§ 572.191 General description.

(a) The SID–IIsD Side Impact Crash Test Dummy, small adult female, is defined by:

(1) The drawings and specifications contained in the "Drawings and Specifications for SID–IIsD Small Female Crash Test Dummy, Part 572 Subpart V, July 1, 2008," referred to in paragraph (a)(2) of this section, and the PADI document referred to in paragraph (a)(3) of this section, are available in electronic format through www.Regulations.gov and in paper format from Leet-Melbrook, Division of New RT, 18810 Woodfield Road, Gaithersburg, MD 20879, (301) 670–0090.

(2) The SAE materials referred to in paragraphs (a)(4) and (a)(5) of this section are available from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096, telephone 1–877–606–7323.


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(2) The SAE materials referred to in paragraphs (a)(4) and (a)(5) of this section are available from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096, telephone 1–877–606–7323.


(4) SAE Recommended Practice J211, Rev. Mar 95 "Instrumentation for Impact Tests—Part 1—Electronic Instrumentation"; and,


(b) The Director of the Federal Register approved the materials incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of the materials may be inspected at the Department of Transportation, Docket Operations, Room W12–140, 1200 New Jersey Avenue, SE., Washington, DC 20590, telephone (202) 366–9826, and at the National Archives and Records Administration (NARA), and in electronic format through Regulations.gov. For information on the availability and inspection of this material at NARA, call 202–741–6030, or go to:


For information on the availability and inspection of this material at Regulations.gov, call 1–877–378–5457, or go to: http://www.regulations.gov.

(c) The incorporated materials are available as follows:

(1) The Parts/Drawing List, Part 572 Subpart V, SID–IIsD, July 1, 2008, referred to in paragraph (a)(1) of this section, the package entitled Drawings and Specifications for SID–IIsD Small Female Crash Test Dummy, Part 572 Subpart V, July 1, 2008, referred to in paragraph (a)(2) of this section, and the PADI document referred to in paragraph (a)(3) of this section, are available in electronic format through www.Regulations.gov and in paper format from Leet-Melbrook, Division of New RT, 18810 Woodfield Road, Gaithersburg, MD 20879, (301) 670–0090.

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SID–IIsD Side Impact Crash Test Dummy, July 1, 2008,” and,
(5) Sign convention for signal outputs

(b) Exterior dimensions of the SID–IIsD Small Adult Female Side Impact Crash Test Dummy are shown in drawing 180–0000 sheet 3 of 5, dated July 1, 2008.

(c) Weights and center of gravity locations of body segments are shown in drawing 180–0000 sheet 4 of 5, dated July 1, 2008.

(d) Adjacent segments are joined in a manner such that, except for contacts existing under static conditions, there is no additional contact between metallic elements of adjacent body segments throughout the range of motion.

(e) The structural properties of the dummy are such that the dummy conforms to this Subpart in every respect before use in any test similar to that set forth in Standard 214, Side Impact Protection (49 CFR 571.214).


§ 572.193 Neck assembly.

(a) The neck assembly consists of parts shown in drawing 180–2000. For purposes of this test, the neck assembly is mounted within the headform assembly (180–9000) as shown in Figure V1 in appendix A to this subpart. When subjected to the test procedure specified in paragraph (b) of this section, the neck-headform assembly shall meet the performance requirements specified in paragraph (c) of this section.

(b) Test procedure.

(1) Soak the assembly in a test environment as specified in 49 CFR 572.200(j).

(2) Attach the neck-headform assembly, as shown in Figure V2–A or V2–B in appendix A to this subpart, to the 49 CFR Part 572 pendulum test fixture (Figure 22, 49 CFR 572.33) in either the left or right lateral impact orientations, respectively, so that the midsagittal plane of the neck-headform assembly is vertical and at right angle (90° ± 1 degrees) to the plane of motion of the pendulum longitudinal center-line;

(3) Release the pendulum from a height sufficient to achieve a velocity of 5.57 ± 0.06 m/s measured at the center of the pendulum accelerometer, as shown in 49 CFR Part 572 Figure 15, at the instant the pendulum makes contact with the decelerating mechanism;

(4) The neck flexes without the neck-headform assembly making contact with any object;

(5) Time zero is defined as the time of initial contact between the pendulum mounted striker plate and the pendulum deceleration mechanism;

(6) Allow a period of at least thirty (30) minutes between successive tests on the same neck assembly.

(c) Performance Criteria.

(1) The pendulum deceleration pulse is characterized in terms of decrease in velocity as obtained by integrating the pendulum acceleration output from time zero: