



Global A Customization

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 standard is intended to test all the interfacing subsystems-related functions of Customization.

1.2 Applicability. This standard applies to all 2009 model year and beyond Global A Electrical Architecture based programs.

1.3 Remarks. This standard tests the electrical functions that support the Global A Customization Subsystem Technical Specification (SSTS).

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.

- CG2305 Customization Test Procedure
- CG2507 Customization Radio Human Machine Interface (HMI) Test Procedure
- Global A Customization SSTS

3 Resources

3.1 Facilities. For system bench tests: Electrical test laboratory with power and internet connections. For vehicle tests: Air conditioned garage with power and internet connections and a vehicle exhaust ventilation system.

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. This procedure should be performed on a Global A Architecture system bench or on a vehicle.

3.3 Test Vehicle/Test Piece. The property under test will require all region-specific radios, displays, faceplates and electronic control units containing Customization features, as defined by the program team. The Customization test and Customization Radio Human Machine Interface (HMI) test are specified in test procedures CG2305 and CG2507, respectively.

3.4 Test Time.

3.4.1 CG2305. Execute (in full) for one system setup, then repeat for any regional or vehicle model calibration variations, as specified by the program team, e.g., execute full test for Passive Entry/Passive Start (PEPS) configuration, repeat (partial) test for a non-PEPS configuration, repeat (partial) test for Body Control Module calibration variations between General Motors North America (GMNA) and General Motors Europe (GME) markets, etc. Full test = 1 day Partial test < 1 day.

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3.4.2 CG2507. Execute for all applicable radios on a specific program. Each radio test = 1 day, i.e., if program has five (5) different radios, then the Calendar time = 5 days total.

Calendar time: 1 day

Test hours: 8 hours

Coordination hours: 7 hours

3.5 Test Required Information. See CG2305 and CG2507.

3.6 Personnel/Skills. This subsystem testing requires a Customization Subsystem Validation Engineer who has knowledge of General Motors Local Area Network (GMLAN) serial data messaging, including the ability to read, transmit, and interpret the serial data messages. The Customization Subsystem Validation Engineer should also have excellent written and oral communication skills for the required (global) interaction with all Subsystem Validation Engineers (SVE) and Design Release Engineers (DRE) involved in the Customization Subsystem, Vehicle System Integration Engineers (VSIE), and program team leaders.

4 Procedure

4.1 Preparation.

4.1.1 The modules supporting customization features have the latest software and program-specific calibrations to be tested.

4.1.2 The appropriate faceplate and display are installed.

4.2 Conditions.

4.2.1 Environmental Conditions. Test at room temperature. Temperature inputs will be varied as a part of the test procedure.

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.

4.3.1 Follow instructions specified in CG2305 to verify:

4.3.1.1 Program Team Defined Customization Menu.

4.3.1.2 Virtual Network (VN) Initialization and Open Display Interface (ODI) messaging.

4.3.1.3 Factory Default Settings.

4.3.1.4 Personalization by Driver.

4.3.2 Follow instructions specified in CG2507 to verify the customization for Radio/HMI:

4.3.2.1 Preferred Text and Menu Screen Flow.

4.3.2.2 VN Initialization and ODI messaging.

4.3.2.3 Factory Default Settings.

4.3.2.4 Language Options per region.

5 Data

5.1 Calculations. Not applicable.

5.2 Interpretation of Results.

- Meets Requirements = Pass
- Does Not Meet Requirements = Fail
- Buy-Off = Deviations agreed upon by Subsystem Lead Engineer, DRE, Supplier, and SVE
- Not Tested
- Not Applicable = Feature not available for program to test
- Not Delivered = Component not delivered by supplier
- Not Calibrated On
- Preparation (Prep) Step

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