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Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

192nd session

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Item 4.7.4 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRVA

Proposal for a Supplement 10 to the 03 series of amendments to UN Regulation No. 79 (Steering equipment)

Submitted by the Working Party on Automated/Autonomous and Connected Vehicles*

The text reproduced below was adopted by the Working Party on Automated/Autonomous and Connected Vehicles (GRVA) at its eighteenth session (see ECE/TRANS/WP.29/GRVA/18) and goes with ECE/TRANS/WP.29/2024/7. It is based on the working document ECE/TRANS/WP.29/GRVA/2024/12 amended by informal document GRVA-18-15. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their March 2024 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), 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.



Paragraph 1.2.3., amended to read:

- “1.1. This Regulation applies to the steering equipment of vehicles of categories M, N and O¹.
- 1.2. This Regulation does not apply to:
 - 1.2.1. Steering equipment with a purely pneumatic transmission;
 - 1.2.2. Autonomous Steering Systems as defined in paragraph 2.3.3.;
 - 1.2.3. Steering systems exhibiting the functionality defined as ACSF of Category B2 or E until specific provisions are introduced in this Regulation.”

Insert a new paragraph 2.10., to read:

- “2.10. “*Driver Control Assistance System (DCAS)*” means the hardware and software collectively capable of assisting a driver in controlling the longitudinal and lateral motion of the vehicle on a sustained basis.”

Insert a new paragraph 4.4.3., to read:

- “4.4. There shall be affixed, conspicuously and in a readily accessible place specified on the approval form, to every vehicle conforming to a vehicle type approved under this Regulation, an international approval mark consisting of:
 - 4.4.1. a circle surrounding the letter "E" followed by the distinguishing number of the country which has granted approval;²
 - 4.4.2. the number of this Regulation, followed by the letter "R", a dash and the approval number to the right of the circle prescribed in paragraph 4.4.1.
 - 4.4.3. A letter “X” preceding the approval number in the case when either:
 - (a) ACSF of Category B1 or C have been exempted from the technical requirements of this UN Regulation according to paragraph 5.6.2. and/or 5.6.4.
 - (b) The steering system exhibits functionality defined as ACSF of Category D.”

Paragraph 5.6.2., amend to read:

- “5.6.2. Special Provisions for ACSF of Category B1
Vehicles equipped with an ACSF of Category B1 shall fulfil the following requirements- unless the vehicle is equipped with a DCAS which:
 - (a) Incorporates this function, and
 - (b) Allows the activation of this function only during operation and as part of DCAS, and
 - (c) Complies with the technical requirements and transitional provisions of UN Regulation No. [DCAS].”³

Paragraph 5.6.3., amend to read:

- “5.6.3. (Reserved)”

Paragraph 5.6.4., amend to read:

- “5.6.4. Special Provisions for ACSF of Category C

¹ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev.6, para. 2 -

<https://unece.org/transport/standards/transport/vehicleregulations-wp29/resolutions>

² The distinguishing numbers of the Contracting Parties to the 1958 Agreement are reproduced in Annex 3 to the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev.6, Annex 3 - www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html

Power-driven vehicles equipped with an ACSF system of Category C and trailers supporting lane change function(s) shall fulfil the following requirements unless the vehicle is equipped with a DCAS, which:

- (a) Incorporates this function, and
- (b) Allows the activation of this function only during operation and as part of DCAS, and
- (c) Complies with the technical requirements and transitional provisions of UN Regulation No. [DCAS].^y”

Insert a new paragraph 5.6.5., to read:

“5.6.5. Vehicles equipped with systems exhibiting the functionality defined as ACSF of Category D shall not be approved according to this UN Regulation, unless the vehicle is equipped with a DCAS which:

- (a) incorporates the function(s), and
- (b) allows the activation of the function(s) only during operation and as part of DCAS, and
- (c) complies with the technical requirements and transitional provisions of UN Regulation No. [DCAS].^y”

Insert a new footnote y (used in the paragraphs mentioned above), to read:

“^y Contracting Parties who do not apply UN Regulation No. [DCAS] are not obliged to accept approvals to UN Regulation No. 79 for vehicles with systems which exhibit the functionality defined as ACSF of Category D or for vehicles which do not comply in full with the technical requirements for ACSF in this UN Regulation.”

Annex 1,

Insert new paragraphs 6.4. to 6.5.1., to read:

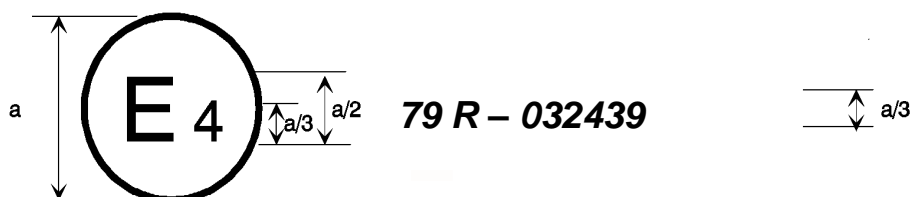
- “6.4. Vehicle is equipped with ACSF which has been exempted from the requirements of this UN Regulation:... yes/no
- 6.4.1. If yes, details:
- 6.5. Vehicle is equipped with a steering system which exhibits functionality defined as an ACSF of Category D:... yes/no
- 6.5.1. If yes, details:...”

Annex 2, amend to read with square brackets amended as appropriate :

“Arrangements of approval marks

Model A

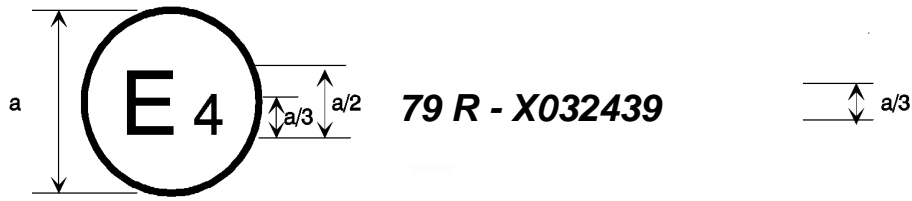
(See paragraph 4.4. of this Regulation)



$a = 8 \text{ mm min}$

The above approval mark affixed to a vehicle shows that the vehicle type concerned has, with regard to steering equipment, been approved in the Netherlands (E 4) pursuant to UN Regulation No. 79 under approval No. 032439. The approval number indicates that the

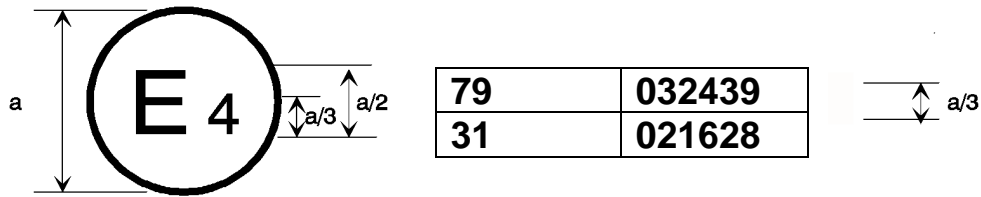
approval was granted in accordance with the requirements of UN Regulation No. 79 incorporating the 03 series of amendments.



a = 8 mm min

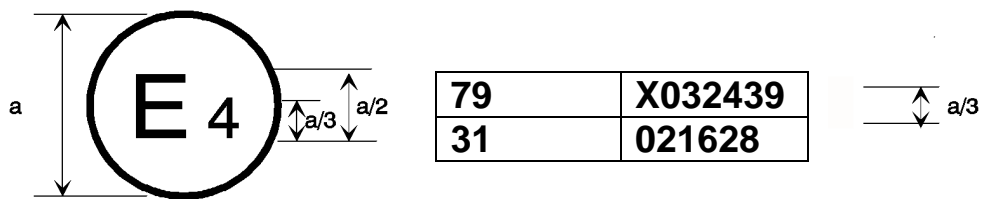
The above approval mark affixed to a vehicle shows that the vehicle type concerned has, with regard to steering equipment, been approved in the Netherlands (E 4) pursuant to UN Regulation No. 79 under approval No. 032439. The letter “X” preceding the approval number indicates that the vehicle is equipped with ACSF which has been exempted from the requirements of this UN Regulation, and/or that the vehicle is equipped with a steering system which exhibits functionality defined as an ACSF of Category D. The approval number indicates that the approval was granted in accordance with the requirements of UN Regulation No. 79 incorporating the 03 series of amendments.”

Model B
(See paragraph 4.5. of this Regulation)



a = 8 mm min

The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in the Netherlands (E 4) pursuant to Regulations Nos. 79 and 31.³ The approval numbers indicate that, at the dates when the respective approvals were given, UN Regulation No. 79 incorporating the 03 series of amendments and UN Regulation No. 31 included the 02 series of amendments.



a = 8 mm min

The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in the Netherlands (E 4) pursuant to Regulations Nos. 79 and 31.⁴ The letter “X” preceding the approval number pursuant to Regulation No. 79 indicates that the vehicle is equipped with ACSF which have been exempted from the requirements of this UN Regulation, or that the vehicle is equipped with a steering system which exhibits functionality defined as an ACSF of Category D. The approval numbers indicate that, at the dates when

³ The second number is given merely as an example.

⁴ The second number is given merely as an example.

the respective approvals were given, UN Regulation No. 79 incorporating the 03 series of amendments and UN Regulation No. 31 included the 02 series of amendments.”

Annex 8,

Paragraph 3.4., amend to read:

“3.4. (Reserved)”
