

Road vehicles — Procedure for H- and R-point determination

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, page ii, pages 1 to 9 and a back cover.

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INTERNATIONAL STANDARD

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Road vehicles — Procedure for H- and R-point determination

Véhicules routiers — Procédure de détermination des points H et R



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6549 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 13, *Ergonomics applicable to road vehicles*.

This second edition cancels and replaces the first edition (ISO 6549:1980), which has been technically revised.

Road vehicles — Procedure for H- and R-point determination

1 Scope

This International Standard defines a three-dimensional H-point machine for use in the determination of the actual H-point and torso angle of a seat, for the purpose of comparing these measurements to the manufacturer's seating reference point and design torso angle. The three-dimensional H-point machine is intended to be used as a checking device for one designated seat position at a time and is not a device which measures or indicates an occupant's capabilities or comfort.

This International Standard is applicable to any motor vehicle where:

- a) the distance, vertically measured, between the operator heel point and the seating reference point is less than 550 mm,
- b) the torso angle is greater than 5° rearward of vertical or where the attitude of the thigh centreline as indicated by the thigh bar is greater than 5° above the horizontal.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3833, *Road vehicles — Types — Terms and definitions*.

ISO 4130, *Road vehicles — Three-dimensional reference system and fiducial marks — Definitions*.

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 3833 and the following apply.

3.1

three-dimensional H-point machine

device used for the determination of the actual H-point and actual torso angle in a vehicle

3.2

H-point

pivot centre of the torso and thigh of the three-dimensional H-point machine which simulates the pivot centre of the human torso and thigh and is used for actual H-point determination

NOTE It is located on the centreplane of the device which is midway between the H-point sight buttons on either side of the H-point machine.