A Proposal Related to the Establishment of a New Regulation for Category L

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I. Proposal

*R100 (electrical/battery safety standards for electric vehicles) is a standard based on the 4-wheel configuration.

*For uniform regulations covering categories M/N/L, adoption by individual countries and harmonization across the categories at revision is essential.

This may possibly cause delays especially between categories with substantially different structures or design concepts.

→ A separate regulation should be established for category L whose structures and safety concept are different from others. (See the other regulations for these categories below.)
### Justification

#### Electric shock/battery safety

- **Vehicle structure/size**: Passenger protection concept

Body Shell & Passenger Compartment

- **Sit-in**
- **Saddled**

- **Small size/light weight**

- **Portable Battery**
  - Direct Contact Requirement
  - Add Battery Drop Requirement

More freedom

- Passenger’s posture onboard
- Balancing required and less freedom

Passenger freedom → Protection Degree For Direct Contact
R100

Electric shock/battery safety

Vehicle structure/size
Passenger protection concept

Helmet
Gloves
Boots

Long Sleeves

Right Wearing!

Seat Belt
Air Bag

Passenger Compartment

No Body Shell & Passenger Compartment

Crushable Zone

Post-Crash Requirement

Component test only for category L
→ Mechanical Integrity
→ Mechanical Impact

Restraint ↔ Separate

No need to require the time to go out of the vehicle
→ Mechanical Integrity
→ Fire Resistance

Saddled

Helmet
Gloves
Boots

R???

Passenger protection concept

Body Shell

Passenger Compartment

Crushable Zone

Vehicle structure/size
Passenger protection concept

Component test only for category L
→ Mechanical Integrity
→ Mechanical Impact

Restraint ↔ Separate

No need to require the time to go out of the vehicle
→ Mechanical Integrity
→ Fire Resistance
With regard to the proposed addition of category L to R100, it is appropriate to establish a new regulation for category L separately from categories M/N because the former is different from the latter in terms of structure and safety concept.