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**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国汽车行业标准

QC/T 938-2013

**The test specification of protection for
pedestrians in the events of collisions**

汽车对行人的碰撞保护试验规程

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Foreword

This standard is drafted in accordance with the rules provided in GB/T 1.1—2009 “Directives for standardization—Part 1:Structure and drafting of standards”.

Technical contents of this standard match up GB/T 24550—2009 in use. “The protection of motor vehicle for pedestrians in the event of a collision”; zoning content adopts EU directive 631/2009 “Technical description for 78/2009/EC directive ‘On protection for pedestrians and vulnerable road users in the events of motor vehicle collisions’”. Main differences between this standard and the EUC directive include:

Only clause 3.3 in CHAPTER II of AISNEX II is used for division of lower legform impact points and clause 3.3 in CHAPTER III of ANNEX II is used for division of upper legform impact points. Clause 3.1.1 and clause 3.1.1 and clause 3.3 in CHAPTER VII of ANNEX II is used for division of headform impact points.

This standard is proposed by and under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

Drafter of this standard: China Automotive Technology & Research Center.

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The Test Specification of Protection for Pedestrians in the Events of Collisions

1 Scope

This standard specifies test method of protection for pedestrians in the events of collisions.

This standard applies to automobiles of class M1 that total mass is greater than 500kg, automobiles of class M2 that maximum design total mass is greater than 500kg but no greater than 4500kg and automobiles of class N that maximum design total mass is greater than 500kg but no greater than 4500kg, excluding automobiles of class M2 and class N that horizontal distance from R point of the driver's seat transverse vertical plane of front axle center is less than 1000mm.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 4780 Terms for motor vehicle body

GB/T 24550-2009 The protection of motor vehicle for pedestrians in the event of a collision

3 Terms and definitions

The ones defined in GB/T 4780 and GB/T 24550—2009 following terms and definitions apply to this standard.

3.1

Bumper test area

Front surface of bumper between two longitudinal vertical planes after two longitudinal vertical planes that go beyond the corner of bumper respectively move parallel 66mm inwardly.

3.2

Corner of bumper

Point of contact with vertical plane and vehicle that has an angle of 60° with longitudinal

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