Test code of seating comfort for automobile suspension seats

1. Scope

This standard specifies test methods for evaluating the general performance of automobile suspension seats on their seating comfort.

Remarks: In this standard, units and numerical values given in brackets { } are based on the International System of Units (SI), and are given for reference.

2. Purpose

This standard is intended to establish standardized test methods for the adequate evaluation of seating comfort for automobile suspension seats.

3. Definitions

Definitions of principal terms used in this standard are in accordance with **JASO Z215** (Glossary of Terms Relating to Automobile Seats).

4. Test Types and Applicability

4.1 Test Types

Tests are classified as indicated in **Table 1** according to the objectives and the characteristics of the item to be tested.

Table 1 Test Types

Test type	Objective	Characteristic
Load	Deflecting performance	Load-deflection curve
		Deflection
		Static spring constant
	Damping performance	Hysteresis loss coefficient
Hardness Distribution	Hardness distribution	Hardness distribution curve
Surface Hardness	Softness	Load-sinkage curve
		Sinkage
		Static spring constant
Vibration	Vibration performance	Transmissibility (Acceleration or displacement)
		Resonance frequency
		Resonance magnification
		Dynamic spring constant
Damping	Damping performance	Damping waveform
		Logarithmic decrement

Reference Standards:

JIS D4607-1977	Three Dimensional Mannequins Used in Defining Automobile Seating Accommodations (DM-JM50)
JIS Z8401-1961	Rules for Rounding Off Numerical Values
JASO B407-1982	Test Code of Seating Comfort for Automobile Seats
JASO Z009-82	Hip Point of Automobile Seat
JASO Z215-77	Glossary of Terms Relating to Automobile Seats
ISO 6549-1980	Road Vehicles - Procedure for Point H Determination