

Proposed amendment to ECE Regulation 13 for consideration by the GRRF ACV Informal Working Group.

Background:

To allow the use of an electrical connector of a design other than the currently specified ISO 7638 connector it is considered simpler to make a single reference to an alternative and retain the current references to ISO 7638. This would mean that the current ISO 7638 / ISO 11992 structure would remain unchanged – maintaining familiarity – and it would not be necessary to introduce new terminology into ECE Regulation for the electrical requirements currently contained in ISO 7638. Also, all the requirements specific to the use of an automated connector would be gathered together in an ACV annex.

Proposal:

Amend paragraph 5.1.3.6. to read:

- 5.1.3.6. **a)** The electric control line shall conform to ISO 11992-1 and 11992-2:2003 including its Amd.1:2007 and be a point-to-point type using the seven pin connector according to ISO 7638-1 or 7638-2:2003 **or, in the case of an automated coupling system, an automatic connector providing as a minimum the same number of pins with the same electrical properties and the same functionality as the ISO 7638 connector. The automatic connector shall meet all the requirements contained within this regulation applicable to the ISO 7638 connector, together with those specified in Annex 22 of this regulation.**
- b)** The data contacts of the ISO 7368 connector shall be used to transfer information exclusively for braking (including ABS) and running gear (steering, tyres and suspension) functions as specified in ISO 11992-2:2003 including its Amd.1:2007. The braking functions have priority and shall be maintained in the normal and failed modes. The transmission of running gear information shall not delay braking functions.
- c)** The power supply, provided by the ISO 7638 connector, shall be used exclusively for braking and running gear functions and that required for the transfer of trailer related information not transmitted via the electric control line. However, in all cases the provisions of Paragraph 5.2.2.18. of this Regulation shall apply. The power supply for all other functions shall use other measures.

GRRF ACV_ISO 7638 alternative_pj200911