Short Report

GTR No. 7 Workshop
on 26th of March
@BASt, Bergisch Gladbach

Bernd Lorenz (BASt)

18th of April 2013
14th BioRID TEG WebEx

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Draft AGENDA

1. Welcome (Chair)
2. Approval of Agenda (All)
3. Information/Discussion/Practise
    - Intention/Goal of the workshop
        - Common try out of the draft measurement procedure
        - Comparison/influence of different SAE 3DH-manikins (GLORIA, DILEMMA, Standard)
        - seating of the BioRID w/o the use of OSCAR (back-set)
4. Preparation for the GTR No. 7 meeting in April in Paris
        - Review/Drafting of (new) text in related annexes
5. AOB
6. Summary of meeting/actions (Chair)
7. Next Meeting(s)
    - BioRID TEG WebEx: 18th of April 2013
    - GTR No. 7 Meeting: 23rd/24th of April, Paris

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Participants

Teilnehmerliste GTR No. 7 Workshop

am 26.03.2013 in Raum 7.129 (FTVA-Neubau Raum 1)

(Stand: 25.03.2013)

	Name	Verband/Firma/Behörde	Land	Unterschrift
1	Bernd Lorenz	BASt	D	
2	James Abraham	Ford	GB	
3	Hans Ammerlaan	RDW	NL	
4	Myriam Constant	PSA Peugeot Citroen	F	
5	Markus Drosdzol	Opel	D	
6	Markus Hartlieb	Daimler	D	
7	Ines Levallios	Faurecia	F	
8	Dr. Sven Rathmann	VW	D	
9	Tobias Lingner	BASt	D	
10	Peter Davis	Society of Motor Manufact. and Traders Ltd.	GB	
11	Ulrich Wörner	Mercedes Benz	D	
12	Manfred Zube	Johnson Controls	D	
13	Thomas Bönniger	Johnson Controls	D	
14	Jan Basilautzkis	Faurecia	F	
15	Yoshiji Kadotani	Honda	J	
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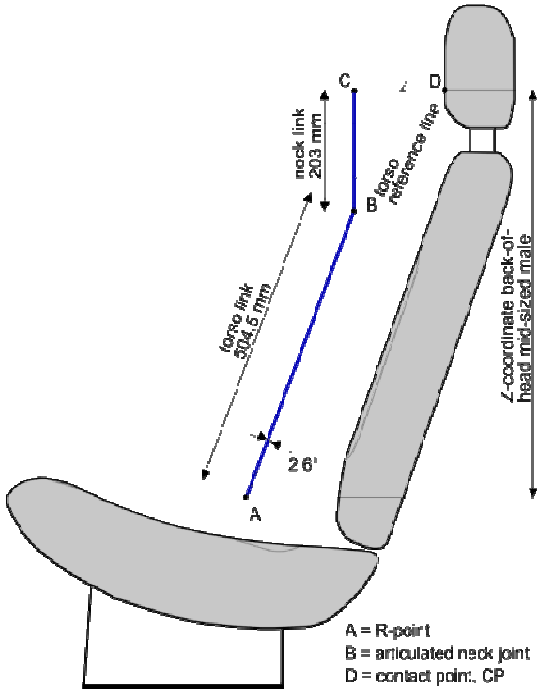
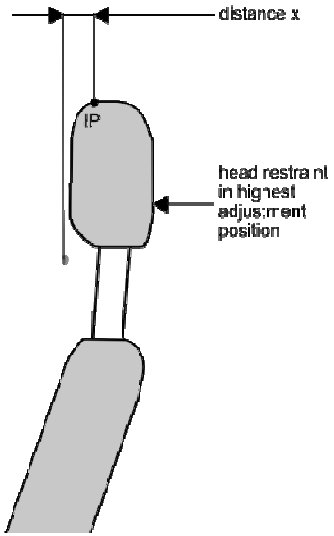
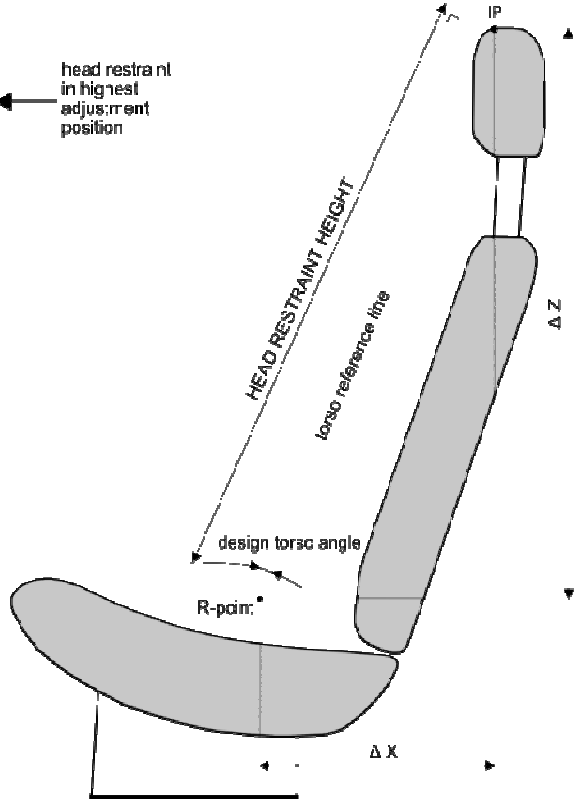






CP: contact point
IP: intersection point
Distance x: function of design torso angle

Test procedure for effective head restraint height I

The Torso & Neck Link concept expressed in goniometric formulas

With head restraint set in mid-sized position,

the measuring of Contact Point CP:

Available are:

- the coordinates of the R-point,
- A design torso angle, and
- dimensions of a mid-sized Torso & Neck Link.

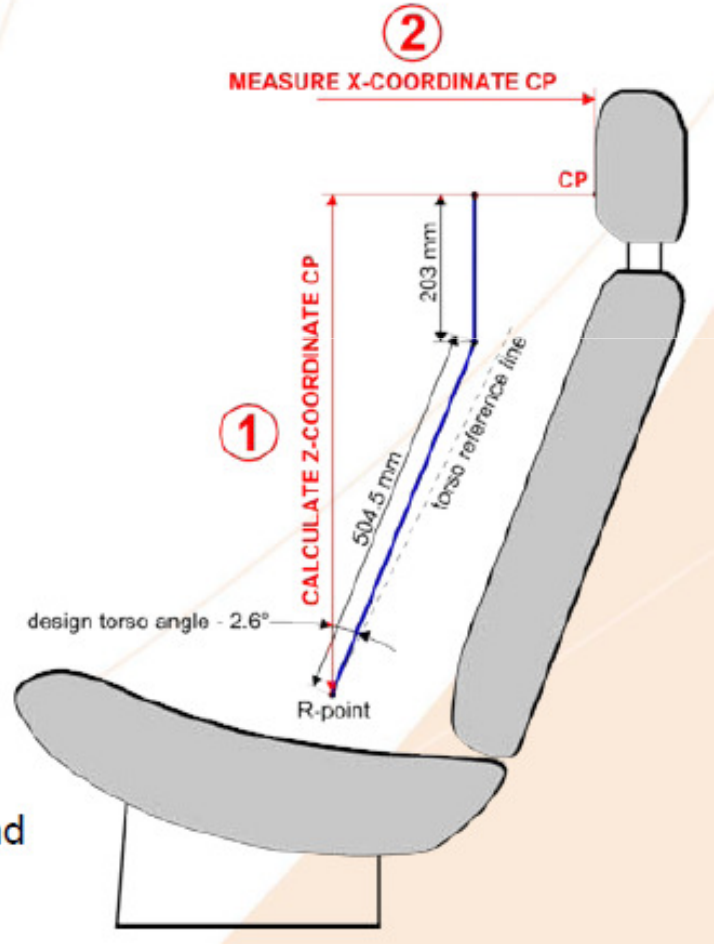
Needed actions:

1) calculate Z-coordinate CP =

504.5 * COS(design torso angle – 2.6º) + 203

(instead of calculation, a table will be provided),

2) mark this point on the head restraint surface and measure X-coordinate CP.



Source: GTR7-08-03e.pdf (Hans Ammerlaan, RDW)

Test procedure for effective head restraint height I

The Torso & Neck Link concept expressed in goniometric formulas

With head restraint set in its highest position,

the measuring of Intersection Point IP:

Available are:

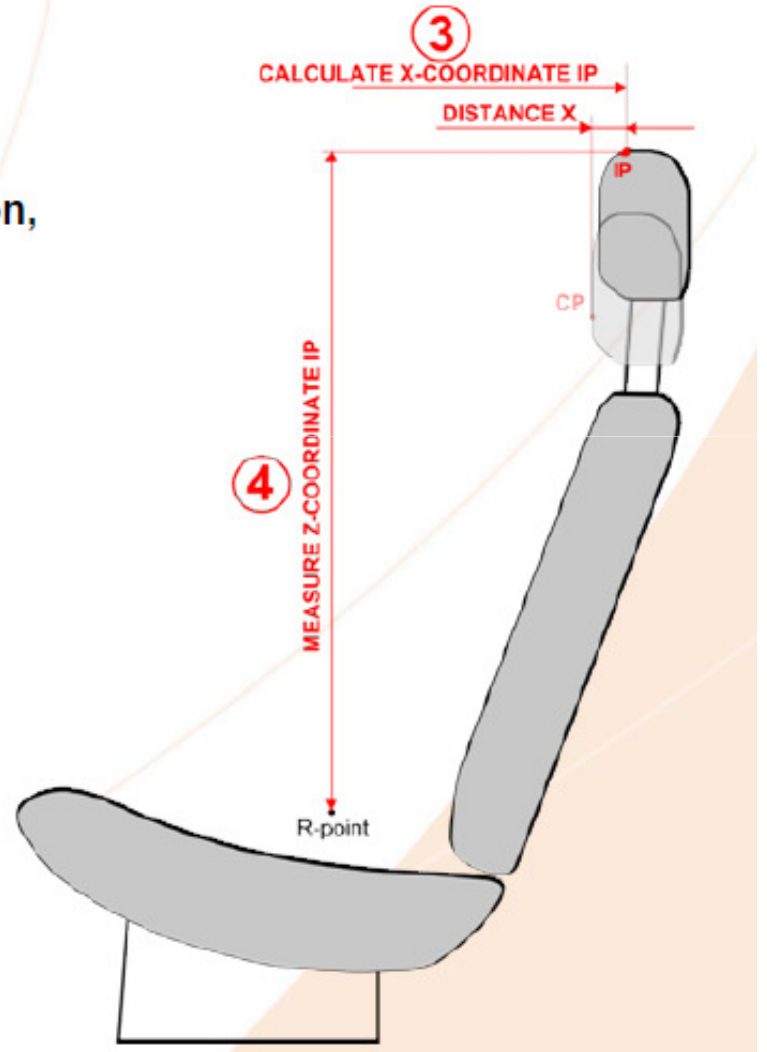
- The table providing also “distance X”

Needed actions:

3) calculate X-coordinate IP =

Measured X-coordinate CP + “distance x”,

4) mark this point on the HR and measure Z-coordinate IP.



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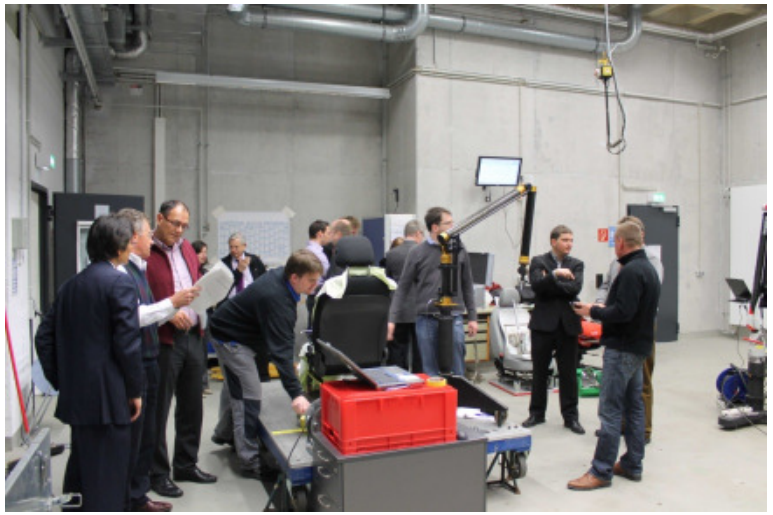
Impressions I



Fotos: B. Lorenz

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Impressions II

Fotos: B. Lorenz

Conclusion

- Concept worked and was agreed
- New text for GTR proposed
- Concept works for backset, too

-> HRMD no longer needed for static assessment

-> further investigations needed whether concept can be used for BioRID positioning, also!

Thank you for your attention!

Bernd Lorenz
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