Proposal for a new Regulation on Child Restraint System

Submitted by the experts from France
Justification

• During its 142nd session WP29 agreed to the establishment by GRSP of the new informal group

• France wants to propose a frame work for this informal group
  – based on outputs coming from different organisations
  – consider the needs to improve Child Restraint Systems regulation
  – on the basis of a new set of performances.
PROPOSAL

1. Test bench
2. Classification of Child Restraint Systems
3. Dummies
4. Dynamic tests
5. Components tests
6. Labelling
7. Ease of Use / Misuse
8. Control Of Production
9. Interoperability with vehicle
10. Child comfort and health harmlessness
Test bench

- Representatives of cars
- Anchorages positions
- Retractor position
- Anti rotation anchorages
Classification of CRS

• Dimensions
• Weight
• Integral (ISOFIX) / Non integral
Dummies

- Q series
- Abdominal loading
- Vertical head/neck acceleration
Dynamic tests

• Multiple scenario
  – Frontal impact
  – Lateral impact
  – Rear impact

• Two types of tests (2 pulses)
  – Child seat mechanical robustness
  – Bio mechanical performances
Components tests

• Product durability
Labelling

- Content (information)
- Durability (tests)
Ease of Use / Misuse

- With criteria
  - CRS installation in vehicle
  - CRS adjustment for child retention

- Adjustable (permanently fitted) harness
Control Of Production
Interoperability with vehicle

• Components
  – Safety belts
  – Pre tensioners
  – Load limiters
  – Airbag

• Adult sitting position (space)
Child comfort and health harmlessness
DOCUMENTS

• EEVC WG18: Draft document to be validated by EEVC SC “LEGALISATION REVIEW ON CHILD PROTECTION & PROPOSAL OF POSSIBLE IMPROVEMENTS OF THE CURRENT EUROPEAN LEGISLATION”
• EEVC WG12: Documents N° 394, 493, 498 & 500
• CI: Documents ECE-TRANS-WP29-GRSP-41-inf17e&18e

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