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### Economic Commission for Europe

#### Inland Transport Committee

#### World Forum for Harmonization of Vehicle Regulations

#### Working Party on Brakes and Running Gear

#### Sixty-ninth session

Geneva, 1–4 February 2011

Item 2 of the provisional agenda

#### Automatic Emergency Braking and Lane

#### Departure Warning Systems (AEBS/LDWS)

### Proposal for a Draft 01 Series of Amendments to the Regulation on advanced emergency braking system

#### Submitted by the Informal group on [Advanced](#) Emergency Braking and Lane Departure Warning Systems (AEBS/LDWS) \*

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The text reproduced below was prepared by the Informal group on [Advanced](#) Emergency Braking and Lane Departure Warning Systems (AEBS/LDWS) to introduce a phased approach of AEBS implementation via a 01 Series of Amendments to the draft Regulation on advanced emergency braking system.

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\* In accordance with the programme of work of the Inland Transport Committee for 2006–2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

## I. Proposal

*Paragraph 6.5.3.*, amend to read:

6.5.3. Moving target

The moving target shall be moving on the axis centre of the test course at a constant speed of

- (a)  $30^{+4}/_{-0}$  **10<sup>+4</sup>/<sub>0</sub> km/h for the vehicles of categories M<sub>3</sub> and N<sub>3</sub>, and**
- (b)  $30^{+4}/_{-0}$  **km/h for the vehicles of categories M<sub>2</sub> and N<sub>2</sub>.**

*Paragraph 6.7.3.2.*, amend to read:

6.7.3.2. a speed reduction of not less than [Y<sub>1</sub>] + 20 km/h for a vehicle of category M<sub>2</sub> before impacting with the moving target.

*Paragraph 6.7.3.3.*, amend to read:

6.7.3.3. a speed reduction of not less than [Y<sub>2</sub>] + 20 km/h for a vehicle of category N<sub>2</sub> before impacting with the moving target.]

*Paragraph 6.6.3.*, amend to read (with the addition of two paragraphs):

6.6.3. The speed reduction of the subject vehicle at the time of the impact with the stationary target shall be:

6.6.3.1. not less than ~~40~~ **20** km/h for a vehicle of Category N<sub>3</sub>,

6.6.3.2. not less than ~~40~~ **20** km/h for a vehicle of Category M<sub>3</sub>,

**6.6.3.3. not less than 10 km/h for a vehicle of Category N<sub>2</sub>,**

**6.6.3.4. not less than 10 km/h for a vehicle of Category M<sub>2</sub>.**

*Paragraph 6.7.2.1.*, amend to read:

6.7.2.1. At least one haptic or acoustic warning mode shall be provided,

(a) **in the case of a subject vehicle of categories M<sub>3</sub> and N<sub>3</sub> not later than [2.0s] before the start of the Emergency Braking phase.**

(b) **in the case of a subject vehicle of categories M<sub>2</sub> or N<sub>2</sub> not later than [1.4s] before the start of the Emergency Braking phase.**

~~6.7.2.1. At least one haptic or acoustic warning mode shall be provided not later than [1.4] s before the start of the Emergency Braking phase.~~

Insert new *Paragraph 12*, to read:

**Supprimé:** *Paragraph 1.*, amend to read (reference to footnote 1 and footnote 1 remain unchanged):¶

**1. Scope and purpose¶**

This Regulation applies to the approval of vehicles of category M<sub>2</sub>, N<sub>2</sub>, M<sub>3</sub> and N<sub>3</sub><sup>1</sup> equipped with a pneumatic braking system and pneumatic rear suspension with regard to an on-board system to mitigate or avoid a rear-end in lane collision.¶

## 12. Transitional provisions

12.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse to grant UNECE type approvals under this Regulation as amended by the 01 series of amendments.

~~12.2. As from [1 November 2016] Contracting Parties applying this Regulation shall grant UNECE type approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by the 01 series of amendments.~~

~~12.3. Contracting Parties applying this Regulation shall not refuse to grant UNECE type approvals and extensions of UNECE type approvals to the 00 series of amendments to this Regulation.~~

~~12.4. As from [1 November 2020] Contracting Parties applying this Regulation may refuse national or regional type approval of a vehicle type and may refuse first national or regional registration of a vehicle which does not meet the requirements of the 01 series of amendments to this Regulation.~~

~~12.5. No Contracting Party applying this Regulation shall refuse national or regional type approval of a vehicle type approved to the 01 series of amendments to this Regulation.~~

~~12.6. No Contracting Party applying this Regulation shall refuse first national or regional registration of a vehicle which complies with the requirements of the 01 series of amendments to this Regulation.~~

~~12.7. Until [01/11/2016], no Contracting Party applying this Regulation shall refuse national or regional type approval of a vehicle type approved to the 00 series of amendments to this Regulation.~~

~~12.8. Until [01/11/2020], no Contracting Party applying this Regulation shall refuse first national or regional registration of a vehicle which complies with the requirements of the 00 series of amendments to this Regulation.~~

~~12.9. As from [1 November 2016] UNECE type approvals to this Regulation shall cease to be valid, except in the case of vehicle types which comply with the requirements of this Regulation as amended by the 01 series of amendments.~~

~~12.10. Notwithstanding the transitional provisions above, Contracting Parties whose application of this Regulation comes into force after the date of entry into force of the 01 series of amendments are not obliged to accept UNECE type approvals which were granted in accordance with the 00 series of amendments to this Regulation.~~

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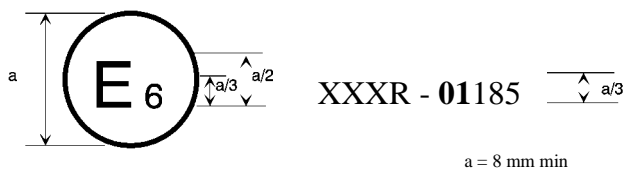
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Annex 2, amend to read:

## Annex 2

### Arrangements of approval marks

(see paragraphs 4.4. to 4.4.2. of this Regulation)



The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in Belgium (E6) with regard to the AEBS pursuant to Regulation No. XXX. The first two digits of the approval number indicate that the approval was granted in accordance with the requirements of **the 01 Series of Amendments to the Regulation No. XXX in its original form.**