GM WORLDWIDE ENGINEERING STANDARDS	Test Procedure	GMW17324

GIS-582 Info 3.0 Speech Recognition Test Procedures

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 identify the subsystem level test procedures to be performed to verify the infotainment subsystem requirements for Infotainment (Info) Info 3.x Global Infotainment Specification (GIS) GIS-582 Automated Speech Recognition (ASR) Flows User Interface (UI). The test procedures that verify GIS-582 requirements are contained in CG4027, CG4028, CG4029, CG4030, CG4031, CG5066, CG5067, CG5068, CG5069 and CG5070.

1.2 Applicability. Vehicles with ASR.

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.

- CG4027 Info 3.x GIS-582 Speech Recognition Logic Flows - Steering Wheel Control (SWC)
- CG4028 Info 3.x GIS-582 Speech Recognition Logic Flows- Phone
- CG4029 Info 3.x GIS-582 Speech Recognition Logic Flows - Audio
- CG4030 Info 3.x GIS-582 Speech Recognition Logic Flows - Navigation
- CG4031 Info 3.x GIS-582 Speech Recognition Logic Flows - Widgets
- CG5066 PATAC GIS-582 Speech Recognition Logic Flows - Widgets Chinese Mandarin
- CG5067 PATAC GIS-582 Speech Recognition Logic Flows - Navigation Chinese Mandarin
- CG5068 PATAC GIS-582 Speech Recognition Logic Flows - Audio Chinese Mandarin
- CG5069 PATAC GIS-582 Speech Recognition Logic Flows - Phone Chinese Mandarin
- CG5070 PATAC GIS-582 Speech Recognition Logic Flows - SWC Chinese Mandarin
- GIS-582 ASR Flows UI

3 Resources

3.1 Facilities.

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.

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3.2 Equipment.

3.2.1 An electrical test laboratory with a subsystem or system test bench.

3.2.2. A serial data monitoring tool and test computer with the supporting software.

3.3 Test Vehicle/Test Piece. A test bench with latest (production intent) Info 3.x Center Stack Module (CSM) and all interfacing modules and software.

3.4 Test Time. The individual CGs are comprehensive, i.e., contain tests for all Info 3.x features/functions. Test time is dependent on program content.

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. One (1) Infotainment Subsystem Engineer is required to perform the test. Knowledge of General Motors Local Area Network (GMLAN) is required. The test engineer must be able to transmit functional and diagnostic messages with the test tool and record and analyze GMLAN serial data communications. Additionally, the knowledge of Ethernet data monitoring is required.

4 Procedure

4.1 Preparation. Verify that the correct hardware and software levels are being used with the correct calibration.

4.2 Conditions. As found in the individual CGs.

4.2.1 Environmental Conditions. This test procedure is a functional test that is not intended to test the effect of any environmental conditions. It is intended to be performed on an electrical test bench in an electrical test laboratory environment with no additional environmental requirements.

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. Follow the test steps found in the individual CGs (CG4027, CG4028, CG4029, CG4030, CG4031, CG5066, CG5067, CG5068, CG5069 and CG5070) available from Global Document Management (GDM).

5 Data

5.1 Calculations. Not applicable.

5.2 Interpretation of Results. The test engineer is to perform the test steps, read the action for each step, then compare the actual results to the expected results, then determine if the subsystem does/does not meet the requirements. Some test steps may not be applicable to the configuration and/or calibration being tested.

5.3 Test Documentation. For each requirement tested, the test engineer is to document "Pass", Not applicable ("N/A") or "Failed" in the results column of the test procedures (CG4027, CG4028, CG4029, CG4030, CG4031, CG5066, CG5067, CG5068, CG5069 and CG5070). A copy of all test procedures with results may be included with the Evaluation Report as supporting documentation.

All failures or unusual observations are to be documented in the Electrical and Software Issue Management System (ESIMS), or in the Problem Resolution Tracking System (PRTS). Complete bus log files are to be collected and included with the ESIMS, PRTS. Contact the GM Release Engineer for details regarding which system to document failures or unusual observations.

6 Safety

This Engineering Standard may involve safety requirements for hazardous materials, the method of operations and equipment. This standard does not propose to address all the safety issues associated with its use. It is the responsibility of the user of this standard to ensure compliance with all appropriate safety and health practices. This would include any specific training that may be required. The safety and health standards include site specific rules and procedures, company rules and procedures, and Government Standards. Contact shall be made with the appropriate site Safety and Health personnel for further direction and guidance in these matters.

7 Notes

7.1 Glossary. Not applicable.

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