



PSI-01-18

WorldSID Positioning

Sub-Committee Update

GTR working group meeting
November 17, 2010
Bonn, Germany

Current Seating Procedures

▶ EuroSID

- Not compatible with WorldSID

▶ UMTRI / IIHS

- Recommended by the WorldSID Task Group
- Representative of field experience
- Time consuming
- Difficult to manipulate dummy to match required H-point
- May not be compatible with preliminary design (modeling)



Objective

To develop a seating procedure that is specific to the WorldSID family of dummies

- **Adaptable to regulatory requirements**
- **Applicable to all stages of vehicle design**
- **Efficient, repeatable, intuitive**



Proposed Elements

Resolved

1. Fixed pre-designated location
2. Vertical seat set to lowest height
3. Seat adjustments: cushion angle set to mid, lumbar support retracted
4. Apply a 20 mm correction factor to SAE H-point
5. Foot placement
6. Arm placement



Proposed Elements

To be resolved

1. Seat back angle

- As recommended by the manufacturer; or
- Default value

As measured by SAE machine

2. Dummy recline angle & position

- Calculated head-thorax angle;
- WorldSID head and thorax tilt sensors;
- Rely on seat back angle as originally positioned.



Next Steps

1. Workshop
 - To finalize draft procedure;
2. Inclusion of the seating procedure in ISO 15830





ISO

Revision of all 4 parts of ISO 15830 are 99% complete.

- 1) Adding a table summarizing dummy component mass and geometrical measurements to part 4
- 2) Reviewing all sections to update information regarding the types of connectors currently being used
- 3) Incorporating some editorial changes noted during a document review by GM
- 4) Correcting a few misc typo's etc.

Once these changes are complete the document will be ready for final review and then balloting by ISO upper committees

