

(b) Does not include a sub-compartment within the trunk compartment.

*Trunk lid* means a moveable body panel that is not designed or intended as a passenger car entry point for passengers and that provides access from outside a passenger car to a trunk compartment. The term does not include a back door or the lid of a storage compartment located inside the passenger compartment of a passenger car.

**S4. Requirements.**

S4.1 Each passenger car with a trunk compartment must have an automatic or manual release mechanism inside the trunk compartment that unlatches the trunk lid. Each trunk release shall conform, at the manufacturer's option, to either S4.2(a) and S4.3, or S4.2(b) and S4.3. The manufacturer shall select the option by the time it certifies the vehicle and may not thereafter select a different option for the vehicle.

S4.2(a) Each manual release mechanism installed pursuant to S4.1 of this standard must include a feature, like lighting or phosphorescence, that allows the release mechanism to be easily seen inside the closed trunk compartment.

(b) Each automatic release mechanism installed pursuant to S4.1 of this section must unlatch the trunk lid within 5 minutes of when the trunk lid is closed with a person inside the trunk compartment.

S4.3(a) Except as provided in paragraph S4.3(b), actuation of the release mechanism required by S4.1 of this standard must completely release the trunk lid from all latching positions of the trunk lid latch.

(b)(1) For passenger cars with a front trunk compartment that has a front opening trunk lid required to have a secondary latching position or latch system, actuation of the release mechanism required by paragraph S4.1 of this standard must result in the following:

(i) When the passenger car is stationary, the release mechanism must release the trunk lid from all latching positions or latch systems;

(ii) When the passenger car is moving forward at a speed less than 5 km/h, the release mechanism must release the trunk lid from the primary latching position or latch system, and may re-

lease the trunk lid from all latching positions or latch systems;

(iii) When the passenger car is moving forward at a speed of 5 km/h or greater, the release mechanism must release the trunk lid from the primary latching position or latch system, but must not release the trunk lid from the secondary latching position or latch system.

(2) The passenger cars described in paragraph S4.3(b)(1) are excluded from the requirements of this standard until September 1, 2002.

[66 FR 43121, Aug. 17, 2001, as amended at 67 FR 19523, Apr. 22, 2002]

**§ 571.500 Standard No. 500; Low-speed vehicles.**

S1. *Scope.* This standard specifies requirements for low-speed vehicles.

S2. *Purpose.* The purpose of this standard is to ensure that low-speed vehicles operated on the public streets, roads, and highways are equipped with the minimum motor vehicle equipment appropriate for motor vehicle safety.

S3. *Applicability.* This standard applies to low-speed vehicles.

S4. [Reserved.]

**S5. Requirements.**

(a) When tested in accordance with test conditions in S6 and test procedures in S7, the maximum speed attainable in 1.6 km (1 mile) by each low-speed vehicle shall not more than 40 kilometers per hour (25 miles per hour).

(b) Each low-speed vehicle shall be equipped with:

- (1) Headlamps,
- (2) Front and rear turn signal lamps,
- (3) Taillamps,
- (4) Stop lamps,
- (5) Reflex reflectors: one red on each side as far to the rear as practicable, and one red on the rear,
- (6) An exterior mirror mounted on the driver's side of the vehicle and either an exterior mirror mounted on the passenger's side of the vehicle or an interior mirror,
- (7) A parking brake,
- (8) A windshield of AS-1 or AS-5 composition, that conforms to the American National Standard Institute's "Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways," Z-26.1-1977, January 28, 1977, as supplemented by

Z26.1a, July 3, 1980 (incorporated by reference; see 49 CFR 571.5),

(9) A VIN that conforms to the requirements of part 565 *Vehicle Identification Number* of this chapter, and

(10) A Type 1 or Type 2 seat belt assembly conforming to Sec. 571.209 of this part, Federal Motor Vehicle Safety Standard No. 209, *Seat belt assemblies*, installed at each designated seating position.

**S6. General test conditions.** Each vehicle must meet the performance limit specified in S5(a) under the following test conditions.

**S6.1. Ambient conditions.**

**S6.1.1. Ambient temperature.** The ambient temperature is any temperature between 0 °C (32 °F) and 40 °C (104 °F).

**S6.1.2. Wind speed.** The wind speed is not greater than 5 m/s (11.2 mph).

**S6.2. Road test surface.**

**S6.2.1. Pavement friction.** Unless otherwise specified, the road test surface produces a peak friction coefficient (PFC) of 0.9 when measured using a standard reference test tire that meets the specifications of American Society for Testing and Materials (ASTM) E1136, “Standard Specification for A Radial Standard Reference Test Tire,” in accordance with ASTM Method E 1337–90, “Standard Test Method for Determining Longitudinal Peak Braking Coefficient of Paved Surfaces Using a Standard Reference Test Tire,” at a speed of 64.4 km/h (40.0 mph), without water delivery (incorporated by reference; see 49 CFR 571.5).

**S6.2.2. Gradient.** The test surface has not more than a 1 percent gradient in the direction of testing and not more than a 2 percent gradient perpendicular to the direction of testing.

**S6.2.3. Lane width.** The lane width is not less than 3.5 m (11.5 ft).

**S6.3. Vehicle conditions.**

**S6.3.1.** The test weight for maximum speed is unloaded vehicle weight plus a mass of 78 kg (170 pounds), including driver and instrumentation.

**S6.3.2.** No adjustment, repair or replacement of any component is allowed after the start of the first performance test.

**S6.3.3. Tire inflation pressure.** Cold inflation pressure is not more than the maximum permissible pressure molded on the tire sidewall.

**S6.3.4. Break-in.** The vehicle completes the manufacturer’s recommended break-in agenda as a minimum condition prior to beginning the performance tests.

**S6.3.5. Vehicle openings.** All vehicle openings (doors, windows, hood, trunk, convertible top, cargo doors, etc.) are closed except as required for instrumentation purposes.

**S6.3.6. Battery powered vehicles.** Prior to beginning the performance tests, propulsion batteries are at the state of charge recommended by the manufacturer or, if the manufacturer has made no recommendation, at a state of charge of not less than 95 percent. No further charging of any propulsion battery is permissible.

**S7. Test procedure.** Each vehicle must meet the performance limit specified in S5(a) under the following test procedure. The maximum speed performance is determined by measuring the maximum attainable vehicle speed at any point in a distance of 1.6 km (1.0 mile) from a standing start and repeated in the opposite direction within 30 minutes.

[63 FR 33216, June 17, 1998]

## PART 572—ANTHROPOMORPHIC TEST DEVICES

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