



IWG EqOP

UN R17.10 – anti-whiplash provisions

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> Any questions, comments, additions ?

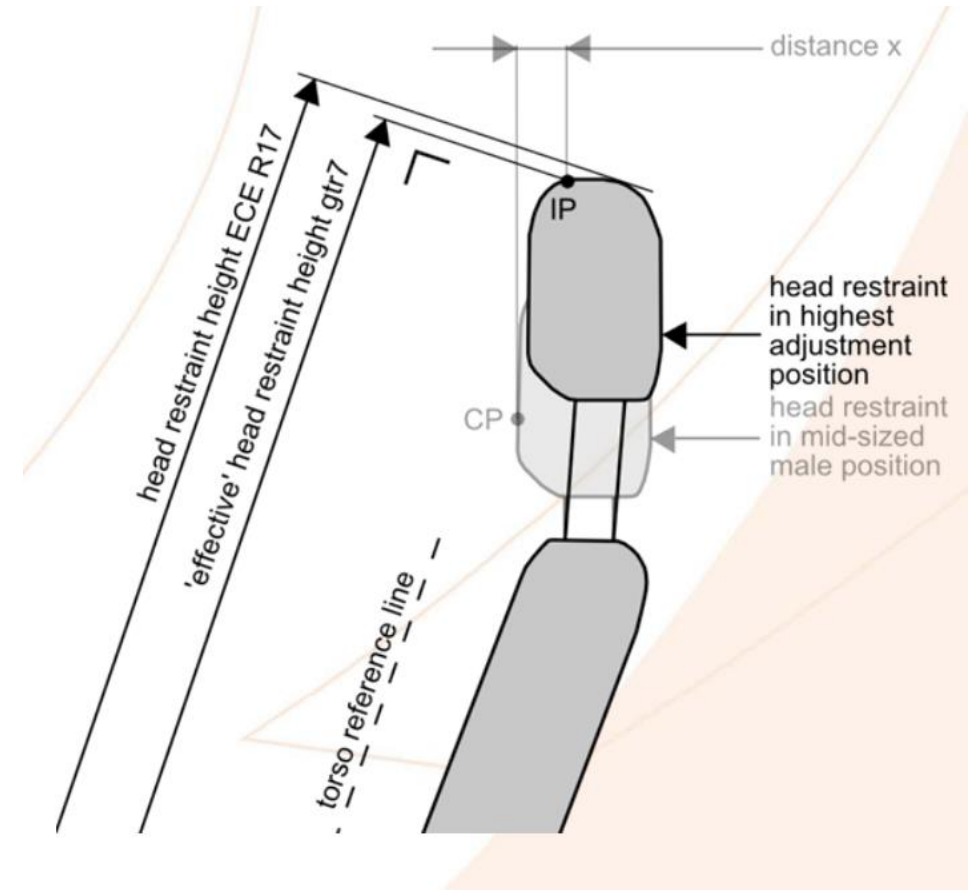
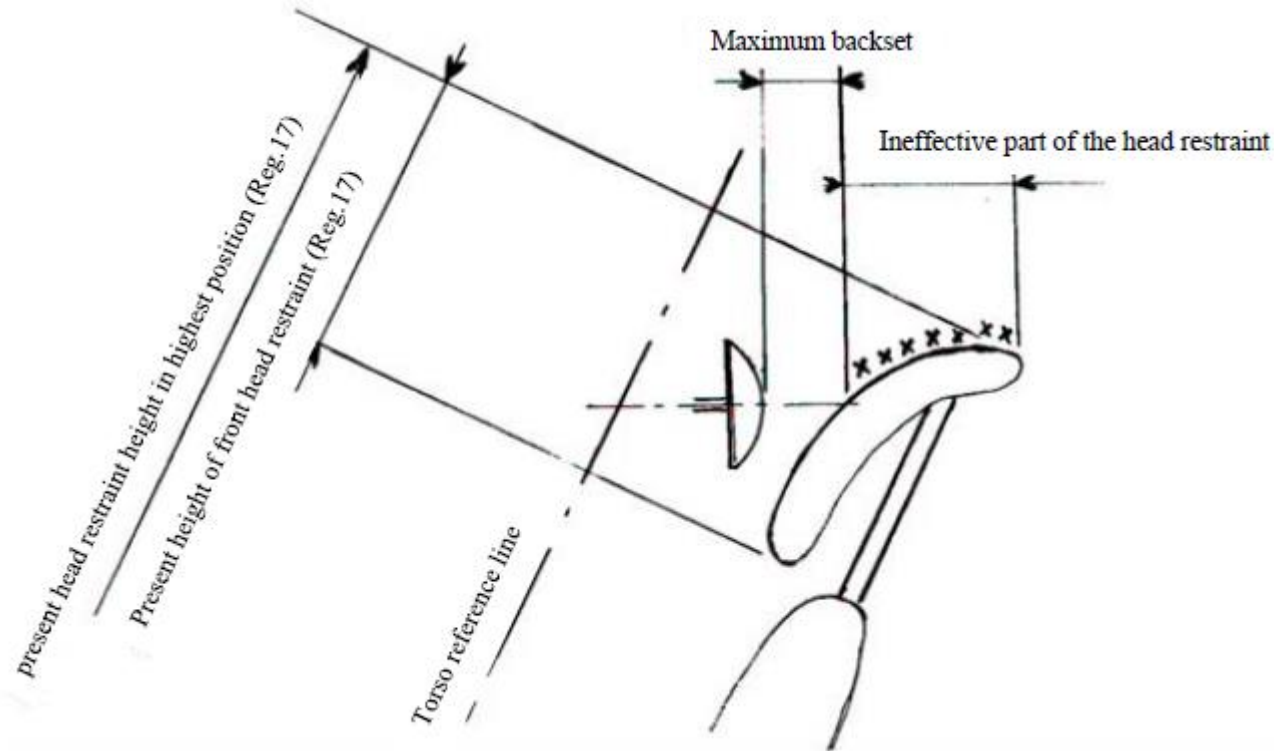
> Please interrupt !



Background UN R17.10

- › R17.10 derived from GTR-7 phase 2
- › GTR-7 phase 2 (amendment 1)
 - introduction of BioRID II
 - procedure for defining the **effective** height of a HR (versus maximum height in the original version)
- › Overview of the work done: see [GRSP-65-31](#)

Ineffective height => effective height



Maximum displacement

UN R17.10

- Displaced torso reference line (DTRL).
- D2 is measured relative to this line.
- This line represents 0 mm.
- D2 requirement < 102 mm past the DTRL.
- If 373 Nm is reached prior to crossing this line, then D2 will be negative.



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- > Displacement of the back of the head versus displaced torso reference line (DTRL) ≤ 102 mm
- > **Possible issues:**
 - width of centre piece in case of testing 3 seats in a row
 - displacement is done from ip -65 mm (unless in case of gaps). Sometimes other positions may result in worse result.
- 373 Nm moment applied about SRP
- > Choice of manufacturer for dynamic test using 50m BioRID II dummy.
- > **Possible issues:**
 - Cherry picking
 - only 50% male
 - misadjustment of HR in real life

Thank you

Any questions, ideas ?

