

# UN-R158, Annex 10 update



on « vehicle handbook » wording  
IWG VRU#34, September ? 2024

**VOLVO GROUP**

**Renault  
Group**

STELLANTIS

# UN Regulation No. 158, Annex 10



Paragraph 1.2., remaining text in brackets is no matter of discussion anymore:

“1.2. Test preparation

One test object shall be used. The distance from the rear edge to the test object and the position of the test object are selected by the manufacturer to ensure the detection of the test object. The test object shall be located in the detectable grids within the rear horizontal area in 1.3.1. of this annex. The test vehicle in the initial state shall be with the detection system in the activated state, which is declared [by the manufacturer OR in the owner’s manual] and shall be in the parking condition. Here, the parking condition means that the P (park) position is selected in the case of vehicles equipped with automatic transmissions, whereas it means the neutral gear being selected and the parking brake being engaged in the case of vehicles equipped with manual transmissions.”

Proposal for simplification and/or harmonisation: to be amended for clarity.

The vehicle owner is not concerned with test preparation. The manufacturer shall deliver required information at time of approval to run the test appropriately: text should read “...which is declared by the manufacturer ~~OR in the owner’s manual~~ and shall be in the parking condition.”

# UN Regulation No. 158



Other paragraphs where the vehicle handbook/manual is referred to in the text, and may need consideration for harmonisation:

13.5. The RVCS shall be provided by the applicant with the following documents:

- (a) Technical specification of the RVCS;
- (b) Operator's manual.

16.1.1.1. Luminance and contrast adjustment

If manual adjustment is provided, the operator's manual shall provide information on how to change the luminance/contrast.

16.1.2. Operating readiness (System availability)

Non-operation of the system shall be recognizable to the driver (e.g. RVCS failure by, i.e. warning indication, display information, black screen, absence of status indicator). The information for the driver shall be explained in the operator's manual.

17.2.5. Operating readiness (System availability)

Non-operation of the system shall be recognizable to the driver (e.g. Detection system failure by, i.e. warning indication, display information, black screen, absence of status indicator). The information for the driver shall be explained in the operator's manual.

Annex 2,

11.1.4.8. A technical specification and operator's manual of the Rear-View Camera System:

11.1.5.3. A technical specification and operator's manual of the detection System:

# UN Regulation No. 158



Remaining “operator's manual” wording is coherent with UN Regulation No. 46,

but is not aligned with other UN Regulations:

- No. 16 uses “vehicle handbook”
- No. 161 uses “owner’s manual”

for a same concept, in any case better worded in last 2 cases, that would need harmonisation.

## **Proposal for the Amendment of UN Regulation No. 158, driver's awareness of vulnerable road users behind vehicles**

*Annex 10, paragraph 1.2., to read:*

### “1.2. Test preparation

One test object shall be used. The distance from the rear edge to the test object and the position of the test object are selected by the manufacturer to ensure the detection of the test object. The test object shall be located in the detectable grids within the rear horizontal area in 1.3.1. of this annex. The test vehicle in the initial state shall be with the detection system in the activated state, which is declared {by the manufacturer ~~OR in the owner's manual~~} and shall be in the parking condition. Here, the parking condition means that the P (park) position is selected in the case of vehicles equipped with automatic transmissions, whereas it means the neutral gear being selected and the parking brake being engaged in the case of vehicles equipped with manual transmissions.”

**Recommendation for harmonisation of “operator's manual”, “vehicle handbook”, “owner's manual” wording in UN Regulations**

# Thanks for your attention

