
Passenger cars — Power-off reaction of a vehicle in a turn — Open-loop test method

*Voitures particulières — Réponse d'un véhicule à un lever de pied en
virage — Méthode d'essai en boucle ouverte*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Variables	2
5.1 Reference system	2
5.2 Variables to be measured	2
6 Measuring equipment	3
6.1 Description	3
6.2 Transducers installations	3
6.3 Data processing	3
7 Test conditions	3
8 Test method	3
8.1 Warm-up	3
8.2 Initial driving condition	4
8.2.1 General	4
8.2.2 Initial driving condition — Constant-radius method	4
8.2.3 Initial driving condition — Constant-speed method	4
8.3 Power-off procedure	5
9 Data evaluation and presentation of results	5
9.1 General	5
9.2 Time histories	5
9.3 Initial point in time t_0	5
9.4 Characteristic values	6
Annex A (normative) Test report — General data	9
Annex B (normative) Presentation of results	10
Bibliography	23

Foreword

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

This third edition of ISO 9816 cancels and replaces the second edition (ISO 9816:2006) which has been technically revised. The main changes compared to the previous edition are as follows:

- an update was made regarding alternative powertrain systems.

Introduction

The main purpose of this document is to provide repeatable and discriminatory test results.

The dynamic behaviour of a road vehicle is a very important aspect of active vehicle safety. Any given vehicle, together with its driver and the prevailing environment, constitutes a closed-loop system that is unique. The task of evaluating the dynamic behaviour is therefore very difficult since the significant interaction of these driver-vehicle-environment elements are each complex in themselves. A complete and accurate description of the behaviour of the road vehicle must necessarily involve information obtained from a number of different tests.

Since this test method quantifies only one small part of the complete vehicle handling characteristics, the results of these tests can only be considered significant for a correspondingly small part of the overall dynamic behaviour.

Moreover, insufficient knowledge is available concerning the relationship between overall vehicle dynamic properties and accident avoidance. A substantial amount of work is necessary to acquire sufficient and reliable data on the correlation between accident avoidance and vehicle dynamic properties in general and the results of these tests in particular. If this test method is used for regulation purposes, the correlation between test results and accident statistics should be checked.

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