
**Road vehicles — Vehicle dynamics test
methods —**

**Part 3:
General conditions for passenger cars
ride comfort tests**

*Véhicules routiers — Méthodes d'essai de la dynamique des
véhicules —*

*Partie 3: Conditions générales pour les essais de confort de conduite
des voitures particulières*



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Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Variables	2
4.1 Reference system	2
4.2 Variables to be determined	2
5 Measuring equipment	2
5.1 Description	2
5.2 Transducer installations	3
5.3 Data processing	4
6 Test conditions	4
6.1 General	4
6.2 Test track	4
6.3 Wind velocity	4
6.4 Test vehicle	4
6.4.1 General data	4
6.4.2 Tyres	5
6.4.3 Operating components	5
6.4.4 Loading conditions of the vehicle	5
6.4.5 Drivetrain conditions of the vehicle	5
6.4.6 Active systems	6
7 Test methods	6
7.1 General	6
7.2 Primary ride	6
7.2.1 General	6
7.2.2 Random disturbances	6
7.3 Secondary ride	6
7.3.1 General	6
7.3.2 Random disturbances	7
7.3.3 Periodic disturbances	7
7.4 Impact isolation	7
8 Data analysis	7
8.1 Frequency weighting filters application (see ISO 2631, ISO 8041 and ISO 5349)	7
8.1.1 General	7
8.1.2 Health application	8
8.1.3 Comfort application	8
8.1.4 Perception application	8
8.1.5 Motion sickness application	8
8.2 Analysis techniques for random input tests: frequency domain	8
8.2.1 Power spectral density	8
8.2.2 Transfer function	9
8.3 Analysis techniques for single events: time domain	10
8.3.1 Overall characterization - Global energy parameters	10
8.3.2 Single axle characterization	11
Annex A (normative) Test report — General data	12
Annex B (normative) Test report — Test conditions	16
Annex C (informative) Transducers and their installations	18

Bibliography	20
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 33, *Vehicle dynamics and chassis components*.

A list of all parts in the ISO 15037 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document was developed to define general test conditions for passenger-cars ride comfort tests. Any given vehicle, together with its driver and the prevailing environment, constitutes a unique closed-loop system. The task of evaluating the dynamic behaviour of the vehicle is therefore, very difficult since there is significant interaction between these driver-vehicle-environment elements, and each of these elements is individually complex in itself.

The test conditions exert large influence on the test results. Only test results obtained at identical test conditions and environment are comparable.

Road vehicles — Vehicle dynamics test methods —

Part 3:

General conditions for passenger cars ride comfort tests

1 Scope

This document specifies the general conditions that apply to vehicle ride comfort test methods.

In particular, it specifies general conditions for:

- variables;
- measuring equipment and data processing;
- environment (test track and wind velocity);
- test vehicle preparation (tuning and loading);
- initial driving;
- test reports (general data and test conditions).

These items are of general significance, regardless of the specific vehicle ride comfort test method. They apply when vehicle ride comfort properties are determined, unless other conditions are required by the standard which is actually used for the test method.

This document is applicable to passenger cars as defined in ISO 3833 and light trucks.

NOTE The general conditions defined in existing vehicle dynamics standards are valid until a reference to this document is included.

This document mainly refers to road tests, but in many cases can be applied also for bench tests.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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, *Road vehicles — Masses — Vocabulary and codes*

ISO 2416, *Passenger cars — Mass distribution*

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

ISO 8855, *Road vehicles — Vehicle dynamics and road-holding ability — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8855 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>