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Safety-Belt Anchorages and Restraint Systems
Anchorages for Occupants of Power-Driven Vehicles
机动车乘员用安全带和约束系统安装固定点

(English Translation)

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Safety-Belt Anchorages and Restraint Systems Anchorages for Occupants of Power-Driven Vehicles

1 SCOPE

This document specifies the technical requirements for safety-belt anchorages and restraint systems anchorages for occupants of power-driven vehicles, and describes the test methods and the criteria for determination of one type.

This document is applicable to the following vehicles:

- Vehicles of categories M and N fitted with the anchorages for safety-belts intended for adult occupants of forward-facing, rearward-facing or side-facing seats;
- Vehicles of category M₁ fitted with the ISOFIX anchorages systems and their top tether anchorages intended for child restraint systems, and other categories of vehicles fitted with ISOFIX anchorages systems;
- Vehicles fitted with the i-Size seating positions.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

- GB 11551-2014 The protection of the occupants in the event of a frontal collision for motor vehicle
- GB 11552-2009 The interior fittings of passenger car
- GB 13057 Strength of seats and their anchorages of passenger vehicles
- GB 13094-2017 The safety requirements for bus construction
- GB 14166-2024 Safety-belts and restraint systems for occupants of power-driven vehicles
- GB 27887 Child restraint systems for power-driven vehicles
- GB/T 29120 Procedure for H-point and R-point Determination
- ISO 6487 Road vehicles - Measurement techniques in impact tests-Instrumentation

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB 14166-2024, GB 27887 and GB/T 29120, as well as the following apply.

3.1 belt anchorage

the parts of the vehicle structure or seat structure or other part of the vehicle to which the safety-belt assemblies are installed and secured

3.2 effective belt anchorage

the point used to determine the angle of each part of the safety-belt in relation to the wearer

Note: the point to which a strap would be attached to provide the same wearing state of the safety-belt as intendedly designed. Whether the effective belt anchorage serves as the actual belt anchorage mainly depends on the shape of the safety-belt metal joint at its attachment to the belt anchorage. For example:

- Where a strap guide is used on the vehicle structure or on the seat structure, the middle point of the guide at the place where the strap faces towards the wearer's side, shall be considered as the effective belt anchorage;
- Where the belt runs directly from the wearer to a retractor without an intervening strap guide, the effective belt anchorage shall be considered as being the intersection of the axis of the reel with the plane passing through the centerline of the strap on the reel.

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