Common Architecture Displays Test

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 procedure is to test the common 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 procedure applies to common architecture platform vehicles having the displays subsystem content including an Instrument Panel Cluster (IPC), Head-Up Display (HUD), Driver Information Center (DIC), Outside Air Temperature (OAT), and a 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.

- CG2256 Common Architecture Arbitrary Text Test Procedure.
- CG2257 Common Architecture Driver Information Center Test Procedure.
- CG2258 Common Architecture Displays Test Procedure.
- Component Technical Specification (CTS).
- Occupant Displays Subsystem Technical Specification (SSTS).

3 Resources

3.1 Facilities. Common architecture system bench with access to the General Motors local area network (GMLAN).

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.

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

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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. General knowledge of Occupant Displays SSTS, general knowledge of system bench functionality, and GMLAN training.

4 Procedure

4.1 Preparation. For each component to be tested, complete Data Sheet A1 and attach to the completed CG2256, CG2257, and CG2258 test procedure.

4.1.1 Determine then record property used (bench/vehicle/frame) on Data Sheet A1.

4.1.2 Determine then record test level (basic functional/detailed functional) on Data Sheet A1.

4.1.3 Determine then record voltage level on Data Sheet A1.

4.1.4 Complete Data Sheet A1 with specific part and equipment information.

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 CG2256, CG2257, and CG2258.

4.3.1 Each applicable system function listed on the test procedures (4.3) 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 test unit’s operation does not comply, record an “N”, a footnote number, and then describe the deviation in detail in the space provided.

4.3.2 Calibrations shown on Data Sheets A1 and A2 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. For each component, attach the completed Data Sheets A1 and A2 to the completed test procedure CG2256, CG2257, and CG2258. These completed test procedures are 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.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols.

BCM	Body Control Module
CTS	Component Technical Specification
DIC	Driver Information Center
ECM	Engine Control Module

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