

of the vehicle parallel to the line of travel and perpendicular to the barrier face within a tolerance of ± 5 degrees. The test vehicle and barrier face are aligned so that the barrier strikes the rear of the vehicle with 70 percent overlap toward either side of the vehicle. So aligned, the barrier face fully engages one half of the rear of the vehicle and partially engages the other half. At impact, the vehicle's longitudinal centerline is located inboard either of the side edges of the barrier by a distance equal to 20 percent of the vehicle's width ± 50 mm (see Figure 3). The vehicle's width is the maximum dimension measured across the widest part of the vehicle, including bumpers and molding, but excluding such components as exterior mirrors, flexible mud flaps, marker lamps, and dual rear wheel configurations.

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S8 Phase-In schedule.

S8.1 Rear impact test upgrade. (a) *Vehicles manufactured on or after September 1, 2006 and before September 1, 2007.* For vehicles manufactured on or after September 1, 2006, and before September 1, 2007, the number of vehicles complying with S6.2(b) of this standard must not be less than 40 percent of:

(1) The manufacturer's average annual production of vehicles manufactured on

or after September 1, 2003, and before September 1, 2006; or
(2) The manufacturer's production on or after September 1, 2005, and before September 1, 2006.

(b) *Vehicles manufactured on or after September 1, 2007 and before September 1, 2008.* For vehicles manufactured on or after September 1, 2007 and before September 1, 2008, the number of vehicles complying with S6.2(b) of this standard must not be less than 70 percent of:

(1) The manufacturer's average annual production of vehicles manufactured on or after September 1, 2004, and before September 1, 2007; or

(2) The manufacturer's production on or after September 1, 2006, and before September 1, 2007.

(c) *Vehicles manufactured on or after September 1, 2008.* For vehicles manufactured on or after September 1, 2008, the number of vehicles complying with S6.2(b) of this standard must be 100 percent of the manufacturer's production during that period.

S8.2 *Vehicles manufactured in two or more stages.* A final stage manufacturer or alterer may, at its option, comply with the requirements set forth in S8.2.1 and S8.2.2.

S8.2.1 Vehicles manufactured on or after September 1, 2006 and before September 1, 2008 are not required to comply with the requirements specified in S6.2(b) of this standard.

S8.2.2 Vehicles manufactured on or after September 1, 2008 shall comply with the requirements specified in S6.2(b) of this standard.

S8.3 *Vehicles produced by more than one manufacturer.*

S8.3.1 For the purpose of calculating average annual production of vehicles for each manufacturer and the number of vehicles manufactured by each manufacturer under S8.1, a vehicle produced by more than one manufacturer must be attributed to a single manufacturer as follows, subject to S8.3.2:

(a) A vehicle that is imported must be attributed to the importer.

(b) A vehicle manufactured in the United States by more than one manufacturer, one of which also markets the vehicle, must be attributed to the manufacturer that markets the vehicle.

S8.3.2 A vehicle produced by more than one manufacturer must be attributed to any one of the vehicle's manufacturers specified by an express written contract, reported to the National Highway Traffic Safety Administration under 49 CFR part 590, between the manufacturer so specified and the manufacturer to which the vehicle would otherwise be attributed under S8.3.1.

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BILLING CODE 4910-59-P