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#### COVER NOTE

From:	Secretary-General of the European Commission, signed by Ms Martine DEPREZ, Director
date of receipt:	8 June 2022
To:	Mr Jeppe TRANHOLM-MIKKELSEN, Secretary-General of the Council of the European Union
No. Cion doc.:	C(2022) 3610 final, ANNEX
Subject:	ANNEX to the Commission Delegated Regulation amending Regulation (EU) 2019/2144 of the European Parliament and of the Council to take into account technical progress and regulatory developments concerning amendments to Vehicle Regulations adopted in the context of the United Nations Economic Commission for Europe

Delegations will find attached document C(2022) 3610 final, ANNEX.

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Encl.: C(2022) 3610 final, ANNEX



EUROPEAN  
COMMISSION

Brussels, 8.6.2022  
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ANNEX

**ANNEX**

**to the**

**Commission Delegated Regulation**

**amending Regulation (EU) 2019/2144 of the European Parliament and of the Council to  
take into account technical progress and regulatory developments concerning  
amendments to Vehicle Regulations adopted in the context of the United Nations  
Economic Commission for Europe**

## ANNEX

Annexes I and II to Regulation (EU) 2019/2144 are amended as follows:

(1) Annex I is amended as follows:

(a) the row for UN Regulation Number 14 is replaced by the following:

<b>‘14</b>	Safety-belt anchorages	09 series of amendments	OJ L 324, 13.12.2019, p. 14	M, N’;
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(b) the row for UN Regulation Number 17 is replaced by the following:

<b>‘17</b>	Seats, their anchorages and any head restraints	09 series of amendments	OJ L 266, 18.10.2019, p. 1	M, N’;
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(c) the row for UN Regulation Number 29 is replaced by the following:

<b>‘29</b>	Protection of the occupants of the cab of a commercial vehicle	03 series of amendments	OJ L 283, 5.11.2019, p. 72	N’;
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(d) the rows for UN Regulation Numbers 44 and 45 are replaced by the following:

<b>‘44</b>	Restraining devices for child occupants of power-driven vehicles (‘Child Restraint Systems’)	04 series of amendments	OJ L 285, 1.9.2020, p. 1	M, N
<b>45</b>	Headlamps cleaners	01 series of amendments	OJ L 136, 29.4.2020, p. 1	M, N’;

(e) the row for UN Regulation Number 48 is replaced by the following:

<b>‘48</b>	Installation of lighting and light-signalling devices on motor vehicles	07 series of amendments	OJ L 347, 30.9.2021, p. 1	M, N, O <sup>(c)</sup> ’;
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(f) the row for UN Regulation Number 80 is replaced by the following:

<b>‘80</b>	Seats of large passenger vehicles	03 series of amendments	OJ L 266, 18.10.2019, p. 31	M <sub>2</sub> , M <sub>3</sub> ’;
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(g) the row for UN Regulation Number 90 is replaced by the following:

<b>‘90</b>	Replacement brake lining assemblies, drum-brake linings and discs and drums	02 series of amendments	OJ L 290, 16.11.2018, p. 54	M, N, O <sup>(h)</sup> ’;
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	for power-driven vehicles and their trailers			
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(h) the rows for UN Regulation Numbers 94 and 95 are replaced by the following:

<b>‘94</b>	Protection of occupants in the event of a frontal collision	04 series of amendments	OJ L 392, 5.11.2021, p. 1	M <sub>1</sub> , N <sub>1</sub>
<b>95</b>	Protection of occupants in the event of a lateral collision	05 series of amendments	OJ L 392, 5.11.2021, p. 62	M <sub>1</sub> , N <sub>1</sub> ’;

(i) the row for UN Regulation Number 118 is replaced by the following:

<b>‘118</b>	Fire resistance of interior materials in buses	03 series of amendments	OJ L 48, 21.2.2020, p. 26	M <sub>3</sub> ’;
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(j) the row for UN Regulation Number 122 is replaced by the following:

<b>‘122</b>	Heating systems of vehicles	Original version of the Regulation	OJ L 19, 24.1.2020, p. 42	M, N, O’;
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(k) the rows for UN Regulation Numbers 126 and 127 are replaced by the following:

<b>‘126</b>	Partitioning systems	Original version of the Regulation	OJ L 35, 7.2.2020, p. 37	M <sub>1</sub>
<b>127</b>	Pedestrian safety	02 series of amendments	OJ L 154, 15.5.2020, p. 1	M <sub>1</sub> , N <sub>1</sub> ’;

(l) the row for UN Regulation Number 135 is replaced by the following:

<b>‘135</b>	Pole side impact	01 series of amendments	OJ L 103, 3.4.2020, p. 12	M <sub>1</sub> , N <sub>1</sub> ’;
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(m) the row for UN Regulation Number 137 is replaced by the following:

<b>‘137</b>	Frontal full-width impact	02 series of amendments	OJ L 392, 5.11.2021, p. 130	M <sub>1</sub> , N <sub>1</sub> ’;
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(n) the rows for UN Regulation Numbers 141, 142 and 145 are replaced by the following:

<b>‘141</b>	Tyre pressure monitoring systems	01 series of amendments	OJ L 323, 13.9.2021, p. 1	M, N, O
<b>142</b>	Tyre installation	01 series of	OJ L 293, 16.8.2021, p.	M, N, O

		amendments	34	
<b>145</b>	Child restraint anchorages	Original version of the Regulation	OJ L 324, 13.12.2019, p. 47	M <sub>1</sub> , N <sub>1</sub> ';

(o) the following rows for UN Regulation Numbers 148, 149, 150, 151, 152, 153, 155, 157, 158, 159, 161, 162 and 163 are added:

<b>148</b>	Light signalling devices (LSD)	Original version of the Regulation	OJ L 347, 30.9.2021, p. 123	M, N, O
<b>149</b>	Road illumination devices	Original version of the Regulation	OJ L 347, 30.9.2021, p. 173	M, N, O
<b>150</b>	Retro-reflective devices (RRD)	Original version of the Regulation	OJ L 347, 30.9.2021, p. 297	M, N, O
<b>151</b>	Blind Spot Information System for the Detection of Bicycles	Original version of the Regulation	OJ L 360, 30.10.2020, p. 48	M <sub>2</sub> , M <sub>3</sub> , N <sub>2</sub> , N <sub>3</sub>
<b>152</b>	Advanced Emergency Braking System (AEBS)	Original version of the Regulation	OJ L 360, 30.10.2020, p. 66	M <sub>1</sub> , N <sub>1</sub>
<b>153</b>	Safety of electric power train at rear-end collision	Original version of the Regulation	OJ L 82, 9.3.2021, p. 1	M <sub>1</sub> , N <sub>1</sub>
<b>155</b>	Cybersecurity and cybersecurity management system	Original version of the Regulation	OJ L 82, 9.3.2021, p. 30	M, N, O
<b>157</b>	Automated Lane Keeping Systems (ALKS)	Original version of the Regulation	OJ L 82, 9.3.2021, p. 75	M <sub>1</sub>
<b>158</b>	Devices for means of rear visibility or detection	Original version of the Regulation	OJ L 184, 25.5.2021, p. 20	M, N
<b>159</b>	Moving Off Information Systems (MOIS)	Original version of the Regulation	OJ L 184, 25.5.2021, p. 62	M <sub>2</sub> , M <sub>3</sub> , N <sub>2</sub> , N <sub>3</sub>
<b>161</b>	Locking system	Original version of the Regulation	OJ L 470, 30.12.2021, p. 1	M <sub>1</sub> , N <sub>1</sub>
<b>162</b>	Immobiliser systems	Original version of the Regulation	OJ L 470, 30.12.2021, p. 23	M <sub>1</sub> , N <sub>1</sub>

<b>163</b>	Vehicle alarm system	Original version of the Regulation	OJ L 470, 30.12.2021, p. 48	M <sub>1</sub> , N <sub>1</sub> '.
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(p) the following paragraph is added to the notes to the table:

‘A Universal International Whole Vehicle Type Approval issued for a type of vehicles of category M<sub>1</sub> under UN Regulation No 0 (OJ L 135, 31.5.2018, p. 1), that includes type-approval under the UN Regulations concerned in the list in this Annex, shall be considered equivalent to an EU type-approval granted under this Regulation.’;

(q) the following explanatory note is added:

‘(h) UN Regulation No 90 shall apply for the purposes of making available on the market or entering into service of the following:

- (a) new replacement brake lining assemblies for vehicle types of the following categories:
  - (i) categories M<sub>1</sub> with a permissible maximum laden mass not exceeding 3,5 tonnes, M<sub>2</sub> with a permissible maximum laden mass not exceeding 3,5 tonnes, N<sub>1</sub>, O<sub>1</sub> and O<sub>2</sub>, for which vehicle type-approval is granted in accordance with UN Regulations No 13 or No 13-H after 7 April 1998;
  - (ii) categories M<sub>1</sub> with a permissible maximum laden mass exceeding 3,5 tonnes, M<sub>2</sub> with a permissible maximum laden mass exceeding 3,5 tonnes, M<sub>3</sub>, N<sub>2</sub>, N<sub>3</sub>, O<sub>3</sub> and O<sub>4</sub>, for which vehicle type-approval is granted in accordance with UN Regulations No 13 or No 13-H after 1 November 2014;
- (b) new replacement brake discs and drums for vehicle types of the following categories:
  - (i) categories M<sub>1</sub> and N<sub>1</sub>, for which vehicle type-approval is granted in accordance with UN Regulations No 13 or No 13-H after 1 November 2016;
  - (ii) categories O<sub>1</sub> and O<sub>2</sub>, for which vehicle type-approval is granted in accordance with UN Regulation No 13 after 1 November 2016;
- (c) new replacement brake discs for vehicle types of categories M<sub>2</sub>, M<sub>3</sub>, N<sub>2</sub>, N<sub>3</sub>, O<sub>3</sub> and O<sub>4</sub>, for which vehicle type-approval is granted in accordance with UN Regulation No 13 after 1 November 2014;
- (d) new replacement brake drums for vehicle types of categories M<sub>2</sub>, M<sub>3</sub>, N<sub>2</sub>, N<sub>3</sub>, O<sub>3</sub> and O<sub>4</sub>, for which vehicle type-approval is granted in accordance with UN Regulation No 13 after 1 November 2016.’.

(2) Annex II is amended as follows:

(a) the rows for requirements A8 and A9 are replaced by the following:

‘A8 Child restraint anchorages	UN Regulation No 145 <sup>(7)</sup>		A	A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>							
A9 Child restraint systems	UN Regulation No 44		A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>	A <sup>(1)</sup>						B <sup>(8)</sup>	B <sup>(8)</sup> ’;

(b) the row for requirement A18 is replaced by the following:

‘A18 Hydrogen system material qualification	Regulation (EU) 2021/535, Annex XIV		A	A	A	A	A	A							A’;
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(c) the row for requirement A27 is replaced by the following:

‘A27 Rear impact	UN Regulation No 153 <sup>(9)</sup>		B			B									’;
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(d) the rows for requirements from B3 to B7 are replaced by the following:

‘B3 Frontal protection system	Regulation (EU) 2021/535, Annex XII		X			X								A	
B4 Advanced emergency braking for pedestrian and cyclist	UN Regulation No 152		C			C									
B5 Pedestrian and cyclist collision warning	UN Regulation No 159			B	B		B	B						B	
B6 Blind spot information system	UN Regulation No 151			B	B		B	B						B	
B7 Reversing detection	UN Regulation No 158		B	B	B	B	B	B						B	’;

(e) the rows for requirements B11 and B12 are replaced by the following:

‘B11 Defrost/demist	Regulation (EU) 2021/535, Annex VI		A	A <sup>(2)</sup>	A <sup>(2)</sup>	A <sup>(2)</sup>	A <sup>(2)</sup>	A <sup>(2)</sup>							
B12 Wash/wipe	Regulation (EU) 2021/535, Annex IV		A	A <sup>(3)</sup>	A <sup>(3)</sup>	A <sup>(3)</sup>	A <sup>(3)</sup>	A <sup>(3)</sup>					A’;		

(f) the row for requirement C3 is replaced by the following:

‘C3 Emergency lane keeping system	Regulation (EU) 2021/646		B <sup>(6)</sup>			B <sup>(6)</sup>									’;
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(g) the rows for requirements C6 and C7 are replaced by the following:

‘C6 Brake assist	UN Regulation No 139 <sup>(10)</sup>		A			A									
C7 Stability control	UN Regulation No 13 UN Regulation No 140 <sup>(11)</sup>		A	A	A	A	A	A	A	A	A	A			’;

(h) the row for requirement C9 is replaced by the following:

‘C9 Advanced emergency braking on light-duty vehicles	UN Regulation No 152		B			B									’;
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(i) the rows for requirements C13 and C14 are replaced by the following:

‘C13 Tyre pressure monitoring for light-duty vehicles	UN Regulation No 141 <sup>(12)</sup>	Applies to vehicle categories M <sub>1</sub> with a maximum mass ≤ 3 500 kg and N <sub>1</sub> .	A			B									
C14 Tyre pressure monitoring for heavy-duty vehicles	UN Regulation No 141			B	B		B	B			B	B			’;

(j) the rows for requirements D3 and D4 are replaced by the following:



'D3 Protection against unauthorised use, immobiliser and alarm systems	UN Regulation No 18		A	A <sup>(1)</sup>	A <sup>(1)</sup>	A	A <sup>(1)</sup>	A <sup>(1)</sup>					A	A
	UN Regulation No 97													
	UN Regulation No 116													
	UN Regulation No 161													
	UN Regulation No 162													
	UN Regulation No 163													
D4 Protection of vehicle against cyberattacks	UN Regulation No 155		B	B	B	B	B	B					B	B';

(k) the rows for requirements D11 to D13 are replaced by the following:

'D11 Light signalling devices	UN Regulation No 4		X	X	X	X	X	X	X	X	X	X		A
	UN Regulation No 6													
	UN Regulation No 7													
	UN Regulation No 19													
	UN Regulation No 23													
	UN Regulation No 38													
	UN Regulation No 77													
	UN Regulation No 87													
	UN Regulation No 91													
	UN Regulation No 148													
D12 Road illumination devices	UN Regulation No 31		X	X	X	X	X	X						A
	UN Regulation No 98													
	UN Regulation No 112													
	UN Regulation No 119													
	UN Regulation No 123													
	UN Regulation No 149													
D13 Retro-reflective devices	UN Regulation No 3		X	X	X	X	X	X	X	X	X	X		A';
	UN Regulation No 104													
	UN Regulation No 150													

(l) the row for requirement D16 is replaced by the following:

'D16 Emergency Stop Signal	UN Regulation No 48		B	B	B	B	B	B						';
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(m) the row for requirement D18 is replaced by the following:

'D18 Gear shift indicator	Regulation (EU) 2021/535, Annex IX		A											';
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(n) the row for requirement E4 is replaced by the following:

'E4 Driver availability monitoring system	UN Regulation No 157		B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>							';
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(o) the rows for requirements E6 and E7 are replaced by the following:

'E6 Systems to replace driver's control	UN Regulation No 157		B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>							
E7 Systems to provide the vehicle with information on state of vehicle and surrounding area	UN Regulation No 157		B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>	B <sup>(5)</sup>							';

(p) the rows for requirements F1 and F2 are replaced by the following:

'F1 Registration plate space	Regulation (EU) 2021/535, Annex III		A	A	A	A	A	A	A	A	A	A			
F2 Reversing motion	Regulation (EU) 2021/535, Annex XI		A	A	A	A	A	A							';

(q) the row for requirement F4 is replaced by the following:

'F4 Door entry steps, handholds and running boards	Regulation (EU) 2021/535, Annex X		A			A	A	A							';
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(r) the rows for requirements from F7 to F11 are replaced by the following:

F7 Statutory plate and vehicle identification number	Regulation (EU) 2021/535, Annex II		A	A	A	A	A	A	A	A	A	A		
F8 Towing devices	Regulation (EU) 2021/535, Annex VII		A	A	A	A	A	A						
F9 Wheel guards	Regulation (EU) 2021/535, Annex V		A											
F10 Spray suppression systems	Regulation (EU) 2021/535, Annex VIII					A	A	A	A	A	A	A	A	
F11 Masses and dimensions	Regulation (EU) 2021/535, Annex XIII		A	A	A	A	A	A	A	A	A	A		’;

(s) the following notes are added:

- ‘(7) Type-approvals granted in accordance with the 07 series of amendments to UN Regulation No 14, and their extensions, shall be considered equivalent to a type-approval granted under UN Regulation No 145 (original version).
- (8) Child restraint systems, not built in a motor vehicle, approved in accordance with the requirements of UN Regulation No 44 and placed on the Union market before 1 September 2023, may continue to be made available on the market and entered into service until 1 September 2024.
- (9) Type-approvals granted in accordance with the 03 series of amendments to UN Regulation No 34, and their extensions, shall be considered equivalent to a type-approval granted under UN Regulation No 153 (original version).
- (10) Type-approvals granted in accordance with UN Regulation No 13-H (original version), and their extensions, shall be considered equivalent to a type-approval granted under UN Regulation No 139 (original version).
- (11) Type-approvals granted in accordance with UN Regulation No 13-H (original version), and their extensions, shall be considered equivalent to a type-approval granted under UN Regulation No 140 (original version).
- (12) Type-approvals granted in accordance with the 02 series of amendments to UN Regulation No 64, and their extensions, shall be considered equivalent to a type-approval granted under UN Regulation No 141 (original version).’.