FMVSR563 – SDM EDR Test Procedure

1 Scope

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. To verify the Sensing and Diagnostic Module (SDM) meets the FMVSR563 requirements for Event Data Recorders (EDR).

1.2 Foreword. This procedure tests the SDM EDR functionality as required by FMVSR563.

1.3 Applicability. This test procedure applies to SDMs in production for Model Year 2013 (MY13) and beyond**.**

2 References

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

2.1 External Standards/Specifications.

FMVSR563

2.2 GM Standards/Specifications.

None

2.3 Additional References.

CG3067

3 Resources

3.1 Facilities. This procedure can be performed on a safety subsystem bench.

3.2 Equipment. A serial data interface and supporting computer. Application Software is required.

3.3 Test Vehicle/Test Piece. Subsystem Bench (fully populated with necessary subsystem inner/outer (I/O) with the appropriate revisions of hardware and software for each relevant module.

3.4 Test Time. Not applicable.

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. The minimum required skill set to fully understand and execute this test procedure.

4 Procedure

4.1 Preparation. Verify that the SDM is in development mode and it has correct hardware and software levels.

4.2 Conditions. The full test procedure should be performed at a system voltage of 13 V. Normal functionality should be tested at a system bench voltage of 9 V and at 16 V.

4.2.1 Environmental Conditions. Test at room temperature.

4.2.2 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.

4.3 Instructions. Reference CG3067.

5 Data

5.1 Calculations. Not applicable.

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5.2 Interpretation of Results. In order for the result to be considered a “Pass”, all of the data acquired during the testing must match the expected result as described in the test procedure.

5.3 Test Documentation. Prepare an Evaluation Report including any unusual observations and attach the completed CG3067.

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.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols.

EDR Event Data Recorder

I/O Inner/outer

MY13 Model Year 2013

SDM Sensing and Diagnostic Module

8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Test to GMW16773

9 Release and Revisions

This standard was originated in February 2012. It was first approved by the Global Occupant Protection Workgroup in March 2012. It was first published in March 2012.

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1	March 2012	Initial publication.

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