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Item 4.11. of the provisional agenda

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 48

(Installation of lighting and light-signalling devices)

Submitted by the expert from Italy

Note: The text reproduced below was prepared by the expert from Italy in order to update the conditions for determining the presence of a lamp due to the new technologies applied to the lamp design and electrical connections. The modifications to current text of the Regulation (up to Supplement 1 to the 03 series of amendments) are marked in **bold** characters.

Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

A. PROPOSAL

Paragraph 5.22., amend to read:

- "5.22. With the exception of retro-reflectors, a lamp even bearing an approval mark is deemed not to be present:
- (a) **in the case of a single function lamp**, when it cannot be made to operate by the sole installation of a light source;
 - (b) **in the case of a lamp in which more than one functions are reciprocally incorporated or combined, when it cannot be made to operate by the driver even with the use of tools, notwithstanding that the light source(s) is (are) present in the lamp.**"

B. JUSTIFICATION

This proposal aims to update the conditions for determining the presence of a lamp (or, better saying "function") on the vehicle, taking into consideration the new technologies applied to the lamp construction (multi light sources, double voltage, light-emitting diode (LED)) and to the electrical connections (possibility of allowing or not the activation of a certain function/device by electronic means).

The present requirements, applicable to evaluate whether a lamp is present or not on the vehicle, are not applicable to a lamp incorporating or combining more than one function and applying one of the technologies described above.

Since some conditions exist where one of the functions incorporated or combined in the same lamp shall (or may) not be considered as present for certain countries or vehicle versions, it is useful to include more conditions in order to define such function as "not present".

The modern technologies applied to the electrical connections of lamps are such that electronic means, not accessible to the driver but only to the manufacturer, can be used to allow or not the activation of the lighting and light-signalling functions of the vehicle adapting them to different destination countries or different vehicle versions.

Since these electronic means provide a very high level of protection against inappropriate manipulation, the expert from Italy believes that paragraph 5.22. should refer to them in order to cover those lamps to which the current requirements are not applicable.

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