

DRAFT

Land Transport Rule

Light-vehicle Brakes Amendment 2014

Rule 32014/4

Draft for public comment

Land Transport Rules are produced for the Minister of Transport.

*This is the public consultation (yellow) draft of **Land Transport Rule: Light-vehicle Brakes Amendment 2014** (Rule 32014/4). If you wish to comment on this draft Rule, please see the material headed 'Making a submission' in the overview. The deadline for submissions is **22 April 2014**.*

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Section 1 Application

1.1 Title

This Rule is *Land Transport Rule: Light-vehicle Brakes Amendment 2014*.

1.2 Commencement

This Rule comes into force on [1 July 2015].

1.3 Scope of Rule

This Rule amends *Land Transport Rule: Light-vehicle Brakes 2002*.

Section 2 Amendments to Rule requirements

2.1 Scope of the Rule

- 2.1(1) Replace *clause 1.2(1)* with:
- “1.2(1) This Rule applies to:
- “(a) brakes and electronic stability control systems in light motor vehicles; and
- “(b) brakes in vehicles of Class AA in *Table A* in *Part 2*.”.
- 2.1(2) In *clause 1.2(2)*, after “braking”, insert “and electronic stability control system”.
- 2.1(3) In *clause 1.2(2)(b)*, replace “brakes.”, with “brakes and electronic stability control systems.”.

2.2 Application of requirements

After *clause 2.1(2)*, insert:

“*Electronic stability control system*

- “2.1(3) The following motor vehicles must be fitted with an electronic stability control system unless the vehicle is specified in *2.1(4)*:
- “(a) a motor vehicle of Class MA, MB, MC or NA that was new when first registered in New Zealand and was first registered in New Zealand on or after 1 July 2015;
- “(b) a motor vehicle of Class MC that was used when first registered in New Zealand and was first registered in New Zealand on or after 1 January 2016;
- “(c) a motor vehicle of Class MA with an engine cylinder capacity exceeding 2000 cc that was used when first registered in New Zealand and was first registered in New Zealand on or after 1 January 2018;
- “(d) a motor vehicle of Class NA, MB, or MA other than a vehicle in *(c)*, that was used when first registered in New Zealand and was first registered in New Zealand on or after 1 January 2020.

“[**Note:** ‘new’ and ‘used’ are defined terms.]

- “2.1(4) The requirements in *2.1(3)* do not apply to:
- “(a) immigrants’ vehicles; or
- “(b) special interest vehicles; or
- “(c) motorsport vehicles that are operated in accordance with the conditions of a valid low volume vehicle

authority card issued for the vehicle in accordance with the Low Volume Vehicle Code; or

- “(d) motor vehicles first registered outside of New Zealand, or manufactured, twenty years or more before the date of first registration in New Zealand.

“[Note: ‘immigrant’s vehicle’ and ‘special interest vehicle’ are defined terms.]”

2.3 General safety requirements for electronic stability control

After *clause 2.5*, insert:

“2.6 General requirements for electronic stability control

“2.6(1) An electronic stability control system fitted in a motor vehicle must:

- “(a) improve vehicle directional stability by at least having the ability to automatically control individually the braking torques of the left and right wheels on each axle, or an axle of each axle group, to induce a correcting yaw moment based on the evaluation of actual vehicle behaviour in comparison with a determination of vehicle behaviour demanded by the driver; and
- “(b) be computer-controlled, with the computer using a closed-loop algorithm to limit vehicle oversteer and to limit vehicle understeer based on the evaluation of actual vehicle behaviour in comparison with a determination of vehicle behaviour demanded by the driver; and
- “(c) have a means to determine directly the value of the vehicle’s yaw rate and to estimate its side slip or side slip derivative with respect to time; and
- “(d) have a means to monitor driver steering inputs.

“2.6(2) An electronic stability control system, including all components of that system fitted in a motor vehicle, must be maintained in good working order.

“2.6(3) If a motor vehicle is fitted with a warning system that is part of, or associated with, an electronic stability control system, that warning system must function correctly.”.

2.4 Modification and repair

2.4(1) In *clause 3.1*, after “performance”, insert:

“or the proper functioning of its electronic stability control system”.

2.4(2) Replace *clause 3.2* with:

“A repair to a brake, to an electronic stability control system or to any other component of a vehicle that affects its braking performance or the functioning of the electronic stability control system must:

“(a) not prevent the vehicle from complying with this Rule; and

“(b) comply with *Land Transport Rule: Vehicle Repair 1998*.”.

- 2.4(3) In *clause 3.3(1)*, after “performance”, insert “or the functioning of an electronic stability control system”.

2.5 Responsibilities

- 2.5(1) In *clause 4.2*, after “brake”, insert “or electronic stability control system”.

- 2.5(2) In *clause 4.3*, after “performance”, insert “or the functioning of an electronic stability control system”.

- 2.5(3) In *clause 4.5*, after “components,” insert “including a component of an electronic stability control system,”.

Section 3 Amendments to Definitions

3.1 Insert new definitions

In *Part 2, Definitions*, insert in the appropriate places:

“**Electronic stability control system** means a system that electronically regulates the stability of a motor vehicle and has at least all of the requirements specified in *2.6(1)*.”

“**Immigrant’s vehicle** has the meaning given to it in *Land Transport Rule: Frontal Impact 2001*.”

“**New** in relation to a vehicle, means a vehicle that:

“(a) has not been registered and operated in New Zealand or any other country; and

“(b) has not been operated on a road in New Zealand or any other country as a demonstration or courtesy vehicle; and

“(c) has not been used for training or testing purposes; and

“(d) is not a low volume vehicle that contains components that have been fitted in a vehicle that has been operated on the road in New Zealand or in any other country.”

“**Special interest vehicle** has the meaning given to it in *Land Transport Rule: Frontal Impact 2001*.”

“**Used** in relation to a vehicle, means a vehicle, including a vehicle that has been used for the purpose of demonstration in connection

with the sale of a similar vehicle, that, at any time before being offered or displayed for sale, has been:

- “(a) registered in New Zealand or in any other country; or
- “(b) used for a purpose not connected with its manufacture or sale.”.