# SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PCB PIEZOTRONICS, INC., PCB LOAD & TORQUE DIVISION
24350 Indoplex Circle
Farmington Hills, MI 48335
Lance Pellens Phone: 716 684 0002 x 3310

## MECHANICAL

Valid To: April 30, 2016 Certificate Number: 1015.02

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

| Test | Test Method |
|---|---|
| Torque-Tension | CET P03.00-L-616[2]; Chrysler PS-7902;<br>Daimler/Chrysler PS-5873;<br>Ford ES-21006-S100, WZ100, WZ101;<br>9064P; GMW3044, 3200, 3359, 4700, 3179, 4707,<br>GMW14, GMW16730<br>IFI 543; SAE 174M, J2316; SAE/USCAR-10, -11;<br>Eaton ES 2751;<br>John Deere F15X1;<br>Caterpillar IE0397, IE1675 |
| Prevailing Torque | ANSI B18.16.1M[2]; Chrysler PF-6180;<br>Ford ES-21002-S100, ESS-M1A171-B, WE950;<br>GM9084P, 9092P;<br>IFI 100/107; JASO F106-87 |
| Friction | NES D3002[2]; Renault 01-50-005/C;<br>Volvo STD 5511-71, STD 5511-711, STD 7121-41,<br>STD 7121-45; ISO 16047; DIN 946 |

[2]Or using customer supplied methods for peak, yield, friction, proof load, seating, prevailing, and/or ultimate at the following maximum values:

Maximum Torque: 780 ft·lb (1056.6 Nm) @ 25.5 RPM
Maximum Speed: 535 RPM @ 52 ft·lb (70 Nm)
Maximum Tension: 300 000 N (67 443 lb)

*The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications nor does it confer accreditation for the method(s) embedded within the specifications.*



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| Test | Test Method[1] |
|---|---|
| Torque-Tension | GM6076M (Superseded 9/12), GM4435M (Superseded 2/13), GM7113M (Superseded 05/11), GM7114M (Superseded 2/14) |
| Torsional Strength | GM512M (Superseded 1/13) , 6202M (Superseded 1/13) |

[1]NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

[2]This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies listed above and parameters listed below.

American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

## PCB PIEZOTRONICS, INC., PCB LOAD AND TORQUE DIVISION

*Farmington Hills, MI*

for technical competence in the field of

## Mechanical 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 14th day of August 2014.

President & CEO
For the Accreditation Council
Certificate Number 1015.02
Valid to April 30, 2016
Revised September 10, 2014

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