

**Economic and Social Council**Distr.: General  
10 July 2019

Original: English

---

**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations****Working Party on Automated/Autonomous and Connected Vehicles\*****Fourth session**

Geneva, 24-27 September 2019

Item 10 of the provisional agenda

**UN Regulation No. 90****Proposal for Supplement 5 to the 02 Series  
of Amendments to UN Regulation No. 90  
(Replacement brake linings, pads, disks and drums)****Submitted by the expert from Russian Federation\*\***

This proposal aims at alignment of the provisions of UN Regulation No. 90 related to approval numbers and markings in line with the provisions of Schedule 4 to the 1958 Agreement addressing the concern raised by the Informal Working Group on the International Whole Vehicle Type Approval (IWG on WVTA) at the 175th WP.29 session (ECE/TRANS/WP.29/1139, para. 67). It is based on the working document ECE/TRANS/WP.29/GRVA/2019/11. The modifications reflect on the results of the discussion of this proposal at the second GRVA session. The modifications are marked in bold for new or strikethrough for deleted characters.

---

\* Formerly: **Working Party on Brakes and Running Gear (GRRF)**.

\*\* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, Cluster 3), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



# I. Proposal

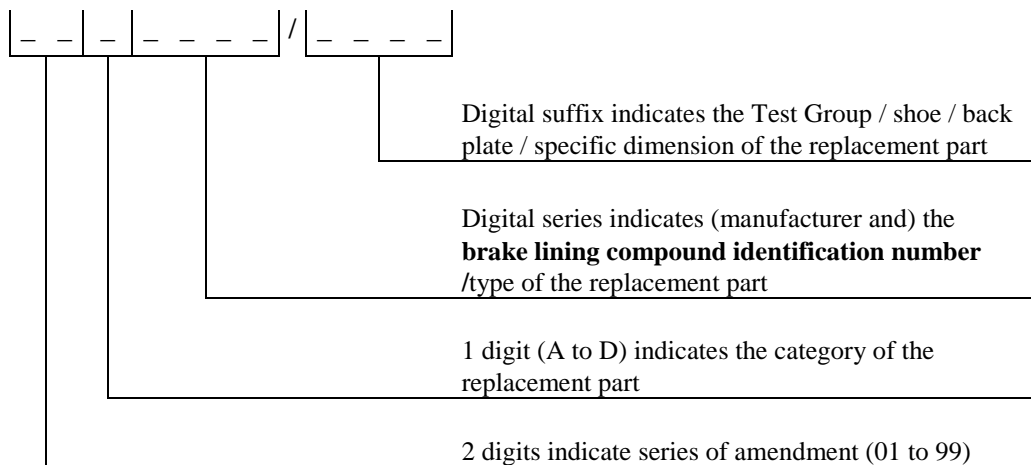
In paragraph 2., "Definitions" new paragraphs 2.1.4., 2.1.5. and 2.3.14. insert to read:

- "2.1.4. **"Approval code"** means a series of digits assigned by a Contracting Party to a product in the format according to paragraph 4.2. as a result of the approval process stipulated in this Regulation, and used as an approval mark on the product.
- 2.1.5. **"Approval number"** means a number assigned by a Contracting Party to an approval code, in the format according to Schedule 4 to the Revision 3 of the 1958 Agreement, which is displayed neither on product, nor on labelling attached to this product or its packaging."
- "2.3.14. **"Brake lining compound identification number"** defines the specific chemical composition of a replacement brake lining and brake lining assembly."

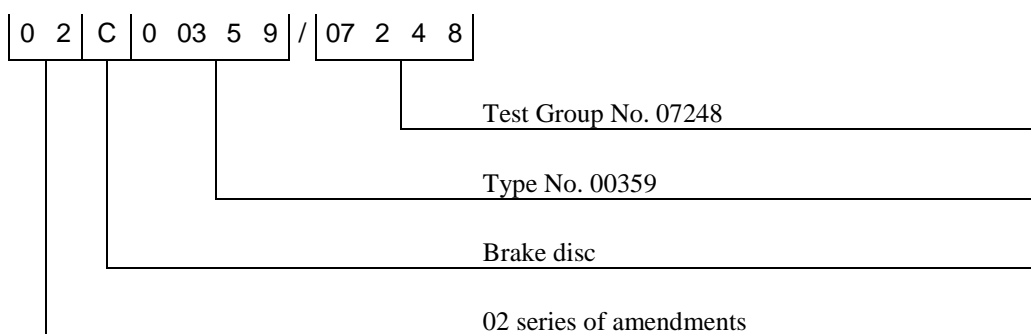
Paragraph 4., amend to read:

## "4. Approval

- 4.1. ...
- 4.1.1. ...
- 4.2. To each replacement part approved there shall be assigned an approval **code and an approval number, the latter in the format according to Schedule 4 to the Revision 3 of the 1958 Agreement. The approval code shall comprise ~~comprising~~ four groups of digits:**
  - 4.2.1. ...
  - 4.2.2. ...
  - 4.2.3. The next series of digits shall indicate the manufacture and the ~~type~~ **brake lining compound identification number** of the brake lining, the type of disc or the type of drum.  
 The digital suffix shall indicate:
    - (a) The shoe or back plate or specific dimension in the case of drum brake linings;
    - (b) The Test Group in the case of a replacement disc or replacement drum.
 The variants approved as a Test Group shall be listed as an appendix to the communication document:



Example:



- 4.2.4. In the case of brake lining assemblies for vehicles of category L, brake lining assemblies belonging to the same group defined according to the criteria of Annex 7a, shall be assigned the same approval **code and approval** number of the one assigned to the representative brake lining assembly.
- 4.3. The same Contracting Party may not assign the same **approval code and/or the same approval** number to ~~another~~ a replacement part of the **different grade/type**. The same type approval number **and approval code** may cover the use of that replacement part on a number of differing vehicle types.
- ...
- 4.5.2. The number of this Regulation, followed by the letter "R", a dash and the approval ~~number~~ **code** to the right of the circle prescribed in paragraph 4.5.1.
- ...
- 4.8. The approval markings required by this UN Regulation may not be replaced by a Unique Identifier (UI) described in Schedule 5 to the 1958 Agreement."**

*Paragraph 6.2.2. and subparagraphs (Packaging and marking), amend to read:*

- "6.2.2. Marking
- Every brake disc/drum approved in accordance with this Regulation shall be durably marked with at least the following information:
- 6.2.2.1. Manufacturer's name or trade mark;
- 6.2.2.2. The approval ~~number~~ **code**;
- 6.2.2.3. ..."

*Paragraph 12., add the following subparagraphs 12.4., 12.5. and 12.6., to read:*

- "12.4. As from the official date of entry into force of Supplement 5 to the 02 series of amendments to this UN Regulation, no Contracting Party applying this UN Regulation shall refuse to grant or refuse to accept UN type-approvals according to Supplement 5 to the 02 series of amendments to this UN Regulation.**
- 12.5. Until 1 March 2021, Contracting Parties applying this UN Regulation can continue to grant UN type-approvals to the 02 series of amendments to this UN Regulation without taking into account the provisions of Supplement 5.**
- 12.6. Contracting Parties applying this UN Regulation can continue to extend existing UN type-approvals to the 02 series of amendments to this UN Regulation without taking into account the provisions of Supplement 5."**

Annex 1A, «Communication», amend to read as follows, including the addition of the two new footnotes 3 and 4:

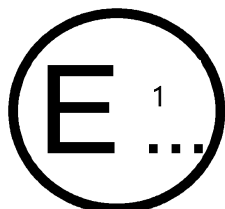
## "Annex 1A

### Communication

(Maximum format: A4 (210 x 297 mm))

issued by: Name of administration:

.....  
.....  
.....



Concerning<sup>2</sup>: Approval granted  
Approval extended  
Approval refused  
Approval withdrawn  
Production definitively discontinued

of a replacement brake lining assembly or replacement drum brake lining pursuant to Regulation No. 90

Approval No. Code <sup>3</sup> .....

**Approval Extension** No<sup>4</sup> .....

1. ... "

---

<sup>1</sup> Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).

<sup>2</sup> Strike out what does not apply.

<sup>3</sup> **According to paragraph 4.2. of this Regulation.**"

<sup>4</sup> **According to Schedule 4 to the 1958 Agreement.**

Annex 1B, "Communication", amend to read (including the addition of the two new footnotes 3 and 4):

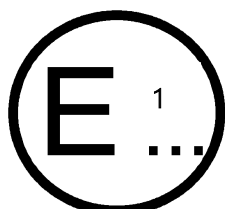
## "Annex 1B

### Communication

(Maximum format: A4 (210 x 297 mm))

issued by: Name of administration:

.....  
 .....  
 .....



Concerning<sup>2</sup>: Approval granted  
 Approval extended  
 Approval refused  
 Approval withdrawn  
 Production definitively discontinued

of a replacement brake disc or a replacement brake drum pursuant to Regulation No. 90

Approval No. Code <sup>3</sup> ..... **Approval Extension** No<sup>4</sup> .....

1. ... "

<sup>1</sup> Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).

<sup>2</sup> Strike out what does not apply.

<sup>3</sup> **According to paragraph 4.2. of this Regulation."**

<sup>4</sup> **According to Schedule 4 to the 1958 Agreement.**

## II. Justification

1. In order to align the provisions of UN Regulation No. 90 related to approval numbers and markings in line with the provisions of Schedule 4 to the Revision 3 of the 1958 Agreement, it is proposed to match the approval number that is granted in accordance with the current provisions of UN Regulation No. 90 with the other approval number having the structure stipulated in Schedule 4 and to mention the both of them in the communication form (Annexes 1A and 1B to UN Regulation No. 90). To distinct between the two approval numbers, the current one is renamed to the «approval code».

2. The both numbers should be unique, so no repetition or inconsistency with approval numbering could be foreseen.

3. The definitions for the terms «approval code» and «approval number» are added to ensure understanding that an approval code is granted as a result of the approval process pursuant to UN Regulation No. 90 and an approval number is assigned to the specific approval code. This is also reflected in the amended paragraph 4.2.

Example:

Current Approval No. (Approval Code)		Approval No. granted in accordance with Schedule 4
02 C 0359 7248	=	E2*90R02/03*0004*00

(Brake disc (C) Type No. 0359 Variant No. 7248 has the approval number 0004 in original version pursuant to UN Regulation No. 90-02, Supplement 3).

4. In the communication forms (Annexes 1A and 1B) approval code (former approval number) is positioned on the same place to keep the current outlook of the communication form known by authorities and the approval number is positioned on the same line on the right side of the page substituting the position for the former extension number, as this number now is included in the format of the approval number according to Schedule 4 to the 1958 Agreement.
  5. The new footnotes 3 and 4 in each Annex 1A and 1B are added for the sake of clarity.
  6. This proposal does not concern the current provisions of UN Regulation No. 90 related to application of approval marks.
  7. The transitional provisions in paras. 12.4. and 12.5. are added in accordance with General Guidelines for United Nations regulatory procedures and transitional provisions in UN Regulations (ECE/TRANS/WP.29/1044/Rev.2), paras. 43. and 44. In addition, para. 12.6. is added to allow extensions of existing approvals without taking into account the provisions of the newly introduced Supplement.
  8. The word “type” is used frequently in this Regulation but with different meanings and is defined only in the context of a brake disc/drum in paragraph 2.3.6. For the context of replacement brake linings, the wording “Brake lining compound identification number” has therefore been introduced and defined (para. 2.3.14.).
  9. Since the proposed approach involves two approval numbers of different format allocated to the same product, in order to avoid confusion, the replacement of the approval mark defined in paragraph 4. "Approval" by a Unique Identifier (UI) described in Schedule 5 to the 1958 Agreement is not permitted in this UN Regulation.
-