

Attachment 0024

SIL Demonstration Operating Scenarios

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Mobility Operation

The driver starts the ignition and releases the parking brake. The driver adjusts the CTIS, suspension, and lighting settings. The driver verifies the basic automotive display settings function in static condition: fuel, engine oil pressure, tachometer, speedometer, odometer, and coolant temperature. The driver verifies situational awareness with cameras. The driver reaches a speed to verify automotive display settings in dynamic condition. The driver attempts to adjust the CTIS, suspension, and lighting settings.

Power Management

The driver starts the ignition and verifies the DC bus voltage, current, and power for automotive configuration. The passenger turns on the radios, CROWS, and CREW. The driver verifies the DC voltage, current, and power settings and sheds these loads for continued operation.

Health Management System

The driver verifies the current health status of the automotive configuration. The driver changes the DSDU display to mobility settings. The passenger removes automotive sensor and driver acknowledges fault on DSDU. The driver selects the affected subsystem on the DSDU to view the detailed description of the fault and obtain the relevant section of the ETM. The driver searches the ETM on the DSDU to find maintenance procedures associated with the fault code. The passenger replaces sensor and driver verifies health status of automotive configuration. The driver enters a note on the DSDU about the issue that was experienced to be later used by the maintainer to troubleshoot the vehicle. The maintainer demonstrates the EMSS or MSD ability to query diagnostics faults.

Commander Controls

The commander turns on CSDU and turns on radio and intercom system remotely. The commander changes settings on the radio and intercom with CSDU. The commander verifies changed settings on physical radio and intercom. The commander verifies the compass status on CSDU. The commander launches the JCR application on the CSDU. The commander sends a message using EPLRS and MT-2011 transceivers. The commander receives a message using EPLRS and MT-2011 transceivers.