



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

CONTINENTAL AUTOMOTIVE SYSTEMS

Auburn Hills, MI

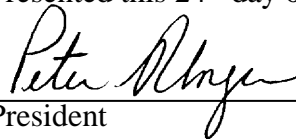
for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 18 June 2005*).



Presented this 24th day of September 2008.



President

For the Accreditation Council

Certificate Number 1885.01

Valid to October 31, 2010

Revised August 23, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CONTINENTAL AUTOMOTIVE SYSTEMS
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ELECTRICAL (AEMCLAP/EMC)¹

Valid to: October 31, 2010

Certificate Number: 1885.01

In recognition of the successful completion of the A2LA and the Automotive EMC Laboratory Accreditation Program (AEMCLAP)¹ evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility tests:

Test Technology

***AEMCLRP (Rev.4) and AEMCLRP Addendum
(May 25, 2007)***

Test Method(s)

Electrostatic Discharge (ESD)
Appendix D
(Chrysler, Ford, GM)
Test Set-up Designation:
ESD Chamber

ISO 10605 (2001);
DC 11224 (Change A) Sections 10.1, 10.2;
ES-XW7T-1A278-AC (CI 280);
GMW 3097 (Feb 2006) Section 3.6

Pin Conducted Emissions
Appendix E
(Chrysler)
Test Set-up Designation:
Screen Room

DC 11225 (Change A) Annex A

Conducted Emissions
Appendix F
(Chrysler, Ford, GM)
Test Set-up Designation:
Semi-Anechoic Chamber

CISPR25 (2002) Sections 6.2, 6.3;
DC 11224 (Change A) Sections 6.2, 6.3;
ES-XW7T-1A278-AC (CE 420);
GMW 3097 (2006) Section 3.3.2

Radiated Emissions
Appendix G
(Chrysler, Ford, GM)
Test Set-up Designation:
Semi-Anechoic Chamber

CISPR 25 (2002) Section 6.4;
DC 11224 (Change A) Section 6.4;
ES-XW7T-1A278-AC (RE 310);
GMW 3097 (2006) Section 3.3.1

Test Technology

***AEMCLRP (Rev.4) and AEMCLRP Addendum
(May 25, 2007)***

Test Method(s)

Direct Injection (DRFI)

Appendix H

(Chrysler)

Test Set-up Designation:

Screen Room

ISO 11452-7 (2003);

DC 11225 (Change A) Appendix B

Bulk Current Injection (BCI)

Substitution Method

Appendix I

(Chrysler, Ford, GM)

Test Set-up Designation:

Screen Room

ISO 11452-4 (2005);

DC 11224 (Change A) Section 7.2;

ES-XW7T-1A278-AC (RI 112) ;

GMW 3097 (2006) Section 3.4.1

Transverse Electromagnetic (TEM) Cell

Appendix J

(Chrysler)

(200 V/m, up to 400MHz)

Test Set-up Designation:

TEM Cell Bench

ISO 11452-3 (2001);

DC 11224 (Change A) Section 7.5

Absorber-lined Shielded Enclosure

Appendix K

Metallic / Non-metallic table, Substitution Method

(Chrysler, Ford, GM)

(up to 4 GHz with current M&TE)

Test Set-up Designation:

RI Semi-Anechoic Chamber

ISO 11452-2 (2004);

DC 11224 (Change A) Sections 7.3, 7.4;

ES-XW7T-1A278-AC (RI 114);

GMW 3097 (2006) Section 3.4.2

RI Reverberation (Mode-Tuned)

Appendix L

(up to 300 V/m with current M&TE)

(Ford, GM)

Test Set-up Designation:

RI Reverberation Chamber

ISO 61000-4-21 (2003);

ES-XW7T-1A278-AC (RI 114);

GMW 3097 (2006) Section 3.4.3

Absorber-lined Shielded Enclosure

Radar Pulse Only

Appendix M

(up to 300 V/m with current M&TE)

(Ford, GM)

Test Set-up//Location Designation:

RI Semi-Anechoic Chamber

ISO 11452-2 (2004);

ES-XW7T-1A278-AC (RI 114);

GMW 3097 (2006) Section 3.4.2

Test Technology
NON-AEMCLRP Tests

Test Method(s)

Conducted and Transient Immunity	SAE J1113-2, SAE J1113-11, SAE J1113-12 (CCC & DCC); ISO 7637-2, ISO 7637-3 (CCC & DCC); ES-XW7T-1A278-AC (CI 210 to CI 270)
Transient Emissions	SAE J1113-42; ISO 7637-2; ES-XW7T-1A278-AC (CE 410)
Magnetic Field Immunity	SAE J1113-22; ES-XW7T-1A278-AC (RI 140)
Coupled Immunity	ES-XW7T-1A278-AB/AC (RI 120, RI 130, RI150)
Radiated Immunity - Tri-Plate	SAE J1113-25; ES-XW7T-1A278-AB (RI 110)
Bulk Current Injection (BCI) <i>Closed-Loop Method</i>	ISO 11452-4; SAE J1113-4; ES-XW7T-1A278-AB (RI 112); GM 9100P
Bulk Current Injection (BCI) <i>Substitution Method</i>	SAE J1113-4; GMW 3097, GMW 3100 Section 3.2.1.2.4 (August 2001)
Absorber-lined Shielded Enclosure	SAE J1113-21; PF-9326, PF-10540; GM 9100P, GMW 3097 / GMW 3100 (August 2001)
Transverse Electromagnetic (TEM) Cell	SAE J1113-24; PF-9326, PF-10540
Direct Injection (DRFI)	SAE J1113-3; PF-9326, PF-10540
Radiated Emissions	SAE J1113-41
CISPR25 Conducted Emissions	ES-XW7T-1A278-AB (CE 420); GMW 3097 / GMW 3100 Section 3.2.1.1.3, (August 2001)
Electrostatic Discharge (ESD)	SAE J1113-13
Pin Conducted Emissions	PF-9326, PF-10540

Note: Accreditation to ISO/IEC 17025 may be used to demonstrate supplier in-house laboratory conformity to the section 7.6.3.1 laboratory requirement of ISO/TS 16949:2002.

¹ A2LA provides Accreditation for the Automotive EMC Laboratory Recognition Program (AEMCLRP) which is designated as the Automotive EMC Laboratory Accreditation Program (AEMCLAP). Chrysler, Ford Motor Company (Ford) and General Motors Corporation (GM) provide overall recognition as part of the AEMCLRP document (Fourth Edition, 01/27/06 and the Addendum May 25, 2007). This document is available on the A2LA web site (www.A2LA.org). Accreditation to the A2LA AEMCLAP requirements does not ensure recognition by the aforementioned organizations. Confirmation of recognition can be obtained from these organizations directly.