



Occupant Displays

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. The purpose of this standard is to test the Global A architecture displays subsystem on a functioning system bench or vehicle.

1.2 Foreword. This is a system bench level test procedure that is to be used when testing the displays subsystem. The components within this subsystem should have successfully completed supplier component level testing prior to executing this test.

1.3 Applicability. This standard applies to Global A architecture platform vehicles having the displays subsystem content including the Instrument Panel Cluster (IPC), Head-Up Display (HUD), Driver Information Center (DIC), Outside Air Temperature (OAT), and compass.

2 References

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

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

None

2.3 Additional References.

- CG2326 Global Occupant Displays Test Procedure.
- Component Technical Specification (CTS).
- Global Subsystem Technical Specification (GSSTS).
- Subsystem Technical Specification (SSTS).

3 Resources

3.1 Facilities. Global A architecture system bench with access to General Motors Local Area Network (GMLAN) tools is required.

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. Computer and serial data test tools are required.

3.3 Test Vehicle/Test Piece. System bench or subsystem bench containing at least a Body Control Module (BCM), IPC, and Engine Control Module (ECM) is required.

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3.4 Test Time.

Calendar time: 3 to 5 days
Test hours: 24 to 40 hours
Coordination hours: 0 hours

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. GMLAN training and general knowledge of the Displays GSSTS, Odometer SSTS and system bench functionality is required.

4 Procedure

4.1 Preparation. For each component to be tested, complete the Common Architecture Displays Test Data Sheet (Appendix A, Data Sheet A1) and attach to the completed CG2326 test procedures.

4.1.1 Determine the property to perform the test procedure (bench/frame/vehicle). The information should be recorded in the test information matrix (top of Appendix A, Data Sheet A1).

4.1.2 Determine the test level to perform the test procedure (basic functional/detailed functional). The information should be recorded in test information matrix (top of Appendix A, Data Sheet A1).

4.1.3 Determine the test voltage to perform the test procedure. The information should be recorded in test information matrix (top of Appendix A, Data Sheet A1).

4.1.4 Complete the test information matrix with the specific part and equipment information (middle of Appendix A, Data Sheet A1).

4.1.5 Complete Instrument Calibration Record (Appendix A, Data Sheet A2), if applicable.

4.2 Conditions.

4.2.1 Environmental Conditions. Not applicable.

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. For each component, perform the steps in CG2326.

4.3.1 Each applicable system function listed in the CG2326 test procedure should be marked "Y" for compliance or "N" for noncompliance. If the function operates as written in the test procedure, then mark a "Y" in the space provided. If the function of the test unit does not comply, record an "N" and a footnote number, and then describe the deviation in detail in the space provided.

4.3.2 Calibrations shown in the test information matrix refer to subsystem calibration names only. Specific module calibrations must be obtained from the appropriate CTS.

5 Data

5.1 Calculations. Not applicable.

5.2 Interpretation of Results. Not applicable.

5.3 Test Documentation. Attach the completed test information matrix (Appendix A, Data Sheet A1) to the completed test procedures CG2326. Also include the Instrument Calibration Record, if applicable (Appendix A, Data Sheet A2). The completed test procedures shall be used to document test results and any necessary notes or interpretations.

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.

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