

Informal document GRE-90-17
(90th GRE, 29 April to 3 May 2024,
agenda item 6 (c))



CEMA amendment to UN Reg. No.86 Lighting installation for agricultural vehicles

29 April 2024

CEMA amendment to UN Reg. No.86

Background



- ▶ In European Union, road requirements for agricultural vehicles (tractors, trailers and interchangeable towed equipment – resp. vehicles categories T, R and S) are covered in (EU) Reg. 167/2013.
- ▶ Work in CEMA about lighting installation is needed to take into account technical evolutions, unclarities and gaps for such vehicles.

CEMA amendment to UN Reg. No.86

Background – GRE meeting 88



- ▶ Document first presented in April 2023: GRE-88-04 reference.
- ▶ Subsequent to GRE88, CEMA amendment was adapted to take into account the comments expressed on:
 - ▶ Special warning lamps;
 - ▶ Use of conspicuity markings instead of side marker lamps.
- ▶ Logo requirements: need for more maturity before it is introduced in agricultural vehicles.

CEMA amendment to UN Reg. No.86

Background – GRE meeting 89



- ▶ Official document presented in October 2023: ECE/TRANS/WP.29/GRE/2023/12 reference.
- ▶ During GRE 89 were raised comments on:
 - ▶ Use of reflective materials instead of retroreflectors;
 - ▶ Maximum number of position lamps / retroreflectors;
 - ▶ Day-running lights ON when headlamps are ON.

→ Was raised a proposal to have an Ad Hoc Group on Agricultural vehicles before the SLR sessions of November and December 2023.

CEMA amendment to UN Reg. No.86

Background – Ad Hoc Group meetings



- ▶ 2 calls held on 08 November (11h – 13h) and 13 December (11h – 13h).
- ▶ Opportunity for CEMA to show the design constraints for wider vehicles.
- ▶ Agreement between parties on:
 - ▶ Removal of the use of reflective materials instead of retroreflectors;
 - ▶ Maximum number of position lamps / retroreflectors;
 - ▶ Removal of initial CEMA proposal on DRL;
 - ▶ For additional pairs of position lamps, introduction of a minimum distance between inner edges (100 mm).

CEMA amendment to UN Reg. No.86

Background – Ad Hoc Group meetings



- ▶ Final proposal was submitted to DE for validation before official transmission to UNECE.
 - ▶ Formal documents sent to GRE beginning of February 2024:
 - ▶ ECE/TRANS/WP.29/GRE/2023/12/Rev.1 for the 2nd series of amendments of R86;
 - ▶ ECE/TRANS/WP.29/GRE/2024/10 for the 3rd series of amendments of R86.
- Considering the date of application of the 3rd series of amendments, it was felt needed to have supplements for both 2nd and 3rd series of amendments.

CEMA amendment to UN Reg. No.86

Main amendments respect to document

ECE/TRANS/WP.29/GRE/2023/12, presented at GRE 89



POSITION LAMPS

- ▶ Adaptation of the requirements to take into account all vehicle dimensions:
 - ▶ Review of the maximum number of lamps;
 - ▶ Review of the requirements for additional pair(s): in particular, introduction of a minimum distance of 100 mm between inner edges.
- ▶ Alignment of the requirements as far as possible between front and rear position lamps.

CEMA amendment to UN Reg. No.86



Main amendments respect to document

ECE/TRANS/WP.29/GRE/2023/12, presented at GRE 89

RETRO-REFLECTORS

- ▶ Adaptation of the requirements to take into account all vehicle dimensions: review of the maximum number of reflectors.
- ▶ Alignment of the requirements as far as possible between front, rear and lateral retro-reflectors.

CEMA amendment to UN Reg. No.86

Main amendments respect to document

ECE/TRANS/WP.29/GRE/2023/12, presented at GRE 89



OTHER ITEMS

- ▶ Clarification of requirements for the detection in the tractor of a failing LED direction-indicator lamp on a trailer (difficulty for the detection linked to the fact that the tractor must take into account any technology of lamp).
- ▶ Clarification in the editing on the criteria for the geometric visibility for dipped-beam lamps.

EDITORIAL NOTE

- ▶ In ECE/TRANS/WP.29/GRE/2023/12/Rev.1 (amendment proposal for 2nd series of amendment), there is a typo in pt. 6.14.2: the deleted word 'more' should not present.



Thank you!

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