

OICA – vehicles geometry with regard to boosters

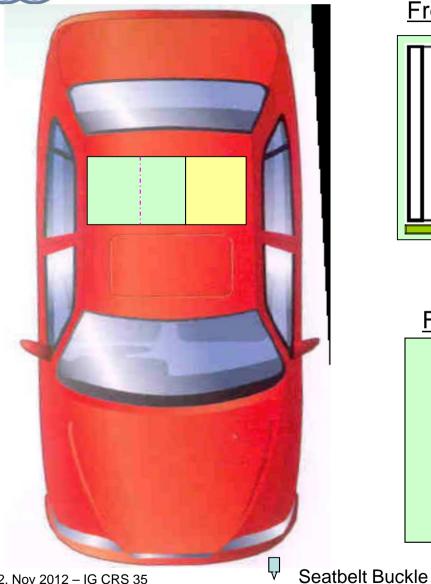
IG CRS no 35



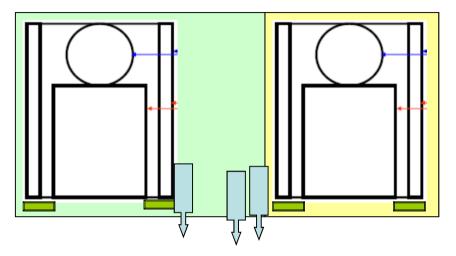
1/ 2 approaches regarding the relative position of ISOFIX lower anchorages with regard to the buckles

- 1.1. Extreme relative positions (JAMA)
- 1.2. Statistical clouds (ISO doc)

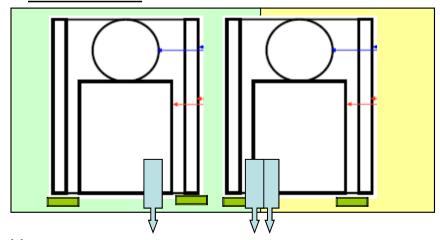
1.1. Scheme of two possible ISOFIX seating positions



Front View of rear bench- Vehicle A-2



Front View of rear bench- Vehicle A-1



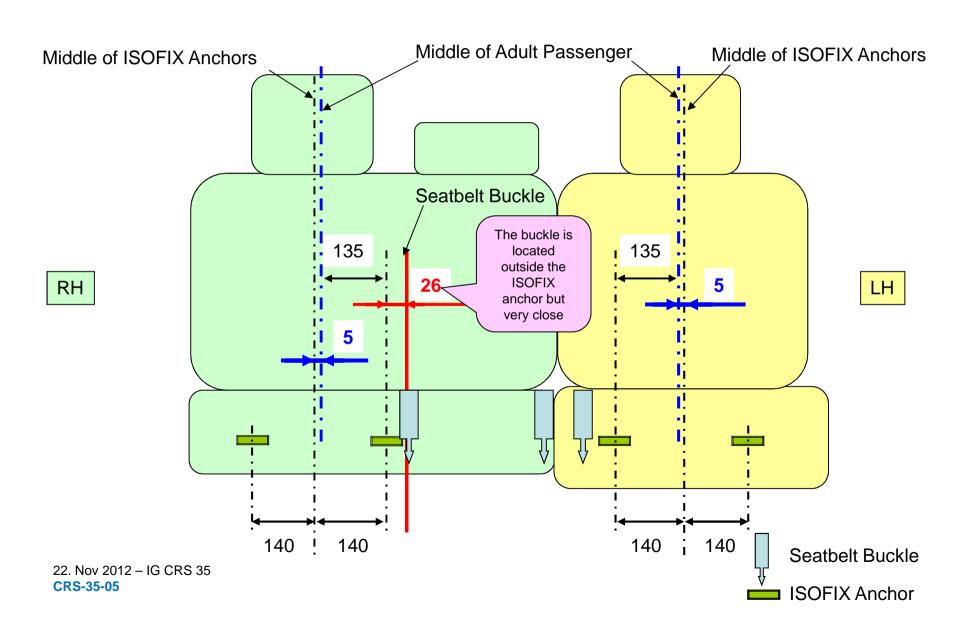
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ISOFIX Anchor

JAMA Research for ISO-FIX CRS Anchors and Adult Seating Positions

Front View rear bench- Vehicle A-2

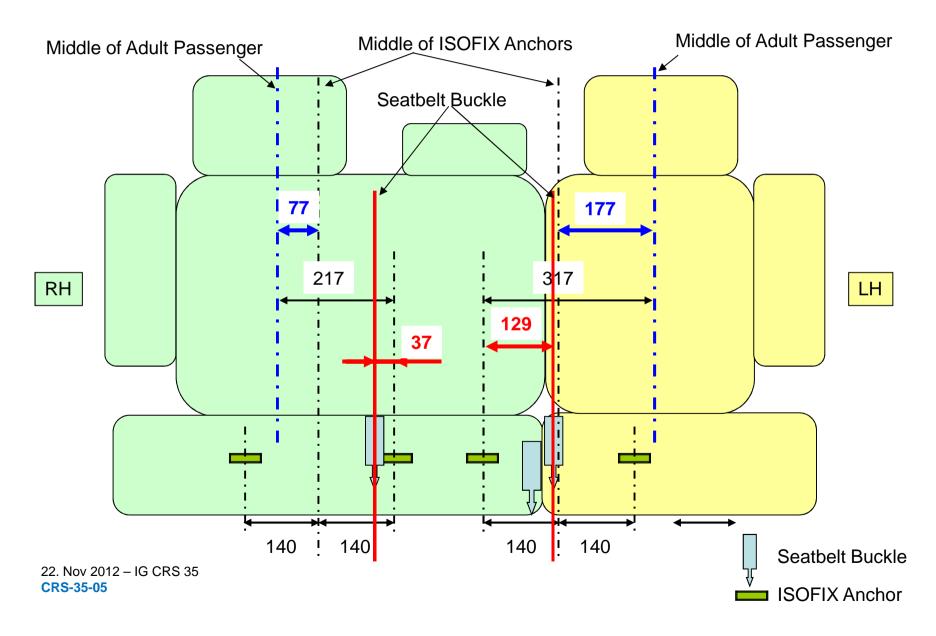
OICA TO





JAMA Research for ISO-FIX CRS Anchors and Adult Seating Positions

Front View rear bench- Vehicle A-1





1.2. Explanation of the next ISO slide synthesis

Following synthesis is extracted from ISO/TC 22/SC 12/WG 1 (courtesy of S Weber- Audi)

⇒ N914 CASPER TUB analysis of car measurements for ISO TF Compatibility (H Johanssen).

- Focus on rear seat as data on front seat ISOFIX is limited
- Left and right rear seat often different in the same car=> Results for both included in graph

Assessed Cars



Alfa: 159, MiTo

Audi: A3, A4, A6

BMW: 1, 3, 5 (E70), Mini, X3, X5

Chevrolet: Matiz

Citroen: C1, C2, C3, C3 Picasso, C4, C4 Picass

Dacia: Logan, Sandero

• FIAT: 500, Bravo, Croma, Panda, Punto, Sedici,

· Ford: Fiesta. Mondeo

· Kia: Picanto

Honda Civic

Lancia: Delta

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Mazda: 6

· Nissan: Micra, Qashqai

 Opel: Agila, Astra H, Corsa, Insignia, Meriva, Zafira

Assessed Cars (continued)

Peugeot: 207, 308

· Renault: Clio, Megane, Modus, Scenic, Twingo

SEAT: Altea, Ibiza

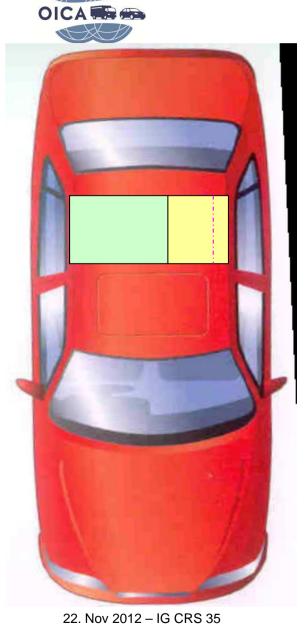
· Skoda: Fabia, Octavia, Roomster

Suzuki: Swift

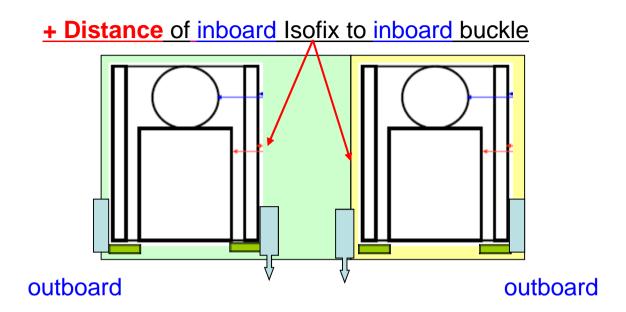
Toyota: Auris, Aygo, Rav4, Yaris

 VW: Caddy, Golf, Passat, Polo, Tiguan, Touran

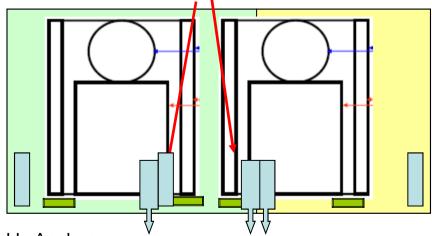
Explanation of the next ISO slide synthesis



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Negative distance of inboard Isofix to inboard buckle



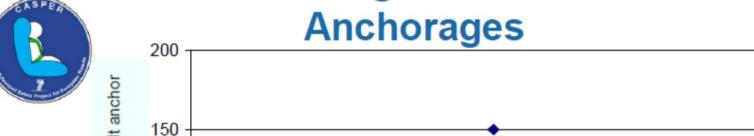
Seatbelt Buckle Anchor

ISOFIX Anchor



ISO TF4 compatibility group

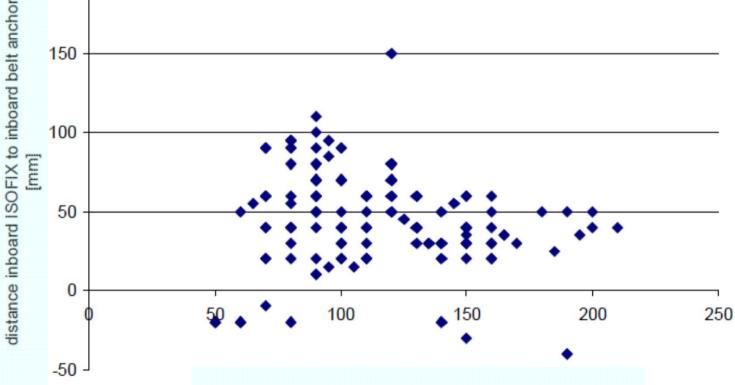
ISOFIX Anchorage Position w.r.t Belt



Ne So there

SOI





distance outboard ISOFIX to outboard belt anchor [mm]



Conclusion regarding isofix position with regard to seat belt buckle anchors

Result of the ISO/CASPER work:

- ⇒Statistics show around 200mm dispersion
- ⇒The inner isofix anchorage overlaps sometimes the corresponding buckle (negative distance), which forbids the « mixed isofix + seatbelt boosters ».

Result of the JAMA research:

- ⇒This overlap can reach until 129mm.
- ⇒Even without overlap, proximity with buckle shall be adressed.



2/ Gabarit work in progress:

ISO (Dorel modified) 135 gabarit still interferes in the lower area with the buckles:

- ⇒OICA will propose a modified lower area in order to better accommodate the buckles.
 - => next IG (January 2013)



3/ Phase 2& 3 philosophy draft written by the Chairman during the last IG meeting

- ⇒ pros/cons in terms of number of available cars /seating positions
 - **4**OICA suggestion: i-size seating position = only phase 1 constraints
 - **Universal Boosters = seat-belted without isofix**

+ Misuse solved for phase 1 CRSs with a maximum of	_
compatible cars	