Proposal to amend gtr7 annex4

Backset measurment test procedure using HRMD method

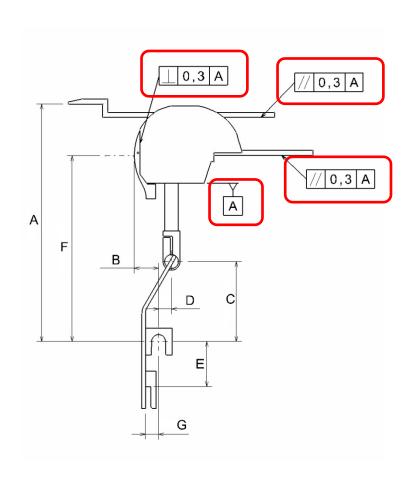
CLEPA/OICA Proposal 19th march 2012 GTR7 phase II inf

- currently HRMD in combination with HPM described as one method to measure backset
- original HPM based on specification on SAE J826 and developed to measure H-points (seat adjustment and dummy positioning)
- HRMD headform tool developed by ICBC to measure the backset

- current text in gtr 7 annex 4:
 - dimensions of HRMD described in table of figure 4-1, but tolerances missing
 - dimensions (including tolerances) of HPM in combination with HRMD missing
- reliable test tools guarantee reproducible and repeatable test results
- acumulating of tolerances shall be avoided
- tolerances of test tool must be smaller than tolerances for backset criteria

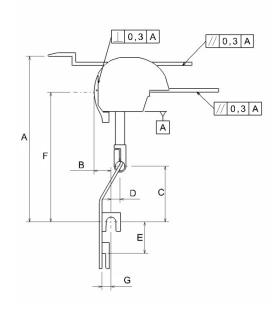
Proposal:

1. Definition of general tolerances for the test tool



Proposal:

2. Definition of tolerances for relevant dimensions



		Dimension	Tolerance
Α	Distance between weight hangers and Z-probe	441.0 mm	[±0.5 mm]
В	Distance between weight hangers and backset probe	48.0 mm	[±0.3 mm]
С	Distance between weight hangers and HRMD axis in Z	148.0 mm	[±0.5 mm]
D	Distance between weight hangers and HRMD axis in X	23.0 mm	[±0.3 mm]
E	maximal distance of weight hanger adapter to HPM hook	< 101.5 mm	
F	Distance between the apex of X-probe and the H-Point axis	333.5 mm	[±0.5 mm]
G	Distance between weight hangers and contact surface	25.0 mm	[±0.3 mm]

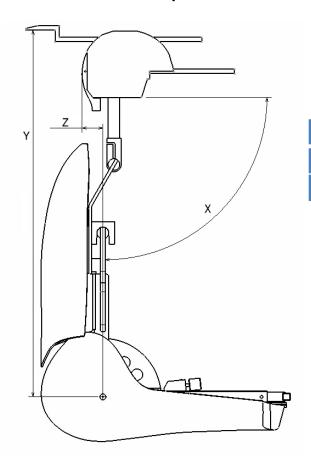
Proposal:

3. Definition of whole mass of HRMD including probes

The mass of the HRMD including the probes will be 8300 g \pm 50g. Each single ballast weights shall have a mass of 4800 g \pm 10 g.

Proposal:

4. Definition of relevant dimensions for combination of HRMD and HPM (due to task of backset measurement)



Condition: X adjusted at 90°		Dimension	Tolerance
Υ	Distance between Z-probe and H-Point axis	797.4 mm	[±1.5 mm]
Z	Distance between backset probe and H-Point axis	48.0 mm	[±0.3 mm]

General:

- Dimension inclusive tolerances have to be checked by OEM, suppliers and technical services
- Existing proposal could be used for finalisation in IG on Head Restraints
- •Further comments are welcome