

3.4 Initial Stopping Speed

The speed of the motor vehicle at the start of brake application.

3.5 Instrumentation System Delay

The time between the start of brake application and the start of stopping distance readout.

4. INSTRUMENTATION AND EQUIPMENT

All instrumentation and equipment used in this test procedure must maintain required accuracy throughout the test period.

4.1 Speed Measuring Device

A device that not only monitors vehicle speed, but also makes an instrumented recording of actual initial stopping speed. Error must not exceed $\pm 0.5\%$ of the actual speed.

4.2 Stopping Distance Measuring Instrumentation

The distance measuring device is to be triggered at the point at which brake application can be detected and data acquisition begun without false triggering but in any event not to exceed 22 N (5 lb) and/or first movement of 2.0 mm (0.07 in) of travel of the center of the brake pedal pad, the tip of the brake treadle, or the tip of the brake control handle (initial movement). Total instrumentation system delay shall not exceed 20 milliseconds. Error of distance measuring instrumentation shall not exceed $\pm 0.5\%$ of actual distance.

5. MOTOR VEHICLE PREPARATION

5.1 Perform motor vehicle and brake system preparation required to conform to specific desired test conditions. Record these conditions and operations.

5.2 Install and calibrate instrumentation. Record pertinent instrumentation information.

6. TEST PROCEDURE

The following test sequence shall be conducted at the test site:

6.1 Attain a speed sufficiently above the desired initial stopping speed to allow the driver to perform operations in 6.2 and 6.3 and still comply with the requirements of 6.4. However, this speed shall not exceed desired initial stopping speed by more than 12 km/h (7.5 mph).

6.2 Release throttle.

6.3 If the stop is to be made in neutral or with clutch disengaged, perform the desired operation(s).

6.4 At the desired initial stopping speed, apply the brake control at the desired rate to any required limit(s) and maintain braking at the desired limit(s) until the motor vehicle reaches a full stop. The limit(s) shall be determined by the specific desired conditions and may be wheel skid, pedal force, deceleration, pressure, brake control movement, vehicle control, lane boundaries, or a combination of these.

NOTE: For vehicles with standard transmission, if stop is made in gear, the clutch should be disengaged when vehicle speed is reduced to below 16 km/h (10 mph) or as engine nears idle speed, whichever is the greater vehicle speed.