PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 48
(Installation of lighting and light-signalling devices)

Transmitted by the experts from the Czech Republic and Germany

Note: The text reproduced below was prepared by the experts from the Czech Republic and Germany proposing new provisions to harmonize the electrical connections between the towing and the towed vehicles. The amendment is based on the text of a document without a symbol (informal document No. 25), distributed during the fiftieth GRE session (see report TRANS/WP.29/GRE/50, para. 23).

Note: This document is distributed to the Experts on Lighting and Light-Signalling only.
A. PROPOSAL

Insert a new paragraph 5.26, to read:

"5.26. Electrical connections between the towing and the towed vehicles
The electrical connection of lighting and light – signalling equipment of the towed vehicle to
the towing vehicle shall be provided by a 7 – pole black (dark) coloured socket (on towing
vehicle) and plug (on towed vehicle) according to ISO 1724 Standard, type 12 N for the 12 V
system, or to ISO 1185 Standard, type 24 N for the 24 V system; the socket and plug for
other purposes (supplementary) shall be white (light) coloured and shall meet the
requirements of ISO 3732 Standard, type 12 S for the 12 V system or to ISO 3731 Standard,
type 24 S for the 24 V system.*/

5.26.1. On category M₁ and N₁ vehicles and on the category O₁ and O₂ trailers installation of
a 13 - pole connector ISO 11 446 instead of a 7 – pole socket and plug is permissible.

5.26.2. On category N₂ and N₃ vehicles the connection between the towing and towed vehicles may
be provided by a 15 – pole socket and plug according to ISO 12 098.

5.26.3. If a vehicle is equipped with a 15 – pole socket and the trailer with two 7 – pole plugs:

5.26.3.1. an adaptor according to ISO 12 098, Annex A – Example 1 shall be used.

5.26.4. If a vehicle is equipped with two 7 – pole sockets and the trailer with a 15 – pole plug:

5.26.4.1. an adaptor according to ISO 12 098, Annex A – Example 2 shall be used."

*      *     *

B. JUSTIFICATION

Regulations Nos. 13 and 48 do not determine the means of electrical connection between the towing
and the towed vehicle for supplying and control of the lighting and light – signalling devices of the
trailer. The Czech delegate was asked by the German delegation to repeat his proposal tabled in 1994.
The proposal was amended according to the state of the ISO standards, which the Czech delegate has
had to his disposal (see below).

The state of standards is the following:

<table>
<thead>
<tr>
<th>System</th>
<th>Number of Poles</th>
<th>Connector Type</th>
<th>Standard</th>
<th>Edition</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V system</td>
<td>7</td>
<td>socket, type 12N (normal)</td>
<td>ISO 1724</td>
<td>Third edition</td>
<td>1997</td>
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<td></td>
<td>7</td>
<td>socket, type 12S (supplementary)</td>
<td>ISO 3732</td>
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<td>1997</td>
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<td>24 V system</td>
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<td>socket, type 24N (normal)</td>
<td>ISO 1185</td>
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<td>ISO 3731</td>
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<td>12 V system</td>
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<td>ISO 12 098</td>
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<td>1994</td>
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</tbody>
</table>

*/ Note by the secretariat: the references to the ISO standards should be completed by the year of their edition.