



Accredited Laboratory

A2LA has accredited

MCGARD LLC/L.D. MCCAULEY LLC

Orchard Park, NY

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 31st day of January 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4743.01
Valid to February 29, 2020

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MCGARD LLC/L.D. MCCAULEY LLC
 3875 California Rd.
 Orchard Park, NY 14127
 Dennis James Sieracki Phone: 716 445 0486

MECHANICAL

Valid To: February 29, 2020

Certificate Number: 4743.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on specialty fasteners, security fasteners, and security devices.

Test(s):	Test Method(s):
Metallurgy Lab: Depth of Decarburization Case Depth Inclusions in Steel Macro Evaluation Micro Hardness (Knoop & Vickers)	ASTM E1077; SAE J419, J121 ² (<i>withdrawn 2013</i>) ASTM F2328; SAE J423 ASTM E45 (<i>Methods A & D</i>); SAE J422 ASTM E340 ASTM E384
Engineering Lab: Torque Cycle Testing Torque Tension Testing Torque to Failure/Static Testing Impact Cycle Testing L-Handle Cycle Testing Security Testing Cyclic Fatigue Testing Offset Wrench Testing Wheel Cleaner Testing Damageability <i>Chemical Testing:</i> Resistance to Fluids	LTP 2 Automatic ¹ , LTP 3 Manual ¹ GMW 14994, 14995; ISO 16047; LTP1 LTP 2 Automatic ¹ , LTP 3 Manual ¹ LTP 18 Automatic, LTP 14 Manual LTP 21 Automatic, LTP 4 Manual Thatcham CAT 4 LTP 46 ¹ LTP 13 Manual, LTP 33 Automatic LTP 29, LTP 30 ¹ Ford ES-E1BC-1012-AA; LTP 2 ¹ , LTP 3 ¹ , LTP 14, LTP 18 GMW 14334 Class B; LTP 29, LTP 30 ¹
Plating Lab: Cass Spray Salt Spray Corrodekote Thickness of Platings (x-ray) Adhesion/Thermal Shock Coulometric/Pore Count	ASTM B368; GMW 14458; Toyota PPS-1001; ISO9227 ASTM B117; GMW 3286: Chrysler 463PB-10-01; GM 4298P ASTM B380 ISO 3497, 2177; ASTM B487, B568 GMW 14672; ASTM B571 GMW 14672 Class B

Test(s):	Test Method(s):
Quality Assurance Lab: Hardness (Rockwell) A, B, C, 15N, 30N, 45N DeEmbrittlement on Lock and Key Assemblies Proofload/Compression (Tinius) Tensile (Tinius) Magnaflux (Discontinuities) Magni Adhesion	ASTM E18, E140, E10, A623, B294, F606/F606M SAE/USCAR-7 ASTM F606/F606M, A370; SAE J1216; GMW 17370 ASTM A370, B557, E8/E8M; Chrysler PS 7138 GMW 17370; ISO 6157; ASTM E340 ASTM D3359 Method A

¹This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies and parameters listed above.

²This 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.