

## Proposal for Supplement 11 to the 06 Series of amendments and Supplement 4 to the 07 series of amendments to UN Regulation No. 16 (Safety-belts, Isofix and I-size)

The text reproduced below was prepared by the experts from France. It proposes supplements to UN Regulation No. 16 to include update on safety-belt installation table from annex XVI. The modifications to the current text of UN Regulation No. 16 are marked in bold for new characters and strikethrough for deleted characters.

### I. Proposal

*Annex XVI*, amend to read :

<i>Minimum requirements for safety-belts and Retractors</i>						
<i>Vehicle category</i>	<i>Forward facing seating positions</i>				<i>Rearward-facing seating positions</i>	<i>Side-facing seating position</i>
	<i>Outboard seating positions</i>		<i>Centre seating position</i>			
	<i>Front</i>	<i>Other than front</i>	<i>Front</i>	<i>Other than front</i>		
M <sub>1</sub>	Ar4m	Ar4m	Ar4m	Ar4m	B, Br3, Br4m	-
M <sub>2</sub> < 3.5 t	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Br3, Br4m, Br4Nm	-
M <sub>2</sub> > 3.5 t	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm ●	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm ●	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm ●	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm ●	Br3, Br4m, Br4Nm	-
M <sub>3</sub>	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm ● See para. 8.1.7. for conditions when a lap belt is permitted	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm ● See para. 8.1.7. for conditions when a lap belt is permitted	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm ● See para. 8.1.7. for conditions when a lap belt is permitted	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm ● See para. 8.1.7. for conditions when a lap belt is permitted	<b>Br3, Br4m, Br4Nm</b>	B, Br3, Br4m, Br4Nm
N <sub>1</sub>	Ar4m, Ar4Nm	Ar4m, Ar4Nm, Br4m, Br4Nm Ø  Para. 8.1.2.1. lap belt permitted if seat is inboard of a passageway	B, Br3, Br4m, Br4Nm or A, Ar4m, Ar4Nm* <sup>1</sup>  Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	-
N <sub>2</sub>	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm* Para. 8.1.6. lap belt permitted if the windscreen is outside the reference zone and for the driver's seat	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm, or A, Ar4m, Ar4Nm* Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	-

Minimum requirements for safety-belts and Retractors						
N <sub>3</sub>	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm* Para. 8.1.6. lap belt permitted if the windscreen is outside the reference zone and for the driver's seat	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm, or A, Ar4m, Ar4Nm* Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	-

A: three-point (lap and diagonal) belt

3: automatically locking retractor

\*: Refers to para. 8.1.6. of this Regulation

<sup>2</sup>

B: 2-point (lap) belt

4: emergency locking retractor

Ø: Refers to para. 8.1.2.1. of this Regulation

r: retractor

N: higher response threshold

●: refers to para. 8.1.7. of this Regulation<sup>2</sup>

m: emergency locking retractor with multiple sensitivity

(see Regulation No. 16, paras. 2.14.3. and 2.14.5.)

<sup>1</sup> Erratum to Supplement 12 to the 04 series of amendments, applicable "ab initio."

<sup>2</sup> Erratum to Revision 4, applicable "ab initio."

*Note:* In all cases all S-type belts may be fitted in place of all possible A or B type belts, provided their anchorages comply with Regulation No. 14. Where a harness belt has been approved as a S-type belt according to this Regulation, using the lap belt strap, the shoulder belt straps and possibly one or more retractors, one or two additional crotch straps including their attachments for their anchorages may be provided by the manufacturer/applicant. These additional anchorages need not meet the requirements of Regulation No. 14 (Erratum to Supplement 14 to the 04 series of amendments, applicable "ab initio")."

## II. Justification

When initially initiated in Supplement 08 Series 04, table from annex XVI didn't include separation line between M2 > 3,5 tonnes and M3 categories and all required seat-belts were for both vehicle applications.

M2 > 3,5 tonnes	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm	Br3, Br4m, Br4Nm
	★	★	★	★	
M3	See para. 8.1.10 for conditions when a lap belt is permitted	See para. 8.1.10 for conditions when a lap belt is permitted	See para. 8.1.10 for conditions when a lap belt is permitted	See para. 8.1.10 for conditions when a lap belt is permitted	

When the separation line appeared the associated required seat-belts were not distinguished. It was corrected in Supplement 08 to Series 06 except for rearward-facing seating positions.

M <sub>2</sub> > 3,5 t	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm	-
M <sub>3</sub>	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm See para. 8.1.7. for conditions when a lap belt is permitted	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm See para. 8.1.7. for conditions when a lap belt is permitted	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm See para. 8.1.7. for conditions when a lap belt is permitted	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm See para. 8.1.7. for conditions when a lap belt is permitted	-	B, Br3, Br4m, Br4Nm

In term of safety, minimum 2-point (lap) belt required for M2 seems to be also the minimum to be required for M3 application.