



**Economic and  
Social Council**

Distr.  
GENERAL

ECE/TRANS/WP.29/GRRF/2007/18/Rev.1  
26 November 2007

Original: ENGLISH  
ENGLISH AND FRENCH ONLY

---

**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

World Forum for Harmonization of Vehicle Regulations

Working Party on Brakes and Running Gear

Sixty-third session

Geneva, 4-8 February 2008

Item 6. of the provisional agenda

**REGULATION No. 90  
(Replacement brake linings)**

**Proposal for draft amendments to Regulation No. 90**

**Submitted by the expert from the European Association of Automotive Suppliers (CLEPA) <sup>\*/</sup>**

The text reproduced below was prepared by the expert from CLEPA in order to insert, where necessary, the references to Regulation No. 13-H. It is based on document ECE/TRANS/WP.29/GRRF/2007/18 (see also report ECE/TRANS/WP.29/GRRF/62, para. 32). The modifications to the current text of the Regulation are marked in **bold** and the amendments to ECE/TRANS/WP.29/GRRF/2007/18 are marked as strikethrough.

---

<sup>\*/</sup> 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 performance of vehicles. The present document is submitted in conformity with that mandate.

A. PROPOSAL

Paragraph 2.1., amend to read:

"2.1. "Braking system" has the meaning assigned in Regulation No. 13, paragraph 2.3., **or assigned in Regulation No. 13-H, paragraph 2.3.;**

Paragraph 2.7., amend to read:

"2.7. "Original brake lining" means a brake lining type referenced in the vehicles type approval documentation, Regulation No. 13, Annex 2, paragraph 8.1. 2/ **or Regulation No. 13-H, Annex 1, paragraph 7.1. 3/;** or Regulation No. 78, Annex 1, paragraph 5.4.;

Paragraph 3.2., amend to read:

"3.2. An application may be submitted by the holder of (a) vehicle type approval(s) to Regulation No. 13 **or to Regulation No. 13-H** or Regulation No. 78 in respect of replacement brake lining assemblies or replacement drum brake linings conforming to the type recorded in the vehicle type approval(s) documentation."

Insert new paragraphs 4.8. to 4.8.3., to read:

~~"4.8. Original brake lining assemblies and original drum brake linings offered in the market as replacement parts, which are of a type intended for fitment to a vehicle/axle/brake to which the relevant type approval document refers, do not need to comply with this Regulation, provided they fulfil the requirements in paragraphs 4.8.1. to 4.8.3.~~

~~4.8.1. Marking:~~

~~———— The brake lining assemblies or drum brake linings shall bear at least the following identifications:~~

~~4.8.1.1. Vehicle and/or component manufacturer's name or trade mark;~~

~~4.8.1.2. Make and identifying part number of the brake lining assembly or drum brake lining as recorded in the information mentioned in paragraph 4.8.3.~~

~~4.8.2. Packaging:~~

~~———— The brake lining assemblies or drum brake linings shall be packaged in axle sets in accordance with the following requirements:~~

~~4.8.2.1. Each package shall be sealed and constructed to show previous opening;~~

~~4.8.2.2. — Each package shall display at least:~~

~~4.8.2.2.1. — The quantity of brake lining assemblies or drum brake linings contained;~~

~~4.8.2.2.2. — Vehicle and/or component manufacturer's name or trade mark;~~

~~4.8.2.2.3. — Make and identifying part number(s) of the brake lining assembly (assemblies) or drum brake lining(s), as recorded in the information mentioned in paragraph 4.8.3.;~~

~~4.8.2.2.4. — Part number(s) of the axle set, as recorded in the information mentioned in paragraph 4.8.3.;~~

~~4.8.2.2.5. — Sufficient information for the customer to identify the vehicles/axles/brakes for which the contents are approved.~~

~~4.8.2.3. — Each package shall contain fitting instructions with particular reference to ancillary parts and stating that the brake lining assemblies must be replaced in axle sets.~~

~~4.8.2.3.1. — The fitting instructions may alternatively be supplied in a separate transparent container together with the brake lining assembly package.~~

~~4.8.3. — The vehicle manufacturer shall provide to the technical service and/or approval authority the necessary information in electronic format which makes the link between the relevant part numbers and the type approval documentation.~~

~~————— This information shall contain:~~

~~————— (a) make(s) and type(s) of vehicle;~~

~~————— (b) make(s) and type(s) of brake lining;~~

~~————— (c) part number(s) and quantity of the brake lining assemblies or drum brake linings;~~

~~————— (d) part number(s) of the axle set;~~

~~————— (e) type approval number of the braking system of the relevant vehicle type(s)."~~

Paragraph 5.1., amend to read:

"5.1. General

A replacement ..... vehicle type.

Specifically:

(a) a vehicle equipped with replacement brake lining assemblies or replacement drum brake linings shall satisfy the relevant braking prescriptions of

Regulation No. 13 including the 10 series of amendments **or of Regulation No. 13-H** or Regulation No. 78 including the 03 series of amendments;

(b) a replacement .....

....."

Paragraph 5.1.1., amend to read:

"5.1.1. Replacement brake lining assemblies or replacement drum brake linings conforming to the type specified in vehicles type approval documentation to Regulation No. 13 **or to Regulation No. 13-H** or Regulation No. 78, are deemed to satisfy the requirements of paragraph 5. of this Regulation."

Insert a new paragraph **6.4.5.**, to read:

**"6.4.5. The fitting instructions may alternatively be supplied in a separate transparent container together with the brake lining assembly package."**

Annex 3

Paragraphs 1. to 1.2., amend to read:

"1. **Conformance with Regulation N°13 or with Regulation No. 13-H**

Compliance with the requirements of Regulation No. 13 **or with Regulation No. 13-H** shall be demonstrated in a vehicle test.

1.1. Test vehicle

A vehicle which is representative of the type(s) for which the replacement brake lining assembly approval is required shall be equipped with the replacement brake lining assemblies of the type for which approval is requested and instrumented for brake testing as required by Regulation No. 13 **or by Regulation No. 13-H.**

Brake linings submitted for test shall be fitted to the relevant brakes and, until a fixed burnishing procedure is established, shall be burnished to the manufacturer's instructions in agreement with the technical service.

1.2. The braking system of the vehicle shall be tested according to the requirements for the vehicles category in question ( $M_1$ ,  $M_2$  or  $N_1$ ) in Regulation No. 13, Annex 4, paragraphs 1. and 2. **Regulation No. 13-H, Annex 3, paragraphs 1. and 2.** The applicable requirements or tests are:"

Paragraph 1.3., amend to read:

"1.3. The vehicle **shall** satisfy all the relevant requirements stated in Regulation No. 13, Annex 4, paragraph 2 **or in Regulation No. 13-H, Annex 3, paragraph 2.** for that category of vehicles."

B. JUSTIFICATION

1. The references to Regulation No. 13-H have been added where necessary.

~~2. The marking and packaging requirements for original parts offered on the market as replacement parts have been clarified and aligned with the provisions of European Union Directive 71/320/EEC. In this Directive, the provisions are in the part addressing the braking system approval (i.e. corresponding to UNECE Regulation No. 13). In the UNECE Regulations, as some Contracting Parties which signed Regulations Nos. 13 and 13 H have not signed Regulation No. 90, these requirements have been inserted in Regulation No. 90 and using the model of Regulation No. 103 on replacement catalytic converters.~~

2. The original document was revised as suggested during the sixty-second session of GRRF (see report ECE/TRANS/WP.29/GRRF/62, para. 32). The marking and packaging provisions were deemed worthy of a separate discussion.

-----