



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CTI (NANTONG) AUTOMOTIVE TECHNICAL SERVICES CO., LTD.
Plant No. 3, No 70 Jiang Guang Rd.
Nantong Jiangsu Province, 226017, People's Republic of China
Phone: 0513-80950330
Carina Hua Email: lei.hua@cti-cert.com

MECHANICAL

Valid To: January 31, 2023

Certificate Number: 4161.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on automotive components:

Test:

Dynamic Sled Testing
Impact Pulse (Up to 60 g's)
Impact Velocity (Up to 50 mph)

Occupant Protection in Interior Impact
Impact Velocity (Up to 30 mph)
Impact Mass (Up to 15 lbs)

Head Restraints/Seating Strength
Load (Up to 10,000 lbs)

Seating System
Load (Up to 10,000 lbs)

Seat Belt Assembly Anchorages/ISOFIX
Anchorages
Load (Up to 10,000 lbs)

Occupant Seating Location H-Point/HRMD
(SAE/ICBC/IIHS)

Weight and Center of Gravity (CG)
Determination
Extreme Temperature Testing

Test Method(s):

ECE-17 Annex 9 Luggage Retention;
FMVSS 207/ECE-17; P6.3 Acceleration;
GB15083; QC/T740
APTA-PR-CS-S-016-99

FMVSS 201 Compliance;
ECE-17 Compliance;
GB 11552

FMVSS 202a Compliance;
ECE-17/ECE-25 Compliance;
GB11550; GB15083

FMVSS 207 Compliance;
ECE-17 Compliance;
GB 15083

FMVSS 210/225 Compliance;
ECE-14 Compliance;
GB 14167

SAE J826 Rev 95¹; ST-0007;
FMVSS 202a;
GB11550; GB11551;
QC/T740

FMVSS 207

ST-0013

(A2LA Cert. No. 4161.01) Revised 09/08/2022

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Test:

(-40 to 120) °C, (85 to 98) %RH

Multiple Axis Vibration (6 DOF MAST)
(4x6) ft Table Size; 10 in. Vert., 6 in. Horizontal
(Up to 5) g's; (Up to 50) Hz
Conditioning (-40 to 105) °C; 98 %RH

Vibration Testing (Electro-Dynamic, ED)
Sine, Random, Mechanical Shock, and Time-History
Load Capacity (Up to 11,000 lbs)
Frequency (5 to 2000 Hz)
Displacement 2 in (PK to PK)
Acceleration (Up to 50 g)

Seat and Component Structural Fatigue

Quasi-static Force vs. Deflection Characteristics
(Force $\pm 1500\text{N}$ & Displacement $\pm 50\text{mm}$)

Durability Cycling of Seat Back and Cushions

Durability Cycling of Seat Backs, Cushions,
Bolsters

Cycling of Various Types of Vehicle
Components (Seats, Doors, IPs)

Airbag Static Deployment

Test Method(s):

ST-0009; PF-12146;
DPR CMA Complete Seat 150522;
ISS 002

PF-12146; ST-0009

ST-0019; PF-12146; QC/T740

Custom Quasi-Static Loading;
PF-12146; QC/T740

Jounce and Squirm ST-0036, 0809;
QC/T740

Ingress/Egress ST-0035; GMW 14364;
PF-12146; QC/T740

PF-12146; QC/T740

QC/T740; DPR CMA Complete Seat
150522 ISS 002

¹This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

In addition, customer-supplied test specifications and industry-accepted specifications may be used in conjunction with all of the above procedures. These specifications include:

AATCC, ASTM, ISO, MIL-STD, SAE, DIN, JIS
Chrysler PF, DC and LP requirements (Materials)
GM GMN/GMW/MTL/P/M

Ford DVM for IP (Interiors), ST (Seats), MA (Materials) and FLTM (Materials)

Other OEM methods from Hyundai, Nissan, Honda, Toyota, Mitsubishi, Mazda, BMW, VW,
Daimler/Mercedes and Audi



Accredited Laboratory

A2LA has accredited

CTI (NANTONG) AUTOMOTIVE TECHNICAL SERVICES CO., LTD.

Nantong Jiangsu Province, People's Republic of China

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 21st day of January 2021.

A blue ink signature of the Vice President, Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4161.01
Valid to January 31, 2023
Revised September 8, 2022

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.