



Economic and Social Council

Distr.: General
27 July 2022

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Eighty-seventh session

Geneva, 25–28 October 2022

Item 6 (a) of the provisional agenda

Installation UN Regulations:

UN Regulation No. 48 (Installation of Lighting and Light-Signalling Devices)

Proposal for a Supplement to the 03, 04, 05, 06, 07 and 08 series of amendments to UN Regulation No. 48

Submitted by the experts from the International Automotive Lighting and Light-Signalling Expert Group*

This document was prepared by the experts from the International Automotive Lighting and Light-Signalling Expert Group (GTB) with the aim to correct and clarify the provisions for matched pairs. The proposed modifications to the current 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 2022 as outlined in proposed programme budget for 2022 (A/76/6 (Sect.20), para 20.76), 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

Paragraph 5.5.3. and 5.5.4., amend to read:

- “5.5.3. Satisfy the same colorimetric requirements. ~~and have substantially identical photometric characteristics. This shall not apply to a matched pair of Class F3 front fog lamps~~
- 5.5.4. Have substantially identical photometric characteristics. **This shall not apply to a matched pair of a function and/or an AFS.”**

II. Justification

1. Headlamps approved under the 01 series of amendments to UN Regulation No. 149 may be type-approved as matched pairs. It has become necessary to change the requirement of paragraph 5.5.4. of UN Regulation No. 48, exempting of symmetry not only the photometry of a matched pair front fog lamps, but all matched pair functions.
 2. Adaptive front-lighting systems (AFS) lamps (approved under UN Regulation No. 123 or UN Regulation No. 149) for which photometric requirements of a lighting function may apply to half-of-the-sum, need also to be exempted of symmetry for the photometric values.
 3. Lamps approved according to the 01 series of amendments to UN Regulation No. 149 may be installed on vehicles approved according to the 03, 04 ,05, 06, 07 and 08 series of amendments to UN Regulation No. 48. Therefore, the proposed modification needs to be implemented on all these series.
 4. In the current UN Regulation No. 48, the requirement regarding “substantially identical photometric characteristics” is doubled (contained in both paragraphs 5.5.3. and 5.5.4.). This proposal aims to correct that by leaving the colorimetric symmetry requirement in paragraph 5.5.3. (for all functions) and by specifying the photometric symmetry requirements in paragraph 5.5.4.
-