

Proposal to amendment to ECE/TRANS/WP.29/2012/53 (a new Regulation on Child Restraints Systems)

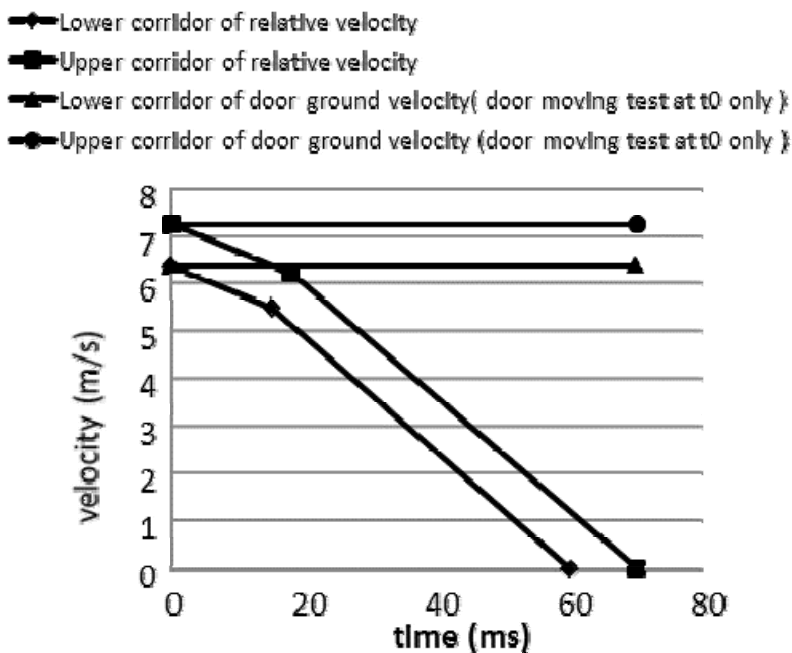
Note: The modifications to ECE/TRANS/WP.29/2012/53 are marked in bold and strikethrough characters.

I. Proposal

Paragraph 7.1.3.1.3.4., amend to read:

"7.1.3.1.3.4. The test rig shall reproduce a relative velocity between the door panel and the test bench in compliance with Annex 7 Appendix 3. The maximum intrusion depth of the door panel is defined in Annex 6 Appendix 3. The relative velocity between the door panel and the test bench shall not be affected by contact with the CRS and shall remain within the corridor defined in Annex 7, appendix 3. **In a test where the door is stationary at time t0, the door shall be fixed and the dummy's ground velocity at t0 shall be between [6.375 m/s] and [7.25 m/s]. In a test where the door is moving at t0, the door's ground velocity shall remain within the corridor defined in Annex 7, Appendix 3 at least until its intrusion reaches its maximum, and the dummy shall be stationary at t0.**"

Annex 7 Appendix 3 – Lateral impact, replace the figure with the following (with new test conditions added):



II. Justification

In ECE/TRANS/WP.29/2012/53, a relative velocity between door and seat is defined as the only test condition for lateral impact testing. Such test condition, however, would generate various situations where tests with different stringency levels are possible. For this reason, the new test conditions should be added so that only a single test situation will be generated and the stringency level will be the same between deceleration sled test and acceleration sled test.
