



SURFACE VEHICLE RECOMMENDED PRACTICE

J3010™

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Superseding J3010 FEB2020

Registration and Conformity Assessment Process
for Passenger Cars and Light Trucks Wheels

RATIONALE

This technical report is stabilized because the technical committee cannot find users for this document.

STABILIZED NOTICE

This document has been declared "STABILIZED" by SAE Wheel Standards Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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1. SCOPE

The SAE J2530 provides performance, sampling, test procedures, and marking requirements for wheels intended for normal highway use on passenger cars, light trucks, and multipurpose passenger vehicle. This Recommended Practice (which is separate from SAE J2530) specifies the workflow of the Wheel Conformity Assessment Program. This program allows wheel manufacturers to register their product compliant to SAE J3010. The following items precede display of “SAE J3010” on any particular wheel design:

a. Manufacturer registration

All manufactures with the objective to pursue registration, shall complete the registration as an individual manufacturer via the registrar's website <http://wheeldb.registrar.domain>. The registration includes company contact information, wheels produced, and company identification marks.

b. Wheel design certification

All wheel designs intended for certification in accordance to this Recommended Practice, shall complete the application and submittal of test results via the above stated registrar website and in accordance to the procedures herewith.

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c. Use of SAE J3010

Upon completion of the conformity assessment process, the Program Manager will post the image, identification, and conformity report of the wheel design on the corresponding website. Use of the "SAE J3010" mark in any form is restricted only to wheels noted in the online version of the Comprehensive Wheel Registry (REG-CWR).

d. Wheel test facility or laboratory accreditation registration

All facilities or laboratories (first-, second-, or third-party) intended for wheel testing under the subject conformity assessment process, shall complete the application and submittal of test results via the above stated registrar website and in accordance to the procedures herewith. Accreditation from the registrar is required before providing valid test reports as part of this conformity assessment program.

Manufacturers of wheels for passenger cars and light trucks, who advertise their products as "Conforms to SAE J3010" and label their product with the "SAE J3010" mark, shall follow these procedures. Conformity assessment of products to SAE J3010 is voluntary; however, adherence to these procedures is mandatory for those advertising their products as "Conforming to SAE J3010." Wheel designs using the "SAE J3010" mark meet the requirements of SAE J2530.

This conformity assessment program does not include other parameters like inner profile of the wheel and fitment to the brake or vehicle suspension, ventilation hole cooling efficiency, wheel attachment or length of thread engagement, etc., which are necessary for complete fitment and suitability to vehicles.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J175 Wheels - Impact Test Procedures-Road Vehicles

SAE J328 Wheels - Passenger Car and Light Truck Performance Requirements and Test Procedures

SAE J2530 Aftermarket Wheels - Passenger Cars and Light Truck - Performance Requirements and Test Procedures

2.1.2 ANSI Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

NCAP National Conformity Assessment Principles for the United States

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 ISO Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 5725-5	Accuracy (trueness and precision) of measurement methods and results - Part 5: Alternative methods for the determination of the precision of a standard measurement method
ISO 5725-6	Accuracy (trueness and precision) of measurement methods and results - Part 6: Use in practice of accuracy values
ISO 13528	Statistical methods for use in proficiency testing by interlaboratory comparisons
ISO 16949	Quality management systems - Particular requirements for the application of ISO 9001:2008 for automotive production and relevant service part organizations
ISO 17025	General requirements for the competence of testing and calibration laboratories
ISO/IEC 17000	Conformity Assessment - Vocabulary and General Principles

2.2.2 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6297, <http://www.nhtsa.gov/about/importsafety>.

Recommended Best Practices for Importers of Motor Vehicles and Motor Vehicle Equipment

3. DEFINITIONS

In addition to all definitions from applicable publications (see 2.1), the following definitions apply.

3.1 MANUFACTURER OR IMPORTER OF RECORD

U.S. Customs term for the entity responsible for (1) ensuring the imported goods comply with local laws and regulations, (2) filing a completed duty entry and associated documents, and (3) paying the assessed import duties and other taxes on those goods.

3.2 REMANUFACTURER

An identifiable and unique company that reworks or modifies an existing wheel including (1) refinishing, (2) subassembly, or (3) repairing to install back on a vehicle.

3.3 VEHICLE MANUFACTURER

An identifiable and unique company, which manufactures and retails on-road vehicles (fitted with original wheel and tire assemblies) under the company's brand name(s).

3.4 WHEEL MANUFACTURER, PRODUCER, OR FABRICATOR

An identifiable and unique company producing a vehicle wheel from raw material into a final product with a unique part number and ready to be installed on a vehicle.

3.5 WHEEL SUPPLIER

An identifiable and unique company selling wheels to the market using a specific design with a unique code, marking, and under a proprietary brand. Wheel supplier also applies as a general term to reference companies fulfilling any definitions per items 3.1 to 3.4.

3.6 WHEEL DESIGN

Wheels which do share the same characteristics regarding (1) manufacturer, (2) construction material (ferrous, aluminum, magnesium, etc.), (3) construction method (one-piece welded, two-piece, forged, cast, stamped, etc.), (4) vary only in width and offset, and number of wheel attachment holes, (5) maximum load capacity, (6) maximum tire diameter, (7) casting mold or finished forging, and (8) machining lines for turning operations, can be treated as structurally equivalent. Other changes in wheels may require retesting in accordance to SAE J2530, section 5.3. If wheels come from different manufacturing sites, the manufacturer must select the worst-case (older equipment, newer staff, lower overall quality or higher product variability, etc.) facility to obtain the actual wheels for testing. If testing from the worst-case facility meets the acceptance criteria, the registration can be extended to all equivalent facilities. The manufacturer shall exercise due diligence to ensure the sampling for testing represents the entire manufacturing operation.

3.7 REGISTRAR (or program manager)

Entity that manages and supervises (a) registration of wheel suppliers (b) conformity assessment and registration of wheel designs, and (c) registration and approval of testing facilities through a technical committee. The registrar also administers the website and the applicable databases required for the proper operation of the herein defined program and a listing of approved suppliers of reference wheels.

3.8 SAE J3010 TASK FORCE

Industry-appointed committee responsibly of reviewing, directing, approving, or removing specific wheel designs or testing facilities as part of this conformity assessment program.

3.9 APPROVED TESTING FACILITY OR LABORATORY

Entity or division within a company dedicated to conducting wheel testing per applicable test procedures indicated herein as part of their scope of testing, with demonstrated competence and the ability to fulfill all requirements of this Recommended Practice.

3.10 WHITE-MARKED WHEEL

SAE J3010-W1-C Wheel design and construction used as a reference wheel for dynamic cornering fatigue test per Figure 1 and available through the registrar's website.

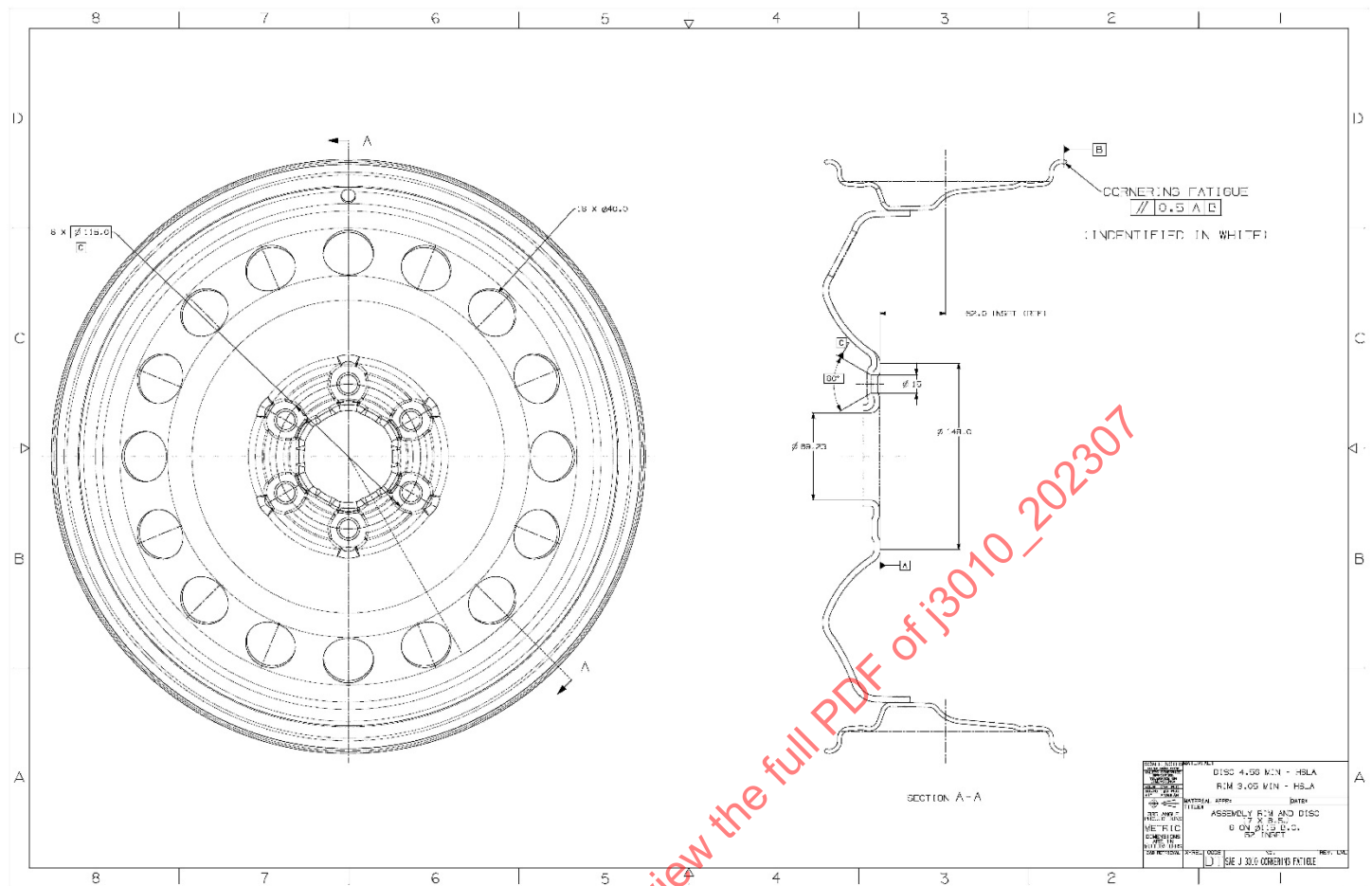


Figure 1 - SAE J3010-W1-C white-marked wheel

3.11 Green-marked wheel

SAE J3010-W1-R Wheel design and construction used as a reference wheel for dynamic radial fatigue test per figure 2 and available through the registrar's website. The wheel is machined to generate a non-concentric groove with the same diameter of the rim well and with a radius tangent to the 17° lines as shown in figure 2. This groove provides a localized stress riser that will give a lower and predictable fatigue life for equipment calibration.

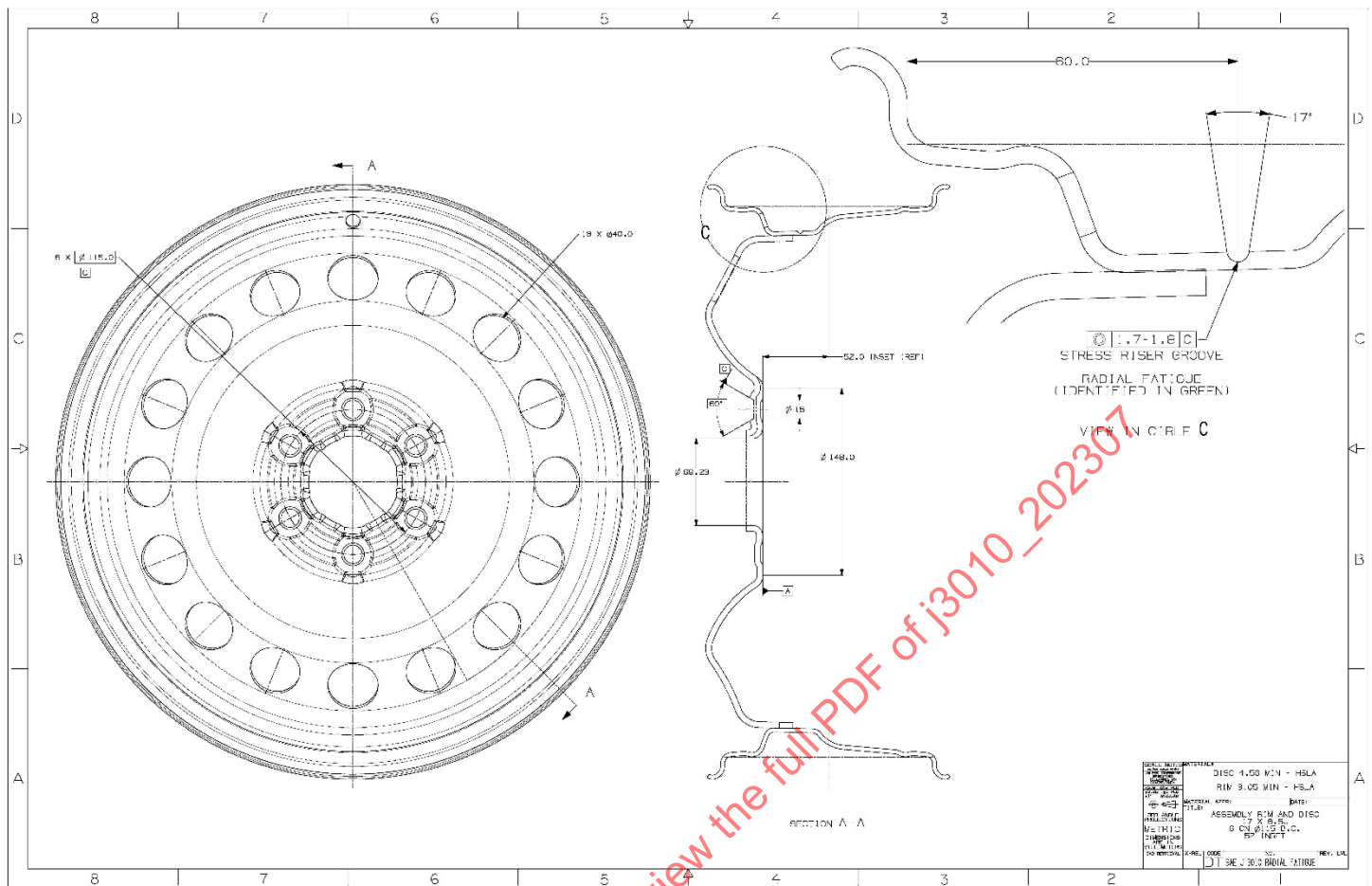


Figure 2 - SAEJ3010-W1-R green-marked wheel

4. WHEEL MANUFACTURER REGISTRATION

This registration; allows the wheel supplier to obtain a unique identification code for future submissions of wheel families for conformity assessment per SAE J3010. The addition of a given company on the wheel registry does not constitute conformance or endorsement of its products. The registration process is conducted online (see 1.a) and includes basic information regarding:

- New or additional registration
- Type of manufacturer (producer, remanufacturer, importer, or vehicle manufacturer)
- Type of vehicle for which wheels are supplied (passenger car, truck, buses, multipurpose, recreational, or trailer)
- Vehicle application for which wheels are supplied (on-road, off-road, military, or other)
- Wheel identification (brand in English language, country of origin, and example of wheel marking)
- Company and executive representative
- Plant(s) location(s) and complete address(es)
- Submission representative

5. 4-YEAR WHEEL DESIGN CERTIFICATION (CONFORMITY ASSESSMENT)

A wheel supplier requiring the inclusion of a wheel design to the REG-CWR, and planning on using the “SAE J3010” mark on its product(s), shall perform the following steps:

- 5.1 Fill-out and submit online an Application for Wheel Manufacturers Registry.
- 5.2 Pay any fees due and obtain a valid registration number.
- 5.3 Conduct wheel sampling for testing and determine the number of samples for testing under dynamic cornering fatigue, dynamic radial fatigue, and impact (see SAE J2530).
- 5.4 Submit to a registered testing facility or laboratory (see 1.d) test samples with markings, and SAE J3010 wheel identification report.
- 5.5 Coordinate the test execution at the testing facility or laboratory, respond diligently to any inquiry during testing with direct bearing on the test results, and review the corresponding test reports for correctness and completeness.
- 5.6 Upon conformance to test requirements stated by the test facility or laboratory, request the testing facility or laboratory to submit online to the registrar the applicable forms (see Appendix A for examples). Alternatively, the wheel supplier may choose to submit test results from equal or more stringent testing protocol. In the latter case, the supplier needs to provide the corresponding test conditions and acceptance criteria.

NOTE: All test reports and documentation referring to a SAE standard or Recommended Practice as part of the certification program shall indicate the revision date. e.g.,: SAE J175:2003, SAE J2530:2009, etc.

- 5.7 Request the registrar to update the REG-CWR with the information furnished on item 5.6.
- 5.8 Coordinate with the registrar and the testing facility or laboratory the surveillance tests and the 4-year recertification testing activities.

6. REQUIREMENTS AND OPTIONS FOR SUPPLIERS WITH WHEEL DESIGNS ON THE REG-CWR

All wheel suppliers with wheel designs on the current REG-CWR shall fulfill the following requirements:

- 6.1 Use the “SAE J3010” mark or label within the terms specified herein. Alternatively, the supplier can use the “SAE J2530” mark. Wheels tested and meeting the SAE J2530 requirements, but not fulfilling all the requirements of this Recommended Practice, can use only the “SAE J2530” mark.
- 6.2 Maintain current quality system accreditation.
- 6.3 Promptly notify the registrar and take appropriate actions when any of its products are subject to (or suspected of) counterfeit activities.
- 6.4 Notify and update the appropriate documentation online when a product mark or label is modified affecting the manufacturer registry or the wheel identification report.
- 6.5 Notify the registrar within 60 calendar days of any of the following circumstances for a product on the REG-CWR, and present all the appropriate documentation:
 - a. Company or product changes that would modify the applicable Wheel Manufacturers Registry.
 - b. Product or manufacturing changes that would modify the applicable SAE J3010 wheel identification report.
 - c. Product or manufacturing changes which would modify the product design, geometry, or specifications (see SAE J2530).

- d. Changes to its quality system policies or accreditation (including surveillance audits with major non-conformities not resolved to the satisfaction of the surveillance body) involving (1) any product(s) using the “SAE J3010” mark, or (2) any manufacturing facility indicated on the Wheel Manufacturer Registry.
 - e. When there is evidence the product performance has deteriorated with potential non-compliance to the SAE J2530.
- 6.6 Keep all documentation related to the conformity assessment program available upon request for a minimum of five calendar years.

All wheel suppliers with wheel designs on the current REG-CWR can conduct any of the following activities:

- 6.7 Add or remove wheel designs or manufacturing facilities from the conformity assessment program.
- 6.8 Promote, advertise, and present in technical literature, and product specification the availability of wheels with the “SAE J3010” mark, without incurring in any royalty to third parties.
- 6.9 Use different testing facilities or laboratories to reflect geographical, logistical, technical, or business conditions.
- 6.10 Present to the registrar concerns, complaints, or claims properly substantiated when a program participant is not fulfilling the applicable terms and conditions of this conformity assessment program.
- 6.11 Present to the registrar situations where a wheel supplier is misusing or abusing the SAE J3010 mark.
- 6.12 Reapply for addition of a given wheel design (previously removed) to the REG-CWR.

7. REQUIREMENTS AND OPTIONS FOR APPROVED TESTING FACILITIES AND LABORATORIES

All testing facilities and laboratories (first, second, or third party) approved and active on the SAE J3010 conformity assessment program shall:

- 7.1 Maintain a quality system accreditation to ISO 17025 (including internal laboratories for ISO/TS 16949-accredited facilities) with an accreditation body signatory to the International Laboratory Accreditation Cooperation's Mutual Recognition Agreement (ILAC-MRA).
- 7.2 Notify promptly the registrar and take appropriate actions when any of its service or test reports are subject to (or suspected of) counterfeit activities.
- 7.3 Notify the registrar and any wheel supplier affected, within 60 calendar days of any of the following circumstances, and present all the appropriate documentation:
- a. Company or testing services changes that would modify the applicable laboratory certification.
 - b. Testing system or testing facilities changes that would affect the execution of SAE J2530 testing.
 - c. Discontinued services.
 - d. Changes to its quality system accreditation (including surveillance audits with major non-conformities not resolved to the satisfaction of the surveillance body) involving (1) any testing system (or test stations) used for SAE J2530 testing, or (2) any testing facility indicated on the laboratory certification.
- 7.4 Notify the registrar and any wheel supplier affected, within 30 business days of any of the following circumstances, and present all the appropriate documentation:
- a. Detection of defective test(s), defective test system(s), or defective test station(s) which compromise(s) test results referenced on the REG-CWR.
 - b. Detection of defective test report(s) submitted for inclusion on the REG-CWR or during surveillance testing.

- 7.5 Keep all documentation related to the conformity assessment program available upon request for a minimum of five calendar years.
- 7.6 All testing facilities or laboratories can conduct any of the following activities:
- a. Add or remove testing systems or facilities from the conformity assessment program.
 - b. Promote, advertise, and present in technical literature, and product specification the availability of wheels testing services for products which will (or can) use the “SAE J3010” mark, without incurring in any royalty to third parties.
 - c. Use different testing facilities or laboratories to reflect geographical, logistical, technical, or business conditions.
 - d. Present to the registrar concerns, complaints, or claims properly substantiated when a program participant is not fulfilling the applicable terms and conditions of this conformity assessment program.
 - e. Present to the registrar situations where a wheel supplier is misusing or abusing the SAE J3010 mark.

8. REQUIREMENTS AND OPTIONS FOR THE SAE J3010 CONFORMITY ASSESSMENT REGISTRAR OR PROGRAM MANAGEMENT

The management of this conformity assessment program shall:

- 8.1 Take the appropriate legal, administrative, and technical actions to safeguard and protect the use of the “SAE J3010” mark and the SAE J3010 conformity assessment program.
- 8.2 Maintain and make available to all potential users (wheel suppliers, customers, and testing facilities or laboratories) the website to administer the SAE J3010 program.
- 8.3 Maintain up-to-date all files and documentation related to the program.
- 8.4 Maintain the program’s website <http://wheeldb.registrar.domain> with all wheels with the specific category of (1) approved, (2) suspended, (3) removed, or (4) withdrawn.
- 8.5 Notify and present wheel suppliers and testing facilities or laboratories with at least 30 calendar days with intended changes to forms and to the registrar’s website <http://wheeldb.registrar.domain>.
- 8.6 Exercise due diligence and adhere to its applicable quality system accreditation and policies in all business related to this conformity assessment program - including coordination with applicable SAE Committees and task forces involved or affected by the SAE J3010 conformity assessment program.
- 8.7 Request meetings or reviews by the appropriate SAE Committees or the SAE J3010 task force as needed.
- 8.8 Assign a blind code to the individual test reports for a wheel design and present to the SAE J3010 task force for review and determination of compliance to the requirements of the program.
- 8.9 Assign a blind code to the test results from all applicant testing facilities or laboratories to present to the SAE J3010 task force during initial certification, periodic recertification, or during proficiency testing. The individual testing facility can waive this requirement and allow the full disclosure of its name and location.
- 8.10 Coordinate the timely updates and activities regarding surveillance tests and 4-year recertification for wheel suppliers and testing facilities or laboratories to avoid lapses on the different certifications.
 - a. Except for wheel designs undergoing surveillance testing, extend for another 4-year period all the approved certifications on the REG-CWR.
 - b. Except for test systems or test stations undergoing verification testing, extend for another 4-year period all the approvals for testing facilities or laboratories.

- 8.11 Update the following items within 30 calendar days on the registrar's website to reflect additions, suspensions, or removals related to:
- Wheel manufacturer registry, REG-CWR, and approved laboratory listing.
 - Proven counterfeit activities by a wheel supplier or retailer.
 - Confirmed misuse, abuse, or any illegal application of the "SAE J3010" or the "SAE J2530" mark.
- 8.12 Keep all documentation related to the conformity assessment program available upon request for a minimum of five calendar years.
- 8.13 Maintain a listing on its website of all reference wheels with SAE J3010 ID, size, part number, and date of manufacture.

The management of the registrar conformity assessment program can conduct any of the following activities:

- 8.14 Initiate formal reviews (administrative or technical with the appropriate entity) when issues, complaints, or challenges to the REG-CWR are brought to its attention.
- 8.15 Expand the coverage and media used to promote and interact with the public regarding the SAE J3010.

9. SAMPLING PLAN SURVEILLANCE TESTS AND 4-YEAR RECERTIFICATION

For continuously produced parts, as wheels are for most applications, their performance may change over time, which could affect its continuing compliance to the requirements of SAE J3010. In addition, the end-user may require ongoing demonstrations that specified requirements are fulfilled satisfactorily (see ISO/IEC 17000). In order to fulfill these requirements, coordinate with the testing facility the following sampling process:

- 9.1 Production audit testing for each wheel designs active on the REG-CWR: test one sample per 10 000 wheel produced test under each procedure per SAE J2530 (dynamic cornering fatigue, dynamic radial fatigue, and lateral impact).
- 9.2 4 Year-recertification for all wheel designs active on the AE-CWR: test one sample per wheel under each procedure per SAE J2530 (dynamic cornering fatigue, dynamic radial fatigue, and lateral impact).
- 9.3 Out-of-production designs: repeat initial testing plan for wheels which have been out of production for four years or longer.

10. TESTING FACILITY OR LABORATORY REGISTRATION AND APPROVAL

- 10.1 Documentation to present or have available upon request with the following requirements:

10.1.1 General:

- All documents in English language or with formal translation into English.
- Use only predefined electronic forms for submission.
- Documentation traffic through the registrar's website.
- Each certified facility is responsible to keep its certification, contact, and facility information current.

10.1.2 Laboratory/facility accreditations:

- Current at the time of submission the ISO 17025 or ISO/TS 16949 from an accreditation body under the Mutual Recognition Agreement (MRA) from International Laboratory Accreditation Cooperation (ILAC) <https://www.ilac.org/home.html>.
- Identify clearly the test facility or laboratory location.
- Scope of accreditation including all applicable procedures per SAE J2530 as part of their quality management system documentation.
- Machine/station description:
 - Full-scale
 - Uncertainty of measurement
 - Digital images of each machine/station

10.1.3 Test system or test station calibration

- a. Calibration certificates or reports for each machine/station submitted from an accredited calibration service.
- b. Calibration parameters per SAE J328 and SAE J175 (including height compensation for machine losses).
- c. Calibration reports with not more than six-months-old.
- d. Calibration certifications submitted every year for each machine/station.

10.2 Laboratory accreditation and registration process

10.2.1 Workflow for Initial certification:

- a. Application and facility registry number.
- b. Submit laboratory certification.
- c. Submit digital images of each machine/station.
- d. Upon review, OEM accreditation certification is sufficient to grant formal Program Manager approval.
- e. Pay all applicable fees to Program Manager.
- f. Program Manager to review documentation.
- g. Upon Program Manager approval, proceed to acquire parts and conduct certification testing.
- h. Submit test results to Program Manager or assigned entity using the approved forms.
- i. Program Manager will assign blind code to the test results.
- j. Program Manager to review submissions and documentation in conjunction with the SAE J3010 Task Force of the SAE Wheel Committee per the agreed-upon criteria (see ISO 5725-5 and ISO 5725-6) for (1) test-to-test repeatability, and (2) machine-to-machine or station-to-station reproducibility.
- k. Program Manager (in accordance with the SAE J3010 Task Force) recommends action on certification status: (1) reject and repeat process (applicable steps), (2) repeat applicable testing, (3) submit additional data or documentation, (4) release formal certification, or (5) the registrar to post formal certification within 60 calendar days.

10.2.2 Recertification:

- a. Update applicable contact or facility information.
- b. Every year submit to the registrar copy of the current laboratory quality system accreditation.
- c. Submit every four years to the registrar test results for at least two tests per machine/station to verify test results on the reference wheel is within the acceptable limits for (1) test-to-test repeatability, and (2) machine-to-machine or station-to-station reproducibility.
- d. Submit OEM accreditation if applicable.

10.3 Proficiency evaluation for testing facilities or laboratories per SAE J2530

NOTE: Other wheel designs are possible as reference(s) after proper validation and evaluation by the task-force in association with the registrar. This evaluation may include (1) wheel design, envelope and interface dimensions, (2) homogeneity and stability checks, (3) failure modes and fatigue life parameters, (4) logistics and procurement procedure and access to interested parties.

10.3.1 Certification article (reference wheel):

- a. (SAEJ3010-W1-mmyy): 17 x 6.5 steel wheels; 6 mounting lugs on a 115 mm bolt circle (6 x Ø 115 mm) with "mmyy" indicating the date of manufacture.
- b. (SAEJ3010-T1): P225/60R17 tires
- c. (SAEJ3010-S1): M12 x 1.5 studs
- d. (SAEJ3010-N1): nut
- e. (SAEJ3010-A1): test adaptor and wear plate

10.3.2 Test parameters for dynamic cornering fatigue verification tests:

- a. Test article: SAEJ3010-W1-C with current reference wheel generation color-coded white (see Figure 1).
- b. Nut torque of 160 N·m
- c. Test conditions: 4500 N·m
- d. Sampling: minimum three wheels tested to machine shut-down
- e. Suspend at 500 000 cycles if no machine shut-down occurs

- f. Minimum data submission per machine:
 - 1. Machine identification.
 - 2. Total cycle count to shut-down to 120% deflection.
 - 3. Digital image of the crack(s) with description.
 - 4. End-of-test torques.
 - 5. Digital images of test setup at the Beginning of Test (BOT) with the certification article on the test position.
 - 6. Test start and completion dates.

10.3.3 Test parameters for dynamic radial fatigue verification tests:

- a. Test article: SAEJ3010-W1-R with current reference wheel generation color-coded green (See Figure 2).
- b. Nut torque of 140 N·m.
- c. Test conditions: 20 640 N at 80 km/h; cold tire pressure 550 kPa (80 psi).
- d. Sampling: minimum three wheels tested to machine shut-down.
- e. Suspend at 5 000 000 cycles if no machine shut-down occurs.
- f. Minimum data submission per machine/station:
 - 1. Machine/station identification.
 - 2. Total cycle count to deflection shut-down.
 - 3. Digital image of the crack(s) with description.
 - 4. End-of-test tire pressure.
 - 5. Digital images of test setup at the Beginning of Test - BOT with the certification article on the test position.
 - 6. Test start and completion dates.

10.3.4 Test parameters for lateral impact verification tests:

- a. Test article: SAEJ3010-W1-C or SAEJ301-W1-R wheel at 140 N·m nut torque.
- b. Test conditions: 630 kg; nominal height 230 mm; cold tire pressure 200 kPa (29 psi).
- c. Sampling: minimum of three wheels.
- d. Minimum data submission.
 - 1. Nominal and actual drop height for the test.
 - 2. Digital image of the crack(s) with description.
 - 3. End-of-test tire pressure.
 - 4. Digital images of test setup at the Beginning of Test (BOT) with the certification article on the test position.
 - 5. Date of test.

11. NOTES

11.1 Marginal Indicia

A change bar (I) located in the left margin is for the convenience of the user in locating areas where technical revisions, not editorial changes, have been made to the previous issue of this document. An (R) symbol to the left of the document title indicates a complete revision of the document, including technical revisions. Change bars and (R) are not used in original publications, nor in documents that contain editorial changes only.

PREPARED BY THE SAE WHEEL STANDARDS COMMITTEE

APPENDIX A - SAE J3010 TEST REQUEST AND CONFORMITY ASSESSMENT REPORTS

Figures A.1 to A.7 show examples of the different forms and certification reports for a given wheel design. These forms in Microsoft Excel® format are available to the testing facilities and laboratories at the registrar's website.

SAE J3010	Machine (or station) and laboratory approval (submitted by the laboratory to the registrar)
SAE J3010	Test request form (submitted by the wheel supplier to the approved laboratory)
SAE J3010	Wheel identification report (submitted by the laboratory to the program registrar)
SAE J3010	Dynamic cornering fatigue certification reports (one per bolt circle and submitted by the laboratory to the program registrar)
SAE J3010	Dynamic radial fatigue certification report (submitted by the laboratory to the program registrar)
SAE J3010	Lateral impact certification report (submitted by the laboratory to the program registrar)
SAE J3010	Summary SAE J3010 certification report (submitted by the laboratory to the program registrar)

NOTE: The wheel supplier, wheel, and tire information shown on the forms below are fictitious. They do not reflect an actual wheel or tire specification, nor do they represent a required, or a safe performance level

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Machine/station request for approval per SAE J3010 section 10 COMPLETE ONE FORM PER MACHINE	Laboratory ID in Registrar's laboratory registry
Corporate information	
Corporate name Corporate full address	ABC Testing Services
Corporate representative contact information	
Joe Senior Joe Senior title	Joe Senior e-mail Joe Senior phone number
Test facility information	
Test facility name Test facility full address	ABC Testing Labs. (LAB123)
Test facility representative contact information	
Joe Junior Joe Junior title	Joe Junior e-mail Joe Junior phone number
Machine and station information	
Manufacturer / model number / serial number Calibration report Last calibration date	ABC / ABC XXXX / 0123456 CAL0001 6/30/2014
Radial fatigue	
Machine ID Number of stations Stations ID Full scales / Uncertainty of measurement (% FSR): Force / N Drum speed / km/h Drum diameter / m Station ID / test reports Station ID / test reports Station ID / test reports Station ID / test reports	R1 2 R1/1, R1/2 40 000 / 0.5% 160 / 0.65% 1.7 R1/1 / LAB14011-1 R1/2 / LAB14011-2
Cornering fatigue	
Machine ID Full scales / Uncertainty of measurement (% FSR): Force / N Wheel speed / RPM Moment arm / mm Wheel deflection / mm Station ID / test reports	
Impact	
Machine ID Full scales / Uncertainty of measurement (% FSR): Drop height / mm Drop mass / kg Drop velocity / m/s Station ID / test reports	
Additional information or forms attached	
ISO 17025 / ISO/TS 16949 accreditation Scope of work with SAE J2530 test methods Digital pictures for each station Digital pictures of entire machine Calibration report(s) Individual test reports (per Figures A.4, A.5, or A.6 as applicable)	Yes Yes Yes Yes Yes Yes
Assessment of conformity to SAE J3010 laboratory approval requirements	
Registrar representative Date issued Expiration date	registrar rep name and signature 7/31/2014 7/31/2018

Figure A.1 - SAE J3010 machine (or station) and laboratory approval

Name or logo approved test Requestor	Wheel supplier and ID in Registrar's manufacturer registry
Name or part number to be tested	12345X
Number of samples per test	
Dynamic cornering fatigue	2
Dynamic radial fatigue	2
Impact test	1
Test Requester Contact	Joe Junior
Specification	SAE J2530:2009
Test Parameters of wheel to be tested	
Wheel material (steel, Al6061, Al 356)	Steel
Wheel size	17 x 6.5
Offset / mm	55
Stud size / mm	M 14 x 1.5
Tire size recommended (largest)	LT 245/75 R17 E
Bolt pattern / n x Ø BC mm	8 x Ø 200 mm
Finish (painted, chrome, etc)	Chrome
Max rated tire pressure / kPa or psi	80 psi
Nut seat shape (conical, flat, spherical)	Conical
Maximum wheel rated load / N or lbs	3000 lbs
Wheel Identification	
Wheel ID	12345X
Manufacturer's part number or code	ABC
Date of manufacture	04/14
Country of manufacture	USA
Applicable safety standard	DOT-T
Description of wheel group where applicable	
Bolt Circle(s)	8 x Ø 165 mm, 8 x Ø 200 mm
Offset(s) / mm	45, 55
Finishe(s)	Chrome and painted
Comments:	
Test requestor's contact information	
Joe Junior	joe junior e-mail
Joe Junior title	joe Junior phone number

Figure A.2 - SAE J3010 test request form