

Japan Comments on Scope of TF-DBS Discussion

UNECE GRSP Task Force
Deployable Bonnet Systems for Pedestrian Safety
1st meeting, 7 – 8 Feb. 2017

Japan Automobile Standards Internationalization Center (JASIC)

General Comments

- The current test procedure for deployable systems specified in UN GTR No.9 and UN Regulation No.127 is too vague to provide consistent testing
- This brings up a need for a more specific test procedure, especially in CPs using self-certification
- Complete clarifications of all issues involved would require a significant amount of time to conclude the discussion
 - ✓ A need for a tool representing a whole body of a pedestrian, not impactors
 - ✓ Consideration of all impact scenarios from the combinations of different pedestrian sizes and the performance of the system



As the first step, it is recommended that the scope of the TF-DBS discussion includes issues that can be concluded within the time frame proposed by the Republic of Korea

Specific Comments

- Deployable systems to be addressed:
 - The test procedure should address all deployable systems (not limited to deployable bonnet), considering the adoption of other deployable systems, including an airbag system, in recent production vehicles
- Test area:
 - The headform test area should be the same as that specified for testing in an un-deployed state to avoid an influence on vehicles that are not equipped with deployable systems
- Test speed:
 - ✓ The headform test for deployable systems should be conducted at the same as speed as that specified for testing in an un-deployed state to avoid an influence on vehicles that are not equipped with active devices
 - ✓ However, the performance for head protection shall at least meet the same requirements at the speeds below the deployment threshold

Specific Comments (Cont'd.)

- Tools for calculation of the Head Impact Time (HIT):
 - ✓ It is necessary to somehow validate the tools (tools simulating a whole body of a pedestrian) since the tools are not specified in the current regulations
 - ✓ Validation procedure needs to be discussed by TF-DBS – specify some requirements or totally leave it to technical services

Comments on GRSP-58-31

- Deployable systems to be addressed:
 - ✓ GRSP-58-31 addresses deployable bonnet systems only – the test procedure should address other devices affecting the performance in the test area

- Test speed:
 - ✓ GRSP-58-31 specifies the headform test at 35 km/h only – a procedure should be included to confirm that the performance for head protection meets the same requirements at the speeds below the deployment threshold