

Passenger cars - Service brake road test procedures

1. Scope

This Standard specifies road test procedures for service brakes for passenger cars operated under normal conditions. This Standard does not apply to two-wheeled vehicles.

2. Applicable Publications

The following publications form a part of this Standard to the extent specified herein.

The latest issue of all publications shall apply.

JIS D0210	General Rules of Brake Test Method of Automobiles and Motorcycles
JASO C428	Parking Brake Test Procedure

3. Definitions

The definitions of main terms used in this Standard conform to **2 (Definition of Terms)** of **JIS D0210** and the following.

- a) Initial Brake Temperature** The value read within 15 seconds before the start of brake application. Where specified, the initial brake temperature shall be the highest of the mean values for each wheel measured per axle.

4. Test Conditions

4.1 Vehicle Classification

Test vehicles are classified by nominal maximum speed and conform to the provisions of **JIS D0210**.

Category P1	Over 140km/h
Category P2	111km/h to 140km/h
Category P3	91km/h to 110km/h
Category P4	90km/h and under

4.2 Vehicle Condition

Test vehicles shall conform to **4.1 (Condition of Vehicles)** of **JIS D0210**

4.3 Condition of Brake Parts

Each part of the braking device shall conform to **4.3 (Condition of Brake)** of **JIS D0210**.

4.4 Road Surface and Weather Conditions

Conform to **4.2 (Road Surface and Weather Conditions)** of **JIS D0210**.

4.5 Temperature Measurement

Brake temperature shall be measured as specified in **6 (Temperature Measurement)** of **JIS D0210**.

5. Test Procedures

5.1 Braking Operation

- a)** Braking operation shall be performed with a continuous pedal force not exceeding 500N until the vehicle comes to a complete stop.
- b)** In braking operations with constant braking deceleration, when the designated deceleration cannot be attained after pedal force reaches 500N, braking operation shall be performed with pedal force of 500N.
- c)** Braking shall be initiated when the vehicle is at the center of a 3.5m wide lane, and the posture of the test vehicle shall be controlled so that no part of the vehicle leaves the lane.

5.2 Test Items and Sequence

a) Preburnish check

Initial braking speed	50km/h or less
Initial brake temperature	80°C or less
Braking operation	Braking deceleration of 3.0m/s ² or less