

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 301

Legal Name of Accredited Laboratory: Leggett & Platt Automotive - Lakeshore

Location Name or Operating as (if applicable): L&P Automotive, Validation Laboratory

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SCC File Number:	15373
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Electrical/Electronic Mechanical/Physical
Initial Accreditation:	1999-07-30
Most Recent Accreditation:	2021-05-25
Accreditation Valid to:	2023-07-30

Remarque : La présente portée d'accréditation existe également en anglais. La version anglaise est publiée séparément.

Note: This scope of accreditation is also available in English as a separately issued document.

MACHINERY

Transportation, Agricultural and Construction Vehicles and Components:

Automobiles, Light Trucks, Vans & Trailers (Vehicle Seating and Assemblies including Lumbar Assemblies and Components, and Tilt Adjuster and Components)

<p>FCA Global Seat Complete Assembly PF. 90232 (Sept 2015)</p>	<p>Reliability/Durability Requirements. Section: 9.13</p>
<p>FCA Global Front Seat Structure Performance Standard PF. 90234 (Oct 2015)</p>	<p>Functional Requirements Sections: 7.12 - 7.13 - 7.14 - 7.20 - 7.21 Reliability/Durability Requirements Sections: 9.11 - 9.12</p>
<p>Ford SDS/ARL ID: Seat Version 117</p>	<p>Sections: * Operating Noise of Power Seat Features - RQT-011000 - 015907 * Seat System Operation at Extreme Temperatures - RQT-011000-015910 * Seat System Jounce Durability - RQT-011000-015931 * Adjustable Seat Back Lumbar, MCS, and Bolsters Life Cycle - RQT-011000-015975 * Adjustable Seat Bolster Life Cycle - RQT-011000-015976</p>
<p>Ford SDS/ARL ID: EESYS Version 103</p>	<p>Sections: * Software Short CKT Protection of Outputs - (RQT-191001-009855) - (EC-0007) * Power Supply Dropout Management - (RQT-191001-009891) - (EC-0043) * Module Power-Up/Reset Requirements - General Req- (RQT-191001-009897) - (EC-0049) * Low/High Voltage Guaranteed Function/Performance -(RQT-191001-009906) - (EC-0058) * Load Management - (RQT-191001-009911) - (EC-0063) * Maximum PCB Temperatures - (RQT-191001-009986) -(EC-0238) * Module to Load Interface Verification - (RQT-191001-019788) - (EC-0261)</p>
<p>Ford SDS/ARL ID: ELCOMP Version 55</p>	<p>Sections: * MUX: Local Interconnection Network (LIN) - (RQT-000600-009619) - (EY-0136) * E/E System & Component Operating Voltage - (RQT-002600-009624) - (EY-0141)</p>
<p>General Motors 421.15 – Comfort Systems -CG3909</p>	<p>Component Technical Specification - Revision 2.0, 30th November 2015 Sections: 3.3.2.1 - 3.3.3. - 3.3.3.1 - 3.3.3.2 - 3.3.3.3 - 3.3.3.4 - 3.3.3.5 - 3.3.3.6 - 3.3.4.1 - 3.3.4.2 - 3.3.4.3 - 3.5.1.2 - 3.5.1.3 - 3.5.2 - 3.6.2.1 - 3.6.2.2 - 3.6.2.3 - 3.6.2.6 - 3.6.2.9</p>

General Motors GMW3191	Connector Test and Validation Specification Sections: 4.2.8 - 4.2.18 - 4.2.19 - 4.5.2
General Motors GMW14407_Ed2 Nov 2014	Lumbar and Lumbar Support Testing
Lear - Latch Actuators Technical Component Specification SPC 1705, A, 5 17, AUG 2017	LMA High and Low Force Power Actuator LMA HIGH L0408403AA.01.005 LMA LOW L0426385AA.00.003 Sections: 3.2.1.1 - 3.2.1.2 - 3.2.1.3 - 3.2.1.4 - 3.2.2.1 - 3.2.2.2 - 3.2.1 - 4.2.3.1 - 4.2.3.2 - 4.2.3.3 - 4.2.3.4 - 4.2.3.5
Hyundai ES 88550-10 Rev 20	Front Power Seat - Operation Sections: 3.1.4 - 3.15 - 3.1.6
Hyundai ES 88770-10 Rev 12	Lumbar Support - Operation Sections: 3.2 - 3.3.2 - 3.3.3 - 3.3.4 - 3.3.5 - 3.4.1 - 3.5.1 - 3.5.2 - 3.5.3 - 3.5.4
Hyundai ES 95400-10 Rev 17	Vehicle's Electrical Environment Test Sections: 6.1.1 - 6.2.6 - 6.2.7 - 6.2.8 - 6.2.10 - 6.5.1 - 6.5.2
Mazda MES PA 57014 Feb 2006 Lumbar Level	Section: 7.4.2 Operational Durability of Lumbar Support
Mazda MES PA 57012 Dec 2008 Lumbar level	Section: 7.3.2 - Seat Back Center Strength
Mazda MES PA 57015 Feb 2008 Lumbar level	Section: 7.5.9 - Seat Back Fatigue Test
Mazda MES PW 67601 Apr 2013 Lumbar level	Sections: 7.2.2 - Low Temperature Operation 7.5.1 - High Temperature Durability
Nissan 8700NDS00[29]	Nissan Seat Design Specification, Sections: 2-10; 3-1-1; 3-5; 3-12; 4-5; 5-16; 5-25; 6-1; 6-2; 6-3; 6-4; 6-5; 6-6; 6-7; 6-8; 6-9; 6-10
Toyota TSF 6106G (TB BSDA1406G)	Test Method for Seat Operation Durability Sections: 5.1 and 5.2
Toyota TSF 6244G (TB BSDA1444)	Durability Test Method for Seat Cushion & Seat Back (150,02000 cycles for lumbar) Section: 4

Toyota TSM 0502G (TB BSDM0502)	General Test Method regarding Material Properties for Plastic Parts Sections: 4.1.1 - 4.1.3 - 4.2.2
Toyota (TB BSDA1708)	Test Method for Seat Asm Abnormal Noise Section: Abnormal Noise Test
Toyota TSF 6117G	Test Method for Power Seat Noise
SAE J4002 Jan 2010	H-Point Machine (HPM-II) Specifications and Procedure for H-Point Determination—Auditing Vehicle Seats
SAE J4003 Oct 2008	H-Point Machine (HPM-II) Procedure for H-Point Determination-- Benchmarking Vehicle Seats
SAE J826 Nov 2015	Devices for Use in Defining and Measuring Vehicle Seating Accommodation
WI-ERG-002	Lumbar Digitization
WI-ERG-003	H-Point Audit
WI-ERG-004	Seat Digitization
WI-ERG-005	Pressure Distribution Measurement
WI-ERG-006	Subjective Ergonomics Evaluation
WI-ERG-007	Lumbar Deflection Test
WI-LAB-010	Manual Lumbar Durability Test
WI-LAB-011	Power Lumbar Durability Test
WI-LAB-012	Springboard Actuator Durability Test
WI-LAB-014	Sound Measurement - Mechanical Lumbar Assembly and Lumbar Actuator
WI-LAB-015	Sound Test Data Post Processing
WI-LAB-016	Sound Test - Pneumatic Pump
WI-LAB-019	Lumbar - Impact Drop Test
WI-LAB-022	Travel Time, Running & Stall Current Test
WI-LAB-023	Tensile Strength Test
WI-LAB-024	Fatigue Test
WI-LAB-025	Lumbar - Hot Set Test
WI-LAB-026	Jounce Test - Seat Back Durability
WI-LAB-033	Motorized Effort (Torque) Test
WI-LAB-058	Motor Performance Test
WI-LAB-065	Spring Rate & Initial Tension Measurement Test
WI-LAB-068	Cable Load - Force Measurement Test
WI-LAB-069	Displacement Test
WI-LAB-070	Drop Test
WI-LAB-073	Lumbar - Steel Ball Drop Test
WI-LAB-075	Power Lumbar Durability Test- Honda
WI-LAB-077	Manual Actuator - Free Play Test
WI-LAB-079	Lumbar Basket - Force & Deflection Test

WI-LAB-081	Lumbar Basket – Permanent Set Test
WI-LAB-082	Lever Actuator - Permanent Set Test
WI-LAB-083	Thermal Cycle Test
WI-LAB-089	Vibration Test (BSR)
WI-LAB-098	Angular Travel Test
WI-LAB-100	Cable Travel Test
WI-LAB-102	Screw Stripping Torque Test
WI-LAB-107	Operating Speed Test
WI-LAB-109	Module Pressure Measure Test
WI-LAB-110	Jamming Test
WI-LAB-118	Motor PTC Test
WI-LAB-147	Solenoid Air Flow Test
WI-LAB-148	Solenoid Climate Cycle Test
WI-LAB-149	Solenoid High Temp Soak Test
WI-LAB-151	Solenoid Over Voltage Test
WI-LAB-152	Solenoid Startup Voltage Test
WI-LAB-153	Solenoid Temperature Rise Test
WI-LAB-158	IPVS - Environmental Leakage Test
WI-LAB-159	Burke and Porter Jounce Machine
WI-LAB-160	Lumbar Actuator Holding Torque Test
WI-LAB-162	IPVS - Flow Rate Measurement Test
WI-LAB-163	IPVS - Relief Pressure Test
WI-LAB-165	IPVS - Sensor Output Voltage Test
WI-LAB-166	IPVS - Inflation Deflation Test
WI-LAB-167	IPVS - Solenoid Motor Test
WI-LAB-168	IPVS - Air Hose Pull Test
WI-LAB-170	IPVS - Durability Test
WI-LAB-171	IPVS - Climate Cycle Soak Test
WI-LAB-174	Motor Noise Test
WI-LAB-175	Power Lumbar Over-Voltage Test
WI-LAB-176	Motor Vibration Test
WI-LAB-177	Creep Test
WI-LAB-178	Four Corner Test

Number of Scope Listings: 86

Notes:

ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories

FCA: FCA US LLC (formerly Chrysler Group)

SAE: Society of Automotive Engineers



WI: Internal work instruction

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

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