



Durability Event: Speed Bump

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. To subject a vehicle onto a Speed Bump similar to that encountered by a customer.

1.2 Applicability. The test instructions covered in this standard are intended for use in passenger car and truck testing and should be adapted at all major GM test sites:

- CheongNa Proving Ground – South Korea
- Cruz Alta Proving Ground (GM do Brasil)
- Desert Proving Ground – Yuma, AZ, USA
- Dudenhofen Proving Ground (GM Europe)
- Guangde Proving Ground (GM Korea, PATAC)
- Lang Lang Proving Ground (GM Holden)
- Milford Proving Ground (GM North America)
- Millbrook Proving Ground (England)

This global test procedure is intended to document the test facility requirements and driving instructions necessary to properly execute this durability event. Regional test procedures exist in order to implement this global procedure at the various GM Proving Grounds. Each regional test procedure includes the driving instructions for the specific access roads to and from the test facility, references to local signs and landmarks, and any other region-specific information necessary to implement this GMW durability event.

2 References

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

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

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2.3 Additional References. (See Appendix A – Note.)

- **CheongNa:** DL.CN.SB
- **Cruz Alta:** DR.CA.1326
- **Dudenhofen:** DR.DH.SpBmp
- **Guangde:** DR.GD.DP
- **Lang Lang:** DR.LL.8SB
- **Milford:** DL.MF.DP; DR.MF.DP
- **Millbrook:** DR.MB.R.34
- **Yuma:** DR.YU.DP

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3 Resources

3.1 Facilities. The specific location/facility used at each proving ground varies. Refer to the appropriate proving ground driving instruction document.

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.

3.2 Equipment. Refer to the appropriate proving ground driving instruction document.

3.3 Test Vehicle/Test Piece. Not applicable.

3.4 Test Time. The time required to execute this event varies by proving ground. Refer to the appropriate proving ground driving instruction document.

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Refer to the appropriate proving ground driving instruction document.

4 Procedure

4.1 Preparation. Refer to the appropriate proving ground driving instruction document.

4.2 Conditions. Refer to the appropriate parent specification.

4.2.1 Environmental Conditions. This driving module is intended to be executed during dry, wet, and/or snow-covered weather conditions. If any portions of the module, due to inclement weather conditions, are beyond the tractive capability of the vehicle or unsafe, the module should be postponed.

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. This event is to be driven at 15 km/h (10 mph). See Appendix A: Driving Instructions for driving speeds and maneuvers relating to procedure. Figure A1: Speed Bump Dimensions provides the profile of the speed bump test facility.

5 Data

5.1 Calculations. Refer to the appropriate durability test standard.

5.2 Interpretation of Results. Refer to the appropriate durability test standard.

5.3 Test Documentation. Refer to the appropriate durability test standard.

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. Refer to GMW15444 Global Durability Test Instructions and Definitions for terms and definitions. Also, refer to GMW15445 Vehicle Ballast for definitions of ballast related terms.

7.2 Acronyms, Abbreviations, and Symbols. Not applicable.

8 Coding System

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

Test to GMW16933.

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Documents

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