SECURITY INDICATOR LIGHT: 11, DTC: B10D9:87/P1260:00 [IMMOBILIZER SYSTEM]

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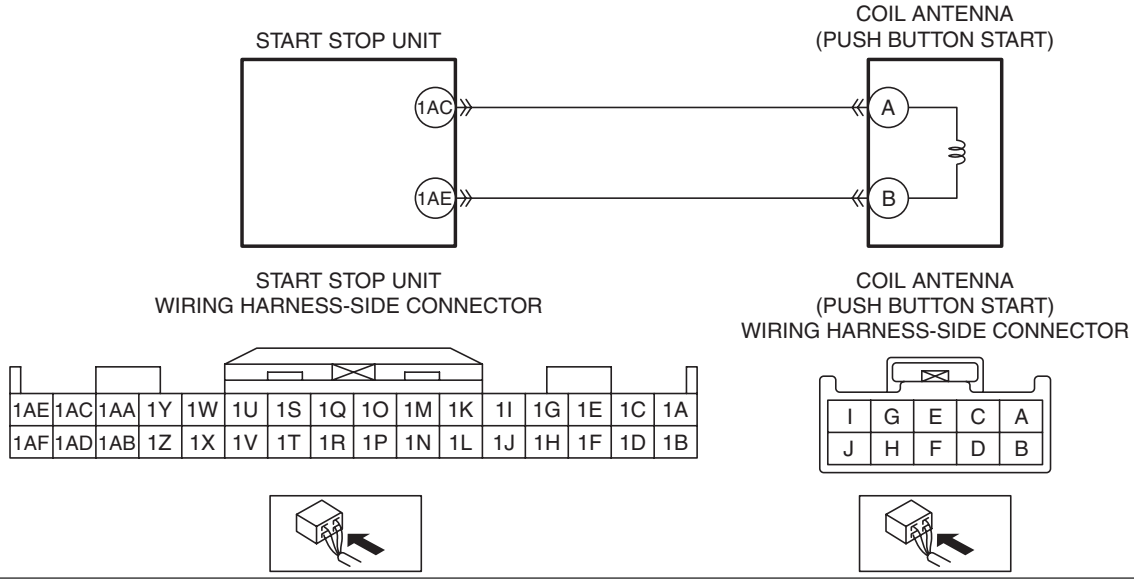
System malfunction location	**Coil antenna (built into push button start) error**
Detection condition	• The starter stop unit detected a malfunction in the coil antenna, and remote transmitter communication is not possible.
Fail-safe	—
Possible cause	• Push button start connector or terminal malfunction • Start stop unit connector or terminal malfunction • Short to ground in wiring harness between the following terminals: — Start stop unit terminal 1AC and push button start terminal A — Start stop unit terminal 1AE and push button start terminal B • Open circuit in wiring harness between the following terminals: — Start stop unit terminal 1AC and push button start terminal A — Start stop unit terminal 1AE and push button start terminal B • Coil antenna malfunction • Start stop unit malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**INSPECT PUSH BUTTON START CONNECTOR CONDITION** • Switch the ignition to off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the push button start connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.

Step	Inspection		Action
2	**INSPECT START STOP UNIT CONNECTOR CONDITION** • Disconnect the start stop unit connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
3	**INSPECT COIL ANTENNA CIRCUIT FOR SHORT TO GROUND** • Verify that the push button start and start stop unit connectors are disconnected. • Inspect for continuity between the following terminals (vehicle wiring harness side) and body ground. — Push button start terminal A — Push button start terminal B • Is there continuity?	Yes	Repair or replace the wiring harness which is shorted to ground, then go to Step 6.
		No	Go to the next step.
4	**INSPECT COIL ANTENNA CIRCUIT FOR OPEN CIRCUIT** • Verify that the push button start and start stop unit connectors are disconnected. • Inspect the wiring harness between the following terminals (vehicle wiring harness side) for continuity. — Start stop unit terminal 1AC and push button start terminal A — Start stop unit terminal 1AE and push button start terminal B • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to Step 6.
5	**PERFORM DTC INSPECTION AND VERIFY IF MALFUNCTIONING PART IS COIL ANTENNA** • Reconnect all the disconnected connectors. • Remove the ROOM 15 A fuse. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear DTC for the immobilizer system using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM].) • Perform the DTC inspection for the immobilizer system using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM].) • Security indicator light: 11, DTC B10D9:87/ P1260:00 displayed?	Yes	Replace the push button start, then go to the next step. (See PUSH BUTTON START REMOVAL/ INSTALLATION.)
		No	Go to Step 7.

Step	Inspection		Action
6	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Reconnect all the disconnected connectors. • Remove the ROOM 15 A fuse. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear DTC for the immobilizer system using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM].) • Perform the DTC inspection for the immobilizer system using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM].) • Security indicator light: 11, DTC B10D9:87/ P1260:00 displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)
		No	Go to the next step.
7	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [IMMOBILIZER SYSTEM].)
		No	DTC troubleshooting completed.