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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1803-2020

Calibration Specification for the Anthropomorphic Test Device (H-III Female) of Vehicle Frontal Impact Test

汽车正面碰撞试验用人形试验装置（H-III女性）校准规范

(English Translation)

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Introduction

This specification is based on JJF 1071 "Rules for Compilation of National Metrology and Calibration Specifications", JJF 1001 "General Metrology Terms and Definitions" ", JJF 1059.1 "Evaluation and Expression of Measurement Uncertainty" as the basic specification

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for the formulation of calibration specifications, the technical standards refer to the US Federal Motor Vehicle Safety Standards (FMVSS) 49, Part 572, Human Type Test Equipment Set up test equipment" branch O: H-III female dummy (FederalMotorVehicleSafetyStandards/T itle49 CFRPart 572\u003cANTHROPOMORPHICTESTDEVICES\u003e SubpartO:HybridIII5th PercentileFemaleTestDummy): This specification is aimed at the humanoid test equipment used in the frontal impact test of automobiles:

The characteristics of the H-III 5th percentile female test device were developed:

This specification is released for the first time:

Humanoid test device for automobile frontal collision test (H-III Female) Calibration Specification

1 Scope

This specification is applicable to the mixed type III 5th percentile humanoid (female) test device (with Hereafter referred to as H-III female dummy) calibration:

2 Reference documents this specification refers to the following documents:

JJF 1230 Calibration Specification for Humanoid Test Device for Frontal Impact Test of Automobile GB 11551 Occupant protection in frontal collision of automobile GB/T 20485.22 Vibration and shock sensor calibration method part 22: shock comparison method calibration ISO 6487:2012 Road vehicle crash test measurement technology equipment (Roadvehicles-Measurementtechniquesinimpacttests-Instrumentation) SAEJ211-1 Impact test instrument Part 1: Electronic instrument (InstrumentaionforImpact Test-Part 1ElectronicInstrumentation) SAEJ2517H-III Family Chest Displacement Sensor Calibration Process (HybridIIIFamilyChestPoten-tiometerCalibrationProcedure) U:S: Federal Motor Vehicle Safety Standard (FMVSS) 49 Volume Part 572 Human Type Test Device Test Equipment Branch O: H-III female dummy (FederalMotorVehicleSafetyStandards/T itle49CFRPart 572\u003cANTHROPOMORPHICTESTDEVICES\u003e SubpartO:HybridIII5thPercentile FemaleTestDummy) for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification:

3 Terms and definitions

3.1 Channel amplitude class (CAC) the representation method of the data channel that meets the amplitude characteristics specified in the appendix of GB 11551, and the value is equal to the measurement range the upper limit:

Note: Modified from Appendix D of GB 11551:

3.2 Channel frequency class (CFC) Represented by a certain value, indicating that the frequency response of the channel is within the specified limit: Corresponding to the

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definition of CFC characteristic frequency for FH, set the corresponding CFC level according to different calibration items:

Note: Modified from Appendix D of GB 11551:

3:3 time-zero

The moment when the pendulum impact surface and the aluminum honeycomb impact surface are in initial contact, the time of all data channels at this time is defined as zero (That is, the time of all calibration parameters are uniformly set to zero):

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