

Road vehicles — Rear moving barrier impact test procedure

ICS 43.100

National foreword

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The UK participation in its preparation was entrusted to Technical Committee AUE/15, Safety related to vehicles, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 14, an inside back cover and a back cover.

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Road vehicles — Rear moving barrier impact test procedure

*Véhicules routiers — Mode opératoire d'essai de choc arrière sur
barrière mobile*



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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3984 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 10, *Impact test procedures*.

This third edition cancels and replaces the second edition (ISO 3984:1982), which has been technically revised.

Road vehicles — Rear moving barrier impact test procedure

1 Scope

This International Standard specifies a rear moving barrier, rear-impact test procedure for road vehicles, with the purpose of ensuring that such tests are conducted under the same conditions as for high-speed tests.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1176:1990, *Road vehicles — Masses — Vocabulary and codes*

ISO 3784, *Road vehicles — Measurement of impact velocity in collision tests*

ISO 6487, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

ISO 10997:1996, *Passenger vehicles — Side impact with deformable moving barrier — Full scale test*

SAE J211/1, *Instrumentation for Impact Test — Part 1: Electronic Instrumentation*

SAE J211/2, *Instrumentation for Impact Test — Part 2: Photographic Instrumentation*

3 Test facility and equipment

3.1 Test site

The test area shall be large enough to accommodate the run-up track, barrier and technical installations necessary for the test.

The impact test site surface shall be horizontal, smooth and hard.

3.2 Moving barrier test equipment

The moving barrier shall be of rigid or deformable construction, symmetrical about a longitudinal vertical plane, with fixed non-steerable front and rear axles attached directly to the frame rails with no spring or other type of suspension system apart from the tyres on each wheel.

3.3 Barrier faces

The specific moving barrier face to be used shall be selected from the following configurations.