

Submitted by the expert from Japan and
European Commission

Informal document: **GRSP-64-37**
(64th GRSP, 11 - 14 December 2018,
agenda item 9)

Introduction to Revision of UNR17

Proposal Document **ECE/TRANS/WP.29/GRSP/2018/34**

Alignment to GTR No. 7 head restraints

December 2018

Background

History of alignment to GTR No. 7 head restraints.

At 58th GRSP on December 2015, submitted an informal document for Draft amendment of UNR17(GRSP-58-28Rev.1), That is transpose amendment of GTR7 ph2 (GRSP-58-26) into UNR17 series 08, It was waiting discussion at next GRSP.

However, GTR7 ph2 could not be finalized.

We could not have a discussion for amendment of UNR17.

We submitted an formal document Draft amendment of UNR17 for 64th session of GRSP, that is transpose from amendment of GTR7 ph2 (ECE/TRANS/GRSP/2018/27) into latest document for UNR17(ECE/TRANS/WP.29/2018/142).

※Not yet transpose from GRSP-63-24.

It is the first official document for alignment to GTR No. 7.

Draft UNR17

Basic concept of transpose from GTR7 to UNR17

While maintaining the current technical standards of UNR 17, we will add a new standard of GTR 7.

The reduced special exception rule of GTR 7 does not apply.

	Amendment of GTR ph2	Amendment of UNR17 10series
Height of Head restraint	Not less than 830mm in at least on position.... foot note A contracting party may opt for a lower value in its domestic legislation if it decides that such value in appropriate.	Not less than 830mm in at least on position.... No reduced special exception
Dynamic performance	Based on a determination by each Contracting Party or regional economic integration organization, either a Hybrid III 50th percentile male dummy or a BioRID II 50th percentile male dummy shall be used to determine compliance.	BioRID II 50th percentile male dummy Use evaluation of cervical injury value only with BioRIDII

Draft UNR17

Requirement of draft amendment UNR17 series 10

Change point of UNR17 series 10.

		UNR17 series 08	amendment UNR17 series 10
Height of head restraint (more than)	Measurement procedure	H-point method	R-point method
	Highest position(front)	800mm	830mm (outboard)
	Highest position(other)	750mm	Not applicable
	Lowest position(front)	700mm	720mm
	Lowest position(other)		720mm 700mm (RR CTR)
Back set	Front out board	Not applicable	45mm
BioRID2	All seat if possible to dummy set	Not applicable	Meet injury criteria

※ The manufacturer selects either static backset requirement or BioRID 2 requirement

Draft UNR17

Requirement of draft amendment UNR17 series 10

Change point of UNR17 series 10.

		UNR17 series 08	amendment UNR17 series 10
Displacement	Application of a $373 \pm 7.5\text{Nm}$ moment about the R-point	Not be displaced more than 102mm = (b)	Not be displaced more than 102mm
Displacement and Back set Retention (for backset adjustable)	(a) Application of a $37 \pm 0.7\text{Nm}$ initial reference moment.	Not applicable	Not be displaced more than 25mm
	(b) Application of a $373 \pm 7.5\text{Nm}$ moment about the R-point	Not applicable	Not be displaced more than 102mm
	(c) Reduction of moment to 0Nm from (b) and re application of (a)	Not applicable	Return to within 13mm of initial reference position

If head restraint has adjustable backset , manufacturer possible to choose either requirement.

Draft UNR17

Requirement of draft amendment UNR17 series 10

Change point of UNR17 series 10.

		UNR17 series 08	amendment UNR17 series 10
Height retention For adjustable head restraint	Application of initial road $50 \pm 1N$ to 500N after 5 second reduction to $50 \pm 1N$	Not applicable	Not be displaced more than 25mm
Non use position	For the front seat	automatically return to the position of use when the seat is occupied.	Not approval for Driver's seat. for Passenger seat can approve automatically return

Draft UNR17

Requirement of draft amendment UNR17 series 10

Change point of UNR17 series 10.

		UNR17 series 08	amendment UNR17 series 10
Non use position	Other seat	provided that such position is clearly recognizable to the occupant as not being included for the use of the head restraint;	automatically return
			Not less than rotate 60°
			Non comfortable by Gap
			Non comfortable by big difference of torso
			Information label

Draft UNR17

Outlook / Recommendation

GTR7 ph2 is the finalization stage now.

In the meantime, the IWG of GTR7ph2 would welcome comments on the content of document ECE/TRANS/WP.29/GRSP/2018/34 so that it may consider them while preparing the final proposal.

Thank you for your attention!

Head restraint working group passive safety subcommittee in JASIC
Japan automobile standards internationalization center