



Compartment Tool Stow

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. This General Specification defines basic requirements and tests for the toolbox system. Additional project specific requirements are defined in the relevant project Component Technical Specification (CTS) and Subsystem Technical Specification (SSTS).

1.2 Applicability. It is being classified according to a toolbox for the tire repair kit and a toolbox for the tool equipment of passenger car and light crossover trucks with spare wheel or mini spare wheel.

1.2.1 Toolbox for the Tire Repair System.

- Alternative 1: In the spare wheel tub. Retrofitting of tools feasible.
- Alternative 2: In the side panel. No further retrofitting of tools feasible except the necessary base tool set.

1.2.2 Toolbox in Combination with the Spare Wheel. Always located under the spare wheel.

1.3 Remarks. Scope of this General Specification is the introduction of the process for development and testing of compartments to meet the function and the quality for the customer.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

EN 10204 ISO 17025

2.2 GM Standards/Specifications.

GMW3059 GMW3116

2.3 Additional References.

- Component Technical Specifications (CTS)
- Federal Health Office Requirements
- Quality System Assessment (QSA)
- Subsystem Technical Specifications (SSTS)

3 Test Preparation and Evaluation

All tests are applied to the single components in final location and orientation in the vehicle or comparable simulation (agreement with releasing area necessary).

During the test no malfunction, damages or deformations may occur.

3.1 Resources. If not stated otherwise, resources as required by the indicated test methods, test specifications, standards and legal specifications.

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

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3.1.3 Facilities. The facilities should be ISO 17025 certified, or certified/approved by GM.

3.1.4 Equipment. Not applicable.

3.1.5 Test Vehicle/Test Piece.

3.1.5.1 Test Samples. Unless otherwise specified for initial sample approval and release, according to this specification, at least twenty (20) complete test samples shall be supplied with a specific test report to EN 10204. However, in the case of systems of the same basic design which differ in type, at least two (2) additional test samples shall be supplied for each type.

The test samples shall be numbered consecutively. The specific test report shall contain the specified values and the actual values of the material and functional requirements indicated on the drawing as determined by the supplier.

In case of doubt, the number of test samples shall be agreed upon with the Product Engineering Department and the responsible laboratory.

3.1.6 Test Time. Not applicable.

3.1.7 Test Required Information. Not applicable.

3.1.8 Personnel/Skills. Not applicable.

3.2 Preparation. Not applicable.

3.3 Conditions.

3.3.1 Environmental Conditions. If not stated otherwise in the test procedure, tests are performed at room temperature of $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$.

3.3.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

3.3.2.1 Unless otherwise specified in the relevant tests, tests shall be performed in the as-received condition without any special preconditioning.

3.4 Instructions. Not applicable.

3.5 Data. Not applicable.

3.6 Safety.

This standard may involve hazardous materials, operations, and equipment. This standard does not propose to address all the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

3.7 Documentation. Samples of components or material released to this standard shall be tested for conformity with the requirements of this standard and approved by the responsible GM Department prior to the start of delivery of production level components or materials.

Any change to the component or material, e.g., design, function, properties, manufacturing process and/or location of manufacture requires a new release of the product. It is the sole responsibility of the supplier to provide the customer, unsolicited, with documentation of any change or modification to the product/process, and to apply for a new release.

If not otherwise agreed to, the entire verification test shall be repeated and documented by the supplier prior to start of delivery of the modified or changed product. In some cases, a shorter test can be agreed to between the responsible GM department and the supplier.

3.7.1 Test Results. The test results must fulfill the requirements of the Quality System Assessment (QSA) and need to be available and put together accordingly. The results are to be summarized according to the ordinal numbers of this specification.

4 Requirements and Procedure

Note: In the event of a conflict, the project specific documentation in SSTS and/or CTS shall take precedence.

4.1 General. The requirements are defined in the following paragraphs and the relevant test procedures are referenced.

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