



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ALPINE ELECTRONICS RESEARCH OF AMERICA, INC.
EMC Laboratory
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ELECTRICAL (AEMCLAP/EMC)¹

Valid To: November 30, 2011

Certificate Number: 2632.01

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 Tests¹ AEMCLRP Revision 4
(and Addendum May 25, 2007)***

Test Method(s)

Electrostatic Discharge (ESD)
Appendix D
(Chrysler, Ford, GM)
Location: Electrical Stress Lab

ISO 10605 (2001);
GMW 3097 (2006) Section 3.6;
DC-11224 (2007/06) Sections 10.1, 10.2;
ES-XW7T-1A278-AC (CI 280)

Conducted Emission
Appendix F, Current/Voltage
(Chrysler, Ford, GM)
Location: Shield Room #1 & Semi-Anechoic Chamber

CISPR 25 (2002, 2008) Sections 6.2, 6.3;
DC-11224 (2007/06) Sections 6.2, 6.3;
GMW 3097 (2006) Section 3.3.2;
ES-XW7T-1A278-AC (CE 420)

Radiated Emissions
Appendix G
(Chrysler, Ford, GM)
Location: Semi-Anechoic Chamber

CISPR 25 (2002, 2008) Section 6.4;
DC-11224 (2007/06) Section 6.4;
GMW 3097 (2006) Section 3.3.2;
ES-XW7T-1A278-AC (RE 310)

Bulk Current Injection (BCI)
Appendix I
Substitution Method
(Chrysler, GM, Ford)
Location: Shield Room #1

ISO 11452-4 (2005);
GMW 3097 (2006) Section 3.4.1;
ES-XW7T-1A278-AC (RI 112);
DC-11224 (2007/06) Section 7.2

Absorber Lined Shielded Enclosure (ALSE)
(Substitution Method –
With and without Ground Plane)
200 MHz to 8 GHz, up to 150 V/m
Appendix K
(Chrysler, Ford, GM)
Location: Semi-Anechoic Chamber

DC-11224 (2007/06) Section 7.4;
ISO 11452-2 (2004);
GMW 3097 (2006) Section 3.3.1;
ES-XW7T-1A278-AC (RI 114)

Non-AEMCLRP Tests

<u>Test Technology</u>	<u>Test Method(s)</u>
Conducted Transient Immunity (Supply Lines)	ISO 7637-2 (2004)
Conducted Transient Immunity (Other)	ISO 7637-3 (1995)
Conducted Transient Emissions (Supply Lines)	ISO 7637-2 (2004)
Radiated Emissions	Code of Federal Regulations (CFR) 47, FCC Part 15 (Subpart B and C) using ANSI C63.4:2004 (3m distance, tabletop equipment only, up to 1 GHz)
Conducted Emissions	Code of Federal Regulations (CFR) 47, FCC Part 15 (Subpart B and C) using ANSI C63.4:2004 (up to 16A)

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 Addendum May 25, 2007).

The AEMCLRP 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. If any items are not covered by AEMCLRP Rev.4 or there are any conflicts among the documents, the actual issued test method standards of Chrysler, Ford Motor Company and General Motors Corporation and OEM issued corrections/addendums these will supersede AEMCLRP Rev. 4 and Addendum May 25, 2007.





The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

ALPINE ELECTRONICS RESEARCH OF AMERICA, INC.

Farmington 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 8 January 2009*).

Presented this 16th day of March 2010.



A handwritten signature in black ink, reading "Peter Abney".

President & CEO

For the Accreditation Council

Certificate Number 2632.01

Valid to November 30, 2011

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