

Proposal for a Supplement to the 03, 04 and 05 series of amendments to UN Regulation No. 48 (Installation of lighting and light-signalling devices)

Submitted by the Informal Working Group on Simplification of Lighting and Light-Signalling Regulations (IWG SLR)

The text reproduced below was prepared by IWG SLR with the aim to introduce into the 03, 04 and 05 series of amendments to UN Regulation No. 48 references to the headlamp Classes in the 01 series of amendments to UN Regulation No. 149. The modifications to the existing text of UN Regulation No. 48 are marked in bold for new or strikethrough for deleted characters.

I. Proposal - UN R48.03

Paragraph 6.1.2., amend to read:

“6.1.2. Number
 Two or four-, **type approved according to**
 - **UN Regulation No. 98, or**
 - **UN Regulation No. 112 of class B only, or**
 - **UN Regulation No. 149.00, Classes B or D headlamps only, or**
 - **UN Regulation No. 149.01 and subsequent series of amendments, Class B headlamp only.**

For vehicles of the category N3: Two extra main-beam headlamps may be installed.

Where a vehicle is fitted with four concealable headlamps the installation of two additional headlamps shall only be authorized for the purpose of light-signalling, consisting of intermittent illumination, at short intervals (see paragraph 5.12. **above**) in daylight.”

Paragraph 6.1.9.2., amend to read:

“6.1.9.2. This maximum intensity shall be obtained by adding together the individual reference marks which are indicated on the several headlamps. ~~The reference mark "10" shall be given to each of the headlamps marked "R" or "CR".~~ ”

Paragraph 6.2.2., amend to read:

- "6.2.2. Number
- Two, type approved according to
- UN Regulations Nos. 98 or 112, excluding Class A headlamp, or
 - UN Regulation No. 149.00, Classes B or D headlamps only, or
 - UN Regulation No. 149.01 and subsequent series of amendments, Class C headlamp only."

Paragraph 6.3.9., amend to read:

- "6.3.9. Other requirements
- In the case where there is a positive indication in the communication form in **item 10.9. of Annex 1 of Regulation No. 19 or item 9.5.8. of Annex 1 of Regulation No. [RID] 149** the alignment and the luminous intensities of the class "F3" front fog beam may be automatically adapted in relation to the prevailing ambient conditions. Any variations of the luminous intensities or alignment shall be performed automatically and in such a way that no discomfort, neither ..."

Paragraph 6.22.6.1.2.1., amend to read:

- "6.22.6.1.2.1. In case the passing-beam is generated by several beams from different lighting units, the provisions according to paragraph 6.22.6.1.2. above apply to each said beam's "cut-off" (if any), which is designed to project into the angular zone, as indicated under item ~~9.3~~ **9.4.** of the communication form conforming to the model in Annex 1 to Regulations Nos. 123 or ~~item 9.3.3. in Annex 1 to UN Regulation No. [RID] 149.~~"

Paragraph 6.22.9.1., amend to read:

- "6.22.9.1. An AFS shall be permitted only in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45²² for at least those lighting units, which are indicated under item 9.2.3. of the communication form conforming to the model in Annex 1 to Regulation No. 123 or under item ~~9.3.2.3.~~ **9.3.3.** in Annex 1 to Regulation No. [RID] 149, if the total objective luminous flux of the light sources of these units exceeds 2,000 lm per side, and which..."

II. Proposal - UN R48.04

Paragraph 6.1.2., amend to read:

“6.1.2. Number

Two or four, type approved according to

~~(a) Regulations Nos. 98 or 112, excluding Class A headlamp~~

~~or~~

~~(b) UN Regulation [RID], Classes B and D headlamps only~~

- UN Regulation No. 98, or

- UN Regulation No. 112 of class B only, or

- UN Regulation No. 149.00, Classes B or D headlamps only, or

- UN Regulation No. 149.01 and subsequent series of amendments, Class B headlamp only.

For vehicles of the category N3: Two extra main-beam headlamps may be installed.

Where a vehicle is fitted with four concealable headlamps the installation of two additional headlamps shall only be authorized for the purpose of light-signalling, consisting of intermittent illumination, at short intervals (see paragraph 5.12. above) in daylight.”

Paragraph 6.1.9.2., amend to read:

“6.1.9.2. This maximum intensity shall be obtained by adding together the individual reference marks which are indicated on the several headlamps. ~~The reference mark "10" shall be given to each of the headlamps marked "R" or "CR".~~ ”

Paragraph 6.2.2., amend to read:

“6.2.2. Number

Two, type approved according to

~~(a) UN Regulation No. 98 or 112, excluding Class A headlamp,~~

~~or~~

~~(b) UN Regulation [RID], Classes B and D headlamps only.~~

- UN Regulations Nos. 98 or 112, excluding Class A headlamp, or

- UN Regulation No. 149.00, Classes B or D headlamps only, or

- UN Regulation No. 149.01 and subsequent series of amendments, Class C headlamp only.”

Paragraph 6.3.9., amend to read:

"6.3.9. Other requirements

In the case where there is a positive indication in the communication form in **item 10.9. of Annex 1 of Regulation No. 19 or item 9.5.8. in of Annex 1 of Regulation No. [RID] 149** the alignment and the luminous intensities of the class "F3" front fog beam may be automatically adapted in relation to the prevailing ambient conditions. Any variations of the luminous intensities or alignment shall be performed automatically and in such a way that no discomfort, neither ..."

Paragraph 6.22.6.1.2.1., amend to read:

"6.22.6.1.2.1. In case the passing-beam is generated by several beams from different lighting units, the provisions according to paragraph 6.22.6.1.2. above apply to each said beam's "cut-off" (if any), which is designed to project into the angular zone, as indicated under item ~~9.3~~ **9.4.** of the communication form conforming to the model in Annex 1 to Regulations Nos. 123 or ~~item 9.3.3. in Annex 1 to UN Regulation No. [RID] 149.~~"

Paragraph 6.22.9.1., amend to read:

"6.22.9.1. An AFS shall be permitted only in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45¹⁹ for at least those lighting units, which are indicated under item 9.2.3. of the communication form conforming to the model in Annex 1 to Regulation No. 123 or under item ~~9.3.2.3.~~ **9.3.3.** in Annex 1 to Regulation No. [RID] 149, if the total objective luminous flux of the light sources of these units exceeds 2,000 lm per side, and which..."

III. Proposal - UN R48.05

Paragraph 6.1.2., amend to read:

"6.1.2. Number

Two or four, type approved according to

~~(a) Regulations Nos. 98 or 112, excluding Class A headlamp~~

~~or~~

~~(b) UN Regulation [RID], Classes B and D headlamps only~~

- UN Regulation No. 98, or

- UN Regulation No. 112 of class B only, or

- UN Regulation No. 149.00, Classes B or D headlamps only, or

- UN Regulation No. 149.01 and subsequent series of amendments, Class B headlamp only.

For vehicles of the category N3: Two extra main-beam headlamps may be installed.

Where a vehicle is fitted with four concealable headlamps the installation of two additional headlamps shall only be authorized for the purpose of light-signalling, consisting of intermittent illumination, at short intervals (see paragraph 5.12. above) in daylight.”

Paragraph 6.1.9.2., amend to read:

“6.1.9.2. This maximum intensity shall be obtained by adding together the individual reference marks which are indicated on the several headlamps. ~~The reference mark "10" shall be given to each of the headlamps marked "R" or "CR".~~”

Paragraph 6.2.2., amend to read:

“6.2.2. Number
Two, type approved according to
~~(a) UN Regulation No. 98 or 112, excluding Class A headlamp,~~
~~or~~
~~(b) UN Regulation [RID], Classes B and D headlamps only.~~
- UN Regulations Nos. 98 or 112, excluding Class A headlamp, or
- UN Regulation No. 149.00, Classes B or D headlamps only, or
- UN Regulation No. 149.01 and subsequent series of amendments, Class C headlamp only.”

Paragraph 6.3.9., amend to read:

“6.3.9. Other requirements
In the case where there is a positive indication in the communication form in **item 10.9. of Annex 1 of Regulation No. 19 or item 9.5.8. in of Annex 1 of Regulation No. [RID] 149** the alignment and the luminous intensities of the class "F3" front fog beam may be automatically adapted in relation to the prevailing ambient conditions. Any variations of the luminous intensities or alignment shall be performed automatically and in such a way that no discomfort, neither ...”

Paragraph 6.22.6.1.2.1., amend to read:

“6.22.6.1.2.1. In case the passing-beam is generated by several beams from different lighting units, the provisions according to paragraph 6.22.6.1.2. above apply to each said beam's "cut-off" (if any), which is designed to project into the angular zone, as indicated under ~~item 9.3~~ **9.4.** of the communication form conforming to the model in Annex 1 to Regulations Nos. 123 or ~~item 9.3.3. in Annex 1 to UN Regulation No. [RID] 149.~~”

Paragraph 6.22.9.1., amend to read:

“6.22.9.1. An AFS shall be permitted only in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45¹⁹ for at least those

lighting units, which are indicated under item 9-2.3. of the communication form conforming to the model in Annex 1 to Regulation No. 123 or under item ~~9.3.2.3.~~ **9.3.3.** in Annex 1 to Regulation No. ~~[RID]~~ **149**, if the total objective luminous flux of the light sources of these units exceeds 2,000 lm per side, and which...”

IV. Justification

1. Since the introduction of Supplement 13 to the 05 Series of amendment to UN Regulation No. 48 (and Supplement 18 to the 04 series and Supplement 6 to the 03 series), references to the new device UN Regulations Nos. 148, 149 and 150 have been included into UN Regulation No. 48.

2. With the entry into force of the new series of amendments (01) to UN Regulation No. 149 produced by IWG SLR, it is necessary to introduce alternative references to UN Regulation No. 48. This amendment deals with such additional references for the 03, 04 and 05 series of amendments to UN Regulation No. 48.