Technical perfection, automotive passion

Informal document **GRSP-49-33** (49th GRSP, 16 - 20 May 2011, agenda item 11)



ECE 17 – draft proposal

Ines Levallois

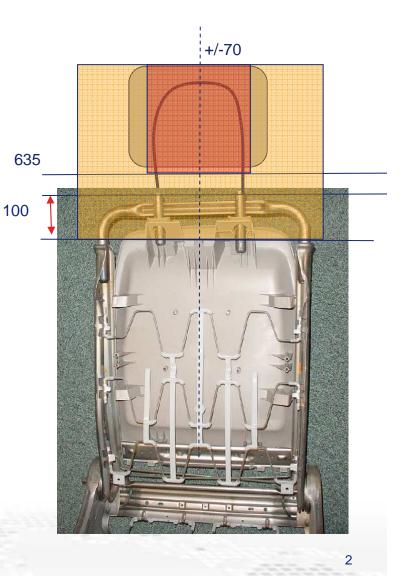
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Detachable head restraint

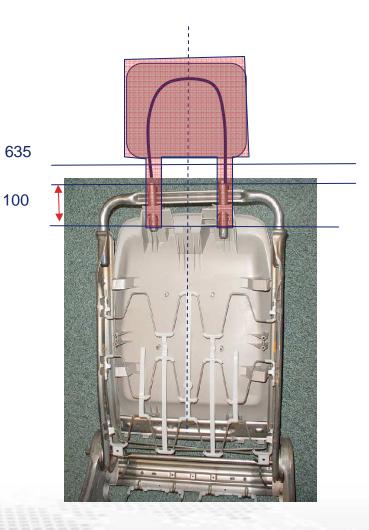
 Requirement : Head restraint parts situated in zone 1 (red) or 2 (orange) must meet radius requirements from the front



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Detachable head restraint

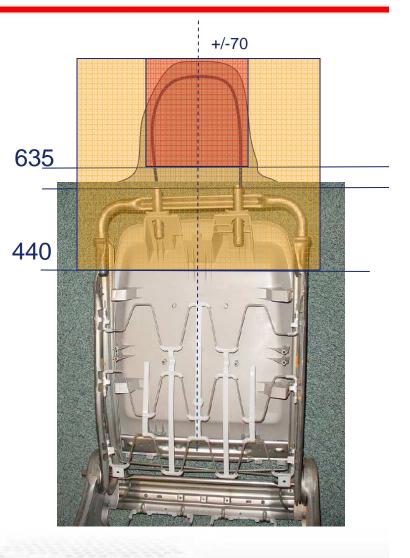
- Which head restraint parts are taken ?
- -> Application : Only head restraint fixations ¹ and inserts are used to verify the radius from the front (parts over 50 Shore A)



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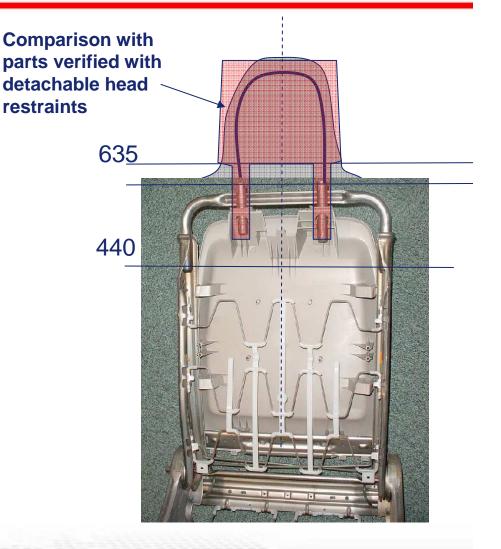
Integrated head restraints

- Head restraint parts situated in zone 1 (red) or 2 (orange) must meet radius requirements from the front
- -> Problem : it is not clear which parts of the seat are part of the integral head restraint



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- Integrated head restraints
 - Problem : what is a part of the integral head restraint ?
 - The seat structure parts did not change, only the foam volume was altered -> therefore the area where the radius are checked shall not differ significantly from seats with detachable head restraints

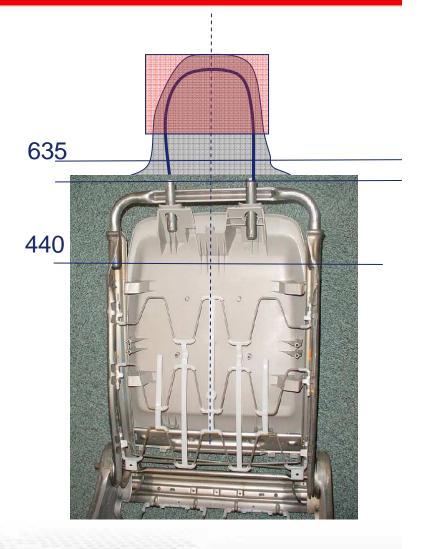


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Integrated head restraints

- Problem : what is a part of the integral head restraint ?
- Alternative 1 : definition of GTR 7 : any seat trim over 700mm and within +/- 85mm

this area is smaller than the area of detachable head restraints and therefore not appropriate

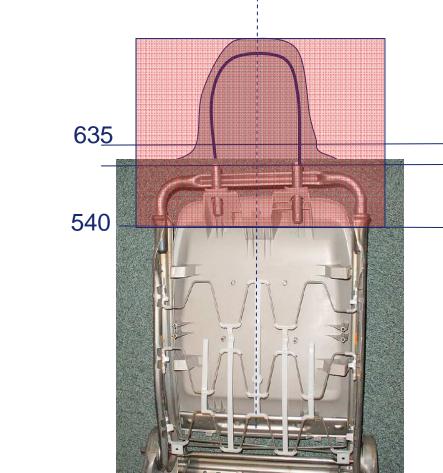


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Integrated head restraints

- Problem : what is a part of the integral head restraint ?
- Alternative 2 : any part over 540mm (mentioned for gap and luggage crash test application)

this area would define that plastic covers and the whole width of the seat structure is a head restraint -> no need to have a bigger area than normal head restraints



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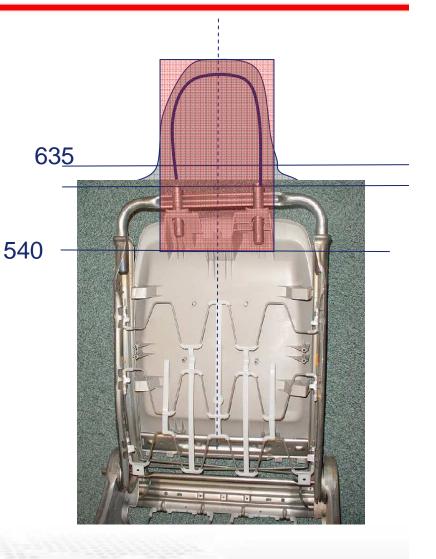
Automotive Seating

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Integrated head restraints

- Problem : what is a part of the integral head restraint ?
- Alternative 3 : compromise of 1 and 2 :

for integral head restraints the limit is a line at 540mm perpendicular to the torso line within +/- 85mm.

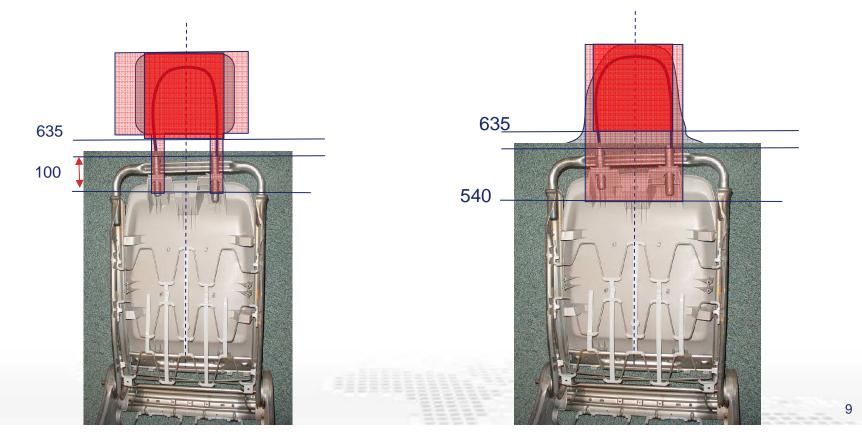


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Conclusion

Alternative 3 is the best compromise to define the area where radius apply from the front to integrated head restraints and which avoids to penalize such restraints

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