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1997 Agreement (Periodical Technical Inspections) – Proposal for Rule No. 2

Amendments to the proposal for draft Rule No. 2 on uniform provisions for periodical technical inspections of wheeled vehicles with regard to their roadworthiness

Submitted by the Working Party on Light and Light-Signalling (GRE)*

The World Forum WP.29 agreed at its 152nd session to have a final review on all comments received at its March 2011 session regarding Draft Rule No. 2 (ECE/TRANS/WP.29/2009/135). The Working Party on Light and Light-Signalling (GRE) submits notifications to the current text covering its area of expertise on Draft Rule No.2.

* In accordance with the programme of work of the Inland Transport Committee for 2006–2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

Annex, Table 4, amend to read:

"4. Lamps, Reflectors and Electrical Equipment					
4.1. Headlamps					
4.1.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light / light source. (b) Defective or missing projection system (reflector and lens). (c) Lamp not securely attached.	X X	X X	
4.1.2. Alignment	Determine the horizontal vertical aim of each headlamp on dipped beam using a headlamp aiming device or a screen.	Aim of a headlamp not within the limits laid down in the requirements. <u>1/</u>	X	X	
4.1.3. Switching	Visual inspection and by operation.	(a) Switch does not operate in accordance with the requirements. <u>1/</u> (Number of headlamps illuminated at the same time) (b) Function of control device impaired (c) Switch cannot be operated by driver restrained by the crash protection system.	X	X X	
4.1.4. Compliance with requirements <u>1/</u> (X) <u>2/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) System does not operate in accordance with the requirements. <u>1/</u> (c) Products on lens or light source which obviously reduce light intensity or change emitted colour (d) Light source and lamp not compatible.	X X X	X X X	
4.1.5. Levelling devices (where mandatory) (X) <u>2/</u>	Visual inspection and by operation if possible.	(a) Device not operating. (b) Manual device cannot be operated by driver restrained by the crash protection system. from driver seat.		X X	
4.1.6. Headlamp cleaning device (where mandatory) (X) <u>2/</u>	Visual Inspection by Operation If possible	(a) Device not operating. (b) Manual device cannot be operated by driver restrained by the crash protection system.	X	X X	
4.2. Front and rear position lamps, side marker lamps and end outline marker lamps					
4.2.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light /light source. (b) Defective lens. (c) Lamp not securely attached.	X X	X X X	

4.2.2. Switching	Visual inspection and by operation.	(a) Switch does not operate in accordance with the requirements. <u>1/</u> (b) Function of control device impaired. (c) Switch cannot be operated by driver restrained by the crash protection system.	X	X	
4.2.3. Compliance with requirements. <u>1/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) System does not operate in accordance with the requirements. <u>1/</u> (b) (c) Products on lens or light source which reduce light intensity or change emitted colour (d) Light source and lamp not compatible.	X	X	
4.3. Stop Lamps					
4.3.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light /light source. (b) Defective lens. (c) Lamp not securely attached.	X	X	X
4.3.2. Switching	Visual inspection and by operation.	(a) Signal not activated Switch does not operate in accordance with the requirements. <u>1/</u> (b) Function of control device impaired. Light flashes except to provide Emergency Stop Signal in accordance with regulations <u>1/</u>.	X	X	X
4.3.3. Compliance with requirements. <u>1/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) Light source and lamp not compatible. (c) Products on lens	X	X	
4.4. Direction indicator and hazard warning lamps					
4.4.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light /light source. (b) Defective lens. (c) Lamp not securely attached.	X	X	
4.4.2. Switching	Visual inspection and by operation.	(a) Switch does not operate in accordance with the requirements. <u>1/</u> (b) Function of control device impaired. (c) Switch cannot be operated by driver restrained by the crash protection system.	X	X	X

4.4.3. Compliance with requirements. <u>1/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) System does not operate in accordance with the requirements. <u>1/</u> (c) Light source and lamp not compatible. (d) Products on lens	X X X	X X X	
4.4.4. Flashing frequency	Visual inspection and by operation.	Rate of flashing not in accordance with the requirements. <u>1/</u>	X	X	
4.5. Front and rear fog lamps					
4.5.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light /light source. (b) Defective lens. (c) Lamp not securely attached.	X X X	X X X	
4.5.2. Alignment (X) <u>2/</u>	By operation and using a headlamp aiming device.	(a) Front fog lamp out of horizontal alignment when the light pattern has cut-off line.	X	X	
4.5.3. Switching	Visual inspection and by operation.	(a) Switch does not operate in accordance with the requirements. <u>1/</u> (b) Function of control device impaired. (c) Switch cannot be operated by driver restrained by the crash protection system.	X X X	X X X	
4.5.4. Compliance with requirements. <u>1/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) System does not operate in accordance with the requirements. <u>1/</u> (c) Light source and lamp not compatible. (d) Products on lens	 X X X	X X X X	
4.6. Reversing lamps					
4.6.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light /light source. (b) Defective lens. (c) Lamp not securely attached.	X X X	 X	
4.6.2. Compliance with requirements. <u>1/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) System does not operate in accordance with the requirements. <u>1/</u> (c) Light source and lamp not compatible. (d) Products on lens	X X X X	X X X X	

4.6.3.	Switching	Visual inspection and by operation.	(a) Switch does not operate in accordance with the requirements. <u>1/</u>	X	X	
4.7. Rear registration plate lamp						
4.7.1.	Condition and operation	Visual inspection and by operation.	(a) Lamp throwing direct light to the rear (a) Defective or missing light/light source. (b) Defective lens. (c) Lamp not securely attached.	X X X	X X X	
4.7.2.	Compliance with requirements <u>1/</u>	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements. <u>1/</u> (b) Lamp throwing direct light to the rear. (c) System does not operate in accordance with the requirements. <u>1/</u>	X X X	X X X	X
4.8. Retro-reflectors, conspicuity (retro reflecting) markings and rear marker plates						
4.8.1.	Condition	Visual inspection.	(a) Reflecting equipment defective, missing or damaged. (b) Reflector not securely attached.	X X	X X	
4.8.2.	Compliance with requirements. <u>1/</u>	Visual inspection.	(a) Device, reflected colour or position not in accordance with the requirements. <u>1/</u>	X	X	
4.9. Tell-tales mandatory for lighting equipment						
4.9.1.	Condition and operation	Visual inspection and by operation.	Not operating.	X	X	
4.9.2.	Compliance with requirements. <u>1/</u>	Visual inspection and by operation.	(a) Not in accordance with the requirements. <u>1/</u> (b) Not visible to driver restrained by the crash protection system.	X X	X X	
4.10.	Electrical connections between towing vehicle and trailer or semi-trailer	Visual inspection: if possible examine the electrical continuity of the connection.	(a) Fixed components not securely attached. (b) Damaged or deteriorated insulation. (c) Trailer or towing vehicle electrical connections not functioning correctly.	X X	X X X	X
4.11.	Electrical wiring	Visual inspection with vehicle over a pit or on a hoist, including inside the engine compartment in some cases.	(a) Wiring insecure or not adequately secured. (b) Wiring deteriorated (c) Damaged or deteriorated insulation.	X X X	X X X	X X X

<p>4.12. Non obligatory lamps and retro-reflectors (X) <u>2</u>/</p>	<p>Visual inspection and by operation.</p>	<p>(a) A lamp/retro-reflector fitted not in accordance with the requirements. <u>1</u>/ (b) Lamp operation not in accordance with the requirements. <u>1</u>/ (c) Lamp/retro-reflector not securely attached.</p>	<p>X X X</p>	<p>X X X</p>	
<p>4.13. Battery</p>	<p>Visual inspection.</p>	<p>(a) Insecure. (b) Leaking. (c) Defective switch (if required). (d) Defective fuses (if required). (e) inappropriate ventilation (if required)</p>	<p>X X</p>	<p>X X X X X"</p>	