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PUBLIC

WORKING DOCUMENT

From:	General Secretariat of the Council
To:	Delegations
Subject:	Proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL amending Directive 2014/45/EU on periodic roadworthiness tests for motor vehicles and their trailers and Directive 2014/47/EU on the technical roadside inspection of the roadworthiness of commercial vehicles circulating in the Union (Text with EEA relevance) - Four-column document - annexes RSI

Delegations will find attached Annexes of the above proposal concerning RSI including the amendments by the Council and the European Parliament.

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Annex I Directive 2014/47/EU (RSI Directive)

Commission proposal, EP mandate, Council mandate

[No changes]

RSI Directive Commission proposal Annex II introductory part

Annex II is amended as follows:

(a) in point 1, the following point (10) is added:

— '(10) Electronic safety systems.';

(b) point 3 is amended as follows:

(i) the heading is replaced by the following:

(a) '3. CONTENTS AND METHODS OF TESTING, REASONS FOR FAILURE, AND ASSESSMENT OF DEFICIENCIES OF VEHICLES';

RSI Directive Council mandate Annex II introductory part

(1) Annex II is amended as follows:

(a) in point 1, the following point (10) is added:

'(10) ~~Electronic~~**ADAS and other** safety **related** systems.';

(b) point 3 is amended as follows:

(i) the heading is replaced by the following:

'3. CONTENTS AND METHODS OF TESTING, REASONS FOR FAILURE, AND ASSESSMENT OF DEFICIENCIES OF VEHICLES';

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RSI Directive Commission proposal Annex II item 1

(ii) in the table, items 1.1.3 to 1.1.6 are replaced by the following:

1.1.3. Vacuum pump or compressor and reservoirs	Visual inspection of the components at normal working pressure. Check time required for vacuum or air pressure to reach safe working value and function of warning device, multi-circuit protection valve and pressure relief valve. Brake application means depression of the brake pedal/lever which allows the full flow of air/fluid application pressure to the brake assemblies.	(a) Insufficient pressure/vacuum to give assistance for at least four brake applications after the warning device has operated (or gauge shows an unsafe reading); at least two brake applications after the warning device has operated (or gauge shows an unsafe reading).		X X
		(b) Time taken to build up air pressure/vacuum to safe working value is too long according to the require- ments[1]		X	
		(c) Multi-circuit protection valve or pressure relief valve not working.		X	
		(d) Air leak causing a noticeable drop in pressure or audible air leaks. Air leak causing a critical drop in pressure.		X	 X
		(e) External damage likely to affect the function of the braking system. Secondary braking performance not met.		X	 X
1.1.4. Low pressure warning device	Functional check	Malfunctioning or defective warning device. Low pressure not identifiable.	X	 X	
1.1.5. Hand-operated brake control valve	Visual inspection of the components while	(a) Control cracked, damaged or excessively worn.		X	

	the braking system is operated.	(b) Control insecure on valve or valve insecure.		X	
		(c) Loose connections, defective fixing, or leaks in system.		X	
		(d) Unsatisfactory operation.		X	

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1.1.6. Parking brake (activator, lever control, parking brake ratchet)	Visual inspection of the components while the braking system is operated.	(a) Ratchet not holding correctly.		X	
		(b) Wear at lever pivot or in ratchet mechanism.	X		
		Excessive wear.		X	
		(c) Excessive movement of lever indicating incorrect adjustment.		X	
		(d) Activator missing, damaged or inoperative.		X	
		(e) Incorrect functioning, warning indicator shows malfunction		X	

(b) ’;

(iii) in the table, item 1.1.13 is replaced by the following:

(c) ‘

1.1.13. Brake linings and pads	Visual inspection.	(a) Lining or pad excessively worn (minimum mark reached).		X	
		Lining or pad excessively worn (minimum mark not visible).			X

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		(b) Lining or pad contaminated (oil, grease etc.). Braking performance affected.		X	 X
		(c) Lining or pad missing or wrongly mounted, or of obviously incorrect type.			X
		(d) Wear indicator electrical harness disconnected or damaged	X		

(d) ’;

(iv) in the table, item 1.1.18 is replaced by the following:

(e) ‘

1.1.18. Slack adjusters and indicators	Visual inspection of the components while the braking system is operated, if possible.	(a) Adjuster damaged, seized or having abnormal movement, excessive wear, or incorrect adjustment.		X	
		(b) Adjuster defective.		X	
		(c) Incorrectly installed or replaced.		X	

(f) ’;

(v) in the table, item 1.1.19 is deleted;

(vi) in the table, item 1.1.23 is replaced by the following:

(g) ‘

1.1.23. Overrun brake	Visual inspection and by operation	(a) Not working properly, for example, stroke of the drawbar exceeds 2/3 of the total overrun travel		X	
		(b) Breakaway cable defect or missing		X	

(h) ’;

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(vii) in the table, items 1.2.1 and 1.2.2 are replaced by the following:

(i) ‘

1.2.1. Performance (E)	During a test on a brake tester or, if impossible, during a road test, apply the brakes progressively up to maximum effort. It must be ensured, where possible, that the mechanical service brakes are inspected without interference/blending of regenerative braking or other continuous braking.	(a) Inadequate braking effort on one or more wheels. Or, in the case of testing on the road, the vehicle deviates excessively from a straight line and/or excessive vibration is produced at the service brake pedal/lever. No braking effort on one or more wheels.		X X	 X
		(b) Braking effort from any wheel is less than 70 % of the maximum effort recorded from the other wheel on the same axle. Or, in the case of testing on the road, the vehicle deviates excessively from a straight line. Braking effort from any wheel is less than 50 % of the maximum effort recorded from the other wheel on the same axle in the case of steered axles.		X	 X
		(c) No gradual variation in brake effort (grabbing).		X	
		(d) Abnormal lag in brake operation of any wheel.		X	
		(e) Excessive fluctuation of brake force during each complete wheel revolution.		X	

(j)

(k)

1.2.2. Efficiency(E)	Test with a brake tester at the presented weight or, if one cannot be used for technical reasons, by a road test usinga deceleration recording instrument ([1]).	Does not give at least the minimum figure as follows ([2]): Categories M_1, M_2 and M_3: 50 % ([3]) Category N_1: 45 % Categories N_2 and N_3: 43 % ([4]) Categories O_3 and O_4: 40 % ([5]) Category T: 40% Less than 50 % of the above values reached		X	X

(l) ';

(viii) in the table, item 1.3.1 is replaced by the following:

(m) '

1.3.1. Performance (E)	If the secondary braking system is separate from the service braking system, use the method specified in 1.2.1. It must be ensured that, where possible, the mechanical brakes are inspected without interference/blending of regenerative braking or other continuous braking.	(a) Inadequate braking effort on one or more wheels. No braking effort on one or more wheels.		X 	 X
		(b) Braking effort from any wheel is less than 70 % of the maximum effort recorded from another wheel on the same axle specified. Or, in the case of testing on the road, the vehicle deviates excessively from a straight line. Braking effort from any wheel is less than 50 % of the maximum effort recorded from the other wheel on the same axle in the case of steered axles.		X 	 X
		(c) No gradual variation in brake effort (grabbing).		X	

(n) ';

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(ix) in the table, item 1.4.1 is replaced by the following:

(o) ‘

1.4.1. Performance (E)	Apply the brake during a test on a brake tester or by road test.	Brake inoperative on one side or, in the case of testing on the road, the vehicle deviates excessively from a straight line. Less than 50 % of the braking effort values as referred to in point 1.4.2 reached in relation to the vehicle mass during testing.		X	X

(p) ’;

(x) in the table, item 1.5 is replaced by the following:

(q) ‘

1.5. Endurance braking system performance	Visual inspection and, where possible, test whether the system functions, i.e. by road test.	(a) Malfunction indicator indicates a fault.		X	
		(b) System not functioning.		X	

(r) ’;

(xi) in the table, item 1.6 is deleted;

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RSI – Council mandate

Annex II item 1

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(ii) in the table, items 1.1.3 to 1.1.6 are replaced by the following:

1.1.3. Vacuum pump or compressor and reservoirs	Visual inspection of the components at normal working pressure. Check time required for vacuum or air pressure to reach safe working value and function of warning device, multi-circuit protection valve and pressure relief valve. Brake application means depression of the brake pedal/lever which allows the full flow of air/fluid application pressure to the brake assemblies.	(a) Insufficient pressure/vacuum to give assistance for at least four brake applications after the warning device has operated (or gauge shows an unsafe reading); at least two brake applications after the warning device has operated (or gauge shows an unsafe reading).		X X
		(b) Time taken to build up air pressure/vacuum to safe working value is too long according to the require-ments[1].		X	
		(c) Multi-circuit protection valve or pressure relief valve not working.		X	
		(d) Air leak causing a noticeable drop in pressure or audible air leaks. Air leak causing a critical drop in pressure.		X X	
		(e) External damage likely to affect the function of the braking system Secondary braking performance not met.		X X	
1.1.4. Low pressure warning device	Functional check	Malfunctioning or defective warning device.	X		

		Low pressure not identifiable.		X	
1.1.5. Hand-operated brake control valve	Visual inspection of the components while the braking system is operated.	(a) Control cracked, damaged or excessively worn.		X	
		(b) Control insecure on valve or valve insecure.		X	
		(c) Loose connections, defective fixing, or leaks in system.		X	
		(d) Unsatisfactory operation.		X	

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1.1.6. Parking brake ~~(~~activator, lever control, parking brake ratchet~~)~~**, electronic actuated parking brake including four-wheel parking brake** **Description electronic actuated parking brake: the parking brake function is triggered or transmitted electronically or electromechanically.** **Description four-wheel parking brake: the system applies the maximum brake pressure in the wheel cylinders at all four wheels.** **.**	Visual inspection of the components while the braking system is operated **complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**.	(a) Ratchet not holding correctly.		X	
		(b) Wear at lever pivot or in ratchet mechanism. Excessive wear.	X	 X	
		(c) Excessive movement of lever indicating incorrect adjustment.		X	
		(d) ~~Activator~~**System or any component** missing~~, damaged or inoperative~~.		X	
		(e) System or component damaged.		**X**	
		(f) Software version or -integrity incorrect.		**X**	
		(g) Wiring damaged.		**X**	
		(~~e) Incorrect functioning, warning indicator~~**h) Warning device** shows **system** malfunction**.**		X	
		(i) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	 **X**	 **X**	 **X**

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		(j) System or components not operating, or implausible operation.		**X**	
		(k) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

’;

(iii) in the table, item 1.1.13 is replaced by the following:

‘

1.1.13. Brake linings and pads	Visual inspection.	(a) Lining or pad excessively worn (minimum mark reached). Lining or pad excessively worn (minimum mark not visible).		X	X

		(b) Lining or pad contaminated (oil, grease etc.). Braking performance affected.		X	 X
		(c) Lining or pad missing or wrongly mounted, or of obviously incorrect type.			X
		(d) Wear indicator electrical harness disconnected or damaged.	X		

’;

(iv) in the table, item 1.1.18 is replaced by the following:

‘

1.1.18. Slack adjusters and indicators	Visual inspection of the components while the braking system is operated, if possible.	(a) Adjuster damaged, seized or having abnormal movement, excessive wear, or incorrect adjustment.		X	
		(b) Adjuster defective.		X	
		(c) Incorrectly installed or replaced.		X	

;

(v) in the table, item 1.1.19 is ~~deleted;~~**replaced by the following:**

‘

1.1.19. Endurance braking system (where fitted or required)	**Visual inspection (with command activated and not activated, if possible) complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made**	**(a) System or any component missing (for example Insecure connectors or mountings).**		**X**	
		(b) System or components damaged.		**X**	

Description: an additional braking system that can maintain braking over a period of time without a significant reduction in performance, for example in accordance with UNECE-R 13 and Regulation (EU) 2019/2144.	**available, with the use of electronic interface**	**(c) Software version or -integrity incorrect.**		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

’;

(vi) in the table, item 1.1.23 is replaced by the following **items 1.1.23 to 1.1.25**:

‘

1.1.23. Overrun brake	Visual inspection and by operation	(a) Not working properly, for example, stroke of the drawbar exceeds 2/3 of the total overrun travel.		X	

		(b) Breakaway cable defect or missing.		X	
1.1.24 Trailer stabilization (if fitted) (X)[2] **Description: through selective braking of the trailer by the service brakes, the complete vehicle train is stabilised.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	(a) **System or any component missing.**		**X**	
		(b) **System or components damaged.**		**X**	
		(c) **Software version or -integrity incorrect.**		**X**	
		(d) **Wiring damaged.**		**X**	
		(e) **Warning device shows system malfunction.**		**X**	
		(f) **System indicates failure via the electronic vehicle interface** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) **System or components not operating, or implausible operation.**		**X**	
		(h) **Other failure** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

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1.1.25 Bus stop brake (if fitted) (X)[2] **Description: the system ensures the application of brake pressure when stationary, independent of the brake pedal activation. Buses can only start moving when the doors are closed.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	(a) **System or any component missing.**		**X**	
		(b) **System or components damaged.**		**X**	
		(c) **Software version or -integrity incorrect.**		**X**	
		(d) **Wiring damaged.**		**X**	
		(e) **Warning device shows system malfunction.**		**X**	
		(f) **System indicates failure via the electronic vehicle interface** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	 **X**	 **X**
		(g) **System or components not operating, or implausible operation.**		**X**	
		(h) **Other failure** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	 **X**	 **X**

’;

(vii) in the table, items 1.2.1 and 1.2.2 are replaced by the following:

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1.2.1. Performance ~~(E)~~	During a test on a brake tester or, if impossible, during a road test, apply the brakes progressively up to maximum effort. It must be ensured, where possible, that the mechanical service brakes are inspected without interference/blending of regenerative braking or other continuous braking.	(a) Inadequate braking effort on one or more wheels. ~~Or, in the case of testing on the road, the vehicle deviates excessively from a straight line and/or excessive vibration is produced at the service brake pedal/lever.~~ No braking effort on one or more wheels.		X ~~x~~ X
		(b) Braking effort from any wheel is less than 70 % of the maximum effort recorded from the other wheel on the same axle. Or, in the case of testing on the road, the vehicle deviates excessively from a straight line. Braking effort from any wheel is less than 50 % of the maximum effort recorded from the other wheel on the same axle in the case of steered axles.		X X
		(c) No gradual variation in brake effort (grabbing).		X	
		(d) Abnormal lag in brake operation of any wheel.		X	
		(e) Excessive fluctuation of brake force during each complete wheel revolution. **Or, in the case of testing on the road, excessive vibration is produced at the service brake pedal/lever or steering wheel.**		X	
1.2.2. Efficiency (E)	Test with a brake tester at the presented weight or, if one cannot be used for technical reasons, by a road test usinga deceleration recording instrument ([1]).	Does not give at least the minimum figure as follows ([2]): Categories M_1, M_2 and M_3: 50 % ([3])		X	

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		Category N_1: 45 % Categories N_2 and N_3: 43 % ([4]) Categories O_3 and O_4: 40 % ([5]) Category T: 40%. ~~Less than 50 % of the above values reached~~			~~x~~
		Less than 50 % of the above values reached			**X**

’;

(viii) in the table, item 1.3.1 is replaced by the following:

‘

1.3.1. Performance (E)	If the secondary braking system is separate from the service braking system, use the method specified in 1.2.1. It must be ensured that, where possible, the mechanical brakes are inspected without interference/blending of regenerative braking or other continuous braking.	(a) Inadequate braking effort on one or more wheels. No braking effort on one or more wheels.		X	 X
		(b) Braking effort from any wheel is less than 70 % of the maximum effort recorded from another wheel on the same axle specified. Or, in the case of testing on the road, the vehicle deviates excessively from a straight line. Braking effort from any wheel is less than 50 % of the maximum effort recorded from the other wheel on the same axle in the case of steered axles.		X	 X
		(c) No gradual variation in brake effort (grabbing).		X	

’;

(ix) in the table, item 1.4.1 is replaced by the following:

‘

1.4.1. Performance (E)	Apply the brake during a test on a brake tester or by road test.	Brake inoperative on one side or, in the case of testing on the road, the vehicle deviates excessively from a straight line. Less than 50 % of the braking effort values as referred to in ~~point~~**item** 1.4.2 reached in relation to the vehicle mass during testing.		X	X

’;

(x) in the table, item 1.5 is replaced by the following:

‘

1.5. Endurance braking system performance	Visual inspection and, where possible, test whether the system functions, i.e. by road test.	(a) Malfunction indicator indicates a fault.		X	
		(b) System not functioning.		X	

’;

(xi) in the table, item 1.6 is ~~deleted;~~**replaced by the following:**

‘

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1.6. Anti-lock braking system (ABS) **Description: the system automatically prevents wheel-locking during braking by selective reduction of the wheel brake force, for example in accordance with UNECE-R 13 and Regulation (EU) 2019/2144.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface.**	**(a) System or any component missing.**		**X**	
		(b) System or components (for example wheel speed sensor) damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	 **X**	 **X**
		(g) System or components not operating, or implausible operation.		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	 **X**	 **X**

’;

(xia) in the table, item 1.7 is replaced by the following:

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‘

1.7 Electronic brake system **Description: a brake pedal sensor and/or pressure sensor records the braking request and calculates the optimal brake force for each wheel, so that there is optimal activation of all wheel brakes.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface, or by road test.**	(a) **System or any component missing.**		**X**	
		(b) **System or components damaged.**		**X**	
		(c) **Software version or -integrity incorrect.**		**X**	
		(d) **Wiring damaged.**		**X**	
		(e) **Warning device shows system malfunction.**		**X**	
		(f) **System indicates failure via the electronic vehicle interface** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) **System or components not operating, or implausible operation.**		**X**	
		(h) **Other failure** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
1.7.1 Electric regenerative braking	**Visual inspection of the indicator of electric regenerative braking, and, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, by using the electronic vehicle interface, or by road test.**	(a) **Warning device indicates malfunctioning.**		**X**	
		(b) **The system does not noticeably decelerate the vehicle (except when the battery is full), or the charge indicator (if fitted) does not display “on charge” when regeneration is activated.**		**X**	
		(c) **Vehicle interface indicates system malfunction.**		**X**	
		(d) **Vehicle interface indicates system malfunction.**		**X**	

’;

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RSI – Commission proposal

Annex II item 2

(xiii) in the table, item 2.6 is deleted;

RSI – Council mandate

Annex II item 2

(xib) in the table, item 2.2.2 is replaced by the following:

‘

2.2.2. Steering column/yokes and steering dampers including electronic dampers **Description electronic damping: Steering damping is controlled electronically.**	**Push and pull the steering wheel in line with column, push steering wheel in various directions at right angles to the column.** **Visual inspection of play, and condition of flexible couplings or universal joints complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface.**	**(a) Excessive movement of centre of steering wheel up or down.**		**X**	
		(b) Excessive movement of top of column radially from axis of column.		**X**	
		(c) Deteriorated flexible coupling.		**X**	
		(d) Attachment defective. **Very serious risk of unlinking.**		**X**	 **X**
		(e) Unsafe modification[3].			**X**
		(f) System or any component missing.		**X**	

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		(g) System or components damaged		**X**	
		(h) Software version or -integrity incorrect.		**X**	
		(i) Wiring damaged.		**X**	
		(j) Warning device shows system malfunction.		**X**	
		(k) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(l) System or components not operating, or implausible operation **Steering affected.**		**X**	**X**
		(m) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

’;

(xii) in the table, item 2.6 is ~~deleted~~;**replaced by the following items 2.6 to 2.8:**

‘

2.6. Electronic Power Steering (EPS), including Superimposed steering **Description: the supporting power for steering is generated by an electric motor.** **Description superimposed steering: depending on the driving situation, the system varies the transmission ratio of the steering.**	**Visual inspection and consistency check between the angle of the steering wheel and the angle of the wheels when switching on/off the engine, complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	(a) **System or any component missing.**		**X**	
		(b) **System or components damaged.**		**X**	
		(c) **Software version or -integrity incorrect.**		**X**	
		(d) **Wiring damaged.**		**X**	
		(e) **Warning device shows system malfunction.**		**X**	
		(f) **System indicates failure via the electronic vehicle interface** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) **System or components not operating (for example Power assistance not working), or implausible operation (for example inconsistency between the angle of the steering wheel and the angle of the wheels)** **Steering affected.**		**X**	**X**
		(h) **Other failure** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
2.7 Electronic four-wheel steering (if fitted) **Description: two axles are steered, with a steering angle greater than 3° on all steered**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	(a) **System or any component missing.**		**X**	
		(b) **System or components damaged.**		**X**	
		(c) **Software version or -integrity incorrect.**		**X**	
		(d) **Wiring damaged.**		**X**	

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wheels, for example in accordance with UNECE-R 79 and Regulation (EU) 2019/2144		(e) **Warning device shows system malfunction.**		**X**	
		(f) **System indicates failure via the electronic vehicle interface** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X** **X**	**X**
		(g) System or components not operating, or implausible operation **Steering affected.**		**X**	**X**
		(h) **Other failure** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
2.8 Electronically controlled leading and trailing axle (if fitted) (X)[2] **Description: the steered axles are additional axles with electronically controlled steering. The steering force is generated by a hydraulic pump or by the lateral force on the wheels.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	**(a) System or any component missing.**		**X**	
		(b) System or components damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation **Steering affected.**		**X**	**X**

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X

’;

RSI – Commission proposal

Annex II item 3

[NO CHANGES]

RSI – Council mandate

Annex II item 3

(xiia) in the table, item 3.1 is replaced by the following:

‘

3.1. Field of vision including indirect field of vision via Camera monitor (if fitted) Description camera monitor: the system which generates at least a part of the indirect field of vision by a camera monitor combination (for example in accordance with UNECE-R 46).	Visual inspection from driving seat complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) Obstruction within driver's field of view that materially affects his view in front or to the sides (outside cleaning area of windscreen wipers). Inside cleaning area of windscreen wipers affected or outer mirrors not visible.	X	X	
		(b) System or any component missing.		X	
		(c) System or components damaged.		X	
		(d) Software version or -integrity incorrect.		X	

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		(e) Wiring damaged.		**X**	
		(f) Warning device shows system malfunction.		**X**	
		(g) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(h) System or components not operating, or implausible operation.		**X**	
		(i) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

'

RSI – Commission proposal

Annex II item 4

(xiv) in the table, item 4.1.1 is replaced by the following:

(s) ‘

4.1.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source. Multiple light sources (in the case of LED, up to 1/3 not functioning). Seriously affected visibility.	X	X	

		(b) Slightly defective projection system (reflector and lens). Heavily defective or missing projection system (reflector and lens).	X X		
		(c) Lamp not securely attached.		X	
		(d) System indicates failure for example via the electronic vehicle interface.		X	

(t) ';

(xiv) in the table, item 4.1.5 is replaced by the following:

(u) '

4.1.5. Manual levelling devices (where mandatory)	Visual inspection and by operation, if possible, or using the electronic vehicle interface.	(a) Device not operating.		X	
		(b) device cannot be operated from driver's seat.		X	

(v) ';

(xv) in the table, item 4.2.1 is replaced by the following:

(w) '

4.2.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source Multiple light sources (in the case of LED, up to 1/3 not functioning); one of several lateral light sources defective. Seriously affected visibility (in the case of LED, less than 2/3 functioning).	 X 	 X	
		(b) Defective lens.		X	
		(c) Lamp not securely attached. Very serious risk of falling off.	X 	 X	

(x) ';

(xvi) in the table, items 4.3.1 is replaced by the following:

(y) ‘

4.3.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source. Multiple light sources; in the case of LED up to 1/3 not functioning. Single light sources; in the case of LED less than 2/3 functioning. No light source functioning.	X	X	X
		(b) Slightly defective lens (no influence on emitted light). Heavily defective lens (emitted light affected).	X	X	
		(c) Lamp not securely attached. Very serious risk of falling off.	X	X	

(z) ’;

(xvii) in the table, item 4.4.1 is replaced by the following:

(aa) ‘

4.4.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source Multiple light sources (in the case of LED up to 1/3 not functioning). Single light sources; in the case of LED less than 2/3 functioning. No light source functioning.	X	X	X

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		(b) Slightly defective lens (no influence on emitted light). Heavily defective lens (emitted light affected).	X	X	
		(c) Lamp not securely attached. Very serious risk of falling off.	X	X	

(bb) ';

(xviii) in the table, item 4.5.1 is replaced by the following:

4.5.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source. Multiple light sources (in the case of LED up to 1/3 not functioning). Single light sources; in the case of LED less than 2/3 functioning.	X	X	
		(b) Slightly defective lens (no influence on emitted light). Heavily defective lens (emitted light affected).	X	X	
		(c) Lamp not securely attached. Very serious risk of falling off or dazzling oncomingtraffic.	X	X	

(cc) ';

(xix) in the table, item 4.6.1 is replaced by the following:

(dd) '

4.6.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source Multiple light sources (in the case of LED up to 1/3 not	X		

		functioning). Single light sources; in the case of LED less than 2/3 functioning.		X	
		(b) Defective lens	X		
		(c) Lamp not securely attached. Very serious risk of falling off	X	X	

(ee) ';

(xx) in the table, item 4.7.1 is replaced by the following:

(ff) '

4.7.1. Condition and operation	Visual inspection and by operation.	(a) Lamp throwing direct or white light to the rear.	X		
		(b) Defective or missing light source. (Multiple light source). Defective or missing light source. (Single light source).	X	X	
		(c) Lamp not securely attached. Very serious risk of falling off.	X	X	

(gg) ';

(xxi) in the table, in item 4.11, the title in the first column of the table is replaced by the following:

(hh) 'Electrical wiring (except high-voltage wiring)';

(ii)

(xxii) in the table, in item 4.13, the title in the first column of the table is replaced by the following:

(jj) 'Battery (or batteries, except high-voltage batteries)';

(kk)

(xxiii the following item 4.14 is inserted:

(ll) ‘

4.14 High-voltage systems					
4.14.1 Electrical safety	Visual inspection complemented by using the vehicle interface	(a) Indicator or vehicle interface shows system malfunction		X	
		(b) Software version or -integrity incorrect		X	
4.14.2 Traction battery cover	Visual inspection.	(a) Slightly deteriorated	X		
		Heavily deteriorated		X	
		(b) Defective attachment		X	
		Very serious risk of falling off			X
		(c) Obstructed ventilation port(s)	X		
4.14.3 Traction battery	Visual inspection, complemented by using the vehicle interface (where made possible by the technical characteristics of the vehicle, and where the necessary data is available).	(a) Marks of leakage		X	
		Leaking (presence of droplets)			X
		(b) Incorrect software or hardware, or readiness-code not active		X	
4.14.4 High voltage electrical wiring					
4.14.4.1 High voltage wiring harness and connector	Visual inspection and by operation with the vehicle over a pit or on a hoist, including inside the engine compartment and the boot (where applicable)	(a) Slightly deteriorated	X		
		Heavily deteriorated		X	
		Risk of short-circuit fault			X
		(b) Wiring insecure or not adequately secured	X		
		Fixings loose, touching sharp edges, connectors likely to be disconnected		X	
		Wiring likely to touch hot parts, rotating parts or the ground, connectors disconnected			X
		(c) Imminent risk of fire, formation of sparks			X
4.14.4.2 Ground braid, including their attachment	Visual inspection and by operation.	Slightly deteriorated	X		

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		Heavily deteriorated		X	
4.14.4.3 Ground continuity (X)[2]	Measurement using an ohmmeter	Test not feasible	X		
		Too high resistance (over 100 Ohms)		X	
4.14.4.4 Charging inlet cover	Visual inspection and by operation.	Deteriorated	X		
		Missing		X	
4.14.4.5 Charging inlet	Visual inspection and by operation.	(a) Deteriorated	X		
		Trace of beginning of melting or electric arcs		X	
		(b) Foreign material or moisture		X	
4.14.4.6 Charging cable	Visual inspection and by operation.	(a) Deteriorated	X		
		(b) Charging cable not provided	X		
4.14.5. High voltage electrical and electronical equipment (X)[2]					
4.14.5.1. High voltage electrical and electronical equipment	Visual inspection and by using the electronic vehicle interface.	(a) Slightly deteriorated	X		
		Heavily deteriorated		X	
		(b) Attachment defective		X	
		(c) Leaking		X	
4.14.5.2. Traction motor	Visual inspection	(a) Shield is deformed, not in-place or damaged, or corroded		X	
	Check of operational readiness of the systems by an applicable interface (OBD or OBM)	(b) Warning marking missing or illegible		X	
		(c) Connection of wiring harness insecure or corroded		X	
	Measurement of equipotential bonding, where made possible by the technical characteristics of the vehicle	(d) Electrical insulation damaged or deteriorated		X	
		likely to cause injury when contacted.			X
		(e) Fault readiness of the traction motor		X	
		(f) Wrong version of type-approved hardware and software not in accordance with the requirements as defined in the ECE R100		X	
4.14.5.3 Electronic converters, motor, and inverter	Visual inspection	(a) Not in accordance with requirements[1]		X	

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	Check of operational readiness of the systems by an applicable interface (OBD or OBM) Measurement of equipotential bonding, where made possible by the technical characteristics of the vehicle	(b) Inadequately secured		X		
		(c) Damaged or corroded components Likely to cause injuries or to fall off	X	 X		
		(d) Shields not in place or damaged		X		
		(e) Damaged or deteriorated electrical insulation		X		
		(f) Fault readiness of the converter and inverter systems		X		
		(g) Wrong version of type-approved hardware and software		X		
4.14.6. Insulation resistance (X)[2]						
4.14.6.1. Insulation resistance of the vehicle charging inlet and resistance of the protective earthing	Read insulation resistance by the electronic vehicle interface, where made possible by the technical characteristics of the vehicle and where the necessary data is made available	(a) Insulation resistance is not in accordance with requirements or predefined values from the vehicle manufacturer		X		
		(b) Resistance of the protective earthing is not in accordance with requirements		X		
4.14.6.2. Insulation resistance between the high-voltage system and chassis	Visual inspection Read insulation resistance by the electronic vehicle interface, where made possible by the technical characteristics of the vehicle and where the necessary data is made available	(a) Insulation monitoring system shows malfunction		X		
		(b) Insulation resistance value not in accordance with requirements		X		
4.14.7. Anti-starting system						
4.14.7.1. Anti-starting system	Visual inspection and by operation when possible. Functional check by verifying that the vehicle cannot move by itself with the charging cable plugged, and the driver's weight lifted out of the seat	(a) Indicator malfunction	X			
		(b) Inoperative, i.e., vehicle can move with connected charging cable or with no driver present		X		

(mm)';

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RSI – Parliament mandate

Annex II item 4

In the table, item 4.14.4.2 is replaced by the following:					
Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
4.14.4.3 Ground continuity	Measurement using an ohmmeter	Test not feasible	X		
		Too high resistance (over 100 ***mΩ***)		X	

Amendment					
Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
4.14.4.6 Charging cable ***(X)2***	Visual inspection and by operation***, if presented.***	(a) Deteriorated	X		
	~~(b) charging cable not provided~~		~~X~~		

PUBLIC

RSI – Council mandate

Annex II item 4

(xiii) in the table, item 4.1.1 is replaced by the following:

‘

4.1.1. Condition and operation **including functions such as cornering light, high beam assist, adaptive headlights and bending lights.** **Description cornering light: during cornering, an extra headlamp is activated. Operates up to 40 km/h, for example in accordance with UNECE-R 48 or UNECE-R 119** **Description high beam assist: the system automatically activates and deactivates the high beam according to the driving situation and lighting conditions.** **Description adaptive headlight: the illumination of the surrounding road area and/or the direct illumination of road users in the danger area in front of the vehicle is optimised by dynamic adaption of the light beams.** **Description bending light: during cornering and depending on the steering angle and speed, the light beam is swivelled and/or an additional headlight is activated, for example in accordance with UNECE-R 48; UNECE-R 98; UNECE-R 112; or UNECE-R 123.**	Visual inspection ~~and by operation.~~ **complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface.**	(a) Defective or missing light source. Multiple light sources (in the case of LED, up to 1/3 not functioning). Seriously affected visibility ~~.~~ **(single light source, or, in the case of LED, less than 2/3 functioning).**	X X		
		(b) Slightly defective projection system (reflector and lens). Heavily defective or missing projection system (reflector and lens).	X X		
		(c) Lamp not securely attached.		X	
		(d) System or any component missing.		**X**	
		(e) System or any component damaged.		**X**	
		(f) Software version or -integrity incorrect.		**X**	

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		(g) Wiring damaged.		**X**	
		(h) Warning device shows system malfunction.		**X**	
		(~~d~~**i**) System indicates failure ~~for example~~ via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users**.	**X**	X	**X**
		(j) System or components not operating, or implausible operation.		**X**	
		(k) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

~~(nn) ?~~

‘

(xiv) in the table, item 4.1.5 is replaced by the following:

‘

4.1.5.~~ Manual~~ **Automatic and manual** levelling devices (where mandatory)	Visual inspection ~~and by operation, if~~**complemented, where made** possible~~, or using~~ **by** the **technical characteristics of the vehicle and where the necessary data is made available, with the use of** electronic ~~vehicle~~ interface .	(a) ~~Device not operating~~**System or any component missing**.		X	
		(b) System or components damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	

Description automatic levelling devices: depending on the load and (optional) pitch angle, the system regulates the headlamp's vertical aim, for example in accordance with UNECE-R 121.		**(d) Wiring damaged.**		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation.		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(~~b) Device~~**i) Manual device** cannot be operated from ~~driver's~~**driver's** seat.		X	

';

(xv) in the table, ~~item~~**items** 4.2.1 ~~is~~**and 4.2.2 are** replaced by the following:

'

'4.2.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source Multiple light sources (in the case of LED, up to 1/3 not functioning); one of several lateral light sources defective.	X	**X**	

		~~Seriously affected~~ visibility (**Single light sources:** in the case of LED, less than 2/3 functioning)~~.~~**; Two or more of several lateral light sources defective.**		X	
		(b) Defective lens.		X	
		(c) Lamp not securely attached.	X		
		Very serious risk of falling off.		X	
4.2.2. Switching	**Visual inspection and by operation.**	**(a) Switch does not operate in accordance with the requirements[1].**		**X**	
		Rear position lamps and side marker lamps can be switched off when headlamps are on.		**X**	
		(b) Function of control device impaired.		**X**	
4.2.2.1 Automatic light (if required) **Description: depending on the ambient brightness, the system automatically switches on and off the driving light.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	**(a) System or any component missing.**		**X**	
		(b) System or components damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	

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		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation.		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

’;

(xvi) in the table, item 4.3.1 is replaced by the following:

‘

4.3.1. Condition and operation	Visual inspection and by operation	(a) Defective or missing light source. Multiple light sources; in the case of LED up to 1/3 not functioning).	X		

		Single light sources; in the case of LED less than 2/3 functioning. All light sources not functioning.		X	X
		(b) Slightly defective lens (no influence on emitted light). Heavily defective lens (emitted light affected).	X	X	
		(c) Lamp not securely attached. Very serious risk of falling off,	X	X	

’;

(xvii) in the table, item 4.4.1 is replaced by the following:

‘

Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
4.4.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source Multiple light sources (in the case of LED up to 1/3 not functioning). Single light sources; in the case of LED less than 2/3 functioning. No light source functioning.	X	X	X

		(b) Slightly defective lens (no influence on emitted light). Heavily defective lens (emitted light affected).	X 	 X	
		(c) Lamp not securely attached. Very serious risk of falling off.	X 	 X	

’;

(xviii) in the table, item 4.5.1 is replaced by the following:

‘

4.5.1. Condition and operation	Visual inspection and by operation	(a) Defective or missing light source Multiple light source; in thecase of LED up to 1/3 not functioning. Single light sources; in the case of LED less than 2/3 functioning.	 X 	 X	
		(b) Slightly defective lens (no influence on emitted light). Heavily defective lens (emitted light affected).	X 	 X	
		(c) Lamp not securely attached. Very serious risk of falling off or dazzling oncoming traffic.	X 	 X	

’;

(xix) in the table, item 4.6.1 is replaced by the following:

‘

4.6.1. Condition and operation	Visual inspection and by operation.	(a) Defective or missing light source Multiple light sources (in the case of LED up to 1/3 not functioning). Single light sources; in the case of LED less than 2/3 functioning.	X	X	
		(b) Defective lens.	X		
		(c) Lamp not securely attached. Very serious risk of falling off.	X	X	

’;

(xx) in the table, item 4.7.1 is replaced by the following:

‘

4.7.1. Condition and operation	Visual inspection and by operation**.**	(a) Lamp throwing direct or white light to the rear.	X		
		(b) Defective or missing light source ~~(multiple~~**. (Multiple** light source**; in the case of LED up to 1/3 not functioning**). Defective or missing light source ~~(single~~**. (Single** light source**; in the case of LED less than 2/3 functioning**).	X	X	

		(c) Lamp not securely attached. **Very serious risk of falling off.**	**X**	**X**	

’;

(xxi) in the table, in item 4.11, the title in the first column is replaced by the following:

‘Electrical wiring (except high-voltage wiring)’;

(xxia) in the table, item 4.12 is replaced by the following:

‘

4.12. Non obligatory lamps and retro-reflectors, for example basic exterior lights (X)[2] **Description basic exterior lights: the system switches on/switches off the basic lighting devices (for example indicators).**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	**(a) A lamp/retro-reflector fitted not in accordance with the requirements[1].** **Emitting/reflecting red light to the front or white light to the rear.**	**X**	**X**	
		(b) Lamp operation not in accordance with the requirements[1]. **Number of headlights simultaneously operating exceeding permitted light brightness; Emitting red light to the front or white light to the rear.**	**X**	**X**	
		(c) Lamp/retro-reflector not securely attached. **Very serious risk of falling off.**	**X**	**X**	
		(d) System or any component missing.		**X**	

		(e) System or components damaged.		**X**	
		(f) Software version or -integrity incorrect.		**X**	
		(g) Wiring damaged.		**X**	
		(h) Warning device shows system malfunction.		**X**	
		(i) System indicates failure via the electronic vehicle interface			
		Not affecting the safe operation	**X**		
		Affecting safe operation of the vehicle		**X**	
		Danger to health of persons on board or of other road users.			**X**
		(j) System or components not operating, or implausible operation.		**X**	
		(k) Other failure			
		Not affecting the safe operation	**X**		
		Affecting safe operation of the vehicle		**X**	
		Danger to health of persons on board or of other road users.			**X**

’;

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(xxii) in the table, in item 4.13, the title in the first column is replaced by the following:

'Battery (or batteries, except high-voltage batteries)';

(xxiii) ~~in the table,~~ the following ~~item~~**items** 4.14 ~~is~~**and 4.15 are** inserted:

'

4.14 High-voltage systems					
4.14.1 Electrical safety	Visual inspection complemented by using the vehicle interface **(where made possible by the technical characteristics of the vehicle, and where the necessary data is available).**	(a) Indicator or vehicle interface shows system malfunction**.**		X	
		(b) Software version or -integrity incorrect**.**		X	
4.14.2 Traction battery ~~cover~~**enclosure**	Visual inspection.	(a) Slightly deteriorated Heavily deteriorated**.**	X	 X	
		(b) Defective attachment Very serious risk of falling off**.**		X	 X
		(c) Obstructed ventilation port(s~~)~~**).**	X		
4.14.3 ~~Traction~~**Rechargeable energy storage system (REESS), traction** battery **and battery management system** **Description: REESS means the rechargeable energy storage system that provides electric energy for electric propulsion. The REESS may include subsystem(s) together with the necessary ancillary systems for physical support,**	Visual inspection, complemented by using the vehicle interface (where made possible by the technical characteristics of the vehicle, and where the necessary data ~~are~~**is** available).	(a) Marks of leakage Leaking (presence of droplets~~)~~**).**		X	 X
		(b) Incorrect software or hardware, or readiness-code not active**.**		X	

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thermal management, electronic control and enclosures					
4.14.4 High voltage electrical wiring					
4.14.4.1 High voltage wiring harness and connector	Visual inspection ~~and by operation~~ with the vehicle over a pit or on a hoist, including inside the engine compartment and the boot (where applicable)	(a) Slightly deteriorated	X		
		Heavily deteriorated		X	
		Risk of short-circuit fault**.**			X
		(b) Wiring insecure or not adequately secured	X		
		Fixings loose, touching sharp edges, connectors likely to be disconnected		X	
		Wiring likely to touch hot parts, rotating parts or the ground, connectors disconnected~~-~~**.**			X
		(c) Imminent risk of fire, formation of sparks**.**			X
4.14.4.2 Ground braid, including their attachment	Visual inspection ~~and by operation~~.	Slightly deteriorated	X		
		Heavily deteriorated**.**		X	
4.14.4.3 Ground continuity (X)[2]	Measurement using an ohmmeter	Test not feasible	X		
		Too high resistance (over 100 ~~Ohms)~~**Ω (ohms)).**		X	
4.14.4.4 Charging inlet cover	Visual inspection and by operation.	Deteriorated	X		
		Missing**.**		X	
4.14.4.5 Charging inlet	Visual inspection and by operation.	Deteriorated	X		
		Trace of beginning of melting or electric arcs		X	
		Foreign material**, modified,** or moisture**.**		X	

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4.14.4.6 Charging cable **(if available)**	Visual inspection and by operation.	Deteriorated.	X		
		~~Charging cable not provided~~	~~X~~		
4.14.5. High voltage electrical and electronical equipment (X)[2]					
4.14.5.1. High voltage electrical and electronical equipment	Visual inspection and by using the electronic vehicle interface.	(a) Slightly deteriorated	X		
		Heavily deteriorated.		X	
		(b) Attachment defective.		X	
		(c) Leaking.		X	
4.14.5.2. Traction motor	Visual inspection	(a) Shield is deformed, not in-place or damaged, or corroded.		X	
		(b) Warning marking missing or illegible.		X	
	Check of operational readiness of the systems by an applicable interface (OBD or OBM)	(c) Connection of wiring harness insecure or corroded.		X	
		(d) Electrical insulation damaged or deteriorated		X	
	Measurement of equipotential bonding, where made possible by the technical characteristics of the vehicle	likely to cause injury when contacted.			X
		(e) Fault readiness of the traction motor.		X	
		(f) ~~Wrong version of type~~ **Type**-approved hardware and software not in accordance with the ~~requirements as defined in the ECE R100~~ **requirements**[1].		X	
4.14.5.3 Electronic converters, motor, and inverter	Visual inspection	(a) Not in accordance with requirements[1].		X	
		(b) Inadequately secured.		X	
	Check of operational readiness of the systems by an applicable interface (OBD or OBM)	(c) Damaged or corroded components	X		
		Likely to cause injuries or to fall off.		X	

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	Measurement of equipotential bonding, where made possible by the technical characteristics of the vehicle	(d) Shields not in place or damaged.		X		
		(e) Damaged or deteriorated electrical insulation.		X		
		(f) Fault readiness of the converter and inverter systems.		X		
		(g) Wrong version of type-approved hardware and software.		X		
4.14.6. Insulation resistance (X)[2]						
4.14.6.1. Insulation resistance of the vehicle charging inlet and resistance of the protective earthing	Read insulation resistance by the electronic vehicle interface, where made possible by the technical characteristics of the vehicle and where the necessary data is made available	(a) Insulation resistance is not in accordance with requirements or predefined values from the vehicle manufacturer.		X		
		(b) Resistance of the protective earthing is not in accordance with requirements[1].		X		
4.14.6.2. Insulation resistance between the high-voltage system and chassis	Visual inspection Read insulation resistance by the electronic vehicle interface, where made possible by the technical characteristics of the vehicle and where the necessary data is made available	(a) Insulation monitoring system shows malfunction.		X		
		(b) Insulation resistance value not in accordance with ~~requirements~~requirements[1]		X		
4.14.7. Anti-starting system						
4.14.7.1. Anti-starting system **(if required)**	Visual inspection and by operation when possible. Functional check by verifying that the vehicle cannot move by itself with the charging cable plugged, and the driver's weight lifted out of the seat	Indicator malfunction.	X			
4.15 Emergency braking signal **Description: during strong deceleration, hazard warning lights and/or additional luminous surfaces are activated and/or the following traffic is warned by flashing**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	(a) **System or any component missing.**		X		

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brake lights, for example in accordance with UNECE-R 48 or UNECE-R 13.					
		(b) **System or components damaged.**		**X**	
		(c) **Software version or -integrity incorrect.**		**X**	
		(d) **Wiring damaged.**		**X**	
		(e) **Warning device shows system malfunction.**		**X**	
		(f) **System indicates failure via the electronic vehicle interface** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) **System or components not operating, or implausible operation.**		**X**	
		(h) **Other failure** **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

’;

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RSI – Commission proposal

Annex II item 5

(xxiv) in the table, item 5.1.3 is replaced by the following:

(oo) ‘

5.1.3. Wheel bearings (+ E)	Visual inspection with the vehicle over a pit or on a hoist. Wheel play detectors may be used and are recommended for vehicles having a maximum mass exceeding 3,5 tonnes. Rock the wheel or apply a lateral force to each wheel and note the amount of upward movement of the wheel relative to the stub axle.	(a) Excessive play in a wheel bearing. Directional stability impaired; danger of demolishment.		X 	 X
		(b) Wheel bearing too tight, jammed. Danger of overheating; danger of demolishment.		X 	 X
		(c) Audible signs of bearing wear or damage.		X	

(pp) ’;

(qq)

RSI – Parliament mandate

Annex II item 5

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The following item 5.3.2.1a should be inserted in Annex II of Directive 2014/47/EU:			
5.3.2.1a efficiency testing of damping (X)[2]	***Using special equipment and comparing left/ right differences, or based on the measurement of oscillation behaviour or damping of the vehicle***	***a) Significant difference between left and right.*** ***b) Given minimum values not reached.***	***X*** ***X***
[2] (X) identifies items which relate to the condition of the vehicle and its suitability for use on the road but which are not considered essential in a roadworthiness test.			

RSI – Council mandate

Annex II item 5

(xxiv) in the table, item 5.1.3 is replaced by the following:

‘

5.1.3. Wheel bearings (+ E)	Visual inspection using. wheel play detectors if available. Rock the wheelor apply a lateral force to each wheel and note the amount of upwardmovement of the wheel relative to the stub axle.	(a) Excessive play in a wheel bearing. Directional stability impaired; danger of demolishment.		X	 X
		(b) Wheel bearing too tight, jammed.		X	

		Danger of overheating; danger of demolishment.			X
		(c) Audible signs of bearing wear or damage.		X	

‘

(xxiva) in the table, item 5.2.3 is replaced by the following:

‘

5.2.3. Tyres	**Visual inspection of the entire tyre by either rotating the road wheel with it off the ground and the vehicle over a pit or on a hoist, or by rolling the vehicle backwards and forwards over a pit.**	**(a) Tyre size, load capacity, approval mark or speed category not in accordance with the requirements[1] and affecting road safety.** **Insufficient load capacity or speed category for actual use, tyre touches other fixed vehicle parts impairing safe driving.**		**X**	**X**
		(b) Tyres on same axle or on twin wheels of different sizes.		**X**	
		(c) Tyres on same axle of different construction (radial/ cross-ply).		**X**	
		(d) Any serious damage or cut to tyre. **Cord visible or damaged.**		**X**	**X**
		(e) Tyre tread wear indicator becomes exposed. **Tyre tread depth not in accordance with the requirements[1].**		**X**	**X**
		(f) Tyre rubbing against other components (flexible anti spray devices).	**X**		

		Tyre rubbing against other components (safe driving not impaired).		**X**	
		(g) Re-grooved tyres not in accordance with requirements[1]. **Cord protection layer affected.**		**X**	**X**
		(h) Tyre obviously underinflated.	**X**		
5.2.3.1. Tyre pressure warning **Description: the system detects loss of tyre pressure through integrated sensors and/or by implausible values for wheel speed, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 141**	**Visual inspection complemented, where made possible by the physical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface.**	**(a) System or any component missing.**		**X**	
		(b) System or components damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation.		**X**	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X

‘

(xxivb) in the table, item 5.3.2 and 5.3.2.1 are replaced by the following:

‘

5.3.2 Shock absorbers, including electronic damping (if fitted) Description electronic damping: depending on the driving situation, the rebound and compression stage of the shock absorbers is adjusted by the system.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing.		X	
		(b) System or components damaged.		X	
		(c) Software version or -integrity incorrect.		X	
		(d) Wiring damaged.		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X
		(g) System or components not operating, or implausible operation.		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle	X	X	

		Danger to health of persons on board or of other road users.			X
		(i) Insecure attachment of shock absorbers to chassis or axle	X		
		Shock absorber loose.		X	
		(j) Damaged shock absorber showing signs of severe leakage or malfunction.		X	
5.3.2.1. Efficiency testing of damping (X)[2]	Using special equipment and comparing left/ right differences, or based on oscillation behaviour or damping of the vehicle	(a) Significant difference between left and right.		X	
		(b) Given minimum values not reached.		X	

’;

(xxivc) in the table, item 5.3.5 is replaced by the following:

‘

5.3.5. Air suspension, including height levelling (if fitted)	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing.		X	
		(b) System or components damaged.		X	
		(c) Software version or -integrity incorrect.		X	
		(d) Wiring damaged.		X	
Description height levelling: the system changes the clearance between vehicle chassis and the road.		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation	X		
		Affecting safe operation of the vehicle		X	
		Danger to health of persons on board or of other road users.			X

		(g) System or components not operating, or implausible operation.		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X
		(i) Audible system leakage.		X	

’;

RSI – Commission proposal

Annex II item 6

[NO CHANGES]

RSI – Council mandate

Annex II item 6

(xxivd) in the table, item 6.1.3 is replaced by the following:

‘

6.1.3. Fuel tank and pipes (including heating fuel tank and pipes and hydrogen installation)	Visual inspection with vehicle over a pit or on a hoist, use of leak detecting devices in the case of LPG/CNG/LNG/H systems complemented, where made possible by the technical characteristics of the vehicle and where	(a) Insecure tank or pipes, creating particular risk of fire.			X
		(b) Leaking fuel or missing or ineffective filler cap. Risk of fire; excessive loss of hazardous material.			X

Description hydrogen installation: the hydrogen is stored in the vehicle and is used to propel the vehicle, either by combustion in an internal combustion engine or by conversion in a fuel cell with an additional electric engine.	the necessary data is made available, with the use of electronic interface.	(c) Chafed pipes. Damaged pipes.		X X
		(d) Fuel stopcock (if required) not operating correctly.	X X	
		(e) Fire risk due to: — leaking fuel; — fuel tank or exhaust not properly shielded; — engine compartment condition.		X
		(f) LPG/CNG/LNG or hydrogen system not in accordance with requirements; any part of the system defective[1].			X
		(g) System or any component missing.			X
		(h) System or components damaged.		X	
		(i) Software version or -integrity incorrect.		X	
		(j) Wiring damaged.		X	
		(k) Warning device shows system malfunction.		X	
		(l) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	 X	 X

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		(m) System or components not operating, or implausible operation.		X	
		(n) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X

’;

(xxive) in the table, the following item 6.1.10 is inserted:

‘

6.1.10 Sliding joint stabilisation (if fitted) (X)[2] Description: The articulated joint is stabilised by damping, depending on vehicle speed, cylinder pressure of the articulated dampers, steering and articulation-angle.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing.		X	
		(b) System or components damaged.		X	
		(c) Software version or -integrity incorrect.		X	
		(d) Wiring damaged.		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation	X		

		Affecting safe operation of the vehicle **Danger to health of persons on board or of other road users.**		**X**	**X**
		(g) System or components not operating, or implausible operation.		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

';

RSI – Commission proposal

Annex II item 7

(xxv) in the table, items 7.1.3, 7.1.4, 7.1.5 and 7.1.6 are deleted;

(xxvi) in the table, item 7.8 is replaced by the following:

(rr) '

7.8. Speedometer	Visual inspection or by operation during road test or by using the electronic vehicle interface, or any combination of these.	(a) Not fitted in accordance with the requirements[1]. Missing (if required).	X	X	
		(b) Operation impaired. Not operational at all.	X	X	
		(c) Not capable of being sufficiently illuminated. Not capable of being illuminated at all.	X	X	

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(ss) ’;

(xxvii in the table, items 7.9 and 7.10 are deleted;

(xxviii) in the table, item 7.11 is replaced by the following:

(tt) ‘

7.11. Odometer, if available	Visual inspection, and/or using electronic interface (OBD or OBM)	(a) Obviously manipulated (fraud) to reduce or misrepresent the vehicle's distance record.		X	
		(b) Obviously inoperative.		X	

(uu) ’;

(xxix) in the table, items 7.12 and 7.13 are deleted;

RSI – Council mandate

Annex II item 7

(xxivf) in the table, item 7.1.3 is replaced by the following:

‘

7.1.3 Safety belt tensioner and belt force limiter **Description: In the event of an accident, the seat belt is tensioned to place the passengers in a setpoint position and/or limits the belt force, electrically controlled and, thus, limits the forces acting on the persons for example**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	**(a) System or any component missing, or not suitable with the vehicle.**		**X**	
		(b) System or components damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	

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in accordance with UNECE-R 16 or UNECE-R 94.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board.	X	X	X
		(g) System or components not operating, where applicable, or implausible operation.		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board.	X	X	X

’;

(xxv) in the table, **item 7.1.5 is replaced by the following:**

‘

7.1.5 Airbag Description: In case of an accident, inflatable airbags reduce the risk of injury by their absorbing effect, for example in accordance with UNECE-R 12; UNECE-R 14; or UNECE-R 16.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or components (for example seat occupancy detection) obviously missing.		X	
		(b) System or components damaged.		X	
		(c) Software version or -integrity incorrect.		X	
		(d) Wiring damaged.		X	
		(e) Warning device shows system malfunction.		X	

		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board.**	**X**	**X**	**X**
		(g) System or components obviously not operating (for example not suitable with the vehicle).		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board.**	**X**	**X**	**X**

';

(xxva) in the table, items 7.1.4 and 7.1.6 are deleted;

(xxvi) in the table, item 7.8 is replaced by the following:

'

7.8. Speedometer	Visual inspection or by operation during road test or by using the electronic vehicle interface, or any combination of these.	(a) Not fitted in accordance with the requirements[1]. Missing (if required).	X	X	
		(b) Operation impaired. Not operational at all.	X	X	

		(c) Not capable of being sufficiently illuminated. Not capable of being illuminated at all.	X	 X	

’;

(xxvii) in the table, ~~items~~**item** 7.9 ~~and 7.10 are deleted~~**is replaced by the following**;

‘

7.9. Tachograph (if fitted/required) **Description: a system to record the driving time, breaks, rest periods as well as periods of other work undertaken by a driver, for example, in accordance with Regulation (EU) No 165/2014 of the European Parliament and of the Council****.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface.**	**(a) System or any component missing (for example seals, plaques), or not fitted in accordance with the requirements[1] (for example plaque out of date).**		**X**	
		(b) System or components damaged (for example illegible plaque).		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation (for example tampered or manipulated, or size of tyres not compatible with calibration parameters, or incorrect set speed, if checked).		**X**	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X

’;

(xxviia) in the table, item 7.10 is replaced by the following:

‘

7.10. Speed limitation device (if fitted/required) (+E) Description: While driving, the system prevents exceeding a defined maximum speed. Relevant, if mandatory, for example in accordance with UNECE-R 89 and Regulation (EU) 2019/2144.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing (for example seals, plaques), or not fitted in accordance with the requirements[1].		X	
		(b) System or components damaged.		X	
		(c) Software version or -integrity incorrect.		X	
		(d) Wiring damaged.		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users.	X	X	X

		(g) System or components not operating, or implausible operation (for example tampered or manipulated, or size of tyres not compatible with calibration parameters, or incorrect set speed, if checked).		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

';

(xxviii) in the table, item 7.11 is replaced by the following:

'

7.11. Odometer, if available	Visual inspection, and/or using electronic interface (OBD or OBM~~)~~**).** **If the inspection shows that the odometer has been manipulated, the inspector shall indicate this on the roadworthiness certificate as a notification to the vehicle owner**	~~(a) Obviously manipulated (fraud) to reduce or misrepresent the vehicle's distance record.~~		~~X~~	
		~~(b)~~ Obviously inoperative.		X	

';

(xxix) in the table, ~~items~~**item** 7.12 ~~and~~**is replaced by the following:**

‘

7.12. Electronic Stability Control (ESC) if fitted/required (X)[1] **Description: the system stabilises the vehicle or the complete vehicle train in critical, dynamic driving situations, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 140.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface**	**(a) System or any component (for example wheel speed sensors) missing.**		**X**	
		(b) System or components (for example wheel speed sensors) damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation.		**X**	
		(h) Other failure **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board or of other road users.**	**X**	**X**	**X**

’;

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(xxixa) in the table, the following item 7.13 ~~are deleted;~~**is inserted:**

‘

7.13 eCall (if fitted, inaccordance with EU type approval legislation)	**Method**	**Reason for failure**	**Minor**	**Major**	**Dangerous**
Automatic eCall **Description: the system is triggered automatically by in-vehicle sensors or manually, it transmits a minimum set of data (EN 15722) via mobile communication network and establishes an audio connection based on the (emergency) number between the vehicle passengers and the public safety answering point, in accordance with Regulation (EU) 2015/758 of the European Parliament and of the Council**, and Commission Delegated Regulation (EU) 2017/79***.**	**Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface** **For eCall systems which uses older cellular networks (2g/3g) and those networks are no longer in service and the eCall-system indicates malfunction, this shall not be a reason for failure.**	**(a) System or any component missing.**		**X**	
		(b) System or components damaged.		**X**	
		(c) Software version or -integrity incorrect.		**X**	
		(d) Wiring damaged.		**X**	
		(e) Warning device (eCall MIL) shows system malfunction.		**X**	
		(f) System indicates failure via the electronic vehicle interface **Not affecting the safe operation** **Affecting safe operation of the vehicle** **Danger to health of persons on board.**	**X**	**X**	**X**
		(g) System or components not operating, or implausible operation: **- audio components (for example failing echo-test).**		**X**	
		(h) Other failure (for example mobile network communication device, electronic control unit, or GPS signal failure) **Not affecting the safe operation** **Affecting safe operation of the vehicle**	**X**	**X**	

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		Danger to health of persons on board.			**X**

';

(xxxixb) in the table, the following item 7.14 is inserted:

7.14 – Vehicle's diagnostic link connector (OBD port) (if fitted)	**Method**	**Reason for failure**	**Minor**	**Major**	**Dangerous**
7.14.1 – Vehicle's diagnostic link connector (OBD port)	**Visual inspection complemented with use of electronic interface.**	**(a) Interface not accessible.**		**X**	
		(b) Obviously inoperative.		**X**	
		(c) System or component damaged.		**X**	
		(d) System or component missing.		**X**	

';

RSI – Commission proposal

Annex II item 8

(xxx) in the table, items 8.1 and 8.2 are replaced by the following:

(vv) '

8.1. Noise					
8.1.1. Noise suppression system (+E)	For L-category vehicles powered by internal combustion engines, visual inspection and measurement of noise emitted by stationary	(a) Noise levels in excess of those permitted in the requirements[1].		X	

	vehicle using a sound level meter. For other vehicles, subjective evaluation (unless the inspector considers that the noise level may be borderline, in which case a measurement of noise emitted by stationary vehicle using a sound level meter may be conducted).	(b) Any part of the noise suppression system loose, damaged, incorrectly fitted, missing or obviously modified in a way that would adversely affect the noise levels. Very serious risk of falling off.		X	X
	Measurement using remote sensing equipment	(c) Remote sensing measurement showing significant non-compliance.		X	

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8.2. Exhaust emissions

8.2.1. Exhaust emissions control equipment	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface (OBD or OBM read-out)	(a) Emission control equipment fitted by the manufacturer absent, modified or obviously defective.		X	
		(b) Leaks which would affect emission measurements.		X	
		(c) Warning device malfunctioning, warning indicator / tell-tale inoperative.		X	
		(d) MIL activated, warning device shows system malfunction.		X	
		(e) System indicates failure via the electronic vehicle interface.		X	
		(f) Exhaust emission control unit modified affecting safety and/or the environment.		X	
		(g) Any other emission relevant control unit modified affecting safety and/or the environment.		X	
		(h) Presence of electronic devices not authorised by the vehicle manufacturer nor approved during homologation changing signals to or from the engine or pollution control unit(s).		X	
		(i) Insufficient reagent, if applicable.		X	
		(j) OBD or OBM read-out indicating significant malfunction.		X	

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8.2.2 Exhaust emission measurement – positive ignition engines	Test procedures: For vehicles that had a particle number (PN) limit at type-approval; Euro VI, Euro 6c and newer: Particle number measurement in accordance with 8.2.2.1. For all vehicles: Gaseous emissions test in accordance with 8.2.2.2. For vehicles as of emission classes Euro VI, 6d-TEMP and newer: NO_x measurement in accordance with 8.2.2.3.				
8.2.2.1 Particle number measurement (E)	Vehicle preconditioning: — [to be specified in accordance with the delegated acts referred to in Article 21]. Measuring instrument preparation: — The device to measure PN is powered on for at least the warm-up time indicated by the manufacturer; — Self-checks of the instrument [to be specified in accordance with the delegated acts referred to in Article 21], to monitor the proper operation of the instrument during operation and trigger a warning or message in case of malfunction; Before each test, the good condition of the sampling system shall be verified, including	Measurement result exceeds [to be specified in accordance with the delegated acts referred to in Article 21] ($1/cm^3$).		X	

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	checking the sampling hose and probe for damage. Test procedure: — The software of the particle counter automatically guides the instrument operator through the test procedure; — The probe is inserted at least 0,20 m into the outlet of the exhaust system. In justified exemptions where sampling at this depth is not possible, the probe is inserted at least 0,05 m. The sampling probe shall not touch the walls of the tailpipe; — If the exhaust system has more than one outlet, the test shall be done to all of them. In this case, the highest measured PN concentration measured at different exhaust system outlets shall be considered as the vehicle's PN concentration; — The vehicle operates [as specified in accordance with the delegated acts referred to in Article 21]. In case the engine of a vehicle is not switched on at static conditions then the start/stop system shall be deactivated by the test operator. For hybrid and plug-in hybrid vehicles, the thermal engine shall be switched on; — After the probe has been inserted into the tailpipe, the following steps shall be followed: 1. A stabilization period of at least 15 seconds with the engine running at idle speed. 2. After the stabilisation period, the PN				

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	concentration emissions are measured. The duration of the test shall be at least [XX] seconds (total measurement duration) [to be specified in accordance with the delegated acts referred to in Article 21]. After the completion of the test procedure, the instrument reports (and stores) the PN concentration of the vehicle and a “PASS” or “FAIL” message: — If the test result is less than or equal to the limit, the instrument reports a “PASS” message. — If the test result is greater than the limit, the instrument reports a “FAIL” message.				
8.2.2.2. Gaseous emissions (E)	Measurement using an exhaust gas analyser in accordance with the requirements[1]. Measurements not applicable for two-stroke engines. Alternatively, measurement using remote sensing equipment and confirmed by standard test methods.	(a) Either gaseous emissions exceed the specific levels given by the manufacturer;		X	
		(b) Or, if this information is not available, the CO emissions exceed, (i) for vehicles not controlled by an advanced emission control system, — 4,5 %, or — 3,5 % according to the date of first registration or use specified in requirements[1]. (ii) for vehicles controlled by an advanced emission control system, — at engine idle: 0,5 % — at high idle: 0,3 % or — at engine idle: 0,3 % ([7]) — at high idle: 0,2 % or — at engine idle: 0,2 % ([8]) — at high idle: 0,1 % according to the date of first registration or use specified in requirements[1].		X	
		(c) Lambda coefficient outside the range 1 ± 0,03 or not in accordance with the manufacturer's specification;		X	

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8.2.2.3. NO_X measurement (E)	Vehicle preconditioning: [to be specified in accordance with the delegated acts referred to in Article 21]; - […] Measuring instrument preparation: — [to be specified in accordance with the delegated acts referred to in Article 21) or combined with PN measurement in accordance with 8.2.2.1]; — Self-checks of the instrument [to be specified in accordance with the delegated acts referred to in Article 21]; Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — [to be specified in accordance with the delegated acts referred to in Article 21 or combined with PN measurement in accordance with 8.2.2.1]; Alternatively, measurement using remote sensing equipment and confirmed by standard test methods in accordance with item 8.2.2. in this table or with item 8.2.2 in point 3 of Annex I to Directive 2014/45/EU.	(a) Measurement result exceeds [NO_X limit to be specified in accordance with the delegated acts referred to in Article 21].		X	
		(b) OBD or OBM read-out indicating significant malfunction.			

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8.2.3 Exhaust emission measurement – compression ignition engines	Test procedures: For vehicles as of emission classes Euro 5b and Euro VI and newer: Particle number (PN) measurement in accordance with 8.2.3.1 For vehicles up to emission classes Euro 5a and Euro V: Opacity measurement in accordance with 8.2.3.2. For vehicles equipped with particle filters, Member States may apply PN measurement in accordance with 8.2.3.1 instead of opacity measurement. For vehicles as of emission classes Euro 6d-TEMP and Euro VI and newer: NO_x measurement in accordance with 8.2.3.3.				
8.2.3.1 Particle number measurement	Vehicle preparation: At the beginning of the test the vehicle's engine should be: — Hot, i.e., engine coolant temperature above 60 °C but preferably above 70 °C — Conditioned, by operating for a period of time at low idling and/or performing stationary accelerations up to maximum 2 000 rpm engine speed or by driving. The recommended total conditioning time is at least 300 seconds. During the test, the vehicle shall not be performing an active particulate filter regeneration. A fast pass test is possible with engine coolant temperature below 60 °C. However, if the vehicle fails to pass the test, the test shall be repeated, and the vehicle	Measurement result exceeds 250 000 ($1/cm^3$) For vehicles up to emission class Euro 5a and Euro V, equipped with particle filters, Member States may apply a limit up to 1 000 000 ($1/cm^3$)		X	

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	should fulfil the requirements set for the engine coolant temperature and the conditioning. Measuring instrument (as specified in Sections 3, 4, and 5 of Commission Recommendation (EU) 2023/688, as adopted on 20 March 2023) preparation: — The instrument is powered on for at least the warm-up time indicated by the manufacturer; — Self-checks of the instrument as defined in Section 5 of Commission Recommendation (EU) 2023/688, as adopted on 20 March 2023, to monitor the proper operation of the instrument during operation and trigger a warning or message in case of malfunction; Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — The software of the particle counter automatically guides the instrument operator through the test procedure; — The probe is inserted at least 0,20 m into the outlet of the exhaust system. In justified exemptions where sampling at this depth is not possible, the probe is inserted at least 0,05 m. The sampling probe shall not touch the walls of the tailpipe; — If the exhaust system has more than one outlet, the test shall be done to all of them. In this case, the highest measured PN concentration measured at different exhaust system outlets shall be considered as the vehicle's PN concentration; — The vehicle operates at low idling. In case the engine of a vehicle is not switched on at static conditions then the				

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	start/stop system shall be deactivated by the test operator. For hybrid and plug-in hybrid vehicles, the thermal engine shall be switched on; — After the probe has been inserted into the tailpipe, the following steps shall be followed: 1. A stabilization period of at least 15 seconds with the engine running at idle speed. Optionally, before the stabilization period 2-3 accelerations up to maximum 2 000 rpm engine speed are performed, 2. After the stabilisation period, the PN concentration emissions are measured. The duration of the test shall be at least 15 seconds (total measurement duration). The test result shall be the average PN concentration of the measurement duration. If the measured PN concentration is more than two times the limit, the measurement may stop immediately before waiting for 15 seconds to elapse. The test result shall be reported. After the completion of the test procedure, the instrument reports (and stores) the average PN concentration of the vehicle and a “PASS” or “FAIL” message: — If the test result is less than or equal to the limit, the instrument reports a “PASS” message. — If the test result is greater than the limit, the instrument reports a “FAIL” message.				
8.2.3.2. Opacity Vehicles registered or put into service before 1 January 1980 are exempted from this requirement	Exhaust gas opacity to be measured during free acceleration (no load from idle up to cut-off speed) with gear lever in neutral and clutch engaged and, if specified in accordance with the type-approval regulations, reading of OBD in accordance with the manufacturer's recommendations and other requirements. Vehicle preconditioning:	(a) For vehicles registered or put into service for the first time after the date specified in requirements[1]. opacity exceeds the level recorded on the manufacturer's plate on the vehicle;		X	

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1. Vehicles may be tested without preconditioning, although for safety reasons checks should be made that the engine is warm and in a satisfactory mechanical condition.		

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	2. Precondition requirements: (i) Engine shall be fully warm, for instance the engine oil temperature measured by a probe in the oil level dipstick tube to be at least 80 °C, or normal operating temperature if lower, or the engine block temperature measured by the level of infrared radiation to be at least an equivalent temperature. If, owing to the vehicle configuration, this measurement is impractical, the establishment of the engine's normal operating temperature may be made by other means, for example by the operation of the engine cooling fan. (ii) Exhaust system shall be purged by at least three free acceleration cycles or by an equivalent method. Test procedure: Engine and any turbocharger fitted, to be at idle before the start of each free acceleration cycle. For heavy-duty diesels, this means waiting for at least 10 seconds after the release of the throttle. To initiate each free acceleration cycle, the throttle pedal must be fully depressed quickly and continuously (in less than one second) but not violently, so as to obtain maximum delivery from the injection pump.	(b) Where this information is not available or requirements[1] do not allow the use of reference values, — for naturally aspirated engines: 2,5 m^{-1}, — for turbo-charged engines: 3,0 m^{-1}, or — for vehicles identified in requirements[1] or first registered or put into service for the first time after the date specified in requirements[1]: 1,5 m^{-1} ([9]) or 0,7 m^{-1} ([8])			

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	During each free acceleration cycle, the engine shall reach cut-off speed or, the speed specified by the manufacturer or, if this data is not available, then two thirds of the cut-off speed, before the throttle is released. This could be checked, for instance, by monitoring engine speed or by allowing a sufficient time to elapse between initial throttle depression and release, which in the case of vehicles of categories M_2, M_3, N_2 and N_3, should be at least two seconds. Vehicles shall only be failed if the arithmetic means of at least the last three free acceleration cycles are in excess of the limit value. This may be calculated by ignoring any measurement that departs significantly from the measured mean, or the result of any other statistical calculation that takes account of the scattering of the measurements. Member States may limit the number of test cycles. To avoid unnecessary testing, Member States may fail vehicles which have measured values significantly in excess of the limit values after fewer than three free acceleration cycles or after the purging cycles. Equally to avoid unnecessary testing, Member States may pass vehicles which have measured values significantly below the limits after fewer than three free acceleration cycles or after the purging cycles. Alternatively, measurement usingremote sensing equipment and confirmed by standard test methods in accordance with item 8.2.3 of this table or with item 8.2.3 in point 3 of Annex I to Directive 2014/45/EU.				

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Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
8.2.3.3. NO_X measurement (E)	Vehicle preparation: Prior to testing, the vehicle's exhaust aftertreatment system shall be warmed up, to the conditions that allow effective abatement of NO_X emissions by the selective catalytic reduction (SCR) unit of the vehicle by at least a 5-minute drive or an equivalent method. Once the condition is reached, the vehicle shall not be turned off and the measurement shall be performed within 3 minutes for M_1 and N_1 vehicles and within 3.5 minutes for M_2, M_3, N_2 and N_3 vehicles. Where possible, the vehicle's readiness to be tested shall be ascertained by checking the indicator lamp on the dashboard or via the vehicle interface (OBD or OBM read-out).	Measurement result exceeds 40 ppm		X	

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	During the test, the vehicle shall not be performing an active particulate filter regeneration. Measuring instrument preparation: — The device to measure NO_X emissions is powered on for at least the warm-up time indicated by the manufacturer; — Self-checks of the instrument [to be specified in accordance with the delegated acts referred to in Article 17] to monitor the proper operation of the instrument during operation and trigger a warning or message in case of malfunction; Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — The software of the NO_X analyser automatically guides the instrument operator through the test procedure; — The probe is inserted at least 0,20 m into the outlet of the exhaust system. In justified exemptions where sampling at this depth is not possible, the probe is inserted at least 0,05 m. The sampling probe shall not touch the walls of the tailpipe; — If the exhaust system has more than one outlet, the test shall be done to all of them. In this case, the highest measured NO_X concentration measured at different exhaust system outlets shall be considered as the vehicle's NO_X concentration; — The vehicle operates at low idling; — After the probe has been inserted into the tailpipe, the following steps shall be followed:				

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	1. A stabilization period of at least 15 seconds with the engine running at idle speed. 2. After the stabilisation period, the NO_x concentration emissions are measured. The duration of the test shall be at least 15 seconds (total measurement duration). The test result shall be the average NO_x concentration of the measurement duration. After the completion of the test procedure, the instrument reports (and stores) the average NO_x concentration of the vehicle and a “PASS” or “FAIL” message: — If the test result is less than or equal to the limit, the instrument reports a “PASS” message. — If the test result is greater than the limit, the instrument reports a “FAIL” message. Alternatively, measurement usingremote sensing equipment and confirmed by standard test methods in accordance with item 8.2.3 in this table or item 8.2.3 in point 3 of Annex I to Directive 2014/45/EU.				

(ww)’;

(xxxi) in the table, item 8.4.1, is replaced by the following:

(xx) ‘

8.4.1. Fluid leaks	Visual inspection	Any excessive fluid leak, other than water, likely to harm the environment or to pose a safety risk to other road users. Steady formation of drops that constitutes a very serious risk.		X 	 X

(yy) ’;

RSI – Parliament mandate

Annex II item 8

PUBLIC

(xxvi) in the table, item 8.1.1 is replaced by the following:					
Item	**Method**	**Reasons for failure**	**Assessment of deficiencies**		
			Minor	**Major**	**Dangerous**
8.1.1. Noise suppression system	~~For L-category vehicles powered by internal combustion engines, visual inspection and measurement of noise emitted by stationary vehicle using a sound level meter.~~ ~~For other vehicles,~~ Subjective evaluation (unless the inspector considers that the noise level may be borderline, in which case a measurement of noise emitted by stationary vehicle using a sound level meter may be conducted)	(a) Noise levels in excess of those permitted in the requirements1.		X	

		(b) Any part of the noise suppression system loose, damaged, incorrectly fitted, missing or obviously modified in a way that would adversely affect the noise levels.		X	
		(c) Very serious risk of falling off.			X

Amendment					
Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
8.2.2.3 Nox-measurement ***(X)***[2]	Vehicle preparation: Specified in accordance with the delegated acts referred to in Article 21; - […] Measuring instrument preparation: — [to be specified in accordance with the delegated acts referred to in Article	(Measurement result exceeds [NO_X limit to be specified in accordance with the delegated acts referred to in Article 21.		X	

	21 or combined with PN testing above]; — Self-checks of the instrument [to be specified in accordance with the delegated acts referred to in Article 21; Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — [to be specified in accordance with the delegated acts referred to in Article 21 or combined with PN testing above].				

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RSI – Council mandate

Annex II item 8

(xxx) in the table, items 8.1 and 8.2 are replaced by the following:

8.1. Noise

8.1.1. Noise suppression system (+E)	~~For L category vehicles powered by internal combustion engines, visual inspection and measurement of noise emitted by stationary vehicle using a sound level meter.~~	(a) Noise levels in excess of those permitted in the requirements[1].		X	

	~~For other vehicles, subjective~~**Subjective** evaluation (unless the inspector considers that the noise level may be borderline, in which case a measurement of noise emitted by stationary vehicle using a sound level meter may be conducted).	(b) Any part of the noise suppression system loose, damaged, incorrectly fitted, missing or obviously modified in a way that would adversely affect the noise levels. Very serious risk of falling off.		X	X
	~~Measurement~~**Alternatively, measurement** using remote sensing equipment **and confirmed by standard test methods**	(c) Remote sensing measurement showing significant non-compliance.		X	

8.2. Exhaust emissions

8.2.1. Exhaust emissions control equipment	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface (OBD or OBM read-out)	(a) Emission control equipment fitted by the manufacturer absent, modified or obviously defective.		X	
		(b) Leaks which would affect emission measurements.		X	
		(c) Warning device malfunctioning, warning indicator / tell-tale inoperative.		X	
		(d) MIL activated, warning device shows system malfunction.		X	
		(e) System indicates failure via the electronic vehicle interface.		X	
		(f) Exhaust emission control unit modified affecting safety and/or the environment.		X	
		(g) Any other emission relevant control unit modified affecting safety and/or the environment.		X	

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		(h) Presence of electronic devices not authorised by the vehicle manufacturer nor approved during homologation changing signals to or from the engine or pollution control unit(s).		X	
		(k) Insufficient reagent, if applicable.		X	
		(l) OBD or OBM read-out indicating significant malfunction.		X	

TABLE

Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
8.2.2 Exhaust emission measurement – positive ignition engines	Test procedures: For vehicles that had a particle number (PN) limit at type-approval; Euro VI, Euro 6c and newer **or for M1 and N1 registered for the first time after 31 August 2019 and M2, M3, N2 and N3 registered for the first time after 31 December 2013**: Particle number ~~(PN)~~ measurement in accordance with 8.2.2.1. For all vehicles: Gaseous emissions test in accordance with 8.2.2.2. For vehicles ~~as of emission classes Euro VI, Euro 6d-TEMP and newer~~**specified in accordance with implementing acts** : NO_X measurement in accordance with 8.2.2.3.				
8.2.2.1 Particle number measurement (E)	Vehicle ~~preconditioning~~ **preparation**: — [to be specified in accordance with ~~the delegated~~ **implementing** acts ~~referred to in Article 21].~~**]** Measuring instrument preparation: — The device to measure PN is powered on for at least the warm-up time indicated by the manufacturer; — Self-checks of the instrument [to be specified in accordance with ~~the delegated acts referred to in Article 21~~**implementing acts**], to monitor the proper operation of the instrument during operation and trigger a warning or message in case of malfunction;	Measurement result exceeds ~~[~~**the limit values** to be specified in accordance with ~~the delegated~~ **implementing** acts ~~referred to in Article 21] (1/cm[a]).~~ **.**		X	

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	Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — The software of the particle counter automatically guides the instrument operator through the test procedure; — The probe is inserted at least 0,20 m into the outlet of the exhaust system. In justified exemptions where sampling at this depth is not possible, the probe is inserted at least 0,05 m. The sampling probe shall not touch the walls of the tailpipe; — If the exhaust system has more than one outlet, the test shall be done to all of them. In this case, the highest measured PN concentration measured at different exhaust system outlets shall be considered as the vehicle's PN concentration; — The vehicle operates [as specified in accordance with ~~the delegated~~ **implementing** acts ~~referred to in Article 21~~]. In case the engine of a vehicle is not switched on at static conditions then the start/stop system shall be deactivated by the test operator. For hybrid and plug-in hybrid vehicles, the thermal engine shall be switched on; ~~— After the probe has been inserted into the tailpipe, the following steps shall be followed:~~ ~~3. A stabilization period of at least 15 seconds with the engine running at idle speed.~~ ~~4. After the stabilisation period, the PN concentration emissions are measured. The duration of the test shall be at least [XX] seconds (total measurement duration) [to be specified in accordance with the delegated acts referred to in Article 21].~~ After the completion of the test procedure, the instrument reports (and stores) the PN concentration of the vehicle and a "PASS" or "FAIL" message:				

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	— If the test result is less than or equal to the limit, the instrument reports a “PASS” message. — If the test result is greater than the limit, the instrument reports a “FAIL” message.				
8.2.2.2. Gaseous emissions (E)	Measurement using an exhaust gas analyser in accordance with the requirements[1]. Measurements not applicable for two-stroke engines. Alternatively, measurement using remote sensing equipment and confirmed by standard test methods.	(a) Either gaseous emissions exceed the specific levels given by the manufacturer;		X	
		(b) Or, if this information is not available, the CO emissions exceed, (i) for vehicles not controlled by an advanced emission control system, — 4,5 %, or — 3,5 % according to the date of first registration or use specified in requirements[1]. (ii) for vehicles controlled by an advanced emission control system, — at engine idle: 0,5 % — at high idle: 0,3 % or — at engine idle: 0,3 % ([7]) — at high idle: 0,2 % or — at engine idle: 0,2 % ([8]) — at high idle: 0,1 % according to the date of first registration or use specified in requirements[1].		X	
		(c) Lambda coefficient outside the range 1 ± 0,03 or not in accordance with the manufacturer's specification.		X	

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8.2.2.3. NO_X measurement (E)	**Vehicle preparation, measuring instrument preparation, check of the sampling system and test procedure to be further specified by way of implementing act reflecting the testing environment of positive ignition engine and taking into account existing methods of measuring gaseous emissions.** ~~Vehicle preconditioning:~~ ~~[to be specified in accordance with the delegated acts referred to in Article 21];~~ ~~—[…]~~ ~~Measuring instrument preparation:~~ ~~— [to be specified in accordance with the delegated acts referred to in Article 21) or combined with PN measurement in accordance with 8.2.2.1];~~ ~~— Self-checks of the instrument [to be specified in accordance with the delegated acts referred to in Article 21];~~ ~~Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage.~~ ~~Test procedure:~~ ~~— [to be specified in accordance with the delegated acts referred to in Article 21 or combined with PN measurement in accordance with 8.2.2.1];~~ Alternatively, measurement using remote sensing equipment and confirmed by standard test methods in accordance with item 8.2.2. in this table or with item 8.2.2 in point 3 of Annex I to Directive 2014/45/EU.	(a) Measurement result exceeds [NO_X limit to be specified in accordance with the delegated acts referred to in Article 21]. **the limit to be specified in accordance with implementing acts**.		X	
		(b) OBD or OBM read-out indicating significant malfunction.		X	

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Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
8.2.3 Exhaust emission measurement – compression ignition engines	Test procedures: For vehicles as of emission classes Euro 5b and Euro VI and newer **or for M1 and N1 registered for the first time after 31 December 2012 and M2, M3, N2 and N3 registered for the first time after 31 December 2013**: Particle number (PN) measurement in accordance with 8.2.3.1 For vehicles up to emission classes Euro 5a and Euro V: Opacity measurement in accordance with 8.2.3.2. For vehicles equipped with particle filters, **or for M1 registered for the first time after 2 July 2007 and N1 registered for the first time after 31 August 2010 and M2, M3, N2 and N3 registered for the first time after 30 September 2008,** Member States may apply PN measurement in accordance with 8.2.3.1 instead of opacity measurement. For vehicles ~~as of emission classes Euro 6d-TEMP and Euro VI and newer:~~**specified in accordance with implementing acts** NO_x measurement in accordance with 8.2.3.3.				
8.2.3.1 Particle number measurement (E)	Vehicle preparation: At the beginning of the test the vehicle's engine should be:	Measurement result exceeds 250 000 ($1/cm^3$).		X	

PUBLIC

	— Hot, i.e., engine coolant temperature above 60 °C but preferably above 70 °C — Conditioned, by operating for a period of time at low idling and/or performing stationary accelerations up to maximum 2 000 rpm engine speed or by driving. The recommended total conditioning time is at least 300 seconds. During the test, the vehicle shall not be performing an active particulate filter regeneration. A fast pass test is possible with engine coolant temperature below 60 °C. However, if the vehicle fails to pass the test, the test shall be repeated, and the vehicle should fulfil the requirements set for the engine coolant temperature and the conditioning. Measuring instrument (as specified in Sections 3, 4, and 5 of Commission Recommendation (EU) 2023/688, as adopted on 20 March 2023) preparation: — The instrument is powered on for at least the warm-up time indicated by the manufacturer; — Self-checks of the instrument as defined in Section 5 of Commission Recommendation (EU) 2023/688, as adopted on 20 March 2023, to monitor the proper operation of the instrument during operation and trigger a warning or message in case of malfunction; Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — The software of the particle counter automatically guides the instrument operator through the test procedure; — The probe is inserted at least 0,20 m into the outlet of the exhaust system. In justified exemptions where sampling at this depth is not possible, the probe is inserted at least 0,05 m. The sampling probe shall not touch the walls of the tailpipe;	For vehicles up to emission class Euro 5a and Euro V, equipped with particle filters, Member States may apply a limit up to 1 000 000 (1/cm^3).			

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	— If the exhaust system has more than one outlet, the test shall be done to all of them. In this case, the highest measured PN concentration measured at different exhaust system outlets shall be considered as the vehicle's PN concentration; — The vehicle operates at low idling. In case the engine of a vehicle is not switched on at static conditions then the start/stop system shall be deactivated by the test operator. For hybrid and plug-in hybrid vehicles, the thermal engine shall be switched on; — After the probe has been inserted into the tailpipe, the following steps shall be followed: 3. A stabilization period of at least 15 seconds with the engine running at idle speed. Optionally, before the stabilization period 2-3 accelerations up to maximum 2 000 rpm engine speed are performed, 4. After the stabilisation period, the PN concentration emissions are measured. The duration of the test shall be at least 15 seconds (total measurement duration). The test result shall be the average PN concentration of the measurement duration. If the measured PN concentration is more than two times the limit, the measurement may stop immediately before waiting for 15 seconds to elapse. The test result shall be reported. After the completion of the test procedure, the instrument reports (and stores) the average PN concentration of the vehicle and a "PASS" or "FAIL" message: — If the test result is less than or equal to the limit, the instrument reports a "PASS" message. — If the test result is greater than the limit, the instrument reports a "FAIL" message.				

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8.2.3.2. Opacity Vehicles registered or put into service before 1 January 1980 are exempted from this requirement	Exhaust gas opacity to be measured during free acceleration (no load from idle up to cut-off speed) with gear lever in neutral and clutch engaged and, if specified in accordance with the type-approval regulations, reading of OBD in accordance with the manufacturer's recommendations and other requirements. Vehicle preconditioning: 1. Vehicles may be tested without preconditioning, although for safety reasons checks should be made that the engine is warm and in a satisfactory mechanical condition.	(a) For vehicles registered or put into service for the first time after the date specified in requirements[1]: opacity exceeds the level recorded on the manufacturer's plate on the vehicle.		X	

PUBLIC

Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
	2. Precondition requirements: (i) Engine shall be fully warm, for instance the engine oil temperature measured by a probe in the oil level dipstick tube to be at least 80 °C, or normal operating temperature if lower, or the engine block temperature measured by the level of infrared radiation to be at least an equivalent temperature. If, owing to the vehicle configuration, this measurement is impractical, the establishment of the engine's normal operating temperature may be made by other means, for example by the operation of the engine cooling fan. (ii) Exhaust system shall be purged by at least three free acceleration cycles or by an equivalent method.	(b) Where this information is not available or requirements[1] do not allow the use of reference values, — for naturally aspirated engines: 2,5 m^{-1}, — for turbo-charged engines: 3,0 m^{-1}, or — for vehicles identified in requirements[1] or first registered or put into service for the first time after the date specified in requirements[1]: 1,5 m^{-1} ([9]) or 0,7 m^{-1} ([8]).			
	Test procedure: Engine and any turbocharger fitted, to be at idle before the start of each free acceleration cycle. For heavy-duty diesels, this means waiting for at least 10 seconds after the release of the throttle. To initiate each free acceleration cycle, the throttle pedal must be fully depressed quickly and continuously (in less than one second) but not violently, so as to obtain maximum delivery from the injection pump.				

Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous

PUBLIC

	During each free acceleration cycle, the engine shall reach cut-off speed or, the speed specified by the manufacturer or, if this data is not available, then two thirds of the cut-off speed, before the throttle is released. This could be checked, for instance, by monitoring engine speed or by allowing a sufficient time to elapse between initial throttle depression and release, which in the case of vehicles of categories M_2, M_3, N_2 and N_3, should be at least two seconds. Vehicles shall only be failed if the arithmetic means of at least the last three free acceleration cycles are in excess of the limit value. This may be calculated by ignoring any measurement that departs significantly from the measured mean, or the result of any other statistical calculation that takes account of the scattering of the measurements. Member States may limit the number of test cycles. To avoid unnecessary testing, Member States may fail vehicles which have measured values significantly in excess of the limit values after fewer than three free acceleration cycles or after the purging cycles. Equally to avoid unnecessary testing, Member States may pass vehicles which have measured values significantly below the limits after fewer than three free acceleration cycles or after the purging cycles. Alternatively, measurement using remote sensing equipment and confirmed by standard test methods in accordance with item 8.2.3 of this table or with item 8.2.3 in point 3 of Annex I to Directive 2014/45/EU.				

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Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
8.2.3.3. NO_X measurement (E)	Vehicle preparation: **For conditions below -10ºC: Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface.** **When the outside temperature is -10◦C or above:** Prior to testing, the vehicle's exhaust aftertreatment system shall be warmed up, to the conditions that allow effective abatement of **NOx emissions by the NOx reduction system of the vehicle. The conditioning of the NOx reduction system shall be further specified by implementing acts.** ~~NO_x emissions by the selective catalytic reduction (SCR) unit of the vehicle by at least a 5-minute drive or an equivalent method. Once the condition is reached, the vehicle shall not be turned off and the measurement shall be performed within 3 minutes for M_1 and N_1 vehicles and within 3.5 minutes for M_2, M_3, N_2 and N_3 vehicles. Where possible, the vehicle's readiness to be tested shall be ascertained by checking the indicator lamp on the dashboard or via the vehicle interface (OBD or OBM read-out).~~	Measurement result exceeds 40 ppm **or** **the electronic interface indicates malfunction.**		X	

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	During the test, the vehicle shall not be performing an active particulate filter regeneration. Measuring instrument preparation: — The device to measure NO_x emissions is powered on for at least the warm-up time indicated by the manufacturer; — Self-checks of the instrument ~~[~~to be specified in accordance with ~~the delegated~~**implementing** acts ~~referred to in Article 17]~~ to monitor the proper operation of the instrument during operation and trigger a warning or message in case of malfunction; Before each test, the good condition of the sampling system shall be verified, including checking the sampling hose and probe for damage. Test procedure: — The software of the NO_x analyser automatically guides the instrument operator through the test procedure; — The probe is inserted at least 0,20 m into the outlet of the exhaust system. In justified exemptions where sampling at this depth is not possible, the probe is inserted at least 0,05 m. The sampling probe shall not touch the walls of the tailpipe; — If the exhaust system has more than one outlet, the test shall be done to all of them. In this case, the highest measured NO_x concentration measured at different exhaust system outlets shall be considered as the vehicle's NO_x concentration; — The vehicle operates at low idling;				

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	— After the probe has been inserted into the tailpipe, the following steps shall be followed: A stabilization period of at least 15 seconds with the engine running at idle speed. After the stabilisation period, the NO_X concentration emissions are measured. The duration of the test shall be at least 15 seconds (total measurement duration). The test result shall be the average NO_X concentration of the measurement duration. After the completion of the test procedure, the instrument reports (and stores) the average NO_X concentration of the vehicle and a “PASS” or “FAIL” message: — If the test result is less than or equal to the limit, the instrument reports a “PASS” message. — If the test result is greater than the limit, the instrument reports a “FAIL” message.				

PUBLIC

(xxxi) in the table, item 8.4.1, is replaced by the following:

8.4.1. Fluid leaks	Visual inspection	Any excessive fluid leak, other than water, likely to harm the environment or to pose a safety risk to other road users. Steady formation of drops that constitutes a very serious risk.		X	 X

’;

RSI – Commission proposal

Annex II item 9

[NO CHANGES]

RSI –Parliament mandate

Annex II item 9

The following item 9.12a should be inserted in Annex I of Directive 2014/47/EU:					
Item	**Method**	**Reasons for failure**	**Assessment of deficiencies**		
			Minor	**Major**	**Dangerous**
9.12a (new). Fire suppression system (if fitted, in accordance with EU type approval legislation)	***Visual inspection and/or using electronic interface***	***(a) Missing, activated.***		***X***	
		(b) System indicates failure via the electronic vehicle interface.		***X***	
		(c) Not in accordance with requirements1		***X***	
		(d) Detection agent vessel, propellant gas vessel, extinguishing agent vessel pressureless, empty.		***X***	

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		(e) Vessel inspection and exchange period(s) expired.		X	

RSI – Council mandate

Annex II item 9

(xxxia) in the table, item 9.11.1 is replaced by the following:

‘

9.11.1. Doors, ramps, lifts, and kneeling-system if fitted in accordance with UNECE R107	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing.		X	
		(b) System or components damaged.		X	
		(c) Software version or -integrity incorrect.		X	
		(d) Wiring damaged.		X	
		(e) Warning device(s) shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board.	X	X	X
		(g) System or components not operating, where applicable, or implausible operation.		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle	X	X	

PUBLIC

		Danger to health of persons on board.			**X**
		(i) Not in accordance with the requirements[1].		**X**	

‘

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(xxxib) in the table, the following item 9.13 is added:

‘

9.13. Alarm and fire suppression system	Method	Reason for failure	Minor	Major	Dangerous
9.13.1. Alarm system (if fitted, in accordance with EU type approval legislation)	Visual inspection and by operation (where appropriate) and/or using electronic interface	(a) Not operational at all, not working properly.		X	
		(b) System indicates failure via the electronic interface.		X	
		(c) Missing		X	
		(d) Not in accordance with requirements[1]		X	
9.13.2. Fire suppression system (if fitted, in accordance with EU type approval legislation)	Visual inspection and/or using electronic interface	(a) Missing, activated.		X	
		(b) System indicates failure via the electronic vehicle interface.		X	
		(c) Not in accordance with requirements[1]		X	
		(d) Detection agent vessel, propellant gas vessel, extinguishing agent vessel pressureless, empty.		X	
		(e) Vessel inspection and exchange period(s) expired.		X	

’;

RSI – Commission proposal

Annex II item 10

(xxxii in the table, the following item 10 is added:

(zz) ‘

10. ELECTRONIC SAFETY SYSTEMS					
10.1. Cornering light Description: during cornering, an extra headlamp is activated. Operates up to 40 km/h, for example in accordance with UNECE-R 48 or UNECE-R 119.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.2 Adaptive cruise control Description: The system maintains the vehicle's speed, depending on the preferred speed and distance to the vehicle in front.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged, or sensors obviously misaligned		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.3 Adaptive deflectors Description: Depending on the vehicle's speed, the air deflectors are adjusted in order to improve driving stability.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

PUBLIC

		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.4 Airbag Description: In case of an accident, inflatable airbags reduce the risk of injury by their absorbing effect, for example in accordance with UNECE-R 12; UNECE-R 14; or UNECE-R 16.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or components (for example seat occupancy detection) obviously missing.		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	X	X
		(g) System or components obviously not operating (for example not suitable with the vehicle)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	X	X
10.5 Active Headrest Description: the system reduces the danger of a whiplash injury in	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	

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the event of a rear end collision by changing the position of the headrest towards the head.	the necessary data is made available, with the use of electronic interface	(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X	 X
		(g) System or components not operating, where applicable, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X	 X
10.6 Active hood Description: by automatically lifting the bonnet, the system ensures a larger collapsible zone in the event of an accident involving a pedestrian.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating (for example outdated), where applicable, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.7 Automatic hold function Description: the system independently holds the vehicle after stopping using the service brake and/or parking brake and automatically releases them when starting.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.8 Automatic headlamp levelling Description: depending on the load and (optional) pitch angle, the system regulates the headlamp's vertical aim, for example in accordance with UNECE-R 121.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.9 Automatic emergency braking system Description: the system independently starts braking in	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged, or sensors obviously misaligned		X	

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order to avoid a collision with an obstacle or another road user, or to reduce the consequences of an inevitable impact.	the necessary data is made available, with the use of electronic interface	(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operative (for example audio components)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.10 Anti-lock braking system Description: the system automatically prevents wheel-locking during braking by selective reduction of the wheel brake force, for example in accordance with UNECE-R 13 and Regulation (EU) 2019/2144.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components (for example wheel speed sensor) damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.11 Automatic light Description: depending on the ambient brightness, the system automatically switches on and off the driving light.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.12 Electro-mechanic power steering Description: the supporting power for steering is generated by an electric motor.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating (for example Power assistance not working), or implausible operation (for example inconsistency between the angle of the steering wheel and the angle of the wheels.) Steering affected		X	X
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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10.13 Electronic four-wheel steering Description: two axles are steered, with a steering angle greater than 3° on all steered wheels, for example in accordance with UNECE-R 79 and Regulation (EU) 2019/2144.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.14 Electronic damping Description: depending on the driving situation, the rebound and compression stage of the shock absorbers is adjusted by the system.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.15 Electronic brake system Description: a brake pedal sensor and/or pressure sensor records the braking request and calculates the optimal brake force for each wheel, so that there is optimal activation of all wheel brakes.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface, or by road test.	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.16 Electronic stability program Description: the system stabilizes the vehicle or the complete vehicle train in critical, dynamic driving situations, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 140.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component (for example wheel speed sensors) missing		X	
		(b) System or components (for example wheel speed sensors) damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.17 High beam assist Description: the system automatically activates and	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	

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deactivates the high beam according to the driving situation and lighting conditions.	the necessary data is made available, with the use of electronic interface	(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.18 Speed limiter Description: While driving, the system prevents exceeding a defined maximum speed. Relevant, if mandatory, for example in accordance with UNECE-R 89 and Regulation (EU) 2019/2144.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing (for example seals, plaques), or not fitted in accordance with the requirements.		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation (for example tampered or manipulated, or size of tyres not compatible with calibration parameters, or incorrect set speed, if checked).		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.19 Belt tensioner and belt force limiter Description: In the event of an accident, the seat belt is tensioned to place the passengers in a setpoint position and/or limits the belt force, electrically controlled and, thus, limits the forces acting on the persons for example in accordance with UNECE-R 16 or UNECE-R 94.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing, or not suitable with the vehicle		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X	 X

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		(g) System or components not operating, where applicable, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X	 X
10.20 Taillight switching Description: Depending on operating status and/or failure of the illuminants, lighting functions are taken over by other luminaires.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(a) System or any component missing		X	

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10.21 Bending light Description: during cornering and depending on the steering angle and speed, the light beam is swivelled and/or an additional headlight is activated, for example in accordance with UNECE-R 48; UNECE-R 98; UNECE-R 112; or UNECE-R 123.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.22 Steering assist Description: depending on the driving situation, the steering angle is automatically changed, without intervention by the driver. Relevant if the steering intervention occurs at a speed of	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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more than 15 km/h, for example in accordance with UNECE-R 79.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operative (for example audio components)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.23 Height levelling Description: the system changes the clearance between vehicle chassis and the road.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.24 Emergency braking signal Description: during strong deceleration, hazard warning lights and/or additional luminous surfaces are activated and/or the following traffic is warned by flashing brake lights, for example in accordance with UNECE-R 48 or UNECE-R 13.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(f) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.25 Pre-crash system Description: in a critical driving situation, the vehicle is prepared for the crash so that the risk of	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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injury to the passengers and/or other road users is reduced.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation (for example power windows)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.26 Tyre pressure warning Description: the system detects loss of tyre pressure through integrated sensors and/or by implausible values for wheel speed, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 141.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X

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		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.27 Traction control Description: the system prevents the drive wheels spinning during acceleration by applying brake force.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(a) System or any component missing		X	

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10.28 Superimposed steering Description: depending on the driving situation, the system varies the transmission ratio of the steering.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating (for example power assistance not working), or implausible operation (for example inconsistency between the angle of the steering wheel and the angle of the wheels.) Steering affected		X	 X
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.29 Roll over protection (active) Description: in the event of an imminent rollover, support elements are extended to secure the survival space, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 21.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.30 Hydrogen installation Description: the hydrogen is stored in the vehicle and is used to propel the vehicle, either by combustion in an internal combustion engine or by conversion in a fuel cell with an additional electric engine.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.31 Start-up aid Description: aiding start-up, for example by raising the lift axle or by momentarily applying brake pressure or by automatic release of the parking brake.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.32 Trailer stabilization Description: through selective braking of the trailer by the	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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service brakes, the complete vehicle train is stabilised.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.33 Endurance brake Description: an additional braking system that can maintain braking over a period of time without a significant reduction in performance, for example in accordance with UNECE-R 13 and Regulation (EU) 2019/2144.	Visual inspection (with command activated and not activated, if possible) complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing (for example Insecure connectors or mountings)		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X

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		(g) System or components not operating, or implausible operation		X	
		(j) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.34 Differential lock deactivation Description: when this system is activated, the differential locks are unlocked depending on parameters (for example wheel slip, steering angle, speed).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation Steering affected		X	 X

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.35 Electronically controlled leading and trailing axle Description: the steered axles are additional axles with electronically controlled steering. The steering force is generated by a hydraulic pump or by the lateral force on the wheels.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation Steering affected		X	X
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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10.36 Electronic steering damper Description: Steering damping is controlled electronically.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface	X		
		Not affecting the safe operation		X	
		Affecting safe operation of the vehicle			X
		Danger to health of persons on board or of other road users			
		(g) System or components not operating, or implausible operation		X	
		Steering affected			X
		(h) Other failure			
		Not affecting the safe operation	X		
		Affecting safe operation of the vehicle		X	
		Danger to health of persons on board or of other road users			X
10.37 Bus stop brake Description: the system ensures the application of brake pressure when stationary, independent of the brake pedal activation. Buses	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	

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can only start moving when the doors are closed.		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.38 Kneeling Description: the system allows a road vehicle to be lowered to make it easier for passengers to board and disembark.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.39 Steering brake Description: during cornering, dosed braking is applied to one or more wheels.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation Steering affected		X	X
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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10.40 Tyre pressure control Description: according to the requirement of the driver, the system regulates the tyre pressure.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.41 Sliding joint stabilisation Description: The articulated joint is stabilised by damping, depending on vehicle speed, cylinder pressure of the articulated dampers, steering and articulation-angle.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.42 Four-wheel parking brake Description: the system applies the maximum brake pressure in the wheel cylinders at all four wheels.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.43 Front-wheel locking device Description: front wheel suspension, which permits lateral inclination of the motorcycle, can be locked and unlocked by an electric actuator. Above a certain speed, it is automatically unlocked.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.44 Adaptive headlights Description: the illumination of the surrounding road area and/or the direct illumination of road users in the danger area in front	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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of the vehicle is optimised by dynamic adaption of the light beams.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.45 Electrically actuated parking brake Description: the parking brake function is triggered or transmitted electronically or electromechanically.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X

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		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.46 Lane change assistance Description: at a lane change, the system warns the driver about vehicles in the next lane and steers the vehicle back.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(a) System or any component missing		X	

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10.47 Lane keeping assistance Description: the system warns the driver when the vehicle is unintentionally leaving its lane and steers the vehicle back, e.g. in accordance with Regulation (EU) 2019/2144 and Commission Implementing Regulation (EU) 2021/646*.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.48 Automatic eCall Description: the system is triggered automatically by in-vehicle sensors or manually, it transmits a minimum set of data (EN 15722) via mobile communication network and establishes an audio connection	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device (eCall MIL) shows system malfunction.		X	

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based on the (emergency) number between the vehicle passengers and the public safety answering point, in accordance with Regulation (EU) 2015/758 of the European Parliament and of the Council**, and Commission Delegated Regulation (EU) 2017/79***.	The verification of the minimum set of data (MSD) includes checking whether: - the mandatory fields are filled with plausible information; - the deviation between in-vehicle system (IVS) location and true location is less than 150 meters. The calculation can be done according to point 2.5 of Annex I of Commission Delegated Regulation (EU) 2017/79; - the deviation between the MSD timestamp and the timestamp of the reading is less than 60s.	(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X 	 X
		(g) System or components not operating, or implausible operation: - audio components (for example failing echo-test); - minimum set of data incorrect		X	
		(h) Other failure (for example mobile network communication device, electronic control unit, or GPS signal failure) Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X 	 X
10.49 Active roll stabilisation Description: via appropriate actuators the system produces a roll movement which counters the vehicle's body roll movement depending on the current driving situation.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X

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		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.50 Camera monitor Description: the system which generates at least a part of the indirect field of vision by a camera monitor combination (for example in accordance with UNECE-R 46).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(a) System or any component missing		X	

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10.51 Acoustic vehicle alerting Description: at low speed, the system generates an external, specific sound in order to warn, for example pedestrians.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operative, or not respecting type-approved noise levels		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.52 Basic exterior lights Description: the system switches on/switches off the basic lighting devices (for example indicators).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.53 Automated lane keeping system (ALKS) Description: a system which is activated by the driver, and which keeps the vehicle within its lane by controlling the lateral and longitudinal movements of the vehicle for extended periods without the need for further driver input (for example in accordance with UNECE-R 157).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.54 Turning assistant Description: a system to inform the driver of a possible collision with a traffic participant (for example bicycle) near side (for example in accordance with UNECE-R 151).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.55 Tachograph Description: a system to record the driving time, breaks, rest	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing (for example seals, plaques), or not fitted in accordance with the requirements (for example plaque out of date).		X	

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periods as well as periods of other work undertaken by a driver, for example, in accordance with Regulation (EU) No 165/2014 of the European Parliament and of the Council****.	the necessary data is made available, with the use of electronic interface	(b) System or components damaged (for example illegible plaque)		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation (for example tampered or manipulated, or size of tyres not compatible with calibration parameters, or incorrect set speed, if checked).		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.56 Intelligent speed assistance Description: system to aid the driver in maintaining the appropriate speed for the road environment by providing dedicated and appropriate feedback, for example in	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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accordance with Regulation (EU) 2019/2144 and Commission Delegated Regulation (EU) 2021/1958*****.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(g) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.57 Reversing detection Description: system to make the driver aware of people and objects at the rear of the vehicle with the primary aim of avoiding collisions when reversing, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 158.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.58 Driver drowsiness and attention warning Description: system that assesses the driver's alertness through vehicle systems analysis and warns the driver if needed, for example in accordance with Regulation (EU) 2019/2144 and Commission Delegated Regulation (EU) 2021/1341******.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
10.59 Advanced driver distraction warning Description: system that helps the driver to continue to pay attention to the traffic situation	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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and that warns the driver when he or she is distracted, for example in accordance with Regulation (EU) 2019/2144 and Commission Delegated Regulation (EU) 2023/2590*******.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.60 Event data recorder Description: system with the only purpose of recording and storing critical crash-related parameters and information shortly before, during and immediately after a collision, for example in accordance with Regulation (EU) 2019/2144, Commission Delegated Regulation (EU) 2022/545********, and UNECE-R 160.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation	X		
		(g) System or components not operating, or implausible operation (for example data not accessible)		X	

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		(h) Other failure Not affecting the safe operation	X		
10.61 Automated driving system Description: systems that are capable of performing the entire dynamic driving task of the fully automated vehicle on a sustained basis, for example in accordance with Regulation (EU) 2019/2144 and Commission Implementing Regulation (EU) 2022/1426*********.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation (for example HMI)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.62 Driver availability monitoring systems (automated driving) Description: System that assesses whether the driver is capable of taking over the driving function of a self-driving vehicle, if necessary, in certain situations,	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 157.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation (for example HMI)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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Annex II item 10

Amendment					
10.2 Adaptive cruise control ***(X)*** Description: The system maintains the vehicle's speed, depending on the preferred speed and distance to	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	

the vehicle in front					
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	***X***
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

Amendment
(xxxii. 10.3) in the table the item 10.3 [Adaptive deflectors] is deleted:
deleted

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(xxxii) in the table, item 10.9 is replaced by the following:

Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
10.9 Automatic emergency braking system Description: the system independently starts braking in order to avoid a collision with an obstacle or another road user, or to reduce the consequences of an inevitable impact***, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 131 or UNECE-R 152***.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged, or sensors obviously misaligned		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operative (for example audio components)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle	X	X	

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		Danger to health of persons on board or of other road users			X

Amendment					
The following item 10.19a should be inserted in Annex II of Directive 2014/47/EU:					
Item	***Method***	***Reasons for failure***	***Assessment of deficiencies***		
			Minor	**Major**	**Dangerous**
10.19a Belt reminder ***Description: System that warns the driver in the event a person seated in the front row does not wear their seat belt and/or a person seated in the rear row(s) unbuckles their belt while the vehicle is in motion, for example in accordance with UNECE-R 16.***	***Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface***	***(a) System or any component missing***	***X***		
		(b) System or components damaged	***X***		
		(c) Software version or -integrity incorrect	***X***		
		(d) Wiring damaged	***X***		
		(e) Warning device shows system malfunction.	***X***		
		(f) System indicates failure via the electronic vehicle interface	***X***		

Amendment
(xxxii. 10.20) in the table the item 10.20 [Taillight switching] is deleted:
deleted

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(xxxii) in the table, item 10.38 is replaced by the following:					
Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
10.38. Kneeling Description: the system allows a road vehicle to be lowered to make it easier for passengers to board and disembark***, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 107***.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X

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Amendment
(xxxii. 10.40) in the table the item 10.40 [Tyre pressure control] is deleted:
deleted

Amendment
(xxxii. 10.43) in the table the item 10.43 [Front wheel locking device] is deleted:
deleted

In the table, item 10.47 is replaced by the following:					
10.47. Lane keeping assistance Description: the system warns the driver when the vehicle is unintentionally leaving its lane and steers the vehicle back, e.g. in accordance with Regulation (EU) 2019/2144 Commission Implementing Regulation (EU) 2021/646*, ***and UNECE-R130.***	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged, ***or sensors obviously misaligned***		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X

(xxxii) in the table, item 10.54 is replaced by the following:					
Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
10.54. Blind Spot Information System Description: a system to inform the driver of a possible collision with a traffic participant (for example bicycle) ***in front or*** near side (for example in accordance with UNECE-R 151***, UNECE-R 159).***	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle	X	 X	

		Danger to health of persons on board or of other road users			X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X

(xxxii) in the table, item 10.56 is replaced by the following:

Item	**Method**	**Reasons for failure**	**Assessment of deficiencies**		
			Minor	**Major**	**Dangerous**
10.56 Intelligent speed assistance Description: system to aid the driver in maintaining the appropriate speed for the road environment by providing dedicated and appropriate feedback, for example in accordance with Regulation (EU) 2019/2144 and Commission	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(ca) Map data version outdated or incorrect, where applicable		***X***	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

Delegated Regulation (EU) 2021/1958*****.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

(xxxii) in the table, item 10.61 is replaced by the following:

Item	Method	Reasons for failure	Assessment of deficiencies		
			Minor	Major	Dangerous
10.61 Automated driving system Description: systems that are capable of performing the entire dynamic driving task of the	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

automated vehicle or fully automated vehicle on a sustained basis, for example in accordance with Regulation (EU) 2019/2144**,** Commission Implementing Regulation (EU) 2022/1426********* ***and UNECE-R 157***.		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation (for example HMI)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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Annex II item 10

(xxxii) in the table, the following item 10 is added:

(aaa) ‘

10. **ADAS AND OTHER SAFETY RELATED SYSTEMS**~~ELECTRONIC SAFETY SYSTEMS~~					
~~10.1. Cornering light Description: during cornering, an extra headlamp is activated. Operates up to 40 km/h, for example in accordance with UNECE-R 48 or UNECE-R 119.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
10. ~~2~~**1** Adaptive cruise control **(if fitted) (X)**[2] Description: The system maintains the vehicle's speed, depending on the preferred speed and distance to the vehicle in front.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged, or sensors obviously misaligned		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.3 Adaptive deflectors Description: Depending on the vehicle's speed, the air deflectors are adjusted in order to improve driving stability.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	 ~~X~~	 ~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-

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		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.4 Airbag~~ ~~Description: In case of an accident, inflatable airbags reduce the risk of injury by their absorbing effect, for example in accordance with UNECE-R 12; UNECE-R 14; or UNECE-R 16.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or components (for example seat occupancy detection) obviously missing.~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components obviously not operating (for example not suitable with the vehicle)~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board~~	~~X~~	~~X~~	~~X~~
10.~~2~~**5** Active Headrest **(if fitted) (X)**[2]	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	

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Description: the system reduces the danger of a whiplash injury in the event of a rear end collision by changing the position of the headrest towards the head.	the necessary data is made available, with the use of electronic interface	(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X	 X
		(g) System or components not operating, where applicable, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board	X	 X	 X
10.~~3~~**6** Active hood **(if fitted) (X)**[2] Description: by automatically lifting the bonnet, the system ensures a larger collapsible zone in the event of an accident involving a pedestrian.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
		(g) System or components not operating (for example outdated), where applicable, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
10.~~4~~**7** Automatic hold function **(if fitted) (X)**[2] Description: the system independently holds the vehicle after stopping using the service brake and/or parking brake and automatically releases them when starting.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
~~10.8 Automatic headlamp levelling~~ ~~Description: depending on the load and (optional) pitch angle, the system regulates the headlamp's vertical aim, for example in accordance with UNECE-R 121.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
10.~~5~~**9** Automatic emergency braking system **(if required in accordance to type approval or fitted)**	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged, or sensors obviously misaligned		X	

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Description: the system independently starts braking in order to avoid a collision with an obstacle or another road user, or to reduce the consequences of an inevitable impact.	the necessary data is made available, with the use of electronic interface	(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operative (for example audio components)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.10 Anti-lock braking system Description: the system automatically prevents wheel-locking during braking by selective reduction of the wheel brake force, for example in accordance with UNECE-R 13 and Regulation (EU) 2019/2144.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components (for example wheel speed sensor) damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-

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		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
~~10.11 Automatic light Description: depending on the ambient brightness, the system automatically switches on and off the driving light.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~

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		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.12 Electro-mechanic power steering~~ ~~Description: the supporting power for steering is generated by an electric motor.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating (for example Power assistance not working), or implausible operation (for example inconsistency between the angle of the steering wheel and the angle of the wheels.)~~ ~~Steering affected~~	~~-~~	~~X~~	~~X~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~

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10.13 Electronic four-wheel steering Description: two axles are steered, with a steering angle greater than 3° on all steered wheels, for example in accordance with UNECE-R 79 and Regulation (EU) 2019/2144.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing	-	X	-
		(b) System or components damaged	-	X	-
		(c) Software version or -integrity incorrect	-	X	-
		(d) Wiring damaged	-	X	-
		(e) Warning device shows system malfunction.	-	X	-
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
		(g) System or components not operating, or implausible operation	-	X	-
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
10.14 Electronic damping Description: depending on the driving situation, the rebound and compression stage of the shock absorbers is adjusted by the system.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing	-	X	-
		(b) System or components damaged	-	X	-
		(c) Software version or -integrity incorrect	-	X	-
		(d) Wiring damaged	-	X	-
		(e) Warning device shows system malfunction.	-	X	-

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		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
~~10.15 Electronic brake system Description: a brake pedal sensor and/or pressure sensor records the braking request and calculates the optimal brake force for each wheel, so that there is optimal activation of all wheel brakes.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface, or by road test.~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~

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		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~	~~X~~
~~10.16 Electronic stability program Description: the system stabilizes the vehicle or the complete vehicle train in critical, dynamic driving situations, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 140.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component (for example wheel speed sensors) missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components (for example wheel speed sensors) damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.17 High beam assist Description: the system automatically activates and~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~

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deactivates the high beam according to the driving situation and lighting conditions.	the necessary data is made available, with the use of electronic interface	(c) Software version or -integrity incorrect	-	X	-
		(d) Wiring damaged	-	X	-
		(e) Warning device shows system malfunction.	-	X	-
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
		(g) System or components not operating, or implausible operation	-	X	-
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X 	 X
10.18 Speed limiter Description: While driving, the system prevents exceeding a defined maximum speed. Relevant, if mandatory, for example in accordance with UNECE-R 89 and Regulation (EU) 2019/2144.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing (for example seals, plaques), or not fitted in accordance with the requirements.	-	X	-
		(b) System or components damaged	-	X	-
		(c) Software version or -integrity incorrect	-	X	-
		(d) Wiring damaged	-	X	-
		(e) Warning device shows system malfunction.	-	X	-

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		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation (for example tampered or manipulated, or size of tyres not compatible with calibration parameters, or incorrect set speed, if checked).~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.19 Belt tensioner and belt force limiter~~ ~~Description: In the event of an accident, the seat belt is tensioned to place the passengers in a setpoint position and/or limits the belt force, electrically controlled and, thus, limits the forces acting on the persons for example in accordance with UNECE-R 16 or UNECE-R 94.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing, or not suitable with the vehicle~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board~~	~~X~~	~~X~~ ~~X~~

		~~(g) System or components not operating, where applicable, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board~~	~~X~~	~~X~~	~~X~~
~~10.20 Taillight switching Description: Depending on operating status and/or failure of the illuminants, lighting functions are taken over by other luminaires.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(a) System or any component missing~~	-	~~X~~	-

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~~10.21 Bending light~~ ~~Description: during cornering and depending on the steering angle and speed, the light beam is swivelled and/or an additional headlight is activated, for example in accordance with UNECE-R 48, UNECE-R 98, UNECE-R 112, or UNECE-R 123.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
10.~~622~~ **Assisted steering systems (if fitted)** **Steering assist**~~Steering assist~~ Description: depending on the driving situation, the steering angle is automatically changed, without intervention by the driver.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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Relevant if the steering intervention occurs at a speed of more than 15 km/h, for example in accordance with UNECE-R 79. **Lane change assistance** **Description: at a lane change, the system warns the driver about vehicles in the next lane and steers the vehicle back.** **Lane keeping assistance** **Description: the system warns the driver when the vehicle is unintentionally leaving its lane and steers the vehicle back, e.g. in accordance with Regulation (EU) 2019/2144 and Commission Implementing Regulation (EU) 2021/646*.** **Automated lane keeping system (ALKS)** **Description: a system which is activated by the driver, and which keeps the vehicle within its lane by controlling the lateral and longitudinal movements of the vehicle for extended periods without the need for further driver input (for example in accordance with UNECE-R 157).**		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X X
		(g) System or components not operating, or implausible operative (for example audio components)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X X
~~10.23 Height levelling~~ ~~Description: the system changes~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-

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~~the clearance between vehicle chassis and the road.~~	~~the necessary data is made available, with the use of electronic interface~~	~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.24 Emergency braking signal Description: during strong deceleration, hazard warning lights and/or additional luminous surfaces are activated and/or the following traffic is warned by flashing brake lights, for example~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-

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~~in accordance with UNECE-R 48 or UNECE-R 13.~~		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(f) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
10.~~7~~**25** Pre-crash system **(if fitted) (X)**[2] Description: in a critical driving situation, the vehicle is prepared for the crash so that the risk of injury to the passengers and/or other road users is reduced.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X X
		(g) System or components not operating, or implausible operation (for example power windows)		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
~~10.26 Tyre pressure warning Description: the system detects loss of tyre pressure through integrated sensors and/or by implausible values for wheel speed, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 141.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.27 Traction control Description: the system prevents the drive wheels spinning during~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-

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~~acceleration by applying brake force.~~	~~the necessary data is made available, with the use of electronic interface~~	~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.28 Superimposed steering Description: depending on the driving situation, the system varies the transmission ratio of the steering.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~

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		~~(g) System or components not operating (for example power assistance not working), or implausible operation (for example inconsistency between the angle of the steering wheel and the angle of the wheels.)~~ ~~Steering affected~~	~~-~~	~~X~~	 ~~X~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	 ~~X~~	 ~~X~~
10.~~8~~29 ~~Roll~~ over protection (active) **(if fitted) (X)**[2] Description: in the event of an imminent rollover, support elements are extended to secure the survival space, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 21.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
~~10.30 Hydrogen installation Description: the hydrogen is stored in the vehicle and is used to propel the vehicle, either by combustion in an internal combustion engine or by conversion in a fuel cell with an additional electric engine.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
10.~~9~~31 Start-up aid **(if fitted) (X)**[2] Description: aiding start-up, for example by raising the lift axle or	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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by momentarily applying brake pressure or by automatic release of the parking brake.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.32 Trailer stabilization Description: through selective braking of the trailer by the service brakes, the complete vehicle train is stabilised.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	 ~~X~~ ~~X~~	 ~~X~~

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		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~	 ~~X~~
~~10.33 Endurance brake Description: an additional braking system that can maintain braking over a period of time without a significant reduction in performance, for example in accordance with UNECE-R 13 and Regulation (EU) 2019/2144.~~	~~Visual inspection (with command activated and not activated, if possible) complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing (for example insecure connectors or mountings)~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	 ~~X~~	 ~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(j) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	 ~~X~~	 ~~X~~
		(a) System or any component missing		X	

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10.**10**~~34~~ Differential lock deactivation **(if fitted) (X)**[2] Description: when this system is activated, the differential locks are unlocked depending on parameters (for example wheel slip, steering angle, speed).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation Steering affected		X	 X
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.35 Electronically controlled leading and trailing axle Description: the steered axles are additional axles with electronically controlled steering. The steering force is generated by~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-

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~~a hydraulic pump or by the lateral force on the wheels.~~		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~ ~~Steering affected~~	-	~~X~~ ~~X~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
~~10.36 Electronic steering damper Description: Steering damping is controlled electronically.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~ -
		~~(b) System or components damaged~~	-	~~X~~ -
		~~(c) Software version or -integrity incorrect~~	-	~~X~~ -
		~~(d) Wiring damaged~~	-	~~X~~ -
		~~(e) Warning device shows system malfunction.~~	-	~~X~~ -
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~

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		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	
		~~Steering affected~~			~~X~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~	~~X~~		
		~~Affecting safe operation of the vehicle~~		~~X~~	
		~~Danger to health of persons on board or of other road users~~			~~X~~
~~10.37 Bus stop brake~~ ~~Description: the system ensures the application of brake pressure when stationary, independent of the brake pedal activation. Buses can only start moving when the doors are closed.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~	~~X~~		
		~~Affecting safe operation of the vehicle~~		~~X~~	
		~~Danger to health of persons on board or of other road users~~			~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-

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		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.38 Kneeling~~ ~~Description: the system allows a road vehicle to be lowered to make it easier for passengers to board and disembark.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
10**11**.~~39~~ Steering brake **(if fitted) (X)**[2] Description: during cornering,	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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dosed braking is applied to one or more wheels.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation Steering affected		X	 X
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.40 Tyre pressure control Description: according to the requirement of the driver, the system regulates the tyre pressure.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-

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		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
~~10.41 Sliding joint stabilisation Description: The articulated joint is stabilised by damping, depending on vehicle speed, cylinder pressure of the articulated dampers, steering and articulation-angle.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~

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		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.42 Four-wheel parking brake Description: the system applies the maximum brake pressure in the wheel cylinders at all four wheels.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.43 Front-wheel locking device Description: front wheel suspension, which permits lateral inclination of the motorcycle, can be locked and unlocked by an~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~

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~~electric actuator. Above a certain speed, it is automatically unlocked.~~	~~the necessary data is made available, with the use of electronic interface~~	~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~	~~-~~ ~~X~~
		~~(g) System or components not operating, or implausible operation~~	~~-~~	~~X~~	~~-~~
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.44 Adaptive headlights Description: the illumination of the surrounding road area and/or the direct illumination of road users in the danger area in front of the vehicle is optimised by dynamic adaption of the light beams.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	~~-~~	~~X~~	~~-~~
		~~(b) System or components damaged~~	~~-~~	~~X~~	~~-~~
		~~(c) Software version or -integrity incorrect~~	~~-~~	~~X~~	~~-~~
		~~(d) Wiring damaged~~	~~-~~	~~X~~	~~-~~
		~~(e) Warning device shows system malfunction.~~	~~-~~	~~X~~	~~-~~
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~ ~~X~~	~~-~~ ~~X~~

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		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.45 Electrically actuated parking brake~~ ~~Description: the parking brake function is triggered or transmitted electronically or electromechanically.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(a) System or any component missing~~	-	~~X~~	-

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~~10.46 Lane change assistance Description: at a lane change, the system warns the driver about vehicles in the next lane and steers the vehicle back.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.47 Lane keeping assistance Description: the system warns the driver when the vehicle is unintentionally leaving its lane and steers the vehicle back, e.g. in accordance with Regulation (EU) 2019/2144 and Commission~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-

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~~Implementing Regulation (EU) 2021/646*.~~		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.48 Automatic eCall Description: the system is triggered automatically by in-vehicle sensors or manually, it transmits a minimum set of data (EN 15722) via mobile communication network and establishes an audio connection based on the (emergency) number between the vehicle passengers and the public safety answering point, in accordance with Regulation (EU) 2015/758 of the European Parliament and of the Council**, and Commission~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~ ~~The verification of the minimum set of data (MSD) includes checking whether:~~ ~~— the mandatory fields are filled with plausible information;~~ ~~— the deviation between in-vehicle system (IVS) location and true location is less than 150 meters. The calculation can be done according to point 2.5 of Annex I~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device (eCall MIL) shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board~~	~~X~~	~~X~~	~~X~~

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~~Delegated Regulation (EU) 2017/79***.~~	~~of Commission Delegated Regulation (EU) 2017/79;~~ - ~~the deviation between the MSD timestamp and the timestamp of the reading is less than 60s.~~	~~(g) System or components not operating, or implausible operation:~~ ~~- audio components (for example failing echo -test);~~ ~~- minimum set of data incorrect~~	-	~~X~~	-
		~~(h) Other failure (for example mobile network communication device, electronic control unit, or GPS signal failure)~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board~~	~~X~~	~~X~~	~~X~~
10.~~12~~**49** Active roll stabilisation **(if fitted) (X)[2]** Description: via appropriate actuators the system produces a roll movement which counters the vehicle's body roll movement depending on the current driving situation.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation		X	

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		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
~~10.50 Camera monitor Description: the system which generates at least a part of the indirect field of vision by a camera monitor combination (for example in accordance with UNECE-R 46).~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
10.**13**~~51~~ Acoustic vehicle alerting **(if required in accordance to type approval)**	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	

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Description: at low speed, the system generates an external, specific sound in order to warn, for example pedestrians.	the necessary data is made available, with the use of electronic interface	(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operative, or not respecting type-approved noise levels		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.52 Basic exterior lights Description: the system switches on/switches off the basic lighting devices (for example indicators).~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	 ~~X~~	 ~~X~~

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		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
~~10.53 Automated lane keeping system (ALKS)~~ ~~Description: a system which is activated by the driver, and which keeps the vehicle within its lane by controlling the lateral and longitudinal movements of the vehicle for extended periods without the need for further driver input (for example in accordance with UNECE-R 157).~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing~~	-	~~X~~	-
		~~(b) System or components damaged~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-
		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		(a) System or any component missing		X	

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10.~~14~~**15**~~4~~ Turning assistant **(Blind spot detection system) (if required in accordance to type approval)** Description: a system to inform the driver of a possible collision with a traffic participant (for example bicycle) near side (for example in accordance with UNECE-R 151).	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
~~10.55 Tachograph~~ ~~Description: a system to record the driving time, breaks, rest periods as well as periods of other work undertaken by a driver, for example, in accordance with Regulation (EU) No 165/2014 of the European Parliament and of the Council****.~~	~~Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface~~	~~(a) System or any component missing (for example seals, plaques), or not fitted in accordance with the requirements (for example plaque out of date).~~	-	~~X~~	-
		~~(b) System or components damaged (for example illegible plaque)~~	-	~~X~~	-
		~~(c) Software version or -integrity incorrect~~	-	~~X~~	-
		~~(d) Wiring damaged~~	-	~~X~~	-
		~~(e) Warning device shows system malfunction.~~	-	~~X~~	-

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		~~(f) System indicates failure via the electronic vehicle interface~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
		~~(g) System or components not operating, or implausible operation (for example tampered or manipulated, or size of tyres not compatible with calibration parameters, or incorrect set speed, if checked).~~	-	~~X~~	-
		~~(h) Other failure~~ ~~Not affecting the safe operation~~ ~~Affecting safe operation of the vehicle~~ ~~Danger to health of persons on board or of other road users~~	~~X~~	~~X~~	~~X~~
10.**15**~~56~~ Intelligent speed assistance **(if required in accordance to type approval)** Description: system to aid the driver in maintaining the appropriate speed for the road environment by providing dedicated and appropriate feedback, for example in accordance with Regulation (EU) 2019/2144 and Commission Delegated Regulation (EU) 2021/1958*****.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

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		(g) System or components not operating, or implausible operation		X	
		(g) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.**16**~~57~~ Reversing detection **(if required in accordance to type approval)** Description: system to make the driver aware of people and objects at the rear of the vehicle with the primary aim of avoiding collisions when reversing, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 158.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(a) System or any component missing		X	

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10.**17**~~58~~ Driver drowsiness and attention warning **(if required in accordance to type approval)** Description: system that assesses the driver's alertness through vehicle systems analysis and warns the driver if needed, for example in accordance with Regulation (EU) 2019/2144 and Commission Delegated Regulation (EU) 2021/1341******.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.**18**~~59~~ Advanced driver distraction warning **(if required in accordance to type approval)** Description: system that helps the driver to continue to pay attention to the traffic situation	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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and that warns the driver when he or she is distracted, for example in accordance with Regulation (EU) 2019/2144 and Commission Delegated Regulation (EU) 2023/2590*******.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.**19**~~60~~ Event data recorder **(if required in accordance to type approval)** Description: system with the only purpose of recording and storing critical crash-related parameters and information shortly before, during and immediately after a collision, for example in accordance with Regulation (EU) 2019/2144, Commission Delegated Regulation (EU) 2022/545********, and UNECE-R 160.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation	X		
		(g) System or components not operating, or implausible operation (for example data not accessible)		X	
		(h) Other failure Not affecting the safe operation	X		
		(a) System or any component missing		X	

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10.**20**~~.61~~ Automated driving system **(if fitted) (X)**[2] Description: systems that are capable of performing the entire dynamic driving task of the fully automated vehicle on a sustained basis, for example in accordance with Regulation (EU) 2019/2144 and Commission Implementing Regulation (EU) 2022/1426*********.	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	
		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
		(g) System or components not operating, or implausible operation (for example HMI)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	 X	 X
10.**21**~~62~~ Driver availability monitoring systems (automated driving) **(if fitted) (X)**[2] Description: System that assesses whether the driver is capable of taking over the driving	Visual inspection complemented, where made possible by the technical characteristics of the vehicle and where the necessary data is made available, with the use of electronic interface	(a) System or any component missing		X	
		(b) System or components damaged		X	
		(c) Software version or -integrity incorrect		X	
		(d) Wiring damaged		X	
		(e) Warning device shows system malfunction.		X	

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function of a self-driving vehicle, if necessary, in certain situations, for example in accordance with Regulation (EU) 2019/2144 and UNECE-R 157.		(f) System indicates failure via the electronic vehicle interface Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X
		(g) System or components not operating, or implausible operation (for example HMI)		X	
		(h) Other failure Not affecting the safe operation Affecting safe operation of the vehicle Danger to health of persons on board or of other road users	X	X	X

(bbb) _____

* Commission Implementing Regulation (EU) 2021/646 of 19 April 2021 laying down rules for the application of Regulation (EU) 2019/2144 of the European Parliament and of the Council as regards uniform procedures and technical specifications for the type-approval of motor vehicles with regard to their emergency lane-keeping systems (ELKS) (OJ L 133, 20.4.2021, p. 31, ELI: http://data.europa.eu/eli/reg_impl/2021/646/oj).

** Regulation (EU) 2015/758 of the European Parliament and of the Council of 29 April 2015 concerning type-approval requirements for the deployment of the eCall in-vehicle system based on the 112 service and amending Directive 2007/46/EC (OJ L 123, 19.5.2015, p. 77, ELI: http://data.europa.eu/eli/reg/2015/758/oj).

*** Commission Delegated Regulation (EU) 2017/79 of 12 September 2016 establishing detailed technical requirements and test procedures for the EC type-approval of motor vehicles with respect to their 112-based eCall in-vehicles systems, of 112-based eCall in-vehicle separate technical units and components and supplementing and amending Regulation (EU) 2015/758 of the European

Parliament and of the Council with regard to the exemptions and applicable standards (OJ L 12, 17.1.2017, p. 44, ELI: http://data.europa.eu/eli/reg_del/2017/79/oj).

**** Regulation (EU) No 165/2014 of the European Parliament and of the Council of 4 February 2014 on tachographs in road transport, repealing Council Regulation (EEC) No 3821/85 on recording equipment in road transport and amending Regulation (EC) No 561/2006 of the European Parliament and of the Council on the harmonisation of certain social legislation relating to road transport (OJ L 60, 28.2.2014, p. 1, ELI: http://data.europa.eu/eli/reg/2014/165/oj).

***** Commission Delegated Regulation (EU) 2021/1958 of 23 June 2021 supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of motor vehicles with regard to their intelligent speed assistance systems and for the type-approval of those systems as separate technical units and amending Annex II to that Regulation (OJ L 409, 17.11.2021, p. 1, ELI: http://data.europa.eu/eli/reg_del/2021/1958/oj).

****** Commission Delegated Regulation (EU) 2021/1341 of 23 April 2021 supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of motor vehicles with regard to their driver drowsiness and attention warning systems and amending Annex II to that Regulation (OJ L 292, 16.8.2021, p. 4, ELI: http://data.europa.eu/eli/reg_del/2021/1341/oj).

******* Commission Delegated Regulation (EU) 2023/2590 of 13 July 2023 supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of certain motor vehicles with regard to their advanced driver distraction warning systems and amending that Regulation (OJ L, 2023/2590, 22.11.2023, ELI: http://data.europa.eu/eli/reg_del/2023/2590/oj).

******** Commission Delegated Regulation (EU) 2022/545 of 26 January 2022 supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of motor vehicles with regard to their event data recorder and for the type-approval of those systems as separate technical units and amending Annex II to that Regulation (OJ L 107, 6.4.2022, p. 18, ELI: http://data.europa.eu/eli/reg_del/2022/545/oj).

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********* Commission Implementing Regulation (EU) 2022/1426 of 5 August 2022 laying down rules for the application of Regulation (EU) 2019/2144 of the European Parliament and of the Council as regards uniform procedures and technical specifications for the type-approval of the automated driving system (ADS) of fully automated vehicles (OJ L 221, 26.8.2022, p. 1, ELI: http://data.europa.eu/eli/reg_impl/2022/1426/oj).

’;

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RSI – Commission proposal

Annex II

[NO CHANGES]

RSI – Council changes

Annex II

[NO CHANGES]

PUBLIC

RSI – Commission proposal

Annex III

(2) Annex III is amended as follows:

The first sentence in Chapter II, Section 3, is replaced by the following:

— ‘Table 1 sets out rules that shall be applied during a cargo securing inspection to determine whether the condition of the transport is acceptable.’;

—

RSI – Council mandate

Annex III

[like Commission]

PUBLIC

RSI – Commission proposal

Annex IV

(3) Annex IV is amended as follows:

on the front side of the form, point 6 is replaced by the following:

— ‘6. Category of vehicle[(a)]

(a) N_1 (up to 3,5 t) □

N_2 (3,5 to 12 t) □

N_3 (more than 12 t) □

O_3 (3,5 to 10 t) □

O_4 (more than 10 t) □

M_2 (more than 9 seats[(b)], up to 5 t) □

M_3 (more than 9 seats[(b)], more than 5 t) □

T1b □

T2b □

T3b □

T4.1b □

T4.2b □

T4.3b □

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Other vehicle category:

(ccc) (please specify).';

point 10 is amended as follows:

(i) point (10) is replaced by the following:

— '(10) Electronic safety systems[(f)]';

— (ii) the following point (11) is added:

— (11) Cargo securing[(f)]';

the reverse side of the form is amended as follows:

(i) the following item 4.14 is inserted:

(ddd) '4.14 High-voltage systems

(eee) 4.14.1 Electrical safety

(fff) 4.14.2 Traction battery cover

(ggg) 4.14.3 Traction battery

(hhh) 4.14.4 High-voltage electrical wiring

(iii) 4.14.5 High-voltage electrical and electronical equipment

(jjj) 4.14.6 Insulation resistance

(kkk) 4.14.7 Anti-starting system';

(ii) items 8.2.1 to 8.2.2.2 are replaced by the following:

(lll) '8.2.1 Exhaust emissions control equipment

(mmm) 8.2.2 Exhaust emission measurement – positive ignition engines

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(nnn) 8.2.2.1 Particle number measurement

(ooo) 8.2.2.2 Gaseous emissions

(ppp) 8.2.2.3 NO_X measurement

(qqq) 8.2.3 Exhaust emission measurement – compression ignition engines

(rrr) 8.2.3.1 Particle number measurement

(sss) 8.2.3.2 Opacity

(ttt) 8.2.3.3 NO_X measurement';

(iii) the following item 10 is added:

(uuu) '10. Electronic safety systems in accordance with Annex II to Directive 2014/47/EU'.;

(vvv)

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RSI – Council mandate

Annex IV

[like Commission proposal, except for:]

(b) point 10 is amended as follows:

(i) point (10) is replaced by the following:

'(10) ~~Electronic~~**ADAS and other** safety **related** systems-[(f)]';

(ii) the following point (11) is added:

(11) Cargo securing[(f)]';

(c) the reverse side of the form is amended as follows:

(i) the following item 4.14 is inserted:

'4.14 High-voltage systems

4.14.1 Electrical safety

4.14.2 Traction battery cover

4.14.3 Traction battery

4.14.4 High-voltage electrical wiring

4.14.5 High-voltage electrical and electronical equipment

4.14.6 Insulation resistance

PUBLIC

4.14.7 Anti-starting system';

(ii) items 8.2.1 to 8.2.2.2 are replaced by the following:

'8.2.1 Exhaust emissions control equipment

8.2.2 Exhaust emission measurement – positive ignition engines

8.2.2.1 Particle number measurement

8.2.2.2 Gaseous emissions

8.2.2.3 NO_X measurement

8.2.3 Exhaust emission measurement – compression ignition engines

8.2.3.1 Particle number measurement

8.2.3.2 Opacity

8.2.3.3 NO_X measurement';

(iii) the following item 10 is added:

'10. ~~Electronic~~**ADAS and other** safety **related** systems in accordance with Annex II to Directive 2014/47/EU'.

PUBLIC

RSI – Commission proposal

Annex V

Annex V is replaced by the following:

'ANNEX V

STANDARD FORM FOR REPORTING TO THE COMMISSION

The standard form shall be drawn up in a computer-processable format andtransmitted by electronic means using standard office software.

Each Member State shall produce both the following tables:

(a) one summary table per year;

(b) for each country of registration of vehicles checked in a more detailed inspection, a separate table containing information on checked and detected deficiencies for each vehicle category.

PUBLIC

Summary table

of all (initial and more detailed) inspections

Reporting Member State: Reporting period year [X]

Vehicle Category:	N_1		N_2		N_3		M_2		M_3		O_3		O_4		T1b, T2b, T3b, T4.1b, T4.2b, and T4.3b		Other categories (optional)		Total	
Country of registration	Number of vehicles checked (1)	Number of vehicles failed (2)	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed
Belgium																				
Bulgaria																				
Czech Republic																				
Denmark																				
Germany																				
Estonia																				
Ireland																				
Greece																				
Spain																				
France																				
Croatia																				
Italy																				
Cyprus																				
Latvia																				

PUBLIC

Lithuania																			

PUBLIC

Vehicle Category:	N_1		N_2		N_3		M_2		M_3		O_3		O_4		T1b, T2b, T3b, T4.1b, T4.2b, and T4.3b		Other categories (optional)		Total	
Country of registration	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed
Luxembourg																				
Hungary																				
Malta																				
Netherlands																				
Austria																				
Poland																				
Portugal																				
Romania																				
Slovenia																				
Slovakia																				
Finland																				
Sweden																				
Albania																				
Andorra																				
Armenia																				
Azerbaijan																				

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Vehicle Category:	N_1		N_2		N_3		M_2		M_3		O_3		O_4		T1b, T2b, T3b, T4.1b, T4.2b, and T4.3b		Other categories (optional)		Total	
Country of registration	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed
Belarus																				
Bosnia and Herzegovina																				
Georgia																				
Kazakhstan																				
Liechtenstein																				
Monaco																				
Montenegro																				
North Macedonia																				
Norway																				
Republic of Moldova																				
Russian Federation																				
San Marino																				
Serbia																				
Switzerland																				
Tajikistan																				
Türkiye																				
Turkmenistan																				

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Vehicle Category:	N_1		N_2		N_3		M_2		M_3		O_3		O_4		T1b, T2b, T3b, T4.1b, T4.2b, and T4.3b		Other categories (optional)		Total	
Country of registration	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed
Ukraine																				
United Kingdom																				
Uzbekistan																				
Other third countries (please specify)																				

(1) Total number of vehicles checked (at initial and more detailed inspections), including those without deficiencies, as well as those with minor, major or dangerous deficiencies.

(2) Failed vehicles with major or dangerous deficiencies as per Annex IV.

PUBLIC

PUBLIC

Results of more detailed inspections

Reporting Member State:

Name of the reporting Member State

Country of Registration: PERIOD: year [x]

Name of the country of vehicle registration

Vehicle Category:	N_1		N_2		N_3		M_2		M_3		O_3		O_4		T1b, T2b, T3b, T4.1b, T4.2b, and T4.3b		Other categories (optional)		Total	
	Number of vehicles checked (1)	Number of vehicles failed (2)	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed

Defect detail

	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed
(0) Identification																				
(1) Braking equipment																				
(2) Steering																				
(3) Visibility																				
(4) Lighting equipment and electrical system																				
(5) Axles, wheels, tyres, suspension																				

(6) Chassis and chassis attachments																			

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Vehicle Category:	N_1		N_2		N_3		M_2		M_3		O_3		O_4		T1b, T2b, T3b, T4.1b, T4.2b, and T4.3b		Other categories (optional)		Total	
	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed	Number of vehicles checked	Number of vehicles failed
	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed	Checked	Failed
(7) Other equipment including tachograph and speed limitation devices																				
(8) Nuisance including emissions and spillage of fuel and/or oil																				
(9) Supplementary tests for M_2/M_3																				
(10) Electronic safety systems																				
(11) Cargo securing																				
Total number of failures																				

(1) Total number of vehicles checked (at initial and more detailed inspections), including those without deficiencies, as well as those with minor, major or dangerous deficiencies.

(2) Failed vehicles with major or dangerous deficiencies as per Annex IV.

RSI – Council mandate

Annex V

[like Commission]

PUBLIC