

6 December 2012

Agreement

Concerning the adoption of uniform technical prescriptions for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions*

(Revision 2, including the amendments which entered into force on 16 October 1995)

Addendum 122: Regulation No. 123

Revision 1 – Amendment 3

Supplement 3 to the 01 series of amendments - Date of entry into force: 18 November 2012

Uniform provisions concerning the approval of adaptive front-lighting systems (AFS) for motor vehicles



UNITED NATIONS

* Former title of the Agreement: Agreement Concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958.

Paragraph 2.2.2(k),(ii), amend to read:

- "2.2.2. ...
(k) ...
(ii) A drawing with dimensions and the basic electrical and photometric values and the objective luminous flux and for each LED module a statement whether it is replaceable or not;
..."

Paragraph 5.3.3., amend to read:

- "5.3.3. The class C (basic) passing beam shall be equipped only with replaceable light sources or replaceable or non replaceable LED modules."

Insert a new paragraph 5.3.4., to read:

- "5.3.4. In the case of replaceable LED module, the removal and replacement of this LED module, as described in Annex 10 paragraph 1.4.1, shall be demonstrated to the satisfaction of the Technical Service."

Insert a new paragraph 5.15., to read:

- "5.15. A LED module shall be:
(a) Only removable from its device with the use of tools, unless it is stated in the communication sheet that the LED module is non replaceable and,
(b) So designed that regardless of the use of tool(s), it is not mechanically interchangeable with any replaceable approved light source."

Annex 1,

Item 9.2.1., amend to read:

- "9.2.1. Number and specific identification code(s) of LED module(s) and for each LED module a statement whether it is replaceable or not: yes/no²"

Annex 3,

Table 1, amend to read:

"

Tabled requirements expressed in cd			Position /deg			Passing beam							
			horizontal		vertical	class C		class V		class E		class W	
			No	Element	at/ from	to	at	min	max	min	max	min	max
Part A	1	B50L	L 3.43		U 0.57	50 ⁴	350	50	350	50	625 ⁸	50	625
	...												
	3	BR	R 2.5		U 1	50 ⁴	1 750	50	880	50	1 750	50	2 650
	...												
	8a	S50 + S50LL + S50RR ⁵			U 4	190 ⁷				190 ⁷		190 ⁷	
	9a	S100 + S100LL + S100RR ⁵			U 2	375 ⁷				375 ⁷		375 ⁷	
	...												
18	E _{max} ³				16 900	44 100	8 400	44 100	16 900	79 300 ⁸	29 530	70 500 ²	

Part B (bending modes): Table 1 Part A applies, however with the lines Nos. 1, 2, 7, 13 and 18 being replaced by those listed hereunder

Part B	1	B50L	L 3.43		U 0.57	50 ⁴	530		530				790
	...												
	...												
	18	E _{max} ⁶				10 100	44 100	5 100	44 100	10 100	79300 ⁸	20 300	70 500 ²

"

Annex 4,

Paragraphs 2.2.1. and 2.2.2, amend to read:

"2.2.1. The result expressed in milliradians (mrad) shall be considered as acceptable for a passing beam headlamp when the absolute value $\Delta r_1 = | r_3 - r_{60} |$ recorded on the headlamp is not more than 1.0 mrad ($\Delta r_1 \leq 1.0$ mrad) upward and not more than 2.0 mrad ($\Delta r_1 \leq 2.0$ mrad) downwards.

2.2.2. However, if this value:

<i>Movement</i>	
Upward	more than 1.0 mrad but not more than 1.5 mrad ($1.0 \text{ mrad} < \Delta r_1 \leq 1.5 \text{ mrad}$)
Downward	more than 2.0 mrad but not more than 3.0 mrad ($2.0 \text{ mrad} < \Delta r_1 \leq 3.0 \text{ mrad}$)

A further sample of a headlamp shall be tested as described in paragraph 2.1. after being subjected three consecutive times to the cycle as described below, in order to stabilize the position of mechanical parts of the headlamp on a base representative of the correct installation on the vehicle:

Operation of the passing beam for one hour, (the voltage shall be adjusted as specified in paragraph 1.1.1.2.),

After this period of one hour, the headlamp type shall be considered as acceptable if the absolute value Δr measured on this sample meets the requirements in paragraph 2.2.1. above."

Annex 5,

Paragraph 1.2.1.1., amend to read:

"1.2.1.1. For the following values of the passing beam and its modes, the maximum unfavourable deviation may be respectively:

- (a) Maximum values at point B50L 170 cd equivalent 20 per cent and 255 cd equivalent 30 per cent;
- (b) Maximum values at zone III and segment BLL: 255 cd equivalent 20 per cent and 380 cd equivalent 30 per cent;
- (c) Maximum values at segments E, F1, F2 and F3: 170 cd equivalent 20 per cent and 255 cd equivalent 30 per cent;
- (d) Minimum values at BR, P, at the groups S 50 + S 50LL + S 50RR and S 100 + S 100LL + S 100RR, and those required by footnote 4 of Table 1 in Annex 3 of this Regulation (B50L, BR, BRR, BLL): half of the required value equivalent 20 per cent and three quarter of the required value equivalent 30 per cent."

Annex 7,

Paragraph 1.2.1.1., amend to read:

"1.2.1.1. For the following values of the passing beam and its modes, the maximum unfavourable deviation may be respectively:

- (a) Maximum values at point B50L 170 cd equivalent 20 per cent and 255 cd equivalent 30 per cent;

- (b) Maximum values at zone III and segment BLL: 255 cd equivalent 20 per cent and 380 cd equivalent 30 per cent;
- (c) Maximum values at segments E, F1, F2 and F3: 170 cd equivalent 20 per cent and 255 cd equivalent 30 per cent;
- (d) Minimum values at BR, P, at the groups S 50 + S 50LL + S 50RR and S 100 + S 100LL + S 100RR, and those required by footnote 4 of Table 1 in Annex 3 of this Regulation (B50L, BR, BRR, BLL): half of the required value equivalent 20 per cent and three quarter of the required value equivalent 30 per cent."
