

Truck and bus - Service brake road test procedures

1. Scope

This Standard specifies road test procedures for service brakes of trucks and buses operated under normal conditions.

2. Applicable Publications

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

The latest editions of all publications shall apply.

JASO C428	Parking Brake Test Procedures
JASO C466	Brake Stopping Distance Test Procedure of Motor Vehicle
JIS D0210	General Rules of Brake Test Method of Automobiles and Motorcycles

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 axis.
- b) Line pressure** Line or pneumatic pressure measured near the wheel cylinder or the brake chamber.

4. Test Conditions

4.1 Classification of Vehicles

Test vehicles are classified by passenger capacity and total vehicle mass, as follows.

The specific vehicle class is shown in brackets () for reference.

Category	
M2 (Class 1 bus)	Passenger capacity: 10 persons or more Total vehicle mass: 5t or less
M3 (Class 2 bus)	Passenger capacity: 10 persons or more Total vehicle mass exceeding 5t
N1 (Class 1 truck)	Total vehicle mass: 3.5t or less
N2 (Class 2 truck)	Total vehicle mass exceeding 3.5t, up to 12t
N3 (Class 3 truck)	Total vehicle mass exceeding 12t

4.2 Condition of Vehicles

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 Parts)** 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 in accordance with **6 (Temperature Measurement)** of **JIS D0210**.

4.6 Stopping Distance Measurement

Measure in accordance with **JASO C466**.

5. Test Procedures

5.1 Braking Operation

- a)** Braking operation shall be performed with continuous pedal force not exceeding 700N, starting with