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## **Economic Commission for Europe**

**Inland Transport Committee** 

## **World Forum for Harmonization of Vehicle Regulations**

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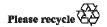
1958 Agreement - Consideration of amendments to draft Regulations submitted by GRRF

Proposal for amendments to draft Supplement 9 to the 11 series of amendments to Regulation No. 13 (Heavy vehicles braking) \*

## Submitted by the Working Party on Brakes and Running Gear \*\*

The text reproduced below was adopted by the Working Party on Brakes and Running Gear (GRRF) at its seventy-first session to update the cross references impacted by ECE/TRANS/WP.29/2011/94. It is based on GRRF-71-03 and is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration.

<sup>\*\*</sup> In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106 and ECE/TRANS/2010/8, 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.



<sup>\*</sup> This document has been submitted late in order to include information on the latest progress in this work.

Annex 11 – Appendix 2

Paragraph 2.2.2.2., amend to read:

"2.2.2.2. The brake input ... to produce diagram 2 of Annex 19-Part 1."

Paragraph 3.5.1., amend to read:

"3.5.1. Supplementary cold performance test

The preparation of ... with paragraph 4.4.2. of Annex 19-Part 1 of this Regulation.

In the case, ... according to paragraph 4.4.3. of Annex 19-Part 1 of this Regulation, ... verification according to paragraph 4.4.3. of Annex 19-Part 1.

It is permissible to carry out ... in accordance with paragraph 4. of Annex 19-Part 1 of this Regulation.

It is also ... one after the other.

Some brake applications according to Annex 19-Part 1, paragraph 4.4.2.6. may be ... by the brake manufacturer."

Paragraph 3.8., the second table, row (f), amend to read:

"

$ (f)  \text{Declared threshold torque $C_{0,de}$} $	It shall be checked that the brake performance remains within the corridors of Diagram 2 of Annex 19-Part1.
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Paragraph 3.9.1., amend to read:

"3.9.1. Test report number

The test report ... a dot or slash.

The base part  $\dots$  (according to paragraph 4. of Annex 19-Part 1 to this Regulation)."

Paragraph 4.3.1.1., amend to read:

"4.3.1.1. The predicted actuator ... the procedure defined in item paragraph 2. of Annex 19-Part 1 to this Regulation ... Appendix 1 of Annex 19."

Annex 11 – Appendix 3

Paragraph 2.3.3., amend to read:

"2.3.3. This item ... defined in paragraph 4. of Annex 19-Part 1 to this Regulation to ... brake factor  $(B_F)$ ."

Paragraph 4., amend to read:

"4. This test ... where appropriate paragraph 4. of Annex 19-Part 1 to Regulation No. 13 ... amendments."

Annex 19

Paragraph 4.4.2.9., amend to read:

"4.4.2.9. If the manufacturer ...

... The results of at least 3 tests in accordance with paragraph 4.4.3.4. of Annex 19-Part 1 conducted under the conditions of the laden Type-0 test..."

Annex 19 – Appendix 1

Paragraph 3.3.1., amend to read:

"3.3.1. Pressure range over which the above effective stroke is valid: (see paragraph 2.3.4. of Annex 19-Part 1)."

Annex 20

Paragraph 7.3.1.4., amend to read:

"7.3.1.4. With the brakes ... in accordance with paragraph 5.4.1.2.4.2. of Annex 19-Part 1 to this Regulation, the energy storage ..."

Paragraph 7.4.2.1., amend to read

"7.4.2.1. The relationship of ... referred to in paragraph 5.2. of Annex 19-Part 1 to this Regulation."

Paragraph 7.4.8.1., amend to read

"7.4.8.1. Any installation limitations ... referred to in paragraph 5.2. of Annex 19-Part 1 to this Regulation shall apply."

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