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Item 5.2. of the provisional agenda

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 30
(Pneumatic tyres)

Submitted by the experts from the European Tyre and Rim Technical Organisation (ETRTO)

Note: The text reproduced below has been prepared by the experts from ETRTO in order to add to Regulation No. 30 a new tyre to rim fitment configuration referred to as type "U". These tyres have an asymmetrical bead construction, where the outboard bead seat diameter is larger than the bead seat diameter on the inboard side. This new configuration is similar to the existing configuration called type A, but the inner and outer seats are reversed. The modifications to the existing text of the Regulation are marked in **bold** characters.

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

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A. PROPOSAL

Paragraph 2.10.1., amend to read:

"2.10.1. However, in case of tyres identified by the "tyre to rim fitment configuration" (see para. 3.1.10.) symbol "A" **or** "U", it means the area of the tyre which is seating on the rim."

Paragraph 2.19.1., amend to read:

"2.19.1. "Tyre to rim fitment configuration" means the type of rim to which the tyre is designed to be fitted. In the case of non-standard rims this will be identified by a symbol applied to the tyre, for example, "CT", "TR", "TD", ~~or~~ "A" **or** "U"."

Paragraph 3.4.1., amend to read:

"3.4.1. However, for tyres identified by the "tyre to rim fitment configuration" (see para. 3.1.10.), symbol "A" **or** "U", the markings may be placed anywhere on the outside sidewall of the tyre."

Paragraph 6.1.1.3., amend to read:

"6.1.1.3. However, for tyres identified by the "tyre to rim fitment configuration" (see para. 3.1.10.) symbol "A" **or** "U", K shall be taken equal to 0.6."

Paragraph 6.1.2.3., amend to read:

"6.1.2.3. However, for tyres identified by the "tyre to rim fitment configuration" (see para. 3.1.10.) symbol "A" **or** "U", the outer diameter shall be that specified in the tyre size designation as shown on the sidewall of the tyre."

Paragraph 6.1.4.2.4., amend to read:

"6.1.4.2.4. However, for tyres identified by the "tyre to rim fitment configuration" (see para. 3.1.10.) symbol "A" **or** "U", the overall width of the tyre, in the lower area of the tyre, equals the nominal width of the rim on which the tyre is mounted, as shown by the manufacturer in the descriptive note, increased by 20 mm."

Paragraph 6.1.5.1., amend to read:

"6.1.5.1. for sizes listed in annex 5, and for tyres identified by the "tyre to rim fitment configuration" (see para. 3.1.10.) symbol "A" **or** "U", the nominal section height H is"

Annex 3, paragraphs 2. and 3., amend to read:

"2. In the particular case of tyres having a tyre to rim fitment configuration "A" or "U", the marking shall be in the form of the following example:

185-560 R 400A, **or 185-560 R 400U** where:

185 is the nominal section width in mm,

560 is the outer diameter expressed in mm,

R is an indication of the structure of the tyre – see paragraph 3.1.3. of this Regulation,

400 is the nominal diameter of the rim expressed in mm,

A **or** U is the tyre to rim fitment configuration.

The marking of the load index, speed category, date of manufacture and other markings, shall be as given in example 1 above.

3. The positioning and order of the markings constituting the tyre designation shall be the following:

(a) the size designation as defined in paragraph 2.17. of this Regulation shall be grouped as shown in the above examples: 185/70 R 14 and 185-560 R 400A **or 185-560 R 400U**;

(b) the service description"

B. JUSTIFICATION

The current tyre to rim fitment configuration type A specifies a tyre and rim combination with two different rim diameters. On a vehicle, the outward facing diameter is smaller than the inner facing diameter. By creating a new configuration called type U, tyre and rim manufacturers will be able to make products where the larger diameter faces the outside of the vehicle. This new configuration will offer certain technical advantages. In particular, for the same visible rim diameter on the outer side of the vehicle, the inner sidewall of the new U type tyre to rim fitment configuration will be longer than the current configuration, allowing better absorption of shocks.
