meets the requirements of the version of the CSA D250 in effect at the time the vehicle was manufactured.

(2) Subsection (1) does not apply to a multi-function school activity bus as defined in *The Vehicle Classification and Registration Regulations*.

19 May 2017 SR 42/2017 s22.

Licence plate lamp

38(1) The vehicle shall have a lamp that illuminates the rear licence plate.

(2) The licence plate lamp shall:

- (a) emit a white light so that the licence plate is visible from a distance of 100 metres on a clear night; and
- (b) be activated by the headlamp switch.

(3) Subsection (1) does not apply to a type A vehicle that is a power unit.

4 Sep 87 cV-2.1 Reg 10 s38.

Side-marker lamps

39(1) Subject to subsection (5), the vehicle shall have side-marker lamps located two on each side of the vehicle not less than 380 millimetres above the ground and as close to the corners as practicable.

(2) In addition to the lamps referred to in subsection (1), a vehicle over 10 metres long shall have side-marker lamps located one on each side close to the horizontal mid-point and not less than 380 millimetres above the ground.

(3) The side-marker lamps shall:

- (a) be visible from the side;
- (b) emit a red light from the rear-most lamps and an amber light from the foremost and, where fitted, mid-point lamps that are clearly visible from at least 150 metres; and
- (c) be activated by the headlamp switch.

(4) Subsections (1) to (3) do not apply to type A-1 vehicles that were manufactured or assembled before January 1, 1972.

(5) Rear side-marker lamps are not required on power units.

4 Sep 87 cV-2.1 Reg 10 s39; 19 May 2017 SR
42/2017 s23.

Clearance lamps

40 A type A-2 vehicle shall have four clearance lamps that:

- (a) are located two facing to the rear and, except in the case of power units, two facing to the front as far apart as practicable;
- (b) emit a red light from the rear facing lamps that is clearly visible from at least 150 metres and emit an amber light from the front facing lamps that is clearly visible from at least 150 metres; and
- (c) are activated by the headlamp control.

4 Sep 87 cV-2.1 Reg 10 s40; 19 May 2017 SR
42/2017 s24.

Combined lamps

41 For the purpose of section 39 and 40, a single lamp may serve as both a clearance lamp and a side-marker lamp if it can be seen both from the side and from either the front or rear.

4 Sep 87 cV-2.1 Reg 10 s41.

Identification lamps type A-2

42(1) A type A-2 vehicle shall, where practicable, have six identification lamps that:

- (a) are located, three facing to the front, and three facing to the rear as high and as near to the horizontal mid-point of the vehicle as practicable; and
- (b) emit a red light from the rear lamps and an amber light from the front lamps.

(2) The provisions of subsection (1) with respect to rear facing identification lamps do not apply to type A-2 vehicles that are power units.

4 Sep 87 cV-2.1 Reg 10 s42.

Backup lamp

43 Where the vehicle was manufactured or assembled after December 31, 1971, it shall have at least one backup lamp that:

- (a) is located facing to the rear;

- (b) illuminates a 1000 millimetres by 300 millimetres gray object, at a distance of 5 metres with a white light so that it is visible from the driver's seat on a clear night; and
- (c) is activated when the transmission of the vehicle is engaged in reverse gear while the engine is running.

4 Sep 87 cV-2.1 Reg 10 s43.

Reflectors

44(1) The vehicle must have reflectors or reflective tapes that:

- (a) are located:
 - (i) two facing the rear as far apart as is practicable and from 380 millimetres to 1530 millimetres above the surface of the road;
 - (ii) two on each side as far apart as is practicable and from 380 millimetres to 1530 millimetres above the surface of the road; and
 - (iii) one located near the horizontal mid-point on each side of the vehicle if the vehicle is over 10 metres in length;
 - (b) emit an amber reflection from the front-most and, if fitted, centre reflectors and a red reflection from the rearmost reflectors; and
 - (c) are visible on a clear night when illuminated by a type A vehicle headlamp at a distance of 60 metres.
- (2) For the purposes of subsection (1), lamps with reflective lenses may serve as reflectors.

6 Jne 2014 SR 46/2014 s12; 19 May 2017 SR 42/2017 s25.

Type A-2 Retro-reflective

44.1 Every type A-2 vehicle that is a power unit must be equipped with conspicuity treatment in accordance with the requirements of the version of the CMVSS 108 in effect at the time the vehicle was manufactured.

19 May 2017 SR 42/2017 s26.

Electrical wiring

45 The electrical wiring of the vehicle shall:

- (a) be installed in accordance with good engineering practice;
- (b) conform to SAE Standards J1292;
- (c) not be broken or badly frayed; and
- (d) be of a gauge equal to or heavier than that prescribed in Table 2 of the Appendix or that installed by the original manufacturer, whichever is less.

4 Sep 87 cV-2.1 Reg 10 s45.

Starter cable

46 The starter cable of the vehicle shall be:

- (a) of a gauge equal to or heavier than that specified by the vehicle manufacturer; or
- (b) where a gauge is not specified by the vehicle manufacturer, of 0 gauge.

4 Sep 87 cV-2.1 Reg 10 s46.

Battery

47 The battery of the vehicle shall be:

- (a) securely mounted and free from leaks due to damage; and
- (b) if the battery is located in an enclosed area and is not a sealed battery, vented.

4 Sep 87 cV-2.1 Reg 10 s47; 19 May 2017 SR 42/2017 s27.

Frame

47.1 The frame of a vehicle must not be visibly cracked or weakened by corrosion or have loose or missing connecting fasteners that may degrade the safety of the vehicle or jeopardize its handling characteristics.

19 May 2017 SR 42/2017 s28.

Underbody

47.2 The underbody of a vehicle must not be visibly perforated by rust or otherwise damaged or have an opening other than those intended by the manufacturer of the vehicle.

19 May 2017 SR 42/2017 s28.

Frame of modified vintage vehicles

48 Where the vehicle is a modified vintage vehicle and the frame of the vehicle has been modified or specially fabricated, the frame of the vehicle shall support the vehicle, its load and the torque from the power source, under all operating conditions without distortion.

4 Sep 87 cV-2.1 Reg 10 s48.

Chassis fasteners of modified vintage vehicles

49 Every modified vintage vehicle shall have chassis fasteners that incorporate self-locking nuts, lock washers, cotter pins or safety wires.

4 Sep 87 cV-2.1 Reg 10 s49.

Bumpers

50(1) Every passenger car shall be equipped with front and rear bumpers and every other type A vehicle with a GVWR of 4500 kilograms or less shall be equipped with front bumpers that:

- (a) are securely mounted to the frame or chassis;
- (b) have a vertical surface of at least 100 millimetres; and
- (c) extend at least to the width of the original manufacturer's track width.

(2) On cars, the centre part of the bumper shall be between 380 and 560 millimetres above the ground when the vehicle is unloaded on level ground and tires are inflated within the range specified by the tire manufacturer.

(3) On type A vehicles with GVWR of 4500 kilograms or less, other than cars, the height of the lowest part of the bumper shall be not more than 750 millimetres above the road surface.

4 Sep 87 cV-2.1 Reg 10 s50.

Sharp edges

51 No type A vehicle, including any attached aerodynamic device, shall have rigid sharp edges of sheet metal, bumpers, fenders, molding or any other parts, except mirrors and lamps, that protrude more than 100 millimetres beyond the side of the vehicle when measured at its widest point.

4 Sep 87 cV-2.1 Reg 10 s51; 19 May 2017 SR
42/2017 s29.

Fenders or mudflaps

52(1) Subject to subsections (2) and (3), the vehicle shall have, for each tire, a fender, mudflap or body overhang that:

- (a) reduces the rearward projection of gravel, mud, water and snow from the tire;
- (b) is located so that the lowest point of the fender, mudflap or body overhang is above the ground a distance that is not greater than one-third of the horizontal distance from that point to the centre of the wheel; and
- (c) extends across the full width of the tire.

(2) The requirements of subsection (1) apply to wheels on steering axles only when the wheels are in the straight ahead position.

(3) Subsection (1) does not apply to a modified vintage vehicle when the vehicle is being operated on a dry, paved surface.

4 Sep 87 cV-2.1 Reg 10 s52; 6 Jne 2014 SR
46/2014 s.13.

Floor

53 The vehicle shall have a floor in the passenger compartment and trunk that is in sound condition and that prevents the entrance of exhaust fumes into the passenger compartment.

4 Sep 87 cV-2.1 Reg 10 s53.

Exits

54(1) The vehicle shall have at least two passenger compartment exits, located one on each side of the vehicle.

(2) One passenger exit may be a window with an opening of not less than 400 millimetres by 400 millimetres.

(3) A type A vehicle that is a bus must comply with the requirements of CMVSS 217 in effect at the time the vehicle was manufactured.

(4) A required exit on a bus must be operable and unobstructed at all times.

4 Sep 87 cV-2.1 Reg 10 s54; 19 May 2017 SR 42/2017 s30.

Door latch

55(1) The vehicle shall have a door latch on each door that, unless otherwise designed by the original vehicle manufacturer, provides a primary and secondary latch position.

(2) The locking mechanism of the latch shall unlock by hand from inside the vehicle and, when engaged, shall prevent the door from being opened from the outside of the vehicle except with a key or by means of a combination.

(3) Subsection (2) does not apply to a vehicle used by a police force or a vehicle that does not have a fully enclosed passenger compartment.

4 Sep 87 cV-2.1 Reg 10 s55.

Hood latch

56 If the vehicle is fitted with a front engine hood that is hinged at the rear, the vehicle shall have primary and secondary safety hood latches.

4 Sep 87 cV-2.1 Reg 10 s56.

Driver's seat

57(1) The vehicle shall have a seat for the driver that:

- (a) is designed and constructed in accordance with SAE Standard J879;
- (b) is securely anchored; and
- (c) provides the seated driver with a clear view of the road and reasonable access to all driving controls while the seat-belt is correctly worn.

(2) If the seat for the driver is adjustable, the adjustment mechanism shall secure the seat in all adjustment positions.

4 Sep 87 cV-2.1 Reg 10 s57.

Special seats

58(1) Rotating seats and seats that are designed to provide substantial free vertical movement, when installed in a vehicle manufactured or assembled after December 31, 1970, shall have:

- (a) seat-belt anchorage points that comply with CMVSS attached to the part of the seat that rotates or moves vertically; and
 - (b) a base or pedestal that withstands, with no permanent distortion, a force of 2200 kilograms applied horizontally in either a forward or rearward direction at the seat-belt anchorage points.
- (3) Seats other than those described in section 57 and this section shall be securely anchored and, if adjustable, capable of being secured in each adjustment position.

4 Sep 87 cV-2.1 Reg 10 s58.

59 Repealed. 6 Jne 2014 SR 46/2014 s14.

Seat-belts

60(1) Where the vehicle was manufactured or assembled after December 31, 1970, or where the vehicle has no doors or roof, it shall have seat-belt anchorage assemblies that meet the specifications of CMVSS 207, CMVSS 208 or CMVSS 209.

- (2) Each seat-belt assembly shall be readily accessible and maintained in operable condition for each seating position designed by the manufacturer as a normal seating position.
- (3) The seat-belt assembly shall:
- (a) have a buckle that is accessible to the occupant;
 - (b) have webbing that is not substantially frayed, split or torn and that has no broken or missing stitching; and
 - (c) be securely anchored to a suitably re-enforced point on the structure of the vehicle or, in the case of rotating seats and seats with substantial free movement, be anchored to the seat.
- (4) If the seat-belt assembly was manufactured after December 31, 1976, the buckle shall release with a single action.

4 Sep 87 cV-2.1 Reg 10 s60.

Supplemental restraints

60.1 If a vehicle is equipped with a supplemental occupant restraint system installed by the manufacturer of the vehicle, the supplemental occupant restraint system must be maintained in accordance with the manufacturer's specifications.

6 Jne 2014 SR 46/2014 s15.

Required seat-belts and warning system

61(1) Every type A-1 vehicle other than:

- (a) a convertible vehicle;
- (b) a truck; or
- (c) a multipurpose passenger vehicle;

shall have:

(d) where the vehicle was manufactured on or after January 1, 1971 but before January 1, 1974:

- (i) a lap seat-belt plus shoulder belt or lap-shoulder seat-belt assembly at each front outboard seat; and
- (ii) a lap belt, a lap belt plus shoulder belt or a lap-shoulder seat-belt assembly at each seat designed by the manufacturer as a normal seating position; and

(e) where the vehicle was manufactured on or after January 1, 1974:

- (i) a lap-shoulder seat-belt assembly at each front outboard seat designed by the manufacturer as a normal seating position; and
- (ii) a lap seat-belt or a lap-shoulder seat-belt at each seat designed by the manufacturer as a normal seating position.

(f) if the vehicle was manufactured on or after January 13, 1993:

- (i) a lap-shoulder seat-belt assembly at each front and rear outboard seat; and
- (ii) a lap seat-belt assembly at each seat other than the ones mentioned in subclause (i) designed by the vehicle manufacturer as a normal seating position;

(g) if the vehicle was manufactured on or after September 1, 2015:

- (i) a lap-shoulder seat-belt assembly at each front and rear outboard designated seating position and at each rear inboard designated seating position;
- (ii) a lap seat-belt assembly at each seat other than the ones mentioned in subclause (i) designed by the vehicle manufacturer as a normal seating position.

(2) Every type A-1 vehicle that is:

- (a) a truck with a GVWR of less than 4 536 kilograms; or
- (b) a multipurpose passenger vehicle with a GVWR of less than 4 536 kilograms;

shall have:

- (c) where the vehicle was manufactured on or after January 1, 1972 but before April 1, 1976 a lap seat-belt assembly at each seat designed by the manufacturer as a normal seating position;
 - (d) where the vehicle was manufactured on or after April 1, 1976:
 - (i) a lap-shoulder seat-belt assembly at each front outboard seat; and
 - (ii) a lap seat-belt assembly at each seat other than one mentioned in clause (i) designed by the manufacturer as a normal seating position.
 - (e) if the vehicle was manufactured on or after January 13, 1993:
 - (i) a lap-shoulder seat-belt assembly at each front and rear outboard seat; and
 - (ii) a lap seat-belt assembly at each seat other than the ones mentioned in subclause (i) designed by the vehicle manufacturer as a normal seating position.
- (3) Every type A-1 vehicle that is a convertible must have:
- (a) if the vehicle was manufactured on or after January 1, 1971, a lap seat-belt at each seat designed by the vehicle manufacturer as a normal seating position; and
 - (b) if the vehicle was manufactured on or after January 13, 1993:
 - (i) a lap-shoulder seat-belt assembly at each front and rear outboard seat; and
 - (ii) a lap seat-belt assembly at each seat other than the ones mentioned in subclause (i) designed by the vehicle manufacturer as a normal seating position.
- (4) Every type A-1 vehicle with a GVWR greater than 4 536 kilograms and every type A-2 vehicle manufactured on or after July 1, 1972, other than a bus, must have a lap seat-belt assembly at each seat designed by the vehicle manufacturer as a normal seating position.
- (5) Every type A-2 vehicle manufactured on or after July 1, 1972 that is a bus shall have a lap seat belt assembly at the driver's seat.
- (6) Where a vehicle is required by this section to be equipped with a lap seat-belt assembly, the vehicle may be equipped with a lap plus shoulder seat-belt assembly or lap-shoulder seat-belt assembly.
- (7) A vehicle to which this Part applies that was manufactured on or after January 1, 1976, shall be equipped with a warning system to warn the driver to use the seat-belt assembly that consists of an audible signal and a visible warning light that come on and remain on for a period of not less than four seconds when:
- (a) the ignition switch is moved to the "on" position;

- (b) the ignition switch is moved to the “start” position; or
- (c) the vehicle’s engine is operating and the transmission gear selector is in the forward position.

4 Sep 87 cV-2.1 Reg 10 s61; 6 Jne 2014 SR
46/2014 s16.

62 Repealed. 19 Mar 93 SR 20/93 s5.

63 Repealed. 19 Mar 93 SR 20/93 s6.

Child or infant restraint system

63.1(1) In this section:

- (a) **“booster seat”** means a removable device designed to be used in a vehicle for seating a person whose mass is at least 18 kilograms, to ensure that the seat-belt assembly fits properly;
- (b) **“child”** means a person who weighs more than nine kilograms but less than 30 kilograms;
- (c) **“infant”** means a person who weighs less than 16 kilograms;
- (d) **“lower universal anchorage system”** means a device, other than a vehicle seat belt, that is designed to secure the lower portion of a restraint system or booster seat to a vehicle, and that transfers the load from the restraint system or booster seat and its occupant to the vehicle structure or a vehicle seat structure;
- (e) **“restraint system”** means a removable device designed to be used together with the seat of a vehicle in order to restrain an infant or child, but does not include a booster seat, lap-belt, shoulder-belt plus lap-belt or lap-shoulder seat-belt assembly.

(2) Any child or infant restraint system that is occupied by a passenger must:

- (a) in the case of an infant restraint system, conform to and be maintained in accordance with the applicable standards set out in Part 3, CMVSS 213.1;
- (b) in the case of a child restraint system, conform to and be maintained in accordance with the applicable standards set out in Part 2, CMVSS 213;
- (c) face the direction stated by the manufacturer and be positioned and secured in the vehicle in accordance with the manufacturer’s instructions; and
- (d) bear a national safety mark and a manufacturer label affixed to the restraint system stating:
 - (i) that it meets CMVSS 213 or CMVSS 213.1 at the time of manufacture;
 - (ii) the weight and height of the child or infant for which it is designed;
 - (iii) how it is to be installed;
 - (iv) which direction it is to face when placed or installed on the seat of the vehicle; and
 - (v) the name and principal place of business of the person by whom or for whom the infant or child restraint system is manufactured.

- (3) Any booster seat that is occupied by a passenger must:
- (a) conform to and be maintained in accordance with the applicable standards set out in Part 4, CMVSS 213.2;
 - (b) be positioned and secured in the vehicle in accordance with the manufacturer's instructions; and
 - (c) bear a national safety mark and a manufacturer label affixed to the booster seat stating:
 - (i) that it meets CMVSS 213.2 at the time of manufacture;
 - (ii) the weight and height of the child for which it is designed;
 - (iii) how it is to be installed; and
 - (iv) the name and principal place of business of the person by whom or for whom the booster seat is manufactured.
- (4) Any child or infant restraint system occupied by a passenger in a vehicle manufactured after September 1, 2004 must be anchored using:
- (a) a combination of a CMVSS 209 compliant seat-belt assembly and a tether assembly attached to a CMVSS 210.1 compliant tether anchorage assembly; or
 - (b) a CMVSS 210.2 compliant lower universal anchorage system and a tether assembly attached to a CMVSS 210.1 compliant tether anchorage assembly.
- (5) Any booster seat occupied by a passenger in a vehicle manufactured after September 1, 2014 must be secured using:
- (a) a CMVSS 209 compliant seat belt; or
 - (b) a CMVSS 210.2 compliant lower universal anchorage system.
- (6) A child or infant restraint system or booster seat may not be placed in a three-wheeled vehicle unless that vehicle complies with the static and dynamic crash testing requirements set out in CMVSS 208.

6 Jne 2014 SR 46/2014 s17; 17 Jne 2016 SR
41/2016 s6.

Windshield and side windows

- 64(1)** The vehicle shall have a windshield that is of laminated safety glass conforming to ANSI Z26.1, type AS-1 or AS-10 and is so marked.
- (2) The windshield shall be in a generally vertical position.
- (3) The windshield shall:
- (a) be large enough to provide the driver with a clear view of the road;
 - (b) be free of decals and damage greater than 13 millimetres in diameter in the area swept by the windshield wipers; and
 - (c) not have coatings of sunscreen or reflective material other than that applied by the glass manufacturer.

- (4) The windshield must not have any crack that goes through both layers of glass or that extends more than 50 millimetres into the area swept by the windshield wipers.
- (5) The windshield shall not have more than 10% of the total area discoloured or damaged.

4 Sep 87 cV-2.1 Reg 10 s64; 19 May 2017 SR
42/2017 s31.

Prohibition re sale of certain windshields

65 No person shall sell or offer for sale a windshield for a type A vehicle that is not laminated safety glass conforming to the requirements of ANSI type AS-1 or AS-10 and marked accordingly.

4 Sep 87 cV-2.1 Reg 10 s65.

Side windows

- 66(1)** The vehicle shall have at least two side windows or openings that are located on either side of the driver so that the driver has a clear view to the sides.
- (2) If the side openings are fitted with glass, the glass shall conform to ANSI type AS-1, AS-2, AS-10 or AS-11.
- (3) The glass shall not have coatings of sunscreen or reflective material other than that applied by the glass manufacturer.
- (4) Glass installed in passenger compartment windows, other than those described in subsection (1), shall conform to ANSI AS 1 to AS 12 or be DOT approved and be safety glass.

4 Sep 87 cV-2.1 Reg 10 s66.

Mirrors

- 67(1)** A vehicle other than a modified vintage vehicle, shall have at least two rear-view mirrors.
- (2) The mirrors shall:
 - (a) be located one on the left side and one either on the right side or in the interior;
 - (b) provide the driver with a clear view to the rear;
 - (c) be securely mounted; and
 - (d) be adjustable;

- (3) An interior mirror, and a left hand exterior mirror on a type A-1 vehicle, shall have at least 6000 millimetres² of effective area or the area of mirror installed by the manufacturer, whichever is less.
- (4) A right hand exterior mirror on a vehicle other than a type A-2 vehicle shall have at least 10000 millimetres² of effective area where it is a mirror other than one installed by the manufacturer.
- (5) An exterior mirror on a type A-2 vehicle shall have at least 20000 millimetres² of effective area.
- (6) A modified vintage vehicle shall have at least one mirror that provides the driver with a clear view to the rear.

4 Sep 87 cV-2.1 Reg 10 s67.

Windshield wiper

68(1) Subject to subsection (2), the vehicle shall have at least one powered windshield wiper that:

- (a) sweeps at least 70% of the total area of the windshield or that area specified by the original manufacturer of the vehicle, whichever is less;
 - (b) has a sweep rate of at least 30 cycles per minute; and
 - (c) conforms to SAE standard S903C.
- (2) The windshield wiper shall be maintained so that the blade effectively clears the windshield of moisture.
- (3) Subsection (1) does not apply to a modified vintage vehicle on which a powered windshield wiper was not installed by the original manufacturer when the vehicle is not operated in the rain.

4 Sep 87 cV-2.1 Reg 10 s68.

Defroster or frost shields

69(1) Subject to subsection (2), the vehicle shall have frost shields or a defrosting or defogging device that:

- (a) maintains at least 90% of the windshield area swept by the windshield wipers free of fog or frost; and
 - (b) maintains the windows on either side of the driver free of fog or frost so that the driver has a clear view to the sides and of the exterior rear-view mirror.
- (2) Subsection (1) does not apply to a modified vintage vehicle when it is being operated at any temperature above 0° Celsius.

4 Sep 87 cV-2.1 Reg 10 s69.

Sun shield

70(1) The vehicle shall have at least one adjustable sun shield with effective dimensions of at least 100 millimetres by 250 millimetres for the driver.

- (2) Any exterior sun shield that extends more than 150 millimetres below the upper edge of the windshield must not overlap any portion of the windshield swept by the OEM wiper arm and wiper blade.
- (3) Subsection (1) does not apply to a modified vintage vehicle or three-wheeled vehicle on which a sun shield was not installed by the original manufacturer.
- (4) A three-wheeled vehicle not equipped with a windshield is exempt from subsection (1) if the operator and passengers comply with section 6.1.

19 May 2017 SR 42/2017 s32.

Tires

- 71(1) The vehicle shall have tires that complied with CMVTSS at the time of manufacture.
- (2) The tires shall be inflated to a pressure within the range specified by the original equipment manufacturer and the tire manufacturer for the load being carried and must be free from any noticeable leaks.
- (3) The tires shall:
 - (a) be free of cuts or cracks in the side wall are that are greater than 25.60 millimetres in length extending to the cord;
 - (b) have no visible bulges indicating structural failure; and
 - (c) have no exposed ply material.
- (4) The tires on the steering axle of a type A-2 vehicle shall not be retreaded tires, unless the tires on that axle are of a type that cannot be transferred to another axle of the vehicle.
- (5) Except in the case of a tire specifically designed and used as a spare, tires of the same dimensions and construction shall be installed on opposite ends of the same axle.
- (6) Tires shall have a tread depth, when measured at each of two adjacent grooves located at any three points equally spaced around the circumference of the tire, of at least:
 - (a) 1.60 millimetres on all tires of a type A-1 vehicle;
 - (b) 2.0 millimetres on the front tires of a type A-2 vehicle; and
 - (c) 1 millimetre on the rear tires of a type A-2 vehicle.
- (7) A four-wheel vehicle that has bias ply tires on the rear axle shall also have bias ply tires on front wheels.
- (8) The sidewall of the tire shall be permanently marked with the size, maximum inflation pressure, maximum load rating and, in the case of a radial tire, the construction type.
- (9) Dual tires shall have diameters that are matched within 13 millimetres.

(10) Notwithstanding subsection (4), the administrator may approve the use of retreaded tires on a steering axle.

(11) Subsection (5) and (7) do not apply to a tire that is specifically designed and used as a spare.

4 Sep 87 cV-2.1 Reg 10 s71; 19 May 2017 SR
42/2017 s33.

Wheels

72 The wheels of the vehicle shall not:

- (a) be cracked, excessively bent or repaired by welding unless the weld is done in a manner and in accordance with standards approved by the administrator.
- (b) have loose or missing wheel studs or nuts; and
- (c) have stud holes that are elongated.

4 Sep 87 cV-2.1 Reg 10 s72; 8 Nov 96 SR 86/96
s2.

Trailer hitch

73(1) Where the vehicle is fitted with a trailer hitch, the trailer hitch shall have rated capacity equal to or greater than the GVW of any vehicle or vehicles being towed.

(2) The trailer hitch shall be:

- (a) securely mounted directly to a structural member of the motor vehicle; and
- (b) constructed so that it does not interfere with the universal action of the coupling device.

(3) The trailer hitch shall cause the towed vehicle to track, on level ground, without deviating from a straight line by more than 300 millimetres.

(4) When not in use, the trailer hitch shall not extend beyond the bumper of the vehicle more than 225 millimetres.

(5) If the trailer hitch is a ball type hitch, it shall have a ball diameter and shank that respectively are not less than:

- (a) 47 millimetres and 25.60 millimetres when the vehicle is towing a trailer with a GVW of not more than 900 kilograms;
- (b) 51.20 millimetres and 25.60 millimetres when the vehicle is towing a trailer with a GVW of more than 900 kilograms and not more than 2270 kilograms;
- (c) 58 millimetres and 34 millimetres when the vehicle is towing a trailer with a GVW of more than 2270 kilograms and not more than 4540 kilograms.

(6) When the trailer hitch is on a car, it shall be of a load distributing design where the trailer has a GVW in excess of 1600 kilograms.

4 Sep 87 cV-2.1 Reg 10 s73; 19 May 2017 SR
42/2017 s34.

Gooseneck hitch

74 Where the vehicle is a type A-1 vehicle towing a trailer with a gooseneck hitch, the hitch coupler shall be located over or forward of the rear axle of the vehicle.

4 Sep 87 cV-2.1 Reg 10 s74.

Fifth wheel hitch

75 Where the vehicle is fitted with a fifth wheel, the fifth wheel shall have:

- (a) a plate that is securely mounted;
- (b) a locking device that prevents separation of the fifth wheel and the semi-trailer king pin; and
- (c) lubrication between the fifth wheel and the upper fifth plate of the semi-trailer.

4 Sep 87 cV-2.1 Reg 10 s75.

PART IV
Type A-3 Vehicles

Application of Part

76(1) The requirements of this Part apply only to type A-3 vehicles.

(2) Every type A-3 vehicle driven on a highway shall be equipped in accordance with this Part.

(3) Notwithstanding subsection (2), the administrator may approve for use on a highway a type A-3 vehicle that does not comply with this Part.

4 Sep 87 cV-2.1 Reg 10 s76.

CMVSS standards apply

77 Every school bus shall comply with the appropriate CMVSS for a bus, chassis cab or van, and bear a label of compliance.

4 Sep 87 cV-2.1 Reg 10 s77.

CSA standards apply

78(1) Every vehicle that is registered as a school bus must be equipped and maintained in accordance with the requirements of the edition of CSA D250 in effect at the time the vehicle was manufactured.

(2) Notwithstanding subsection (1), if the requirements of the applicable edition of CSA D250 are different from any of the requirements of this Part, the requirements of this Part prevail.

6 Jne 2014 SR 46/2014 s18.

79 Repealed. 6 Jne 2014 SR 46/2014 s19.

80 Repealed. 6 Jne 2014 SR 46/2014 s19.

81 Repealed. 6 Jne 2014 SR 46/2014 s19.

82 Repealed. 6 Jne 2014 SR 46/2014 s19.

83 Repealed. 6 Jne 2014 SR 46/2014 s19.

84 Repealed. 6 Jne 2014 SR 46/2014 s19.

85 Repealed. 6 Jne 2014 SR 46/2014 s19.

86 Repealed. 6 Jne 2014 SR 46/2014 s19.

87 Repealed. 6 Jne 2014 SR 46/2014 s19.

First aid kit

88(1) The vehicle shall have an emergency first aid kit that is:

- (a) easily accessible to the driver;
- (b) clearly visible to the passengers or in a location indicated by a sign that is clearly visible to the passengers; and
- (c) in a sealed package.

(2) The emergency first aid kit must be the first aid kit:

- (a) distributed by Safeco and called "Laerdal: The Car Behind" or its equivalent; or
- (b) prescribed in CSA D250 at the time the vehicle was manufactured or the more recent edition of this standard.

4 Sep 87 cV-2.1 Reg 10 s88; 6 Jne 2014 SR 46/2014 s20.

Flares

89 The vehicle shall have three flares in suitable containers.

4 Sep 87 cV-2.1 Reg 10 s89.

Warning system

90(1) A type A-3 vehicle must be equipped with an advance warning system that complies with the requirements of CSA 250 in effect at the time the vehicle was manufactured.

(2) A type A-3 vehicle manufactured on or after November 1, 2016 must be equipped with a warning lamp system consisting of four amber lamps and four red lamps.

(3) A type A-3 vehicle manufactured before November 1, 2016 may be equipped with an all-red warning lamp system.

17 Jne 2016 SR 41/2016 s8.

Stop arm

91 The vehicle must be equipped and maintained with a stop arm that meets the CMVSS 131 requirements in effect at the time the vehicle was manufactured.

6 Jne 2014 SR 46/2014 s22.

Pedestrian-student gate

91.1 If the vehicle was manufactured on or after May 1, 2007, it must be equipped with a pedestrian-student safety crossing gate that meets the requirements of CSA D250 in effect at the time the vehicle was manufactured.

6 Jne 2014 SR 46/2014 s22.

Paint

92 The vehicle chassis and body must be painted in accordance with the requirements of CSA D250 in effect at the time the vehicle was manufactured

6 Jne 2014 SR 46/2014 s23.

Identification and messages

93(1) The vehicle must have identification lettering that consists of the words "SCHOOL BUS" on the front and rear of the vehicle and that meets the requirements of CSA D250 in effect at the time the vehicle was manufactured.

(2) The vehicle must bear the message "DO NOT PASS WHEN RED LIGHTS FLASHING" on the rear of the vehicle on a contrasting white background, painted in accordance with the requirements of CSA D250 in effect at the time the vehicle was manufactured.

6 Jne 2014 SR 46/2014 s24.

Emergency door to be marked

94 The emergency door shall be indicated by the words "EMERGENCY DOOR" on the upper part of the door, on both the inside and the outside, in black letters at least 51.20 millimetres high.

4 Sep 87 cV-2.1 Reg 10 s94.

Warning message re stops

95(1) The vehicle shall display the message "THIS SCHOOL BUS STOPS AT ALL UNCONTROLLED RAILWAY CROSSINGS" on a reflective decal as described by Canadian General Standard Board Standard 62-GP level 2 for marking material.

(2) The message shall be located on the rear of the vehicle, above the bumper, as low as practicable.

(3) The message shall be:

(a) in red retroreflective letters that are at least 51.20 in height; and

(b) on a yellow retroreflective background 450 millimetres wide and 200 millimetres high.

4 Sep 87 cV-2.1 Reg 10 s95; 30 Oct 98 SR 81/98 s2.

96 Repealed. 6 Jne 2014 SR 46/2014 s25.

Tools to be secure

97 The vehicle shall have a container or attachment device that secures all tools and equipment carried on the vehicle.

4 Sep 87 cV-2.1 Reg 10 s97.

98 Repealed. 6 Jne 2014 SR 46/2014 s26.

99 Repealed. 6 Jne 2014 SR 46/2014 s26.

100 Repealed. 6 Jne 2014 SR 46/2014 s26.

101 Repealed. 6 Jne 2014 SR 46/2014 s26.

102 Repealed. 6 Jne 2014 SR 46/2014 s26.

103 Repealed. 6 Jne 2014 SR 46/2014 s26.

104 Repealed. 6 Jne 2014 SR 46/2014 s26.

105 Repealed. 6 Jne 2014 SR 46/2014 s26.

106 Repealed. 6 Jne 2014 SR 46/2014 s26.

107 Repealed. 6 Jne 2014 SR 46/2014 s26.

108 Repealed. 6 Jne 2014 SR 46/2014 s26.

109 Repealed. 6 Jne 2014 SR 46/2014 s26.

110 Repealed. 6 Jne 2014 SR 46/2014 s26.

111 Repealed. 6 Jne 2014 SR 46/2014 s26.

112 Repealed. 6 Jne 2014 SR 46/2014 s26.

113 Repealed. 6 Jne 2014 SR 46/2014 s26.

114 Repealed. 6 Jne 2014 SR 46/2014 s26.

115 Repealed. 6 Jne 2014 SR 46/2014 s26.

116 Repealed. 6 Jne 2014 SR 46/2014 s26.

117 Repealed. 6 Jne 2014 SR 46/2014 s26.

118 Repealed. 6 Jne 2014 SR 46/2014 s26.

119 Repealed. 6 Jne 2014 SR 46/2014 s26.

120 Repealed. 6 Jne 2014 SR 46/2014 s26.

121 Repealed. 6 Jne 2014 SR 46/2014 s26.

122 Repealed. 6 Jne 2014 SR 46/2014 s26.

123 Repealed. 6 Jne 2014 SR 46/2014 s26.

124 Repealed. 6 Jne 2014 SR 46/2014 s26.

125 Repealed. 6 Jne 2014 SR 46/2014 s26.

Seat belt anchorages

126 If the seats are fitted with seat belts, the seats shall have anchorage points that are of a design that has been approved by the administrator.

4 Sep 87 cV-2.1 Reg 10 s126.

127 Repealed. 6 Jne 2014 SR 46/2014 s27.

128 Repealed. 6 Jne 2014 SR 46/2014 s27.

129 Repealed. 6 Jne 2014 SR 46/2014 s27.

130 Repealed. 6 Jne 2014 SR 46/2014 s27.

131 Repealed. 6 Jne 2014 SR 46/2014 s27.

132 Repealed. 6 Jne 2014 SR 46/2014 s27.

133 Repealed. 6 Jne 2014 SR 46/2014 s27.

134 Repealed. 6 Jne 2014 SR 46/2014 s27.

135 Repealed. 6 Jne 2014 SR 46/2014 s27.

136 Repealed. 6 Jne 2014 SR 46/2014 s27.

137 Repealed. 6 Jne 2014 SR 46/2014 s27.

138 Repealed. 6 Jne 2014 SR 46/2014 s27.

139 Repealed. 6 Jne 2014 SR 46/2014 s27.

Fire extinguisher

140 The vehicle must be equipped with a fire extinguisher of a type approved by CSA, UL, FM or ULC and labelled accordingly and rated:

- (a) on vehicles manufactured before January 1, 2000, 2A10BC; and
- (b) on vehicles manufactured on or after January 1, 2000, 3A40BC.

6 Jne 2014 SR 46/2014 s28.

141 Repealed. 6 Jne 2014 SR 46/2014 s29.

142 Repealed. 6 Jne 2014 SR 46/2014 s29.

143 Repealed. 6 Jne 2014 SR 46/2014 s29.

144 Repealed. 6 Jne 2014 SR 46/2014 s29.

Tire tread depth

145 The tires of the vehicle shall have a tread depth of not less than:

- (a) 3.20 millimetres on the front tires; and
- (b) 1.60 millimetres on the rear tires.

4 Sep 87 cV-2.1 Reg 10 s145.

PART V
Type V Vehicles

Application of Part

146(1) The requirements of this Part apply only to type V vehicles.

(2) Every type V vehicle driven on a highway shall be equipped in accordance with this Part.

(3) Notwithstanding subsection (2), the administrator may approve for use on a highway a type V vehicle that does not comply with this Part.

4 Sep 87 cV-2.1 Reg 10 s146.

Throttle return

147(1) Subject to subsection (2), the vehicle shall have a throttle return device that returns the throttle to the idle position on release of the driver control.

(2) This section applies only where a throttle return device is fitted on the vehicle by the manufacturer.

4 Sep 87 cV-2.1 Reg 10 s147.

Fuel system

148 The fuel lines, fuel filler pipes and permanently mounted fuel tanks of the vehicle shall be secure and free from leaks.

4 Sep 87 cV-2.1 Reg 10 s148.

Exhaust system

149 Where the vehicle is powered by an internal combustion engine, it shall have an exhaust system that:

- (a) discharges exhaust away from the passenger compartment;
- (b) does not pass through the passenger compartment;
- (c) is free from leaks; and
- (d) does not expose any fuel, electrical or brake lines or any combustible material to excessive heat.

4 Sep 87 cV-2.1 Reg 10 s149.

Suspension system

150 The suspension system of the vehicle shall:

- (a) prevent contact between the wheels and chassis; and
- (b) permit vertical movement of the chassis in relation to the wheel assembly.

4 Sep 87 cV-2.1 Reg 10 s150.

Brake system

151 The brake system of the vehicle shall stop the vehicle on a dry, smooth and level paved road within a distance of 16 metres from a speed of 30 kilometres per hour.

4 Sep 87 cV-2.1 Reg 10 s151.

Steering system

152(1) The steering box and steering column shall not:

- (a) be loose; or
- (b) have loose or missing fasteners.

(2) The front wheels shall turn from extreme left to extreme right without contacting any non-rotating component.

4 Sep 87 cV-2.1 Reg 10 s152.

Horn

153 The vehicle shall have a horn or other device that is within easy reach of the operator and that emits a sound audible, under normal conditions, from a distance of at least 40 metres.

4 Sep 87 cV-2.1 Reg 10 s153.

Vehicle identification number

154 The vehicle shall have a vehicle identification number that is sunk into or embossed on a part of the vehicle that is not designed to be removed.

4 Sep 87 cV-2.1 Reg 10 s154.

Headlamps

155 The vehicle shall have at least two headlamps that emit a white light and illuminate a 1000 millimetres by 300 millimetres gray object from a distance of 20 metres.

4 Sep 87 cV-2.1 Reg 10 s155.

Tail lamps

156 The vehicle shall have at least one tail lamp that is located at the rear, emits a red light and is visible from a distance of 200 metres on a clear night.

4 Sep 87 cV-2.1 Reg 10 s156.

Brake lamps

157(1) The vehicle shall have at least one brake lamp that is located at the rear and emits a red light visible from a distance of 60 metres on a clear night.

(2) The brake lamp shall be activated by the application of the brakes.

4 Sep 87 cV-2.1 Reg 10 s157.

Exception re lamps

158 Sections 155 to 157 do not apply to type V vehicles that were not equipped with the lamps mentioned in those sections by the manufacturer when the vehicle is not operated on a highway between one-half hour before sunset and one-half hour after sunrise.

4 Sep 87 cV-2.1 Reg 10 s158; 19 May 2017 SR 42/2017 s35.

Reflectors

159 The vehicle shall have at least two red reflectors or reflective tapes that are located at the rear and are visible from a distance of 60 metres when illuminated by type A vehicle headlamps on a clear night.

4 Sep 87 cV-2.1 Reg 10 s159.

Seats

160(1) The vehicle shall have a driver's seat that is securely anchored and affords the seated operator a clear view of the road and access to all driving controls.

(2) All seats for passengers shall be securely anchored unless otherwise installed by the manufacturer.

4 Sep 87 cV-2.1 Reg 10 s160.

Windshield

161 Where the vehicle was equipped with a windshield by the manufacturer, the windshield shall be of safety glass or other material approved by the administrator, and afford the driver a clear view of the road.

4 Sep 87 cV-2.1 Reg 10 s161.

Passenger compartment side windows

162(1) If the passenger compartment of the vehicle has side windows, they shall be of safety glass or other shatter-resistant material.

(2) The vehicle shall have windows or openings on each side that provide the driver with a clear view to the sides.

4 Sep 87 cV-2.1 Reg 10 s162.

Mirror

163 The vehicle shall have at least one mirror that provides the driver with a clear view to the rear.

4 Sep 87 cV-2.1 Reg 10 s163.

Windshield wiper

164 The vehicle shall have at least one functional windshield wiper for the driver's side of the windshield if the vehicle is operated in the rain.

4 Sep 87 cV-2.1 Reg 10 s164.

Tires

165 The vehicle shall have tires that have cords that are not damaged in the sidewall area or exposed in the tread area.

4 Sep 87 cV-2.1 Reg 10 s165.

Wheels

166 The wheels of the vehicle shall not:

- (a) be cracked or excessively bent or field welded;
- (b) have loose or missing wheel studs or nuts; and
- (c) have stud holes that are elongated.

4 Sep 87 cV-2.1 Reg 10 s166.

PART VI
Type T Vehicles

Application of Part

167(1) The requirements of this Part apply only to type T vehicles.

(2) Every type T vehicle used on a highway shall be equipped in accordance with this Part.

(3) Notwithstanding subsection (2), the administrator may approve for use on a highway a type T vehicle that does not comply with this Part.

4 Sep 87 cV-2.1 Reg 10 s167.

Certain weights and combinations prohibited

168(1) The weight of a trailer and its load or a combination of trailers and their loads, shall not exceed:

- (a) in the case of a type T-1 vehicle with a gooseneck hitch, a fifth wheel or a weight distributing hitch, twice the GVWR of the towing vehicle; or
- (b) in the case of a ball hitch, the GVWR of the towing vehicle.

(2) Unless otherwise permitted by the administrator, a combination consisting of a motor vehicle on a highway towing two type T vehicles may only be operated if:

- (a) the lead type T vehicle is a semi-trailer, a gooseneck trailer or has two or more axles in tandem; and
- (b) the gross vehicle weight of the lead conveyance is equal to or greater than that of the trailer being towed.

(3) A combination consisting of a motor vehicle on a highway towing three or more type T vehicles may only be operated with the approval of the administrator and under the terms and conditions specified by the administrator.

(4) A combination consisting of a motor vehicle on a highway towing a type T-1 single or tandem axle vehicle may only be operated where the vertical load applied by the hitch is more than 7% and less than 18% of the total weight of the towed vehicle and its load.

(5) Subsection (4) does not apply to a full trailer equipped with a drawbar coupler type hitch.

4 Sep 87 cV-2.1 Reg 10 s168; 6 Jne 2014 SR
46/2014 s30; 19 May 2017 SR 42/2017 s36.

Axles

169 Where the vehicle was manufactured on or after January 1, 1986, each axle of the vehicle shall be permanently labelled to show:

- (a) the assembler's name or identification; and
- (b) the GAWR of each axle.

4 Sep 87 cV-2.1 Reg 10 s169.

Certain axles prohibited

170 A combination consisting of a motor vehicle on a highway towing a type T-1 vehicle that was manufactured on or after January 1, 1986 shall not be equipped with an axle or suspension designed for the transportation of mobile homes and known as a "single use" axle or "mobile home" axle.

4 Sep 87 cV-2.1 Reg 10 s170.

Steering axle

171 Where any axle or axles on a type T-2 vehicle are spaced more than two metres from any adjacent axle on the same vehicle, one or more of the axles shall be a steering axle or there shall be a point of vehicle articulation between the axles.

4 Sep 87 cV-2.1 Reg 10 s171.

Suspension

172 The vehicle shall have a suspension system that:

- (a) supports the vehicle so that it is approximately level across its width when the vehicle is unloaded and on a level surface;
- (b) allows each wheel to move vertically in relation to the body of the vehicle;
- (c) allows no more than 300 millimetres deviation from a straight line when towed by a vehicle travelling in a straight line on a level surface; and
- (d) has no broken or field welded spring leaves or spring coils and no bent, cracked, broken or disconnected U-bolts, centre bolts, mounting shackles, stabilizers, radius rods or equalizers.

4 Sep 87 cV-2.1 Reg 10 s172.

Axle and suspension loads

173 Except where the administrator or the Department of Highways and Transportation otherwise approves, the loading on any axle of a type T vehicle shall not exceed the GAWR.

4 Sep 87 cV-2.1 Reg 10 s173.

Brake system

174(1) A vehicle that:

- (a) is a type T-1 or type T-2 vehicle;
- (b) has a GVWR of more than 1360 kilograms; or
- (c) has a GVWR that exceeds the GVWR of the towing vehicle by more than 50%;

shall have a brake system that:

- (d) applies braking on wheels on opposite ends of at least one axle, if the vehicle was manufactured before 1985;
- (e) applies braking on wheels on opposite ends of all axles, if the vehicle was manufactured in or after 1985.

(1.1) Notwithstanding subsection (1), every type T-2 vehicle with a GVWR of 4 536 kilograms or greater manufactured on or after April 1, 2000 must be equipped with an antilock brake system that complies with the requirements of CMVSS 121.

(1.2) Subsection (1.1) does not apply to a type T-2 vehicle that:

- (a) has a width of more than 2.6 metres with any extendable equipment in the fully retracted position and that is equipped with two short-track axles in a line across the vehicle's width;
- (b) has an axle with a GVWR of 13 154 kilograms or greater;
- (c) has a GVWR of more than 54 432 kilograms with either:
 - (i) brake lines that are designed to adapt to separation or extension of the vehicle frame; or
 - (ii) a body that consists of only a platform, with or without removal sides or a permanent front end structure, as the cargo-carrying surface that is not more than 101.6 centimetres above the ground in an unloaded condition;
- (d) has an unloaded GVW that is not less than 95% of the vehicle's GVWR; or
- (e) is a load divider dolly.

(2) The brake system shall automatically activate the brakes in the case of a break-away from the towing vehicle without affecting the brakes of the towing vehicle.

(3) Where the vehicle has a GVWR of more than 2800 kilograms and is fitted with electric brakes or, where the vehicle has a GVWR of more than 3700 kilograms and is fitted with non-electric brakes, the brake system shall be activated by means of the brake pedal of the towing vehicle.

- (4) The service brake shall be adjusted so as to apply braking as nearly equal as practicable on the wheels on the opposite ends of the same axle.
- (5) The brake system shall be maintained so that the service brakes and, where fitted, parking brakes function as designed and have no components that are insecure, misaligned, excessively worn or broken.
- (6) A type T-2 vehicle shall have a parking brake that:
 - (a) holds the vehicle on a 15% grade with the vehicle facing either up or down the grade while fully loaded; and
 - (b) has a means of application that cannot be released unless it can be immediately re-applied.
- (7) The brake linings and pads shall not be loose, broken or contaminated by petroleum products.
- (8) The brake system friction material must not be worn in excess of the lesser of:
 - (a) the wear limit recommended by the manufacturer; and
 - (b) in the case of:
 - (i) a type T-1 vehicle and T-3 vehicle equipped with an electric or hydraulic brake system, 2.0 millimetres of remaining friction material, measured at the thinnest part, from the base of the bonded friction material or above the rivet or bolt head of non-bonded friction material;
 - (ii) a type T-2 vehicle and T-3 vehicle equipped with an air brake drum system and bonded or continuous strip brake shoe lining, 5.0 millimetres of remaining lining when measured at the centre of the shoe or 1.0 millimetres of remaining lining when measured at the thinnest point;
 - (iii) a type T-2 vehicle and T-3 vehicle equipped with an air brake drum system and block type brake shoe lining, 7.0 millimetres of remaining lining when measured at the centre of the shoe or 1.0 millimetres of remaining lining when measured at the thinnest point; or
 - (iv) a type T-2 vehicle and type T-3 vehicle equipped with an air disc brake system, 2.0 millimetres of remaining friction material when measured at the thinnest point.
- (9) Brake rotors must not be worn in excess of the lesser of the wear limit recommended by the manufacturer and:
 - (a) for a vehicle equipped with a brake rotor less than 305 millimetres in diameter, a reduction of 2.25 millimetres from the original thickness of the rotor; or
 - (b) for a vehicle equipped with a brake rotor of 305 millimetres in diameter or greater, a reduction of 3.00 millimetres from the original thickness of the rotor.

- (9.1) The measured brake drum diameter must not exceed the lesser of the wear limits indicated on the brake drum and:
- (a) for a vehicle equipped with a nominal brake drum size of 350 millimetres or less, 2.3 millimetres more than the original drum diameter; or
 - (b) for a vehicle equipped with a nominal brake drum greater than 350 millimetres, 3.0 millimetres more than the original drum diameter.
- (10) The brake drums or rotors shall not have been machined in excess of the limit recommended by the manufacturer as marked on the disk or drum, or where not so marked, in excess of:
- (a) 1.50 millimetres in the case of drums 280 millimetres in diameter or less;
 - (b) 2.25 millimetres in the case of drums between 280 and 320 millimetres in diameter;
 - (c) 3.00 millimetres in the case of drums over 320 millimetres in diameter;
 - (d) 1.50 millimetres in the case of disks with a diameter of 305 millimetres or less;
 - (e) 2.25 millimetres in the case of disks over 305 millimetres in diameter.
- (11) If the drum brakes were manufactured after 1980, they shall have a means of adjusting the brakes without removing the drums.

4 Sep 87 cV-2.1 Reg 10 s174; 6 Jne 2014 SR
46/2014 s31; 19 May 2017 SR 42/2017 s37.

175 Repealed. 6 Jne 2014 SR 46/2014 s32.

Electric brakes

- 176(1)** Where the vehicle is equipped with electric brakes, the brake system shall:
- (a) have electrical lines that are designed, constructed and maintained in accordance with good engineering practices; and
 - (b) meet the requirements of SAE J1292.
- (2) The electric brake system shall have a method of automatically applying the brakes, on break-away of the vehicle from the towing vehicle, including a source of power with a minimum 12 volt rating and sufficient current capacity to fully engage the brakes.

4 Sep 87 cV-2.1 Reg 10 s176.

Hydraulic brakes

- 177** If the vehicle is equipped with hydraulic brakes, the hydraulic brake system must have lines and connections that:
- (a) are constructed of materials that meet SAE standards J846, J1047, J1401 and J1403;

- (b) in the case of a flexible line or hose, must not bulge or swell under pressure;
- (c) are maintained so that they are secure against undue wear, accidental disconnection, chafing or failure from vibration; and
- (d) must not be frayed, severed, cut, crimped or dented in a manner that impedes the flow of brake fluid or allows the contents to leak.

19 May 2017 SR 42/2017 s38.

Air brakes

178(1) Where the vehicle is equipped with air brakes, the air brake system shall have a check valve that will prevent a bleed back of air to the towing vehicle when the air pressure in the towing vehicle is less than that of the trailer.

(2) The air brake system shall have a secondary system that, on failure of the primary air system:

- (a) causes the brakes to be applied automatically; or
- (b) allows the driver to apply the brakes of both the trailer and the towing vehicle;

and brings the fully loaded combination to a stop within 16 metres from a speed of 30 kilometres per hour on a dry, smooth, level, paved surface.

(3) The air reservoir shall have a capacity of:

- (a) at least eight times, if it was manufactured after 1975;
- (b) at least six times, if it was manufactured in or before 1975;

the combined volumes of all service brake chambers at maximum travel of the pistons or diaphragms.

(4) The air brake system shall limit air loss to 20 kPa per minute while the brakes are applied and the engine of the towing vehicle is stopped.

(5) The air brake system shall have fittings, tubes and brake hoses that are designed in accordance with SAE Standards J1402, J1149, J1394 and J844, constructed of suitable materials and maintained so as to be secure against undue wear or accidental disconnection.

(6) Every type T-2 vehicle manufactured on or after May 31, 1996 that is equipped with air brakes must be equipped with a system that automatically compensates for service brake wear.

(7) If the vehicle is equipped with a cam type air brake system, the distance of travel of the brake piston or pushrod between the unapplied and applied brake position must not exceed the limits set out in Table 3 of the Appendix for the type and size of the vehicle's brake chamber.

4 Sep 87 cV-2.1 Reg 10 s178; 6 Jne 2014 SR 46/2014 s33; 19 May 2017 SR 42/2017 s39.

Lamps general

179 All lamps required pursuant to this Part must be securely mounted and meet SAE standards.

19 May 2017 SR 42/2017 s40.

Tail lamps

180 The vehicle shall have two tail lamps that:

- (a) are located at the rear between 380 millimetres and 1830 millimetres above the road surface;
- (b) are positioned as far apart as practicable;
- (c) emit a red light that is visible from at least 150 metres to the rear; and
- (d) are activated by the headlamp control of the towing vehicle.

4 Sep 87 cV-2.1 Reg 10 s180; 19 May 2017 SR 42/2017 s41.

Side marker lamps

181(1) Where the vehicle was manufactured after 1971 and is four metres or more in length, including the length of the hitch, the vehicle shall have side marker lamps that are located two on each side of the vehicle not less than 380 millimetres above the ground and as close to the corners as practicable.

(2) The side marker lamps shall:

- (a) be clearly visible from a distance of at least 150 metres;
- (b) emit a red light from the rear-most lamps and an amber light from the foremost lamps; and
- (c) be activated by the headlamp control of the towing vehicle.

(3) In addition to the side marker lamps referred to in subsection (1), a vehicle over 10 metres long, including the length of the hitch, shall have intermediate side marker lamps that:

- (a) emit an amber light;
- (b) are located as close to the horizontal mid-point as practicable; and
- (c) are at least 380 millimetres above the ground.

4 Sep 87 cV-2.1 Reg 10 s181; 19 May 2017 SR 42/2017 s42.

Clearance lamps

182 Where the vehicle is over 2060 millimetres in width, it shall have four clearance lamps that:

- (a) are located two facing to the rear and two facing to the front as far apart as practicable;

- (b) emit a red light from the rear facing lamps that is clearly visible from at least 150 metres and emit an amber light from the front facing lamps that is clearly visible from at least 150 metres;
- (c) are located as high as practicable above the road surface; and
- (d) are activated by the headlamp control of the towing vehicle.

4 Sep 87 cV-2.1 Reg 10 s182; 19 May 2017 SR
42/2017 s43.

Combined lamps

183(1) For the purposes of sections 181 and 182, a single lamp may serve as both a side-marker and clearance lamp if it is located at the corner and can be seen from both the end and the side.

(2) Front clearance lamps are not required on vehicles on which it is not practicable to mount lamps 2150 millimetres or more above the ground.

4 Sep 87 cV-2.1 Reg 10 s183.

Brake lamps

184 The vehicle shall have two brake lamps that:

- (a) are located facing the rear;
- (b) are between 380 millimetres and 2110 millimetres above the road surface;
- (c) are positioned as far apart as practicable;
- (d) emit a red light that is clearly visible from a distance of at least 200 metres to the rear; and
- (e) are activated by any brake of any vehicle in the combination.

4 Sep 87 cV-2.1 Reg 10 s184; 19 May 2017 SR
42/2017 s44.

Signal lamps and hazard lamps

185(1) The vehicle shall have two turn signal lamps that:

- (a) are located facing the rear;
- (b) are positioned as far apart as practicable;
- (c) are between 380 millimetres and 2100 millimetres above the road surface;
- (d) emit a flashing amber or red light that is clearly visible from a distance of at least 200 metres to the rear; and
- (e) are activated by the signal lamp control of the towing vehicle.

(2) The vehicle shall have two hazard warning lamps that:

- (a) are located facing the rear;
- (b) are positioned as far apart as practicable;
- (c) are between 380 millimetres and 2100 millimetres from the road surface;

- (d) emit a simultaneous flashing amber or red light that is clearly visible from a distance of at least 200 metres to the rear; and
 - (e) are activated by the hazard lamp control of the towing vehicle.
- (3) For the purposes of subsections (1) and (2), a single lamp may serve as a turn signal lamp and a hazard warning lamp.

4 Sep 87 cV-2.1 Reg 10 s185; 19 May 2017 SR 42/2017 s45.

Identification lamps

186(1) Where the vehicle is over 2060 millimetres in width and is a commercial or public service vehicle, it shall have three identification lamps that:

- (a) are located facing the rear as high and as near the centre as practicable;
 - (b) emit a red light that is clearly visible from a distance of at least 150 metres to the rear; and
 - (c) are activated by the headlamp control of the towing vehicle.
- (2) Subsection (1) does not apply to low-bed trailers.

4 Sep 87 cV-2.1 Reg 10 s186; 19 May 2017 SR 42/2017 s46.

Licence plate lamp

187 The vehicle shall have a rear licence plate lamp that:

- (a) emits a white light so that the licence plate is visible from a distance of 100 metres on a clear night; and
- (b) is activated by the headlamp switch.

4 Sep 87 cV-2.1 Reg 10 s187.

Reflectors

188(1) The vehicle must have reflectors or reflective tapes that:

- (a) are located:
 - (i) two facing the rear as far apart as is practicable and from 380 millimetres to 2 100 millimetres above the surface of the road;
 - (ii) two on each side as far apart as is practicable and from 380 millimetres to 530 millimetres above the surface of the road; and
 - (iii) one located near the horizontal mid-point on each side of the vehicle if the vehicle is over 10 metres in length;
 - (b) emit an amber reflection from the front-most and, if fitted, centre reflectors and a red reflection from the rearmost reflectors; and
 - (c) are visible on a clear night when illuminated by a type A vehicle headlamp at a distance of 60 metres.
- (2) For the purposes of subsection (1), lamps with reflective lenses may serve as reflectors.

6 Jne 2014 SR 46/2014 s34; 19 May 2017 SR 42/2017 s47.

Retro-reflective markings

188.1 Every type T-2 vehicle that is 2 032 millimetres or more in overall width with a GVWR of more than 4 536 kilograms must be equipped with a conspicuity treatment in accordance with the requirements of CMVSS 108 in effect at the time the vehicle was manufactured.

6 Jne 2014 SR 46/2014 s35.

Electrical wiring

189 The electrical wiring of the vehicle shall:

- (a) be installed in accordance with good engineering practice;
- (b) conform to SAE Standards J1292;
- (c) not be broken or badly frayed; and
- (d) be of a gauge equal to or heavier than that prescribed in Table 2 of the Appendix, or that installed by the original manufacturer, whichever is less.

4 Sep 87 cV-2.1 Reg 10 s189.

Bumper

190(1) Where the vehicle is longer than four metres including the length of the hitch, it shall have a bumper that is securely mounted at the rear of the vehicle.

(2) Subsection (1) does not apply to boat trailers or vehicles with loading ramps or special equipment that makes the mounting of a bumper impracticable.

4 Sep 87 cV-2.1 Reg 10 s190.

Rear impact guards

190.1(1) Subject to subsections (2) and (3), a vehicle with a GVWR of 4 536 kilograms or greater that was manufactured on or after September 23, 2005 must be equipped with a rear impact guard that complies with the requirements of CMVSS 223 in effect at the time the vehicle was manufactured.

(2) A vehicle with a GVWR of 4 536 kilograms or greater that was manufactured on or after September 23, 2005 and before August 31, 2007 may be equipped with a rear impact guard in accordance with the requirements of Standard 224 under Part 571.224 of the Code of Federal Regulations (United States) Title 49, in effect at the time the vehicle was manufactured.

(3) Subsection (1) does not apply to:

- (a) a pole trailer;
- (b) a trailer or semi-trailer designed to be used as temporary living accommodations;
- (c) a trailer or semi-trailer designed to interact with, or having work-performing equipment located or moving through, the area that would be occupied by the horizontal portion of the rear impact guard; or

(d) a trailer or semi-trailer if the height of the rearmost point of the trailer is between 560 millimetres and 1900 millimetres and whose rearmost axle is:

- (i) permanently fixed; and
- (ii) located such that the rearmost surface of the rearmost tire is not more than 305 millimetres forward from the rearmost point of the vehicle measured when the vehicle is unloaded on a flat surface and the tires are inflated to the manufacturer's recommended pressure.

6 Jne 2014 SR 46/2014 s36; 19 May 2017 SR 42/2017 s48.

Sharp edges

191 The vehicle, including any attached aerodynamic devices, must be free from rigid sharp edges of sheet metal, bumper, fender molding or any other parts that protrude more than 100 millimetres beyond the side of the vehicle at its widest point.

19 May 2017 SR 42/2017 s49.

Fenders or mudflaps

192(1) Subject to subsections (2) and (3), the vehicle shall have for each tire, a fender, mudflap or body overhang that:

- (a) reduces the rearward projection of gravel, mud, water and snow from the tire;
- (b) is located so that the lowest point of the fender, mudflap or body overhang is above the ground a distance that is not greater than one-third of the horizontal distance from that point to the centre of the wheel; and
- (c) extends across the full width of the tire.

(2) Subsection (1) applies to wheels on steering axles only when the wheels are in the straight ahead position.

4 Sep 87 cV-2.1 Reg 10 s192; 6 Jne 2014 SR 46/2014 s37.

Floor or deck condition

193 If a vehicle is equipped with a floor or deck, the floor or deck must not be visibly perforated by rust or otherwise damaged or have an opening other than those intended by the manufacturer.

19 May 2017 SR 42/2017 s50.

Frame

193.1 The trailer's frame must not be visibly cracked or weakened by corrosion or have loose or missing connecting fasteners that may degrade the safety of the vehicle or jeopardize its handling characteristics.

19 May 2017 SR 42/2017 s50.

Door or gate latches

194 If the vehicle is fitted with a door or gate, the door or gate must have a latch that prevents the door or gate from being opened by road motion or vibration and that does not allow for the leakage, loss or spillage of contents.

19 May 2017 SR 42/2017 s51.

Windows

195 Where the vehicle has windows, they shall be of plastic or of safety glass.

4 Sep 87 cV-2.1 Reg 10 s195.

Tires

196(1) The vehicle shall have tires that, at the time of manufacture, complied with the CMVTSS.

(1.1) The tires must be inflated to a pressure within the range specified by the tire manufacturer for the load being carried and be free from any noticeable leak.

(2) Where the tires are dual tires, they shall be matched within 12.80 millimetres in actual diameter.

(3) The tires must:

(a) be free from cuts or cracks in the sidewall that are greater than 25.6 millimetres in length and that extend into the cord;

(b) have no visible bulges indicating structural failure; and

(c) have no exposed ply material.

(4) Where the vehicle is a type T-2 vehicle other than a vehicle transporting dangerous goods, the tires shall have detectable tread across the width of the tire measured at any three points equally spaced around the circumference of the tire.

(5) Where the vehicle is a type T-2 vehicle transporting dangerous goods, the tires shall have at least 1.60 millimetres tread thickness measured in any two major grooves at any three points equally spaced around the circumference of the tire.

(6) The sidewall of the tire must be permanently marked with the size, maximum inflation pressure, maximum load rating and, in the case of a radial tire, the construction type.

4 Sep 87 cV-2.1 Reg 10 s196; 19 May 2017 SR 42/2017 s52.

Wheels

197 The wheels of the vehicle shall not:

(a) be cracked, excessively bent or field welded;

(b) have loose or missing wheel studs or nuts; or

(c) have stud holes that are elongated.

4 Sep 87 cV-2.1 Reg 10 s197.

Hitch

198 Subject to section 168, a type T vehicle that is being towed by another type T vehicle in combination must have its hitch attached directly to a structural part of the towing vehicle.

19 May 2017 SR 42/2017 s53.

Safety chain

199(1) Where the vehicle has a hitch coupled by any means other than a fifth wheel, the vehicle shall have a secondary coupling device that:

- (a) prevents complete disconnection of the vehicle from the towing vehicle in the event of accidental disconnection of the primary coupling device; and
- (b) prevents the tongue from dropping to the ground in the event that the primary coupling device becomes disconnected.

(2) The secondary coupling device shall not be attached to the primary coupling device.

(3) Where the secondary coupling device is a cable or chain, it shall be connected to the trailer, looped under the tow bar and connected to the towing vehicle.

(4) The secondary coupling device must have a breaking strength of not less than the GVW of all towed vehicles and any load carried on those vehicles.

4 Sep 87 cV-2.1 Reg 10 s199; 6 Jne 2014 SR 46/2014 s38.

Ball type hitch

200 If the towing vehicle is equipped with a ball type hitch, the coupler of the trailer being towed must be fully closed and have a secondary device that prevents opening, and there shall be no excessive loosening of the connection.

19 May 2017 SR 42/2017 s54.

Gooseneck trailer

201 If the vehicle is a gooseneck trailer, the neck shall have a rated strength equal to or greater than the combined weight of the vehicle and its load.

4 Sep 87 cV-2.1 Reg 10 s201.

Strength of type T-2 coupler

202 If the vehicle is a type T-2 vehicle coupled other than by a fifth wheel, the secondary coupling device shall have a rated strength that is not less than 1.5 times the total weight of the vehicle and its load.

4 Sep 87 cV-2.1 Reg 10 s202.

Semi-trailer coupler

203(1) If a vehicle has a coupler assembly, the coupler assembly must have a king pin and upper coupler plate that have rated capacities equal to or greater than the combined weight of the vehicle and its load.

(2) The coupler assembly shall be maintained so that the contact area between the upper coupler plate and the fifth wheel of the towing vehicle is at least 75% of the total area of the coupler plate.

(3) Where a vehicle has a GVWR of more than 12000 kilograms, the coupler assembly shall have a king pin with a minimum diameter of 44.80 millimetres at the throat and 64.00 millimetres at the upper and lower section.

(4) Where the vehicle has a GVWR of 12000 kilograms or less, the coupler assembly shall have a king pin with a minimum diameter of 38.40 millimetres at the throat and 51.20 millimetres at the upper and lower section.

(5) The king pin coupler assembly, including the king pin, upper coupler plate and mounting hardware, must not be visibly cracked, weakened by corrosion or have loose or missing connecting fasteners.

(6) If the vehicle is fitted with a fifth wheel, the fifth wheel must have:

(a) a plate that is securely mounted;

(b) a locking device that prevents separation of the fifth wheel and the semi-trailer king pin; and

(c) lubrication between the fifth wheel and the upper fifth plate of the semi-trailer.

4 Sep 87 cV-2.1 Reg 10 s203; 19 May 2017 SR 42/2017 s55.

Vehicle identification number

204 The vehicle shall have a vehicle identification number that is stamped into or affixed on the frame of the vehicle so that it is visible without removing any part.

4 Sep 87 cV-2.1 Reg 10 s204.

Labelling of trailers

205 The manufacturer for sale of a trailer shall affix to it in a visible place a permanent label showing:

(a) the name and address of the manufacturer; and

(b) the GAWR or the GVWR for the trailer.

4 Sep 87 cV-2.1 Reg 10 s205.

PART VII
Tow Dollies – Type T-3 Vehicles

Application of Part

206(1) The requirements of this Part apply only to tow dollies and vehicles towed using tow dollies.

(2) Every type T-3 vehicle driven on a highway shall be equipped in accordance with this Part.

(3) Notwithstanding subsection (2), the administrator may approve for use on a highway a type T-3 vehicle that does not comply with this Part.

4 Sep 87 cV-2.1 Reg 10 s206.

Certain weights prohibited

207 The combined weight of a tow dolly and a vehicle that is supported by a tow dolly shall not exceed:

- (a) 2800 kilograms; or
- (b) twice the GVWR of the towing vehicle;

whichever is less.

4 Sep 87 cV-2.1 Reg 10 s207; 19 May 2017 SR
42/2017 s56.

Locking device required

208(1) Where a tow dolly is equipped with king pins and steerable wheels, it shall have a locking device that locks the wheels in the straight ahead position at all times while in tow.

(2) Where the tow dolly supports the rear wheels of the vehicle in tow or where the tow dolly is equipped with a turntable, the front wheels of the vehicle in tow shall be locked in the straight ahead position.

4 Sep 87 cV-2.1 Reg 10 s208.

Brakes

209 Where the combined weight of the towed vehicle and the tow dolly exceed 50% of the GVWR of the towing vehicle, the tow dolly shall have brakes.

4 Sep 87 cV-2.1 Reg 10 s209; 19 May 2017 SR
42/2017 s57.

Lamps general

210 All lamps required pursuant to this Part must meet SAE standards and be securely mounted.

19 May 2017 SR 42/2017 s58.

Tail lamps

211 A tow dolly being towed empty, or a combination consisting of a tow dolly and a towed vehicle, shall have two tail lamps that:

- (a) are located at the rear of the combination between 380 millimetres and 1830 millimetres above the road surface;
- (b) are positioned as far apart as practicable;
- (c) emit a red light that is visible from a distance of at least 150 metres to the rear;
- (d) are activated by the headlamp control of the towing vehicle.

4 Sep 87 cV-2.1 Reg 10 s211; 19 May 2017 SR 42/2017 s59.

Brake lamps

212 A tow dolly being towed empty, or a combination consisting of a tow dolly and a towed vehicle, shall have two brake lamps that:

- (a) are located at the rear of the combination between 380 millimetres and 2110 millimetres above the road surface;
- (b) are positioned as far apart as practicable;
- (c) emit a red light that is visible from a distance of at least 200 metres to the rear; and
- (d) are activated by any brake of any vehicle in the combination.

4 Sep 87 cV-2.1 Reg 10 s212; 19 May 2017 SR 42/2017 s60.

Signal lamps

213 A tow dolly being towed empty, or a combination consisting of a tow dolly and a towed vehicle, shall have two turn signal lamps that:

- (a) are located at the rear of the combination;
- (b) are positioned as far apart as practicable;
- (c) are between 380 millimetres and 2110 millimetres above the road surface;
- (d) emit a flashing amber or red light that is visible from a distance of at least 200 metres to the rear; and
- (e) are activated by the signal lamp control of the towing vehicle.

4 Sep 87 cV-2.1 Reg 10 s213; 19 May 2017 SR 42/2017 s61.

Clearance lamps

214 Where the width of a tow dolly being towed empty, or of a combination consisting of a tow dolly and a towed vehicle, is over 2060 millimetres, the tow dolly or the combination shall have four clearance lamps that:

- (a) are located two facing to the rear and two facing to the front;
- (b) are positioned as far apart as practicable;
- (c) emit a red light from the rear facing lamps that is clearly visible from at least 150 metres and emit an amber light from the front facing lamps that is clearly visible from at least 150 metres; and
- (d) are activated by the headlamp control of the towing vehicle.

4 Sep 87 cV-2.1 Reg 10 s214; 19 May 2017 SR 42/2017 s62.

Side marker lamps

215 A tow dolly being towed empty, or in a combination consisting of a tow dolly and a towed vehicle, must have two side marker lamps that:

- (a) are located on the side at the rear of the combination;
- (b) are positioned not less than 380 millimetres above the ground;
- (c) emit a red light that is clearly visible from a distance of 150 metres; and
- (d) are activated by the headlamp control.

19 May 2017 SR 42/2017 s63.

Light bar permitted

216 Lamps required by sections 211 to 215 may be attached to a light bar temporarily attached to either the tow dolly or the towed vehicle.

4 Sep 87 cV-2.1 Reg 10 s216.

Securing device

217(1) The tow dolly must have a securing device that secures the wheels supported by the tow dolly to the tow dolly and a secondary coupling device that meets the requirements of section 199.

(2) The securing device shall have a load rating that is not less than the weight of the towed vehicle.

4 Sep 87 cV-2.1 Reg 10 s217; 19 May 2017 SR 42/2017 s64.

Hitch

218 The hitch of the towing dolly shall comply with hitch requirements set out in sections 73, 168 and 200.

4 Sep 87 cV-2.1 Reg 10 s218; 19 May 2017 SR 42/2017 s65.

Certain combinations prohibited

219 A tow dolly may only be towed in a four-vehicle combination if the lead type T vehicle is a semi-trailer, a gooseneck trailer or a tandem axle trailer.

4 Sep 87 cV-2.1 Reg 10 s219.

PART VIII
Type M Vehicles

Application of Part

220(1) The requirements of this Part apply only to type M vehicles.

(2) Every type M vehicle driven on a highway shall be equipped in accordance with this Part.

(3) Notwithstanding subsection (2), the administrator may approve for use on a highway a type M vehicle that does not comply with this Part.

4 Sep 87 cV-2.1 Reg 10 s220.

CMVSS standards apply

221 Every type M vehicle shall comply with the appropriate CMVSS at the time of manufacture and bear a label of compliance.

4 Sep 87 cV-2.1 Reg 10 s221.

Exhaust system

222 The vehicle shall have an exhaust system that is adequately shielded to prevent excessive heat transfer to the fuel and brake systems and to prevent injury to the operator or passenger.

4 Sep 87 cV-2.1 Reg 10 s222.

Mufflers

223(1) The vehicle shall have one or more mufflers that:

- (a) ensure that exhaust gases are cooled; and
- (b) effectively reduce combustion noise.

(2) Every muffler shall be adequately shielded to prevent excessive heat transfer to the fuel and brake system or to the operator or passenger.

4 Sep 87 cV-2.1 Reg 10 s223.

Fuel system

224 The vehicle shall have a fuel system that:

- (a) has a filler cap or closing device on the tank that prevents spillage of fuel and unrestricted release of vapour; and
- (b) has a tank and fuel lines that are free of leaks and securely mounted or attached.

4 Sep 87 cV-2.1 Reg 10 s224.

Drive train guard

225 The vehicle shall have a guard for the drive chain, belt or shaft that prevents injury to the driver or passenger.

4 Sep 87 cV-2.1 Reg 10 s225.

Ground clearance

226 The vehicle shall have a minimum of 100 millimetres and a maximum of 320 millimetres clearance between the ground and the lowest point of the power train cases.

4 Sep 87 cV-2.1 Reg 10 s226.

Wheel base

227 The vehicle shall have a minimum wheel base of 1040 millimetres.

4 Sep 87 cV-2.1 Reg 10 s227.

Brake system

228(1) The vehicle shall have at least one brake system.

(2) If the vehicle has one brake system, application of the brakes shall apply brakes to both the front and the rear wheels.

(3) If the vehicle has two brake systems:

- (a) each brake system shall have a separate means of application;
- (b) one brake system shall be effective on the front wheel; and
- (c) one brake system shall be effective on the rear wheel.

(4) The brake system, or if there is more than one brake system, the brake systems together, shall stop the vehicle in an upright position, from a speed of 30 kilometres per hour within a distance of eight metres on a dry, smooth, level, paved surface without deviating by more than 300 millimetres from a straight line.

4 Sep 87 cV-2.1 Reg 10 s228.

Forks

229(1) Where the front forks are not those provided by the manufacturer of the vehicle, they shall:

- (a) not exceed the vehicle manufacturer's specified length by more than 250 millimetres as measured from the centre of the front axle to the bottom of the steering column when the vehicle is unloaded; or
- (b) have been approved by the administrator.

(2) Where the vehicle has extended forks, the fork tubes shall be one continuous piece of metal with no splices or joints.

4 Sep 87 cV-2.1 Reg 10 s229.

Handlebars

230 The vehicle shall have handlebars that:

- (a) have grips that are no higher than the shoulders of the seated driver; and
- (b) do not exceed the overall width of those provided by the vehicle manufacturer.

4 Sep 87 cV-2.1 Reg 10 s230.

Speedometer

231(1) The vehicle shall have an instrument that will provide the driver with an accurate indication of speed in miles or kilometres per hour or in engine revolutions per minute.

(2) Subsection (1) does not apply to limited speed motorcycles.

4 Sep 87 cV-2.1 Reg 10 s231.

Horn

232(1) The vehicle shall have a horn that emits a sound that is audible, under normal conditions, from a distance of 60 metres.

(2) The horn activation control shall be within reach of the seated driver.

4 Sep 87 cV-2.1 Reg 10 s232.

Controls and instruments

233(1) All operating controls shall be within reach of the operator when the operator is seated normally in the saddle.

(2) All instruments shall be visible to the operator when the operator is seated normally in the saddle.

4 Sep 87 cV-2.1 Reg 10 s233.

234 Repealed. 18 May 2012 SR 29/2012 s8.

235 Repealed. 18 May 2012 SR 29/2012 s8.

Vehicle identification and engine serial numbers

236(1) The vehicle identification number shall be sunk into, attached to or embossed on the frame of the vehicle so that it is visible without removing any part.

(2) The engine of the vehicle shall have a serial number that is sunk into, attached or embossed on the engine block.

4 Sep 87 cV-2.1 Reg 10 s236.

Lamps general

237 The lamps required pursuant to this Part shall comply with SAE standards and, except for headlamps, shall emit light that is visible from a distance of 200 metres on a clear night.

4 Sep 87 cV-2.1 Reg 10 s237.

Headlamps

238(1) The vehicle shall have one or more headlamps that are arranged in a symmetrical pattern about the vertical mid-point of the vehicle.

(2) Except in the case of a limited speed motorcycle, the vehicle headlamps shall have a high beam and a low beam.

(3) The headlamp system shall have a means of selecting between the high beam and the low beam without interruption of light.

(4) The headlamp shall, while on high beam or low beam, emit a white light visible from a distance of 500 metres on a clear night.

(5) The low beam shall illuminate a gray object 1000 millimetres by 300 millimetres from a distance of 50 metres on a clear night.

(6) The high beam shall illuminate a gray object 1000 millimetres by 300 millimetres from a distance of 50 metres on a clear night.

(7) A limited speed motorcycle is not required to have a high beam.

(8) The headlamp shall be activated automatically when any forward gear is engaged with the engine running.

(9) The low beam shall be focused so that:

(a) the left edge of the high intensity zone is no more than 100 millimetres right or left of straight ahead; and

(b) the top edge of the high intensity zone is no more than 100 millimetres above or below the height of the lamp;

when illuminating a screen at a distance of eight metres with the vehicle on level ground.

4 Sep 87 cV-2.1 Reg 10 s238.

Driving lamps

239 Where the vehicle is fitted with auxiliary driving lamps or fog lamps, they shall be mounted no higher than the headlamps and focused at least as low and as far to the right as the low beam or connected so that they are turned off when the low beam is activated.

4 Sep 87 cV-2.1 Reg 10 s239.

Tail lamp

240 The vehicle shall have a tail lamp that:

- (a) is located at the rear;
- (b) emits a red light that is visible from any point along a 180° horizontal arc; and
- (c) is activated by the headlamp control.

4 Sep 87 cV-2.1 Reg 10 s240.

Brake lamp

241 The vehicle shall have a brake lamp that:

- (a) faces the rear;
- (b) emits a red light; and
- (c) is activated by the application of brakes on any wheel.

4 Sep 87 cV-2.1 Reg 10 s241.

Signal lamps

242(1) The vehicle shall have signal lamps that:

- (a) are positioned as far apart as practicable;
- (b) emit a red or amber light to the rear and an amber light to the front; and
- (c) flash on activation of a turn signal control located within easy reach of the driver.

(2) One lamp may serve front and rear if that lamp is visible from the front and rear.

(3) Subsection (1) does not apply to vehicles manufactured before January 1, 1974.

4 Sep 87 cV-2.1 Reg 10 s242.

Licence plate lamp

243(1) The vehicle shall have a licence plate lamp that illuminates the licence plate with a white light so that the licence plate is visible from a distance of 15 metres on a clear night.

(2) The licence plate lamp shall be activated by the headlamp control.

4 Sep 87 cV-2.1 Reg 10 s243.

Clearance lamps

244 Where the vehicle is fitted with a sidecar, the sidecar shall have at least one clearance lamp that:

- (a) emits a red light to the rear and an amber light to the front;
- (b) is located as close to the extremity of the side car as practicable; and
- (c) is activated by the headlamp control.

4 Sep 87 cV-2.1 Reg 10 s244.

Reflectors

245(1) The vehicle shall have reflectors or reflective tapes that:

- (a) are located at the rear and on each side at the front and rear;
- (b) emit a red reflection from the rear and rear side reflectors and an amber reflection from the front side reflectors; and
- (c) are visible from a distance of 60 metres when illuminated by type A vehicle headlamps on a clear night.

(2) For the purpose of subsection (1), reflective lenses of lamps may serve as reflectors.

4 Sep 87 cV-2.1 Reg 10 s245.

Electrical wiring

246 The electrical wiring of the vehicle shall:

- (a) conform to SAE J 1292;
- (b) be installed in accordance with good engineering practice; and
- (c) be of a gauge equal to or heavier than that provided by the vehicle manufacturer.

4 Sep 87 cV-2.1 Reg 10 s246.

Fenders and mudflaps

247 The vehicle shall have fenders or mudflaps for the full width of the tires that reduce rearward projection of gravel, mud, water and snow from the tires.

4 Sep 87 cV-2.1 Reg 10 s247.

Saddle

248 The upper surface of the seat or saddle of the vehicle shall be not less than 500 millimetres above the ground when loaded with a 70 kilograms load.

4 Sep 87 cV-2.1 Reg 10 s248.

Main frame

249 The main frame of the vehicle shall be not less than 650 millimetres above the ground at the point where contact is made with the handlebars.

4 Sep 87 cV-2.1 Reg 10 s249.

Foot pegs and pillion

250(1) When a passenger is being transported on the vehicle, the vehicle shall be fitted with foot pegs.

(2) The foot pegs shall fold rearward and upward when not in use.

(3) The vehicle shall not be used to carry a passenger unless the operator's seat is designed to carry two people or there is a separate passenger seat.

4 Sep 87 cV-2.1 Reg 10 s250.

Windshield

251 Where the vehicle is equipped with a windshield the windshield shall not:

(a) be cracked from one edge to any other edge; and

(b) be scratched, discoloured or otherwise marred so that the driver's view of the road is obscured.

4 Sep 87 cV-2.1 Reg 10 s251.

Mirror

252 The vehicle must have a mirror that:

(a) meets the requirements of the version of the CMVSS 111 in effect at the time the vehicle was manufactured; and

(b) provides the driver a clear view to the rear.

19 May 2017 SR 42/2017 s66.

Protruding material

253 No part of the motorcycle shall extend beyond the width of the handlebars in a manner that creates a hazard for pedestrians.

4 Sep 87 cV-2.1 Reg 10 s253.

Tires

254 The vehicle shall have tires that have a rated capacity equal to or greater than the load being supported.

4 Sep 87 cV-2.1 Reg 10 s254.

Wheels

255 The wheels of the vehicle shall have:

- (a) a minimum diameter of 250 millimetres; and
- (b) no bent or missing spokes and no bent or cracked rims.

4 Sep 87 cV-2.1 Reg 10 s255.

PART VIII.1

Type S Vehicles**Application of Part**

255.1(1) The requirements of this Part apply only to type S vehicles.

(2) Subject to subsection (3), every type S vehicle must be equipped in accordance with this Part.

(3) The requirements of this Part do not apply to a type S vehicle that is operated on private land that:

- (a) is owned by the owner or operator of the type S vehicle being operated; or
- (b) is owned by a person other than a person mentioned in clause (a), if the owner of the land has given his or her consent, either expressly or by implication, to use the land for the operation of the type S vehicle.

(4) Notwithstanding subsections (2) and (3), the administrator may approve for use a type S vehicle that does not comply with this Part.

13 Feb 98 SR 10/98 s4.

CMVSS standards apply

255.11 Every type S vehicle is to comply with the appropriate CMVSS at the time of manufacture and bear a label of compliance.

13 Feb 98 SR 10/98 s4.

Exhaust system

255.12 Every type S vehicle is to have an exhaust system that:

- (a) is securely mounted and free of abnormal exhaust leaks;
- (b) is adequately shielded to prevent excessive heat transfer to the fuel and brake systems and to prevent injury to the operator or passenger;
- (c) is fitted with one or more mufflers; and
- (d) has shields that are securely mounted.

13 Feb 98 SR 10/98 s4.

Fuel system

255.2 Every type S vehicle is to have a fuel system that:

- (a) has a filler cap or closing device on the tank that prevents spillage of fuel and unrestricted release of vapour;
- (b) has a tank and fuel lines that are free of leaks and securely mounted or attached; and
- (c) has fuel lines constructed of a material approved for fuel transfer.

13 Feb 98 SR 10/98 s4.

Drive guard

255.21(1) Every type S vehicle is to be equipped with a guard for the drive chain, belt or shaft that is securely mounted and positioned to prevent injury to the driver or passenger.

(2) If type S vehicle is driven by a propeller, the vehicle is to be equipped with a guard or shield over the propeller that is securely mounted and positioned to prevent injury to the driver or passenger.

13 Feb 98 SR 10/98 s4.

Brake system

255.22(1) Every type S vehicle is to have a brake system that:

- (a) will stop and hold the track or wheels in a stationary position on a 15% grade; and
 - (b) will stop the vehicle from a speed of 13 kilometres per hour within a distance of six metres.
- (2) Every type S vehicle must have a brake system that functions so that brake shoes or pads and the brake drums or rotors are not worn in excess of the manufacturer's specifications.

13 Feb 98 SR 10/98 s4.

Steering

255.3 Every type S vehicle is to be equipped with a steering system that:

- (a) has handle bars with grips that are no higher than the shoulders of the seated driver; and
- (b) has no broken components, missing components, or components that are worn in excess of manufacturer's specifications.

13 Feb 98 SR 10/98 s4.

Suspension

255.31 Every type S vehicle is to be equipped with a suspension system that has no broken parts, missing parts or parts that are worn in excess of the manufacturer's specifications.

13 Feb 98 SR 10/98 s4.

Occupant support

255.32 Every type S vehicle is to have a saddle that:

- (a) is padded with energy absorbing material that is not less than 60 millimetres thick; and
- (b) is secured to the vehicle.

13 Feb 98 SR 10/98 s4.

Throttle return

255.4 Every type S vehicle is to have a throttle return device that returns the throttle to the idle position when the hand control is released.

13 Feb 98 SR 10/98 s4.

Kill switch

255.41 If originally equipped by the manufacturer, the type S vehicle is to be equipped with a kill switch that stops the engine in the event the type S vehicle operator is ejected from the saddle or out of reach of the controls.

13 Feb 98 SR 10/98 s4.

Controls

255.42 All operating controls are to be within reach of the operator when the operator is seated normally in the saddle.

13 Feb 98 SR 10/98 s4.

255.5 Repealed. 18 May 2012 SR 29/2012 s9.

Windshield

255.51 Where the type S vehicle is equipped with a windshield:

- (a) the windshield must be constructed of transparent, shatter-proof material free from scratches or distortion that would impair the operator's vision; and
- (b) the windshield must not be cracked from one edge to another edge.

13 Feb 98 SR 10/98 s4.

Vehicle identification numbers

255.6 Every type S vehicle identification number is to be sunk into, attached to or embossed on the frame of the vehicle so that it is visible without removing any part.

13 Feb 98 SR 10/98 s4.

Lamps general

255.61 The lamps required pursuant to this Part are to be securely mounted, not have missing or broken lenses and comply with SAE standards and, except for headlamps, are to emit light that is visible from a distance of 200 metres on a clear night.

13 Feb 98 SR 10/98 s4.

Headlamps

255.7(1) Every type S vehicle is to be fitted with one or more headlamps that emit a white or amber light.

(2) The beam of a headlamp must illuminate a grey object 1,000 millimetres by 300 millimetres from a distance of 50 metres on a clear night.

13 Feb 98 SR 10/98 s4.

Tail lamp

255.71 Every type S vehicle is to have a tail lamp that:

- (a) is located at the rear;
- (b) emits a red light that is visible from the rear; and
- (c) is activated by the headlamp control.

13 Feb 98 SR 10/98 s4.

Brake lamp

255.8 Every type S vehicle is to have a brake lamp that:

- (a) faces the rear;
- (b) emits a red light; and
- (c) is activated by the application of brakes.

13 Feb 98 SR 10/98 s4.

Reflectors

255.81(1) Every type S vehicle is to have reflectors or reflective tapes that:

- (a) are located at the rear and on each side at the front and rear;
- (b) emit a red reflection from the rear and rear side reflectors and an amber reflection from the front side reflectors; and
- (c) are visible from a distance of 60 metres when illuminated by an exterior light source on a clear night.

(2) For the purpose of subsection (1), reflective lenses of lamps may serve as reflectors.

13 Feb 98 SR 10/98 s4.

Electrical wiring

255.9 The electrical wiring of every type S vehicle must:

- (a) conform to SAE J 1292;
- (b) be installed in accordance with good engineering practice; and
- (c) be of a gauge equal to or heavier than that provided by the vehicle manufacturer.

13 Feb 98 SR 10/98 s4.

Protruding material

255.91 No part of a type S vehicle is to extend beyond the width of the handlebars in a manner that creates a hazard for pedestrians.

13 Feb 98 SR 10/98 s4.

PART VIII.2**Equipment Standards for Vehicles
Exempt from Registration Requirements****Standards for unregistered vehicles**

255.911(1) The requirements of this Part apply to the following vehicles:

- (a) a special mobile machine;
 - (b) towed mobile equipment.
- (2) Every vehicle mentioned in subsection (1) that is operated on a highway must be equipped in accordance with this Part.
- (3) Notwithstanding subsection (2), the administrator may approve for use on a highway a vehicle mentioned in subsection (1) that does not comply with this Part.

6 Jne 2014 SR 46/2014 s39.

Tires

255.912 The tires on every vehicle must:

- (a) not be worn or damaged or have cords that are exposed;
- (b) have a load rating appropriate to the application of the vehicle;
- (c) if equipped with pneumatic tires, be inflated to the manufacturer's recommended pressure based on the vehicle's GVW; and
- (d) have a speed rating at or above the speed at which the vehicle is operating.

6 Jne 2014 SR 46/2014 s39.

Brakes

255.913(1) Every special mobile machine must be equipped with a braking system that is maintained in accordance with the manufacturer's instructions.

(2) All towed mobile equipment with a GVW greater than 1 360 kilograms must be equipped with:

(a) a braking system that is activated by the towing vehicle and maintained in accordance with the manufacturer's instructions; and

(b) a trailer break-away system that automatically activates the brakes on the towed vehicle in the event the towed vehicle disconnects from the towing vehicle.

(3) Subject to meeting the requirements set out in subsection 22(16), a towed vehicle without brakes may be towed by a towing vehicle if the towing vehicle's GVWR is twice the GVW of the towed vehicle.

6 Jne 2014 SR 46/2014 s39.

Fuel

255.914 The fuel system on a special mobile machine must be free of leaks and securely mounted and attached.

6 Jne 2014 SR 46/2014 s39.

Steering

255.915 If the vehicle is equipped with a steering system, that system must not have any broken, missing or excessively worn components.

6 Jne 2014 SR 46/2014 s39.

Suspension

255.916 If the vehicle is equipped with a suspension system, that system must:

(a) have no broken, missing or excessively worn components;

(b) prevent the axle from shifting from its normal position; and

(c) maintain the vehicle's directional stability.

6 Jne 2014 SR 46/2014 s39.

Chassis

255.917 The frame of the vehicle must support the vehicle, its load and, if equipped with a power train, the torque from the power source under all operating conditions without distortion.

6 Jne 2014 SR 46/2014 s39.

Lamps

255.918(1) A vehicle operated during the period from one-half hour after sunset to one-half hour before sunrise, or when visibility is less than 1 000 metres, must be equipped with the lamps set out in sections 255.919 to 255.922.

- (2) All lamps required pursuant to this Part, with the exception of headlamps, must:
- (a) comply with SAE standards; and
 - (b) emit a light that is visible from a distance of 200 metres on a clear night.
- (3) The use of securely mounted temporary lighting is permitted to meet the lighting requirements of this Part.

6 Jne 2014 SR 46/2014 s39.

Tail lamps

255.919 The vehicle must be equipped with at least one tail lamp that:

- (a) emits a red light that is clearly visible from a distance of at least 150 metres to the rear; and
- (b) is mounted on the rear of the vehicle to the left of the vehicle vertical centre-line, or, if two tail lamps are used, symmetrically mounted on either side of the rear of the vertical centre-line of the vehicle as far apart as is practicable.

6 Jne 2014 SR 46/2014 s39; 19 May 2017 SR 42/2017 s67.

Stop lamps

255.920 The vehicle must be equipped with at least one stop lamp that:

- (a) emits a red light that is clearly visible from a distance of at least 200 metres to the rear;
- (b) is activated by the brake system, or, if in a vehicle combination, by the braking system on the towing vehicle; and
- (c) is mounted on the rear of the vehicle to the left of the vehicle vertical centre-line, or, if two tail lamps are used, symmetrically mounted on either side of the rear vertical centre-line of the vehicle as far apart as is practicable.

6 Jne 2014 SR 46/2014 s39; 19 May 2017 SR 42/2017 s68.

Signal lamps

255.921 The vehicle must be equipped with two signal lamps that:

- (a) emit an amber or flashing light that is clearly visible from a distance of at least 200 metres to the rear;
- (b) are actuated by the signal lamp control or, if in a vehicle combination, by the signal lamp control on the towing vehicle; and
- (c) are symmetrically mounted on either side of the rear vertical centre-line of the vehicle as far apart as is practicable.

6 Jne 2014 SR 46/2014 s39; 19 May 2017 SR 42/2017 s69.

Headlamps

255.922 A special mobile machine must be equipped with at least two headlamps that:

- (a) emit a white light visible from a distance of 500 metres;
- (b) are symmetrically mounted on either side of the front vertical centre-line of the vehicle as far apart as is practicable and at the same height, no more than 1 370 millimetres from the ground measured at the centre of the lamp; and
- (c) are aimed so that if the vehicle is unloaded and on a flat surface, the low beam of the headlamp is illuminating a screen at a distance of 8 metres and:
 - (i) the left edge of the high intensity zone is not more than 100 millimetres right or left of straight ahead; and
 - (ii) the top edge of the high intensity zone is not more than 100 millimetres above or below the height of the lamp.

6 Jne 2014 SR 46/2014 s39; 19 May 2017 SR 42/2017 s70.

Reflectors

255.923(1) The vehicle must have reflectors or reflective tapes that:

- (a) are located:
 - (i) two facing the rear as far apart as is practicable and from 350 to 2 100 millimetres above the surface of the road;
 - (ii) two on each side as far apart as is practicable and from 380 millimetres to 530 millimetres above the surface of the road; and
 - (iii) one located near the horizontal mid-point on each side of the vehicle if the vehicle is over 10 metres in length;
 - (b) emit an amber reflection from the front-most and, if fitted, centre reflectors and a red reflection from the rearmost reflectors; and
 - (c) are visible on a clear night when illuminated by a type A vehicle headlamp at a distance of 60 metres.
- (2) For the purpose of subsection (1), lamps with reflective lenses may serve as reflectors.

6 Jne 2014 SR 46/2014 s39.

Retro-reflective markings

255.924 Towed mobile equipment that is 2 032 millimetres or more in overall width with a GVWR of more than 4 536 kilograms must be equipped with a conspicuity treatment in accordance with the requirements of CMVSS 108 in effect at the time the vehicle was manufactured.

6 Jne 2014 SR 46/2014 s39.

Windshield wiper

255.925 If a special mobile machine is operated during periods of precipitation, the special mobile machine must be equipped with at least one powered windshield wiper that provides the driver with an unobstructed view of the road.

6 Jne 2014 SR 46/2014 s39.

Rated hitch

255.926 If the vehicle is fitted with a trailer hitch, the trailer hitch of that vehicle and all towed vehicles must have a rated capacity equal to or greater than the GVW of all towed vehicles and their respective loads.

6 Jne 2014 SR 46/2014 s39.

Safety chain

255.927(1) If a towing vehicle has a hitch coupled by any means other than a fifth wheel, the towed vehicle must have a secondary coupling device that:

- (a) prevents complete disconnection from the towing vehicle in the event of an accidental disconnection of the primary coupling device; and
 - (b) prevents the tongue of the towed vehicle from dropping to the ground in the event that the primary coupling device becomes disconnected.
- (2) The secondary coupling device mentioned in subsection (1) must not be attached to the primary coupling device.
- (3) If the secondary coupling device is a cable or chain, it must be connected to the towed vehicle, looped under the tow bar and connected to the towing vehicle.
- (4) The secondary coupling device must have a breaking strength of not less than the GVW of all towed vehicles and any load carried on those vehicles.

6 Jne 2014 SR 46/2014 s39.

Mudflaps

255.928(1) The vehicle must have fenders or mudflaps for the full width of the tires that reduce the rearward projection of mud, gravel, water and snow from the tires.

(2) Subsection (1) does not apply if the vehicle is only operated on a dry paved surface.

6 Jne 2014 SR 46/2014 s39.

Appendix

FORM A

Slow Moving Vehicle Warning Device



(a) 33.5 cm

(b) 30.5 cm

4 Sep 87 cV-2.1 Reg 10.

FORM B

Overdimensional Sign — Power Unit

Repealed. 18 May 2012 SR 29/2012 s10.

FORM C

Overdimensional Sign — Pilot Car

Repealed. 18 May 2012 SR 29/2012 s10.

TABLE 1
[Section 2(3)]

0.80 millimetres	is equal to	1/32 inch
1.50 millimetres	is equal to	.060 inch
1.60 millimetres	is equal to	1/16 inch
2.25 millimetres	is equal to	.090 inch
3.00 millimetres	is equal to	.120 inch
3.20 millimetres	is equal to	1/8 inch
4.70 millimetres	is equal to	.185 inch
4.80 millimetres	is equal to	3/16 inch
6.40 millimetres	is equal to	1/4 inch
8.00 millimetres	is equal to	5/16 inch
9.60 millimetres	is equal to	3/8 inch
12.80 millimetres	is equal to	1/2 inch
25.60 millimetres	is equal to	1 inch
32.00 millimetres	is equal to	1 1/4 inches
38.40 millimetres	is equal to	1 1/2 inches
40.00 millimetres	is equal to	1 9/16 inches
44.80 millimetres	is equal to	1.75 inches
51.20 millimetres	is equal to	2 inches
64.00 millimetres	is equal to	2.5 inches
15 kPa	is equal to	2 psi
20 kPa	is equal to	3 psi
30 kPa	is equal to	4 psi
35 kPa	is equal to	5 psi
80 kPa	is equal to	12 psi
160 kPa	is equal to	25 psi
315 kPa	is equal to	45 psi
350 kPa	is equal to	60 psi
600 kPa	is equal to	100 psi
3600 Newtons	is equal to	800 pounds

TABLE 2
[Sections 45 and 185]

<i>Length</i> Maximum current	<i>0 - 6 m</i> Gauge	<i>6.001 - 12 m</i> Gauge	<i>Over 12 m</i> Gauge
4 amps	16	16	14
6 amps	16	14	14
8 amps	16	14	12
10 amps	16	12	12
15 amps	14	12	10
24 amps	12	10	8
50 amps	10	6	4

4 Sep 87 cV-2.1 Reg 10.

TABLE 3
[Sections 24 and 178]

Clamp Type Brake Chambers

Type	Outside Diameter	Brake Adjustment Limit
6	4 1/2" (114 mm)	1 1/4" (31.8 mm)
9	5 1/4" (133 mm)	1 3/8" (34.9 mm)
12	5 11/16" (145 mm)	1 3/8" (34.9 mm)
16	6 3/8" (162 mm)	1 3/4" (44.5 mm)
20	6 25/32" (172 mm)	1 3/4" (44.5 mm)
24	7 7/32" (184 mm)	1 3/4" (44.5 mm)
30	8 3/32" (206 mm)	2" (50.8 mm)
36	9" (229 mm)	2 1/4" (57.2 mm)

"Long Stroke" Clamp Type Brake Chambers

Type	Outside Diameter	Brake Adjustment Limit
12	5 11/16" (145 mm)	1 3/4" (44.5 mm)
16	6 3/8" (162 mm)	2" (50.8 mm)
20 (2.5" rated stroke)	6 25/32" (172 mm)	2" (50.8 mm)
20 (3" rated stroke)	6 25/32" (172 mm)	2 1/2" (63.5 mm)
24 (2.5" rated stroke)	7 7/32" (184 mm)	2" (50.8 mm)
24 (3" rated stroke)	7 7/32" (184 mm)	2 1/2" (63.5 mm)
30	8 3/32" (206 mm)	2 1/2" (63.5 mm)

Bolt Type Brake Chambers

Type	Outside Diameter	Brake Adjustment Limit
A	6 15/16" (176 mm)	1 3/8" (34.9 mm)
B	9 3/16" (234 mm)	1 3/4" (44.5 mm)
C	8 1/16" (205 mm)	1 3/4" (44.5 mm)
D	5 1/4" (133 mm)	1 1/4" (31.8 mm)
E	6 3/16" (157 mm)	1 3/8" (34.9 mm)
F	11" (279 mm)	2 1/4" (57.2 mm)
G	9 7/8" (251 mm)	2" (50.8 mm)

Rotochamber

Type	Outside Diameter	Brake Adjustment Limit
9	4 9/32" (109 mm)	1 1/2" (38.1 mm)
12	4 13/16" (122 mm)	1 1/2" (38.1 mm)
16	5 13/32" (138 mm)	2" (50.8 mm)
20	5 15/16" (151 mm)	2" (50.8 mm)
24	6 13/32" (163 mm)	2" (50.8 mm)
30	7 1/16" (180 mm)	2 1/4" (57.2 mm)
36	7 5/8" (194 mm)	2 3/4" (69.9 mm)
50	8 7/8" (226 mm)	3 (76.2 mm)

DD-3 Brake Chambers

Type	Outside Diameter	Brake Adjustment Limit
30	8 1/8" (206 mm)	2 1/4" (57.2 mm)

