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Item 12(c) of the provisional agenda

Other Business – Development of an International

Whole Vehicle Type Approval (IWVTA)

Proposal for Supplement 18 to Regulation No. 4 (Rear registration plate lamps)

Submitted by the experts from Japan and Finland*

The text reproduced below was prepared by the experts from Japan and Finland introducing registration plates used in non-European Contracting Parties based on GRE-70-30. The modifications to the existing text of the UN Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate

I. Proposal

Paragraph 1.1, amend to read:

"1.1. "Rear registration plate lamp" means the device for the illumination of rear registration plates, hereinafter called "illuminating device", which illuminates the rear registration plate by reflection. For the approval of this device, the illumination of the space to be occupied by the plate is determined. **The illuminated areas are grouped into the following categories:**"

Insert new paragraphs 1.1.1. to 1.1.5., to read:

"1.1.1. **Category 1a: illuminated area for use on a vehicle mounted a registration plate, the size of which is 340 x 240 mm or less (tall plate).**

1.1.2. **Category 1b: illuminated area for use on a vehicle mounted a registration plate, the size of which is 520 x 120 mm or less (wide plate).**

1.1.3. **Category 1c: illuminated area for use on a vehicle mounted a registration plate, the size of which is 255 x 165 mm or less (plate for agricultural or forestry tractors).**

1.1.4. **Category 2a: illuminated area for use on a vehicle mounted a registration plate, the size of which is 330 x 165 mm or less.**

1.1.5. **Category 2b: illuminated area for use on a vehicle mounted a registration plate, the size of which is 440 x 220 mm or less."**

Paragraph 2., amend to read:

"2. Application for approval

The application for approval shall be submitted by the holder of the trade name or mark or by his duly accredited representative. It shall specify whether the device is intended to illuminate **the area, category 1a, 1b, 1c, 2a, 2b, a wide plate (520 x 120 mm), tall plate (340 x 240 mm), plate for agricultural or forestry tractors (120 x 165 mm)** or any combination of those ~~plates~~ **areas according to 1.1.1. -5.**

At the choice of the applicant,"

Annex 2,

Item 9, amend to read:

"9. Concise description: ^{3/}

Device for illuminating:

~~a tall plate~~

~~a wide plate~~

~~a plate for agricultural or forestry tractor~~

Category 1a, 1b, 1c, 2a, 2b^{2/}

Number and category(ies) of filament lamp(s):

....."

Annex 3, amend to read:

Annex 3
MEASUREMENT POINTS FOR TEST PURPOSES

(a) **Category 1a**

~~devices for illuminating a tall plate (340 x 240 mm)~~

.....

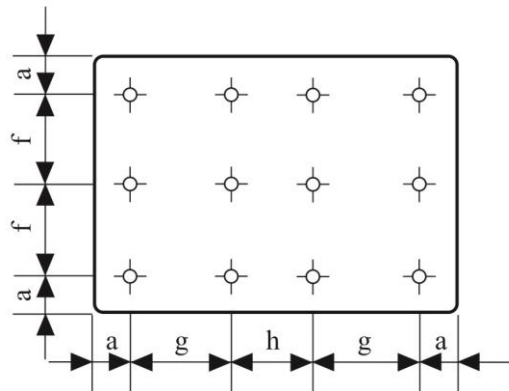
(b) **Category 1b**

~~devices for illuminating a wide plate (520 x 120 mm)~~

.....

(c) **Category 1c**

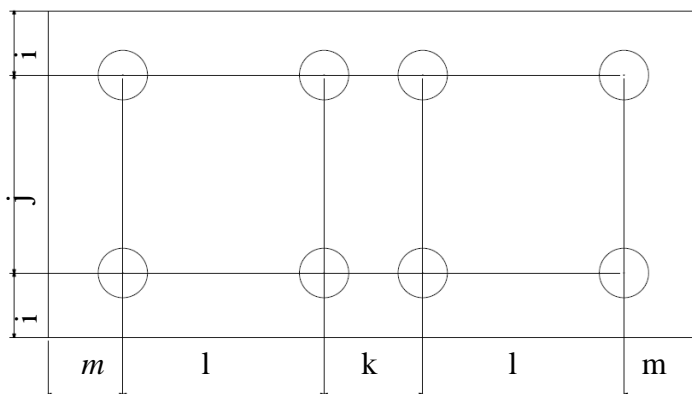
~~devices for illuminating a plate for agricultural or forestry tractors (255 x 165 mm)~~



- | | | | |
|-----------|-------------|-------------------------|-------------------------|
| a = 25 mm | b = 95 mm | c = 100 mm | d = 90 mm |
| e = 70 mm | f = 57.5 mm | g = 65 70 mm | h = 60 65 mm |

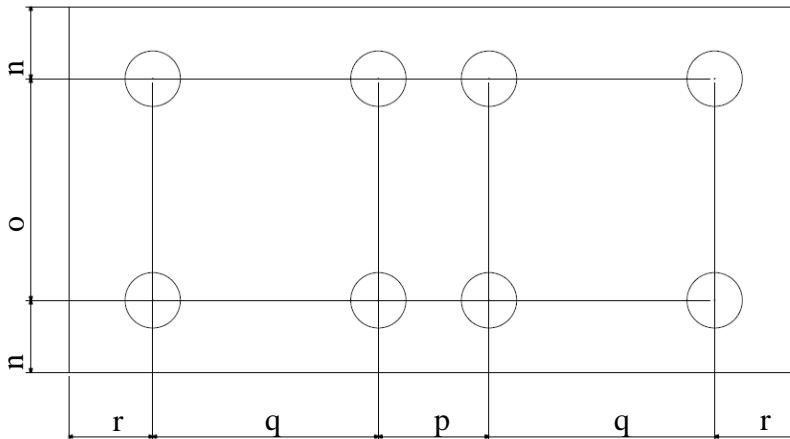
.....

Category 2a (330 x 165 mm)



- i = 32.5mm**
- j = 100mm**
- k = 50mm**
- l = 100mm**
- m = 40mm**

Category 2b (440 x 220 mm)



n=50mm

o=120mm

p=50mm

q=145mm

r=50mm

II. Justification

1. Currently, no uniform international standard on the sizes of registration plates exists, and each country/region uses its own unique registration plate.
 2. UN Regulation No. 4 specifies requirements regarding the function to illuminate registration plates that are used primarily in Europe. In order to extend the categories of different plate sizes used in non-European Contracting Parties to the 1958 Agreement, Japan proposed at the sixty-ninth session of GRE to include the devices that have the function to illuminate areas where registration plates of non-European Contracting Parties to the 1958 Agreement can be mounted, in addition to the plates already specified in the Regulation, while ensuring the conspicuity of these plates. We considered that this would make it possible to obtain approvals simultaneously for the devices intended to illuminate plates used in Contracting Parties to the 1958 Agreement in Europe as well as outside of Europe and to extend mutual recognition of approvals, thereby facilitating IWVTA.
 3. We surveyed the sizes of registration plates currently used around the world and studied how we could optimize the illuminated areas. The results show that adding two new categories will allow Japan and many other countries to accede to Regulation No. 4.
 4. In this proposal, each category of illuminated areas is defined more precisely by paragraphs 1.1.1. to 1.1.5 in relation to the size of the space to be illuminated for each registration plate. However the same device can be approved (at the same time or in different times by extension of the original approval) for more than one or a combination of illuminated areas.
 5. The applicant shall choose the category matching the size of the registration plate the vehicle will be fitted with. Even if the applicant does not choose a registration plate lamp that can be approved as an adequate category, safety can be maintained because contracting party rejects the application, according to Regulations Nos. 4 or 48.
 6. Minimum registration plate space requirements for type-approval of agricultural or forestry tractors in the European Union were amended in the late 1990s. Directive 98/38/EC changed the measurements from 240 x 165 mm to 255 x 165 mm. However, the illuminated area of the rear registration lamp in UN Regulation No. 4 was not changed. This proposal harmonises these measurements amending the illuminated area of Category 1c lamp from 240 x 165 mm to 255 x 165 mm. Measurements points for test purposes are modified accordingly. The 15 mm increase in width is relatively small, thus a new series of amendments with transitional provisions is probably not necessary.
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