

ICS 43.040.60

CCS T 26



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

GB 11550-2009

**Strength requirement and test of automobile seats head
restraints**

(English Translation)

Issued on: September 30, 2009

Implemented on: January 1, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

Table of Contents

Foreword...	3
1 Scope...	5
2 Normative references...	5
3 Terms and Definitions...	6
4 Requirements...	8
5 Test methods...	10
Annex A...	13
Annex B...	14
Annex C...	17
Annex D...	19
Annex E...	20

Foreword

All technical contents of this Standard are compulsory.

This Standard will replace GB 11550-1995 Motor vehicles - Seats head restraints - Performance requirement and test methods.

This Standard modifies and adopts Economic Commission for Europe's Regulations ECE R25 (Version 1, 1999) Uniform Provisions Concerning the Approval of Head Restraints (regardless whether it is integrated with seats) (English version).

This Standard has been redrafted according to ECE R25.Comparison schedule between chapter numbering of this Standard and Regulations ECE R25 is listed in Annex A.

Considering the situations of our country, when adopting ECE R25, there have been some changes in this Standard.

The main technical differences BETWEEN this Standard AND ECE R25, and the reasons are as follows.

- Delete Annex 3 "Procedure for Determining the 'H' Point and the Actual Torso Angle for Seating Positions in Motor Vehicles" of ECE R25.In this Standard, the

contents involved with this aspect shall be executed by referring to the contents of Annex C of newly issued national standard GB 11551-2003. This prevents the errors in practical operation caused by difference of verbiage in standard drafting.

- Delete Chapter 3 Application of approval, Chapter 4 Markings, Chapter 5 Approval, Chapter 8 Conformity of production, Chapter 9 Penalties for non-conformity of production, Chapter 10 Modification and extension of approval of a type of head restraint, Chapter 11 Instructions, Chapter 12 Production definitely discontinued, Chapter 13 Transitional provisions, Chapter 14 The contents - Names and addresses of certification department and administrative departments belong to "certification programs and certification mark". The reasons are caused by the form difference of standard system and legislative system.

Main differences between this Standard and GB 11550-1995 include.

- Add general requirements of head restraints (4.1 of this version);
- Add requirements of head restraints surface curvature (4.2 of this version);
- Add requirements of head restraints clearance dimension (4.6.2.2 and 4.6.3 of this version);
- Add test requirements of head restraints clearance dimension (5.5 and Annex E of this version);
- Add Annex C, which has specified the determination of head restraints height and the chart of width measurement;
- Add informative Annex A (see Annex A of this version).

Annex B, Annex C, Annex D and Annex E of this Standard are normative; Annex A is informative.

This Standard was proposed by National Development and Reform Committee.

This Standard shall be centralized by the National Automotive Standardization Technical Committee.

Drafting organization of this Standard. Technical Center of FAW Automotive Group

Corporation.

1 Scope

This Standard specifies terms and definitions, requirements and test method for automobile seats head restraints.¹

This Standard applies to seats head restraint of vehicles of categories M and N of GB/T 15089-2001.

This Standard does not apply to head restraint of folding, side-facing or rearward-facing seats.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, subsequent amendments (corrigenda excluded) or revisions of these publications do not apply. However, the parties who enter into agreement based on this Standard are encouraged to investigate the possibility of applying the latest edition of the standard. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 11551-2003 The protection of the occupants in the event of a frontal collision for passenger vehicle

GB 13057-2003 The strength of the seats and their anchorages of passenger vehicles

GB 15083-2006 Strength requirement and test of automobile seats, their anchorages and any head restraints

GB/T 15089-2001 Classification of power-driven vehicles and trailers

3 Terms and Definitions

For the purposes of this Standard, following terms and definitions apply.

3.1

vehicle type

Power-driven vehicles which do not differ in such essential respects as.

3.2

head restraint

A device whose function is to limit the rearward displacement of an adult occupant's head in relation to his torso in order to reduce the danger of injury to the cervical vertebrae of that occupant in the event of an accident.

3.3

type of seat

Seats which share same dimension, framework or pad. The surface and color can be different.

3.4

type of head restraint

Head restraints which share same dimension, framework or pad. The surface, color and panel skin can be different.

3.5

reference point (H point)

Crossing point BETWEEN torso of three-dimensional H-point device representing human body in relation to the theoretical pivot of thigh AND longitudinal vertical plane of seat.

4.1 The presence of the head restraint shall not be an additional danger to occupants

of the vehicle. In particular, it shall not in any position having any dangerous roughness or sharp edge to increase the seriousness of injury of the occupants.

4.1.1 The impact zone shall be located in 2 vertical longitudinal planes, one on each

side and each 70 mm distant from the plane of symmetry of the seat.

4.2 Excluding above 2 longitudinal vertical planes, front and rear surfaces of the head

restraints shall be installed with liner to prevent any direct contact of the head and the