The text reproduced below was prepared by the (former) co-Chairs and Secretary of the GRE Task Force “Headlamp Switching” (TF HS), to clarify the wording used in requirements related to functional electrical connections of lamps. It’s consequential to the newly proposed definitions for “Switch ON”, “Switch OFF”, “Activate” and “Deactivate”, in document ECE/TRANS/WP.29/GRE/2018/22.

The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal

Proposal for Supplement 11 to the 06 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)

Paragraph 5.7.1.1., amend to read:

5.7.1.1. The photometric and colorimetric requirements of a lamp shall be fulfilled when all other functions with which this lamp is grouped, combined or reciprocally incorporated are switched OFF.

However, when a front or rear position lamp is reciprocally incorporated with one or more other function(s) which can be activated switched ON together with them, the requirements regarding colour of each of these other functions shall be fulfilled when the reciprocally incorporated function(s) and the front or rear position lamps are switched ON.

Paragraph 5.9., amend to read:

5.9. In the absence of specific instructions, the photometric characteristics (e.g. intensity, colour, apparent surface, etc.) of a lamp shall not be intentionally varied during the period of [activation] [operation] of the lamp.

Paragraph 5.9.2., amend to read:

5.9.2. The photometric characteristics of any lamp may vary:

(a) In relation to the ambient light;

(b) As a consequence of the activation of other lamps being switched ON or OFF; or

(c) When the lamps is being used to provide another lighting function;

provided that any variation in the photometric characteristics is in compliance with the technical provisions for the lamp concerned.

Paragraph 5.12., amend to read:

5.12. The electrical connections shall be such that the main-beam and dipped-beam headlamps and the front fog lamps cannot be switched on ON unless the lamps referred to in paragraph 5.11. are also switched on ON. This requirement shall
not apply, however, to main-beam or dipped-beam headlamps when their luminous warnings consist of the intermittent lighting up at short intervals of the main-beam headlamp or the intermittent lighting up at short intervals of the dipped-beam headlamp or the alternate lighting up at short intervals of the main-beam and dipped-beam headlamps.

**Paragraph 5.12.1.1., amend to read:**

5.12.1.1. Their electrical connections are such that in case of failure of any of these lighting devices the front position lamps are automatically switched **ON again**; and

**Paragraph 5.14.3., amend to read:**

5.14.3. It shall be possible to move the lamps into the position of use and to switch them **ON** by means of a single control, without excluding the possibility of moving them into the position of use without switching them **ON**. However, in the case of grouped main-beam and dipped-beam headlamps, the control referred to above is required only to activate the dipped-beam headlamps.

**Paragraph 5.14.4., amend to read:**

5.14.4. It shall not be possible deliberately, from the driver's seat, to stop the movement of switched **ON** lamps before they reach the position of use. If there is a danger of dazzling other road users by the movement of the lamps, they may light up only when they have reached their position of use.

**Paragraph 5.18.3., amend to read:**

5.18.3. Where additional lamps for the above functions are fitted and are activated **ON**, when the movable component is in any fixed open position, provided that these additional lamps satisfy all the position, geometric visibility and photometric requirements applicable to the lamps installed on the movable component.

**Paragraph 5.18.4., amend to read:**

5.18.4. In the case where the functions referred to in paragraph 5.18. are obtained by an interdependent lamp system either of the following conditions shall apply:

(a) Should the complete interdependent lamp system be mounted on the moving component(s), the requirements of paragraph 5.18.1. shall be satisfied. However, additional lamps for the above functions may be activated **ON**, when the movable component is in any fixed open position, provided that these additional lamps satisfy all the position, geometric visibility, colorimetric and photometric requirements applicable to the lamps installed on the movable component.

or

(b) Should the interdependent lamp system be partly mounted on the fixed component and partly mounted on a movable component, with the exception of direction indicator lamps, the interdependent lamp(s) specified by the Applicant during the device approval procedure shall meet all the position, outwards geometric visibility, colorimetric and photometric requirements for those lamps, at all fixed positions of the movable component(s).
The inwards geometric visibility requirement(s) is(are) deemed to be satisfied if this(these) interdependent lamp(s) still conform(s) to the photometric values prescribed in the field of light distribution for the approval of the device, at all fixed positions of the movable component(s).

For direction indicator lamps, the interdependent lamp(s) specified by the Applicant during the device approval procedure shall meet all the position, geometric visibility, photometric and colorimetric requirements at all fixed positions of the movable component(s). This does not apply where, to fulfil or complete the geometric visibility angle, additional lamps are activated when the movable component is in any fixed open position, provided that these additional lamps satisfy all the position, photometric and colorimetric requirements applicable to the direction indicator lamps installed on the movable component.

Paragraph 5.21.1., amend to read:

5.21.1. Additional lamps satisfying all the position, geometric visibility, colorimetric and photometric requirements for the above indicated lamps shall be activated when the apparent surface in the direction of the reference axis of these lamps is more than 50 per cent hidden by the movable component; or

Paragraph 6.1.2., amend to read:

6.1.2. Number

Two or four, type approved according to Regulations Nos. 98 or 112, excluding Class A headlamp.

For vehicles of the category N3: Two extra main-beam headlamps may be installed.

Where a vehicle is fitted with four concealable headlamps the installation of two additional headlamps shall only be authorized for the purpose of light-signalling, consisting of intermittent illumination, at short intervals (see paragraph 5.12. above) in daylight.

Paragraph 6.1.7.2., amend to read:

6.1.7.2. The control of the main-beam headlamps may be automatic regarding their activation and deactivation, the control signals being produced by a sensor system which is capable of detecting and reacting to each of the following inputs:

(a) Ambient lighting conditions;
(b) The light emitted by the front lighting devices and front light-signalling devices of oncoming vehicles;
(c) The light emitted by the rear light-signalling devices of preceding vehicles.

Additional sensor functions to improve performance are allowed.

For the purpose of this paragraph, "vehicles" means vehicles of categories L, M, N, O, T, as well as bicycles, such vehicles being equipped with retro-reflectors, with lighting and light-signalling devices, which are switched ON.
Paragraph 6.1.7.3., amend to read:

6.1.7.3. It shall always be possible to switch the main-beam headlamps ON and OFF manually and to manually switch-off deactivate the automatic control of the main-beam headlamps.

Moreover, the switching OFF of the main-beam headlamps and the deactivation of their automatic control, shall be by means of a simple and immediate manual operation; the use of sub-menus is not allowed.

Paragraph 6.1.7.4., amend to read:

6.1.7.4. The main-beam headlamps may be switched ON either simultaneously or in pairs. In case the extra two main-beam headlamps are installed, as permitted under paragraph 6.1.2. for vehicles of the category N3 only, no more than two pairs may be simultaneously lit. For changing over from the dipped to the main beam at least one pair of main-beam headlamps shall be switched ON. For changing over from the main-beam to the dipped-beam all main-beam headlamps shall be switched OFF simultaneously.

Paragraph 6.1.7.5., amend to read:

6.1.7.5. The dipped-beams may remain switched ON at the same time as the main beams.

Paragraph 6.1.7.6., amend to read:

6.1.7.6. Where four concealable headlamps are fitted their raised position shall prevent the simultaneous operation of any additional headlamps fitted, if these are intended to provide light signals consisting of intermittent illumination switching ON at short intervals (paragraph 5.12.) in daylight.

Paragraph 6.1.9.1., amend to read:

6.1.9.1. The aggregate maximum intensity of the main-beam headlamps which can be switched ON simultaneously shall not exceed 430,000 cd, which corresponds to a reference value of 100.

Paragraph 6.1.9.3., amend to read:

6.1.9.3. Automatic [activation and deactivation switching ON and OFF] of the main-beam headlamps:

Paragraph 6.1.9.3.1., amend to read:

6.1.9.3.1. The sensor system used to control the automatic [activation and deactivation switching ON and OFF] of the main-beam headlamps, as described in paragraph 6.1.7.1., shall comply with the following requirements:

Paragraph 6.2.7.1., amend to read:

6.2.7.1. The control for changing over to the dipped-beam shall switch OFF all main-beam headlamps simultaneously.
Paragraph 6.2.7.2., amend to read:

6.2.7.2. The dipped-beam may remain switched **on** ON at the same time as the main beams.

Paragraph 6.2.7.3., amend to read:

6.2.7.3. In the case of dipped-beam headlamps according to Regulation No. 98, the gas-discharge light sources shall remain switched **on** ON during the main-beam operation.

Paragraph 6.2.7.4., amend to read:

6.2.7.4. One additional light source or one or more LED module(s), located inside the dipped-beam headlamps or in a lamp (except the main-beam headlamp) grouped or reciprocally incorporated with the respective dipped-beam headlamps, may be **activated switched on** ON to produce bend lighting, provided that the horizontal radius of curvature of the trajectory of the centre of gravity of the vehicle is 500 m or less. This may be demonstrated by the manufacturer by calculation or by other means accepted by the Type Approval Authority.

Paragraph 6.2.8.2., amend to read:

6.2.8.2. A visual tell-tale whether flashing or not is mandatory:

(a) In the case where the whole beam or the kink of the elbow of the cut-off is moved to produce bend lighting; or

(b) If one or more LED modules are used to produce the principal dipped-beam, except when they are wired so that the failure of any one LED module causes all of them to stop emitting light.

It shall be activated:

(a) In the event of a malfunction of the displacement of the kink of the elbow of the cut-off; or

(b) In case of a failure of any one of the LED module(s) producing the principal dipped-beam, except when they are wired so that the failure of any one LED module causes all of them to stop emitting light.

It shall remain activated while the failure is present. It may be cancelled temporarily, but shall be repeated whenever the device, which starts and stops the engine, is switched **on** ON and **off** OFF.

Paragraph 6.2.9., amend to read:

6.2.9. Other requirements

The requirements of paragraph 5.5.2. shall not apply to dipped-beam headlamps.

Dipped-beam headlamps with a light source or LED module(s) producing the principal dipped-beam and having a total objective luminous flux which exceeds 2,000 lumen shall only be installed in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45.¹

With respect to vertical inclination the provisions of paragraph 6.2.6.2. above shall not be applied for dipped-beam headlamps with a light source or LED

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¹ Contracting Parties to the respective regulations can still prohibit the use of mechanical cleaning systems when headlamps with plastic lenses, marked "PL", are installed.
module(s) producing the principal dipped beam and having an objective luminous flux which exceeds 2,000 lumens.

In the case of filament lamps for which more than one test voltage is specified, the objective luminous flux which produces the principal dipped-beam, as indicated in the communication form for the type approval of the device, is applied.

In the case of dipped-beam headlamps equipped with an approved light source, the applicable objective luminous flux is the value at the relevant test voltage as given in the relevant data sheet in the Regulation, according to which the applied light source was approved, without taking into account the tolerances to the objective luminous flux specified on this datasheet.

Only dipped-beam headlamps according to Regulation Nos. 98 or 112 may be used to produce bend lighting.

If bend lighting is produced by a horizontal movement of the whole beam or the kink of the elbow of the cut-off, it shall be activated switched ON only if the vehicle is in forward motion; this shall not apply if bend lighting is produced for a right turn in right hand traffic (left turn in left hand traffic).

Paragraph 6.3.7., amend to read:

6.3.7. Electrical connections

It shall be possible to switch the front fog lamps ON and OFF independently of the main-beam headlamps, the dipped-beam headlamps or any combination of main- and dipped-beam headlamps, unless:

(a) the front fog lamps are used as part of another lighting function in an AFS; however, the switching ON of the front fog lamps function shall have the priority over the function for which the front fog lamps are used as a part, or

(b) the front fog lamps cannot be simultaneously lit with any other lamps with which they are reciprocally incorporated as indicated by the relevant symbol ("/") according to paragraph 10.1. of Annex 1 of Regulation No. 19.

Paragraph 6.4.7.1., amend to read:

6.4.7.1. They shall be such that the lamp can light up be switched ON only if the reverse gear is engaged and if the device which controls the starting and stopping of the engine is in such a position that operation of the engine is possible. It shall not light up switch ON or remain lit ON if either of the above conditions is not satisfied.

Paragraph 6.4.7.2., amend to read:

6.4.7.2. Moreover, the electrical connections of the two optional devices mentioned in paragraph 6.4.2.2. shall be such that these devices cannot illuminate be switched ON unless the lamps referred to in paragraph 5.11. are switched on.

The devices fitted on the side of the vehicle may be switched on ON for slow manoeuvres in forward motion of the vehicle up to a maximum speed of 10 km/h, provided that the following conditions are fulfilled:
(a) The devices shall be switched ON and OFF manually by a separate switch control;
(b) If so switched ON, they may remain ON after reverse gear is disengaged;
(c) They shall be automatically switched OFF if the forward speed of the vehicle exceeds 10 km/h, regardless of the position of the separate switch control; in this case they shall remain switched OFF until deliberately being switched ON again.

Paragraph 6.5.7., amend to read:

6.5.7. Electrical connections
Direction-indicator lamps shall switch ON independently of the other lamps. All direction-indicator lamps on one side of a vehicle shall be switched ON and OFF by means of one control and shall flash in phase.

On M₁ and N₁ vehicles less than 6 m in length, with an arrangement complying with paragraph 6.5.5.2. above, the amber side-marker lamps, when mounted, shall also flash at the same frequency (in phase) with the direction-indicator lamps.

Paragraph 6.6.7.2., amend to read:

6.6.7.2. The hazard warning signal may be activated automatically in the event of a vehicle being involved in a collision or after the deactivation of the emergency stop signal has been switched OFF, as specified in paragraph 6.23. below. In such cases, it may be turned off manually.

In addition, the hazard warning signal may be switched ON automatically to indicate to other road-users the risk of imminent danger as defined by Regulations; in this case, the signal shall remain switched ON until it is manually or automatically switched OFF.

Paragraph 6.7.7.1., amend to read:

6.7.7.1. All stop lamps shall light up be switched ON simultaneously when the braking system provides the relevant signal defined in Regulations Nos. 13 and 13-H.

Paragraph 6.8.9., amend to read:

6.8.9. Other requirements
When the rear registration plate lamp is combined with the rear position lamp, reciprocally incorporated in the stop lamp or in the rear fog lamp, the photometric characteristics of the rear registration plate lamp may be modified during the illumination entire period of operation of the stop lamp or of the rear fog lamp.

Paragraph 6.9.7., amend to read:

6.9.7. Electrical connections
In accordance with paragraph 5.11.

However, if a front position lamp is reciprocally incorporated with a direction-indicator the electrical connection of the front position lamp on the relevant side of the vehicle or the reciprocally incorporated part of it may be such that it is switched OFF during the entire period (both ON and OFF cycle) of activation operation of the direction-indicator lamp.
Paragraph 6.9.8., amend to read:

6.9.8.  Tell-tale

Circuit-closed tell-tale mandatory.

This tell-tale shall be non-flashing and shall not be required if the instrument panel lighting can only be turned on simultaneously with the front position lamps.

However, a tell-tale indicating failure is mandatory if required by the component regulation.

Paragraph 6.9.9.1., amend to read:

6.9.9.1.  If one or more infrared radiation generator(s) is (are) installed inside the front position lamp, it (they) is (are) allowed to be activated only when the headlamp on the same side of the vehicle is switched on and the vehicle is in forward motion. In the event that the front position lamp or the headlamp on the same side fails, the infrared radiation generator(s) shall be automatically switched off.

Paragraph 6.10.7., amend to read:

6.10.7.  Electrical connections

In accordance with paragraph 5.11.

However, if a rear position lamp is reciprocally incorporated with a direction-indicator, the electrical connection of the rear position lamp on the relevant side of the vehicle or the reciprocally incorporated part of it may be such that it is switched OFF during the entire period (both ON and OFF cycle) of activation of the direction-indicator lamp.

Paragraph 6.11.7. and related sub-paragraph, amend to read:

6.11.7.  Electrical connections

These shall be such that:

6.11.7.1.  The rear fog-lamp(s) cannot be switched on unless the main beams, dipped-beams or front fog-lamps are switched ON;

6.11.7.2.  The rear fog-lamp(s) can be switched off independently of any other lamp;

6.11.7.3.  Either of the following applies:

6.11.7.3.1.  The rear fog lamp(s) may continue to operate until the position lamps are switched OFF, and the rear fog lamp(s) shall then remain OFF until deliberately switched on again;

6.11.7.3.2.  A warning, at least audible, additional to the mandatory tell-tale (paragraph 6.11.8.) shall be given if the ignition is switched OFF or the ignition key is withdrawn and the driver's door is opened, whether the lamps in (paragraph 6.11.7.1.) are ON or OFF, whilst the rear fog lamp switch control is in the ON position.

6.11.7.4.  Except as provided in paragraphs 6.11.7.1., 6.11.7.3. and 6.11.7.5., the operation of the rear fog lamp(s) shall not be affected by switching ON or OFF any other lamps.
6.11.7.5. The rear fog lamp(s) of a drawing motor vehicle may be automatically switched off while a trailer is connected and the rear fog lamp(s) of the trailer is (are) activated switched ON.

Paragraph 6.12.7., amend to read:

6.12.7. Electrical connections

The connection shall allow the parking lamp(s) on the same side of the vehicle to be switched ON independently of any other lamps.

The parking lamp(s) and, if applicable, the front and rear position lamps according to paragraph 6.12.9. below, shall be able to operate even if the device which starts the engine is in a position which makes it impossible for the engine to operate. A device which automatically deactivates switches OFF these lamps as a function of time is prohibited.

Paragraph 6.12.9., amend to read:

6.12.9. Other requirements

The functioning of this lamp may also be performed by simultaneously switching on the front and rear position lamps on the same side of the vehicle. In this case, lamps that meet the requirements of front or rear position lamps are deemed to meet the requirements of parking lamps.

Paragraph 6.18.9., amend to read:

6.18.9. Other requirements

When the rearmost side-marker lamp is combined with the rear position lamp reciprocally incorporated with the rear fog-lamp or stop lamp, the photometric characteristics of the side-marker lamp may be modified during the illumination entire period of operation of the rear fog lamp or of the stop lamp.

Rear side-marker lamps shall be amber if they flash with the rear direction-indicator lamp.

Paragraph 6.19.7.6., amend to read:

6.19.7.6. If a direction-indicator lamp is reciprocally incorporated with a daytime running lamp, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that the daytime running lamp is switched OFF during the entire period (both ON and OFF cycle) of activation operation of the direction-indicator lamp.

Paragraph 6.20.7., amend to read:

6.20.7. Electrical connections

The cornering lamps shall be so connected that they cannot be activated switched ON unless the main-beam headlamps or the dipped-beam headlamps are switched ON at the same time.
Paragraph 6.20.7.2., amend to read:

6.20.7.2. When the reversing lamp is switched ON, both cornering lamps may be switched on simultaneously, independently from the steering wheel position or direction-indicator operation.

If so activated, both cornering lamps shall be switched OFF either:

(a) When the reversing lamp is switched OFF;

Or

(b) When the forward speed of the vehicle exceeds 10 km/h.

Paragraph 6.20.9., amend to read:

6.20.9. Other requirements

The cornering lamps shall not be activated at vehicle speeds above 40 km/h.

Paragraph 6.22.7.1.1., amend to read:

6.22.7.1.1. The lighting units for the main-beam may be activated either simultaneously or in pairs. For changing over from the dipped-beam to the main-beam at least one pair of lighting units for the main-beam shall be activated. For changing over from the main-beam to the dipped-beam all lighting units for the main-beam shall be deactivated simultaneously.

Paragraph 6.22.7.1.3., amend to read:

6.22.7.1.3. It shall always be possible to switch the main-beam headlamps, adaptive or non-adaptive, ON and OFF manually and to manually deactivate the automatic control.

Moreover, the switching OFF, of the main-beam headlamps and their automatic control, shall be by means of a simple and immediate manual operation; the use of sub-menus is not allowed.

Paragraph 6.22.7.1.5., amend to read:

6.22.7.1.5. Where four concealable lighting units are fitted their raised position shall prevent the simultaneous operation of any additional headlamps fitted, if these are intended to provide light signals consisting of intermittent illumination switching ON at short intervals (see paragraph 5.12.) in day-light.

Paragraph 6.22.7.2., amend to read:

6.22.7.2. Passing-beam lighting:

(a) The control for changing over to the dipped-beam shall switch OFF all main-beam headlamps or deactivate all AFS lighting units for the main-beam simultaneously;

(b) The dipped-beam may remain switched ON at the same time as the main-beams;

(c) In the case of lighting units for the dipped-beam being equipped with gas discharge light sources, the gas-discharge light sources shall remain switched ON during the main-beam operation.
Paragraph 6.22.7.4.4., amend to read:

6.22.7.4.4. The class W-mode(s) of the passing-beam shall not operate unless the front fog lamps, if any, are switched OFF and one or more of the following conditions is/are automatically detected (W-signal applies):

(a) The wetness of the road has been detected automatically;
(b) The windshield wiper is switched ON operating and its continuous or automatically controlled operation has occurred for a period of at least two minutes.

Paragraph 6.22.8.2., amend to read:

6.22.8.2. A visual failure tell-tale for AFS is mandatory. It shall be non-flashing. It shall be activated whenever a failure is detected with respect to the AFS control signals or when a failure signal is received in accordance with paragraph 5.9. of Regulation No. 123. It shall remain activated while the failure is present. It may be cancelled temporarily, but shall be repeated whenever the device which starts and stops the engine is switched ON and OFF.

Paragraph 6.22.9.3.1.3., amend to read:

6.22.9.3.1.3. The adaptive main-beam shall be switched OFF when the illuminance produced by ambient lighting conditions exceeds 7,000 lx.

Paragraph 6.23.7.3. and related sub-paragraphs, amend to read:

6.23.7.3. The emergency stop signal shall be activated and deactivated switched ON and OFF automatically.

6.23.7.3.1. The emergency stop signal shall be activated switched ON only when the vehicle speed is above 50 km/h and the braking system is providing the emergency braking logic signal defined in Regulations Nos. 13 and 13-H.

6.23.7.3.2. The emergency stop signal shall be automatically deactivated switched OFF if the emergency braking logic signal as defined in Regulations Nos. 13 and 13-H is no longer provided or if the hazard warning signal is activated.

Paragraph 6.24.9.1., amend to read:

6.24.9.1. The exterior courtesy lamp shall not be activated switched ON unless the vehicle is stationary and one or more of the following conditions is satisfied:

(a) The engine is stopped; or
(b) A driver or passenger door is opened; or
(c) A load compartment door is opened.

The provisions of paragraph 5.10. shall be met in all fixed positions of use.
Paragraph 6.24.9.2., amend to read:

6.24.9.2. Approved lamps emitting white light with the exception of main beam head lamps, day time running lamps and reversing lamps may be activated ON as courtesy lamp function. They may also be activated together with the exterior courtesy lamps and the condition of paragraphs 5.11. and 5.12. above may not apply.

Paragraphs 6.25.7.3. to 6.25.7.6., amend to read:

6.25.7.3. The rear-end collision alert signal shall be activated and deactivated automatically.

6.25.7.4. The rear-end collision alert signal shall not be activated if the direction indicator lamps, the hazard warning signal or the emergency stop signal is activated.

6.25.7.5. The rear-end collision alert signal may only be activated under the following conditions:

<table>
<thead>
<tr>
<th>$V_r$</th>
<th>activation switch ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_r &gt; 30$ km/h</td>
<td>TTC ≤ 1.4</td>
</tr>
<tr>
<td>$V_r ≤ 30$ km/h</td>
<td>TTC ≤ 1.4 / $30 \times V_r$</td>
</tr>
</tbody>
</table>

"$V_r$ (Relative Speed)" means the difference in speed between a vehicle with rear-end collision alert signal and a following vehicle in the same lane.

"TTC (Time to collision)" means the estimated time for a vehicle with rear-end collision alert signal and a following vehicle to collide assuming the relative speed at the time of estimation remains constant.

6.25.7.6. The activation period of the rear-end collision alert signal shall be not more than 3 seconds.

Paragraph 6.26.7., amend to read:

6.26.7. Electrical Connections

Manoeuvring lamps shall be so connected that they cannot be activated ON unless the main-beam headlamps or the dipped-beam headlamps are switched ON at the same time.

The manoeuvring lamp(s) shall be activated automatically for slow manoeuvres up to 10 km/h provided that one of the following conditions is fulfilled:

(a) Prior to the vehicle being set in motion for the first time after each manual activation of the propulsion system; or

(b) Reverse gear is engaged; or

(c) A camera based system which assists parking manoeuvres is activated.

The manoeuvring lamps shall be automatically switched OFF if the forward speed of the vehicle exceeds 10 km/h and they shall remain switched OFF until the switch-ON conditions for activation are met again.
II Justification:

1. The GRE Task Force “Headlamp Switching” (TF-HS) has identified a need for some new definitions (“Switch ON”, “Switch OFF”, “Activate” and “Deactivate”); these new definitions are included in the proposal on headlamp switching, reproduced in document ECE/TRANS/WP.29/GRE/2018/22 (based on informal document GRE-78-21-Rev.1).

2. When the introduction of these new definitions will be accepted, some consequential alignment of the existing wording in UN Regulation 48 is necessary.

3. The above proposal is the result of the editorial revision of the current text of UN Regulation 48, 06 Series of amendments, to introduce these necessary wording alignments.