

of the dummy's head is below a horizontal plane tangent to the top of—

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S5.2.3.1 Each child restraint system other than a child harness, manufactured before August 1, 2005, that is recommended under S5.5.2 for a child whose mass is less than 10 kg and that is not tested with the Part 572 Subpart R dummy, shall comply with S5.2.3.

S5.9 Attachment to child restraint anchorage system.

(a) Each add-on child restraint anchorage system manufactured on or after September 1, 2002, other than a car bed, harness and belt-positioning seat, shall have components permanently attached to the system that enable the restraint to be securely fastened to the lower anchorages of the child restraint anchorage system specified in Standard No. 225 (§ 571.213) and depicted in Drawing Package SAS-100-1000 with Addendum A: Seat Base Weldment (consisting of drawings and a bill of materials), dated October 23, 1998, or in Drawing Package, "NHTSA Standard Seat Assembly; FMVSS No. 213, No. NHTSA-213-2003," (consisting of drawings and a bill of materials) dated June 3, 2003 (incorporated by reference; see § 571.5). The components must be attached by use of a tool, such as a screwdriver. In the case of rear-facing child restraints with detachable bases, only the base is required to have the components.

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#### S6.1.1 Test conditions.

##### (a) Test devices.

##### (1) Add-on child restraints.

(ii) The test device for add-on restraint systems manufactured before August 1, 2005 is a standard seat assembly consisting of a simulated vehicle bench seat, with three seating positions, which is described in Drawing Package SAS-100-1000 with Addendum A: Seat Base Weldment (consisting of drawings and a bill of materials), dated October 23, 1998 (incorporated by reference in § 571.5). The assembly is mounted on a dynamic test platform so that the center SORL of the seat is parallel to the direction of the test platform travel and so that movement between the base of the assembly and the platform is prevented.

(ii) The test device for add-on restraint systems manufactured on or after August 1, 2005 is a standard seat assembly consisting of a simulated vehicle bench seat, with three seating positions, which is depicted in Drawing Package, "NHTSA Standard Seat Assembly; FMVSS No. 213, No. NHTSA-213-2003," (consisting of

drawings and a bill of materials) dated June 3, 2003 (incorporated by reference; see § 571.5). The assembly is mounted on a dynamic test platform so that the center SORL of the seat is parallel to the direction of the test platform travel and so that movement between the base of the assembly and the platform is prevented.

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##### (b) \* \* \*

(1) Test Configuration I, are at a velocity change of 48 km/h with the acceleration of the test platform entirely within the curve shown in Figure 2 (for child restraints manufactured before August 1, 2005) or in Figure 2A (for child restraints manufactured on or after August 1, 2005), or for the specific vehicle test with the deceleration produced in a 48 km/h frontal barrier crash.

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(d)(1) When using the test dummies specified in 49 CFR Part 572, subparts C, I, J, or K, performance tests under S6.1 are conducted at any ambient temperature from 19°C to 26°C and at any relative humidity from 10 percent to 70 percent.

(2) When using the test dummies specified in 49 CFR Part 572, subparts N, P or R, performance tests under S6.1 are conducted at any ambient temperature from 20.6°C to 22.2°C and at any relative humidity from 10 percent to 70 percent.

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S6.2.3 Pull the sling tied to the dummy restrained in the child restraint system and apply the following force: 50 N for a system tested with a newborn dummy; 90 N for a system tested with a 9-month-old dummy; 90 N for a system tested with a 12-month-old dummy; 200 N for a system tested with a 3-year-old dummy; or 270 N for a system tested with a 6-year-old dummy; or 350 N for a system tested with a weighted 6-year-old dummy. The force is applied in the manner illustrated in Figure 4 and as follows:

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S7 Test dummies. (Subparts referenced in this section are of part 572 of this chapter.) S7.1 Dummy selection. Select any dummy specified in S7.1.1, S7.1.2 or S7.1.3, as appropriate, for testing systems for use by children of the height and mass for which the system is recommended in accordance with S5.5. A child restraint that meets the criteria in two or more of the following paragraphs in S7 may be tested with any of the test dummies specified in those paragraphs.

S7.1.1 Child restraints that are manufactured before August 1, 2005, are subject to the following provisions:

(a) A child restraint that is recommended by its manufacturer in accordance with S5.5 for use either by children in a specified mass range that includes any children having a mass of not greater than 5 kg, or by children in a specified height range that includes any children whose height is not greater than 650 mm, is tested with a newborn test dummy conforming to part 572 subpart K.

(b) A child restraint that is recommended by its manufacturer in accordance with S5.5 for use either by children in a specified mass range that includes any children having a mass greater than 5 but not greater than 10 kg, or by children in a specified height range that includes any children whose height is greater than 650 mm but not greater than 850 mm, is tested with a newborn test dummy conforming to part 572 subpart K, and a 9-month-old test dummy conforming to part 572 subpart J.

(c) A child restraint that is recommended by its manufacturer in accordance with S5.5 for use either by children in a specified mass range that includes any children having a mass greater than 10 kg but not greater than 18 kg, or by children in a specified height range that includes any children whose height is greater than 850 mm but not greater than 1100 mm, is tested with a 9-month-old test dummy conforming to part 572 subpart J, and a 3-year-old test dummy conforming to part 572 subpart C and S7.2, provided, however, that the 9-month-old dummy is not used to test a booster seat.

(d) A child restraint that is recommended by its manufacturer in accordance with S5.5 for use either by children in a specified mass range that includes any children having a mass greater than 18 kg, or by children in a specified height range that includes any children whose height is greater than 1100 mm, is tested with a 6-year-old child dummy conforming to part 572 subpart I.

(e) A child restraint that is manufactured on or after August 1, 2005, and that is recommended by its manufacturer in accordance with S5.5 for use either by children in a specified mass range that includes any children having a mass greater than 22.7 kg, or by children in a specified height range that includes any children whose height is greater than 1100 mm, is tested with a part 572 subpart N dummy that is weighted to weigh 28.2 kg.

S7.1.2 Child restraints that are manufactured on or after August 1,