

ISOFIX CRS volume envelope B1 Vehicle Fit

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Background

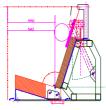
- The ISO 13216-3 volumetric devices generate a condition that effectively reduces the head excursion space available
- A proposal for revision to the rear surface has been accepted by ISO WG1 (as an additional device)
- GRSP requested that data be supplied on vehicle fit of proposed device
- Installation checking in hand 97% completed



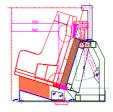
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Reason for revision

Comparison ISOFIX CRS F3 with Standard CRS Forward Facing and new Proposal







Left hand figure shows head position spaced from cushion surface by required energy absorption material giving 547 mm of excursion space, centre figure shows forward head position generated by current rear surface including EA material reducing excursion space to 515 mm, right hand view shows the CLEPA proposal that regains head excursion space.



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Method

- Data used German sales by manufacturer and model (KBA December 2002)
- ISOFIX capable vehicle models identified
- Volumetric device checked for fit & photographed
- Analysis of results



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Findings

- As at end 2002 approximately 66% (by volume) of vehicles sold in Germany were ISOFIX capable – either initial fit/optional/retrofit
- Of ISOFIX capable vehicles so far checked the CLEPA proposed device fits approximately 94% of market volume



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Findings

- Of 63 models checked
 - B1 fits 36 without adjustment to head restraint
 - B1 fits 23 with adjustment to or removal of the head restraint (similar to requirement for good fit of non ISOFIX CRS)
 - B1 does not fit 4 models
- Still to be checked approximately 3 % of the ISOFIX equipped vehicles

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GRSP-Data envelope reduced height 2nd version Audi A2 model 2003



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GRSP-Data envelope reduced height 2nd version Audi A3 model 2003



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headrest must be removed: No

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GRSP-Data envelope reduced height 2nd version Audi A4 model 2003



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GRSP-Data envelope reduced height 2nd version Audi A6 model 2003



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GRSP-Data envelope reduced height 2nd version Audi A8 model 2003



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GRSP-Data envelope reduced height CLEPA Proposal

BMW 5 Series Touring 2003 (530i se)



fits: X

does not fit:

headrest must be removed: No

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GRSP-Data envelope reduced height CLEPA Proposal BMW X5 2003



headrest must be removed: No does not fit:

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GRSP-Data envelope reduced height 2nd version Chrysler Jeep Cherokee model 2003



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GRSP-Data envelope reduced height 2nd version Chrysler PT Cruiser model 2003



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GRSP-Data envelope reduced height 2nd version Chrysler Voyager model 2003



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GRSP-Data envelope reduced height 2nd version Ford Fiesta model 2003

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headrest must be removed: No

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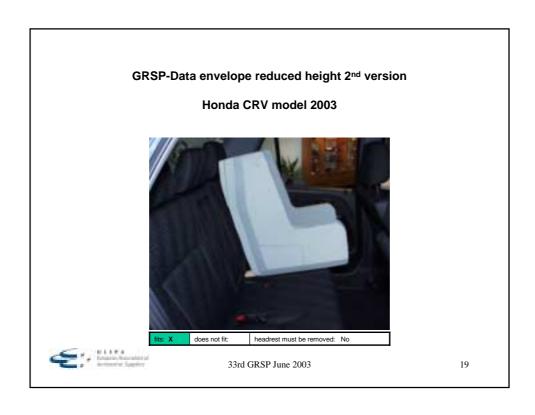
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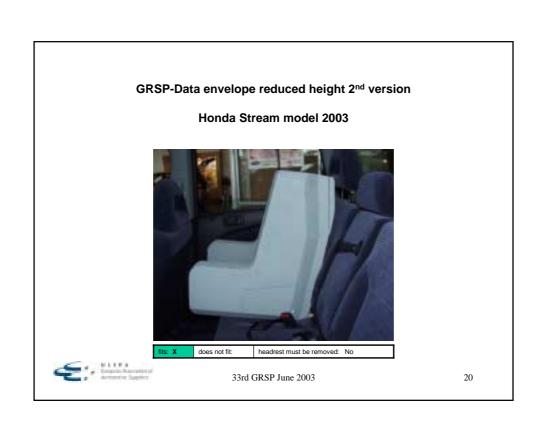
GRSP-Data envelope reduced height 2nd version Honda Jazz model 2003



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GRSP-Data envelope reduced height 2nd version Honda Civic model 2003

Company Assessed of Section 1

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headrest must be removed: No

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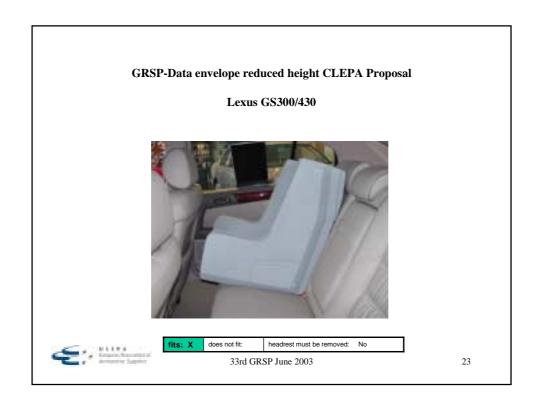
GRSP-Data envelope reduced height CLEPA Proposal Lexus LS430



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GRSP-Data envelope reduced height 2nd version Mazda 323F model 2003



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GRSP-Data envelope reduced height 2nd version Mazda Tribute model 2003



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GRSP-Data envelope reduced height 2nd version Mercedes A-Klasse model 2003



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GRSP-Data envelope reduced height 2nd version Mercedes C-Klasse model 2003

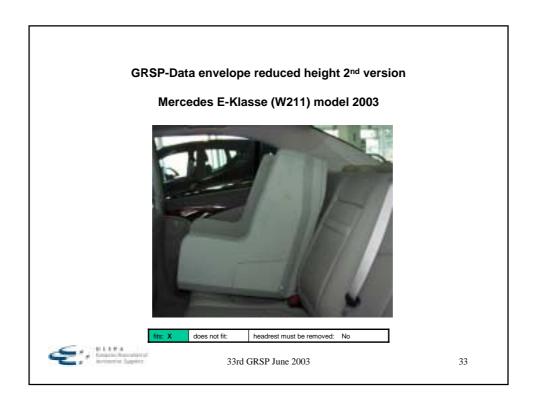


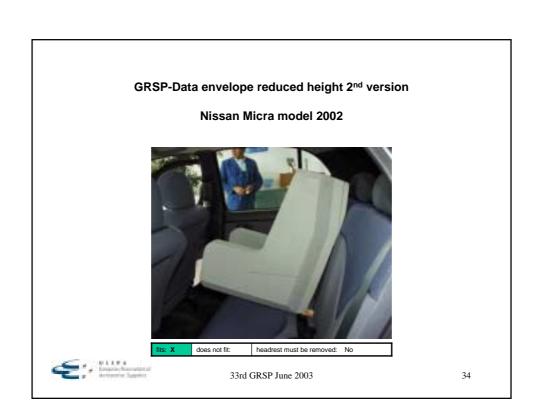
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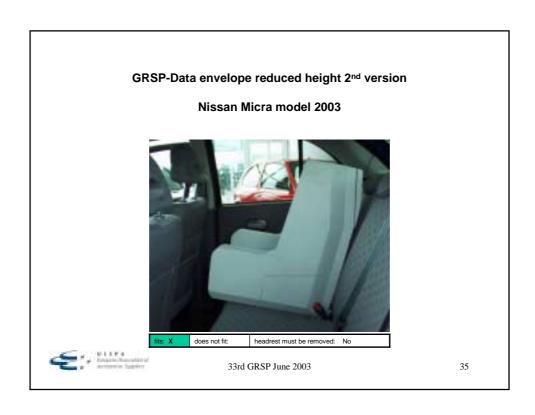
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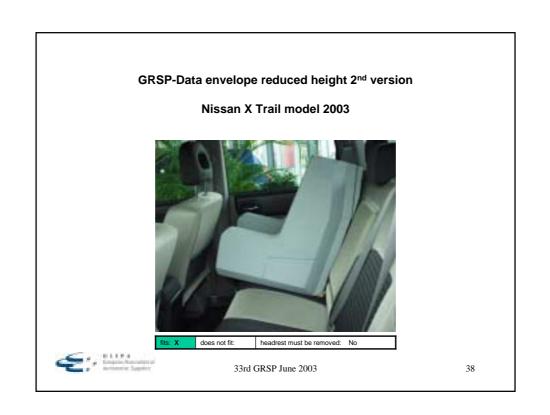


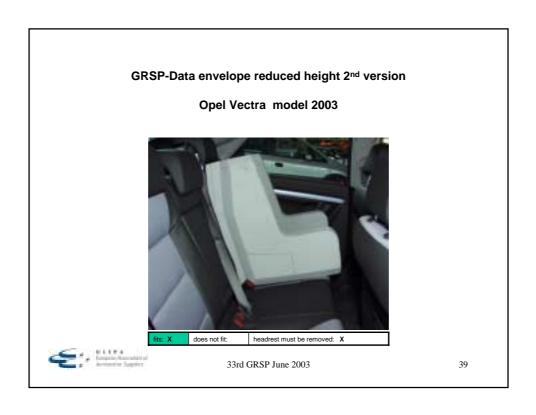


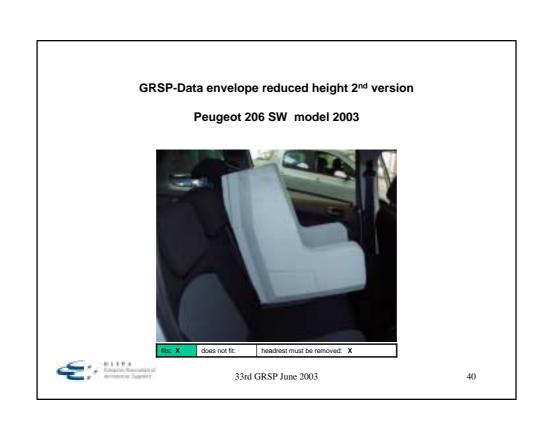




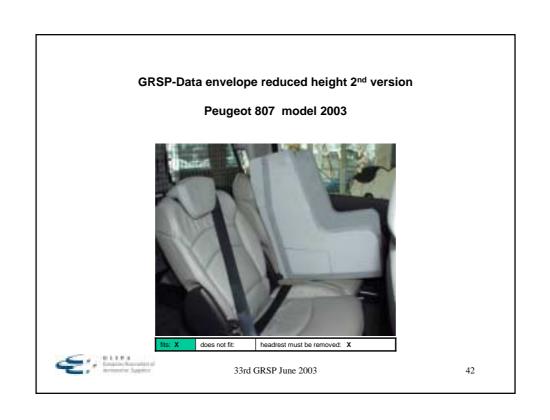






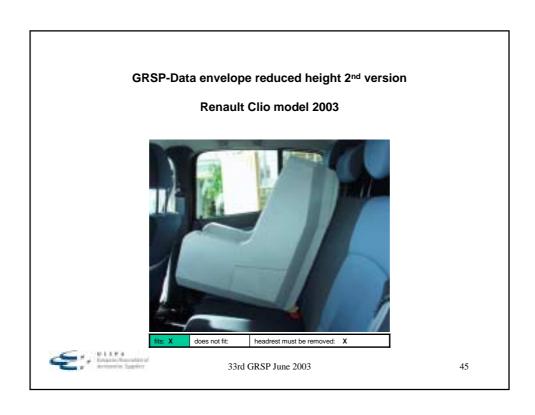


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GRSP-Data envelope reduced height 2nd version Renault Scenic model 2003



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GRSP-Data envelope reduced height 2nd version Renault Twingo model 2003



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GRSP-Data envelope reduced height 2nd version Renault Kangoo model 2003



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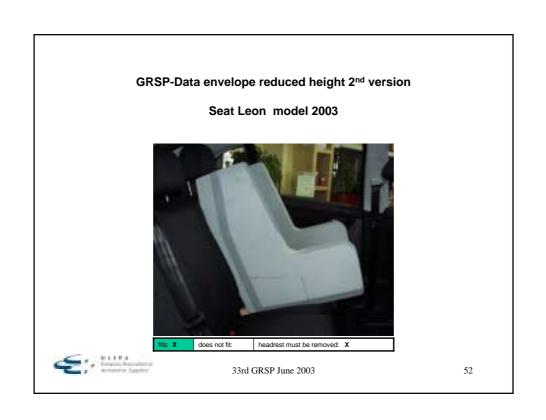
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GRSP-Data envelope reduced height 2nd version Renault Laguna model 2003



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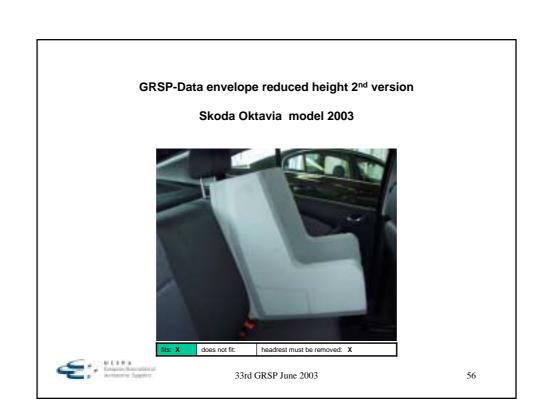
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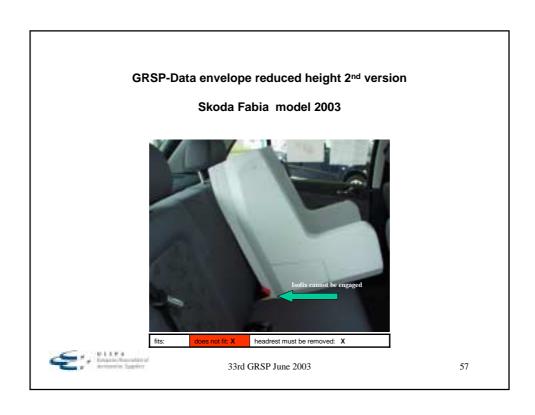


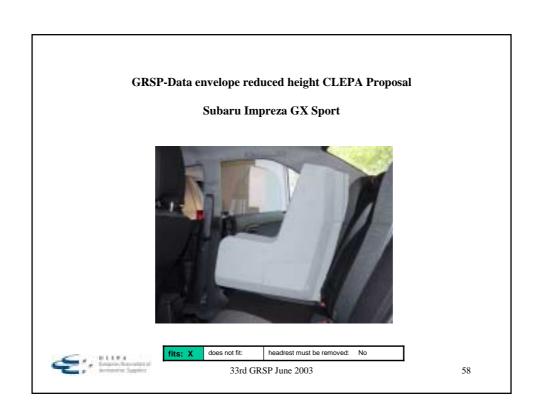




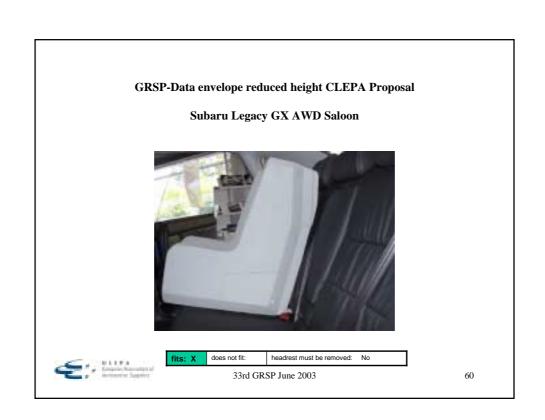






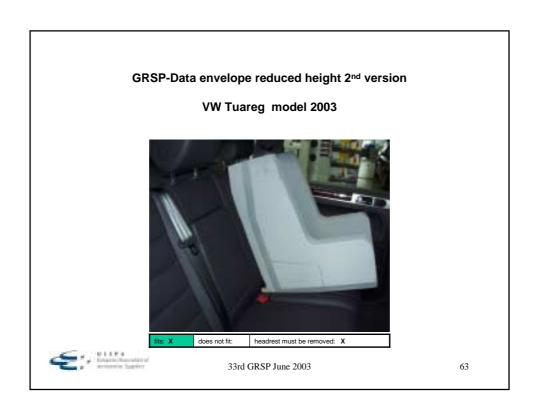






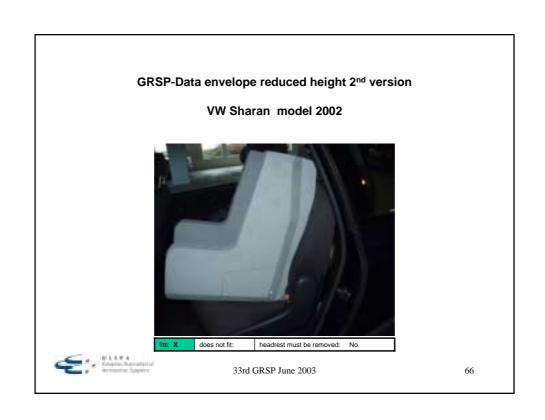


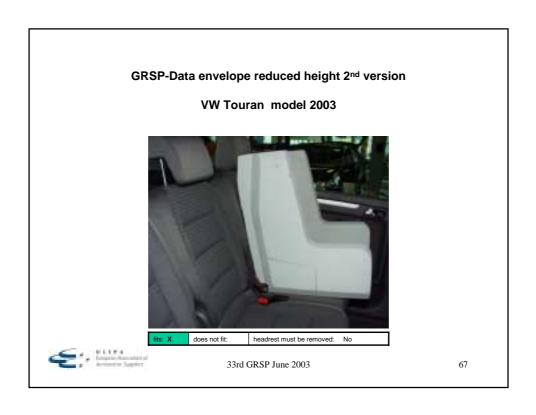














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