

Distr.  
GENERAL

TRANS/WP.29/GRRF/1999/10  
25 June 1999

Original: ENGLISH

**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

Working Party on the Construction of Vehicles

Working Party on Brakes and Running Gear (GRRF)  
(Forty-sixth session, 13-15 September 1999,  
agenda item 1.2.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 13-H  
(Harmonized braking)

Transmitted by the Expert from the International  
Organization of Motor Vehicle Manufacturers (OICA)

Note: The text reproduced below was prepared by the expert from the OICA in order to introduce into Regulation No. 13-H provisions identical with those which had been introduced into Regulation No. 13 (TRANS/WP.29/GRRF/1998/15). It is based on the text of a document distributed without a symbol (informal document No. 5) during the forty-fifth session of GRRF (TRANS/WP.29/GRRF/45, para. 14).

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Note: This document is distributed to the Experts on Brakes and Running Gear only.

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**A. PROPOSAL**

Paragraph 5.2.2.5., amend to read:

".... and the components referred to in paragraph 5.2.2.9. below, or of any other failure ....."

Paragraph 5.2.2.8., renumber as paragraph 5.2.2.9.

Insert a new paragraph 5.2.2.8., to read:

"5.2.2.8. If the service braking force and transmission depend exclusively on the use of an energy reserve, one energy reserve for the transmission is deemed to be sufficient, provided that the prescribed secondary braking is ensured by the action of the driver's muscular energy acting on the service brake control and the requirements of paragraph 5.2.5. are met."

Paragraph 5.2.5., amend to read:

"5.2.5. The requirements of paragraphs 5.2.2., 5.2.2.8., 5.2.3. and 5.2.4. above must be met without the use of ....."

Paragraph 5.2.13., amend to read:

"..... of ISO Standard 9128-1987 and the appropriate symbol, e.g. DOT 3/DOT 4/DOT 5/DOT 5.1. The symbols must be affixed ....."

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**B. JUSTIFICATION**

During its forty-fourth session, held on 21-23 September 1998, GRRF approved the OICA proposal to amend ECE Regulation No. 13 (TRANS/WP.29/GRRF/1998/15) - see TRANS/WP.29/GRRF/44, para. 16 - thereby requesting OICA to present a proposal to amend ECE Regulation No. 13-H accordingly.

The present proposal responds to this GRRF request.

Furthermore, OICA proposes an additional amendment to ECE Regulation No. 13-H with regard to the type of fluid to be used in hydraulic transmission braking systems. The aim of this additional proposal is to avoid any misinterpretation of the existing text and to ensure that vehicle manufacturers can choose the brake fluid most suited to their vehicles.

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