

## **Proposal for amendments to Regulation No. 90 (Replacement brake linings)**

### **1. Scope**

- 1.1. This Regulation applies to the basic braking function of the following replacement parts<sup>1</sup>:
  - 1.1.1. Replacement brake lining assemblies intended for use in friction brakes forming part of a braking system of vehicles of category M, N, L and O which have a type approval in accordance with Regulations Nos. 13, 13-H or 78.
  - 1.1.2. Replacement drum brake linings designed to be riveted to a brake shoe for fitment to and use on vehicles of category M<sub>3</sub>, N<sub>2</sub>, N<sub>3</sub>, O<sub>3</sub> or O<sub>4</sub> having a type approval in accordance with Regulation No. 13.
  - 1.1.3. The replacement brake lining assemblies used for separate parking brake systems being independent of the vehicle service brake system will be subject only to the technical prescriptions defined in Annex 8 of this Regulation.
  - 1.1.4. Replacement brake drums and discs intended for use in friction brakes forming part of a braking system of vehicles of category M, N and O which have a type approval in accordance with Regulation No. 13 or Regulation No. 13-H.
- 1.2. Original brake discs, ~~and~~ brake drums, **brake lining assemblies and drum brake linings** fitted at time of manufacturing of the vehicle and original replacement **brake** discs, ~~and~~ brake drums, **brake lining assemblies and drum brake linings** intended for the servicing of the vehicle are not subject to this Regulation.
- 1.3. This Regulation does not apply to "Special parts", as defined in paragraph 2.3.4.

---

<sup>1</sup> It does not apply to possible additional functions of replacement parts as for example speed sensing in the case of integrated speed sensing devices or guidance of the wheels in the case of integrated hubs.

Table A11/1B ...."

*Paragraph 3.2.1.2*

"(c) When testing brake discs and drums for vehicles with more than 2 axles:

$$m = 0,55 m_{\text{axle}}$$

$m_{\text{axle}}$ : **maximum technically** permitted mass of the axle"

*Annex 12*

*Paragraph 3.2.1.2*

"3.2.1.2. Test mass

The test mass for calculating the inertia mass shall be as follows:

$$m = 0,55 m_{\text{axle}}$$

$m_{\text{axle}}$ : **maximum technically** permitted mass of the axle"

**Justification**

- 1) The scope has been expanded to clarify that like original brake discs and drums, original brake lining assemblies & drum brake linings are also not subject to this regulation
- 2) The definition of  $m_{\text{axle}}$  has been expanded to add clarity and harmonise with Annexe 11 – Appendix 1, Table 1 of R13