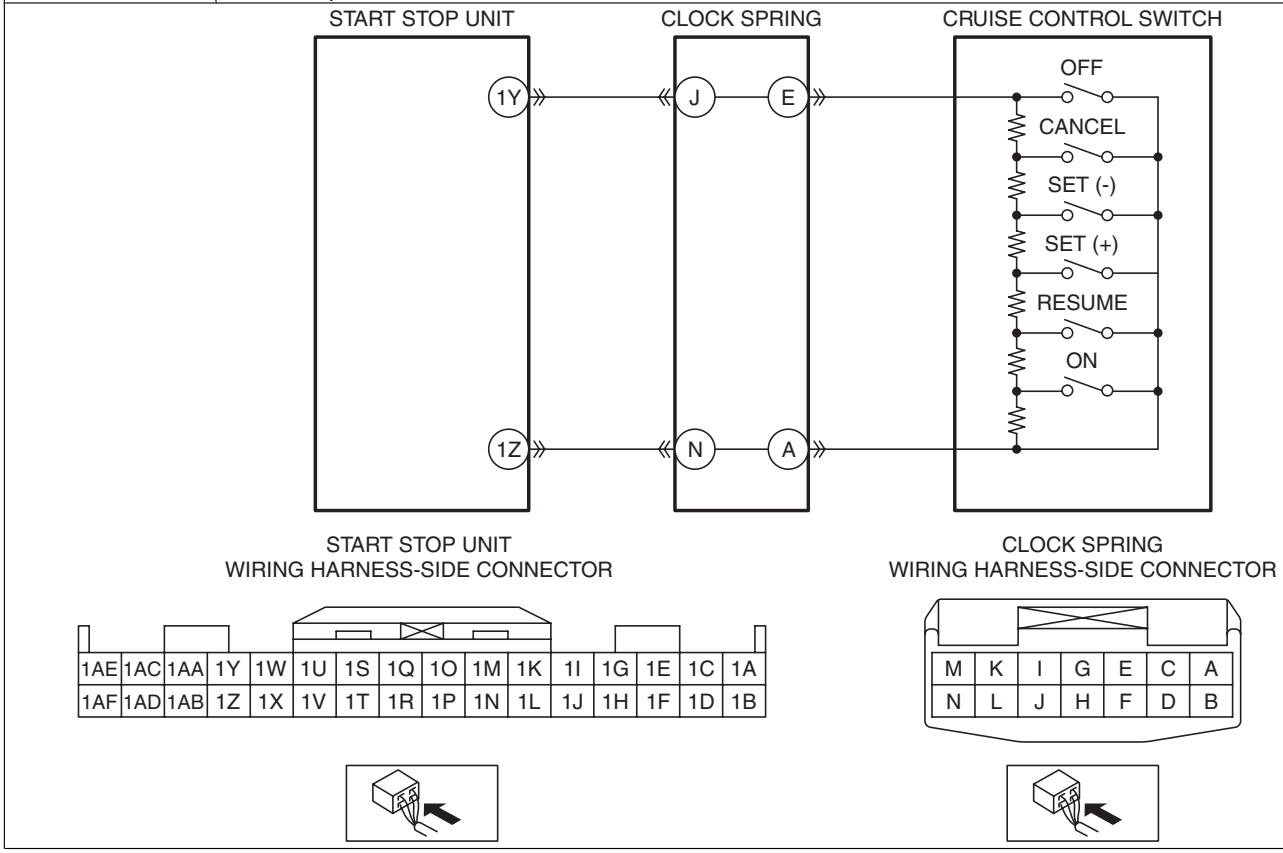
DTC B10AC:13 [START STOP UNIT]

id0902p6019700

System malfunction location	**Cruise control switch circuit malfunction**
Detection condition	• The start stop unit detected an open circuit in the cruise control switch circuit for **5 s or more** with the ignition switched ON (engine off or on).
Fail-safe	—
Possible cause	• Instrument cluster configuration error • Clock spring connector or terminal malfunction • Clock spring malfunction • Start stop unit connector or terminal malfunction • Open circuit in wiring harness between the following terminals: — Start stop unit terminal 1Y and clock spring (start stop unit side) terminal J — Start stop unit terminal 1Z and clock spring (start stop unit side) terminal N • Cruise control switch malfunction • Start stop unit malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**PERFORM INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA)** • Using the M-MDS, perform the instrument cluster configuration with the As-Built data. (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).) • Clear DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].) • Switch the ignition ON (engine off or on) and wait for **5 s or more**. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC B10AC:13 displayed?	Yes	Using the M-MDS, re-perform the instrument cluster configuration using the As-Built data, then go to the next step. (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).)
		No	Go to Step 8.

Step	Inspection		Action
2	**INSPECT CLOCK SPRING 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 clock spring 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 7.
3	**INSPECT CLOCK SPRING** • Inspect the clock spring. (See CLOCK SPRING INSPECTION.) • Is the clock spring normal?	Yes	Go to the next step.
		No	Replace the clock spring, then go to Step 7. (See CLOCK SPRING REMOVAL/INSTALLATION.)
4	**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 7.
5	**INSPECT CRUISE CONTROL SWITCH CIRCUIT FOR OPEN CIRCUIT** • Verify that the start stop unit and clock spring connectors are disconnected. • Inspect the wiring harness between the following terminals (vehicle wiring harness side) for continuity. — Start stop unit terminal 1Y and clock spring (start stop unit side) terminal J — Start stop unit terminal 1Z and clock spring (start stop unit side) terminal N • 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 7.
6	**INSPECT CRUISE CONTROL SWITCH** • Inspect the cruise control switch. (See CRUISE CONTROL SWITCH INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE CONTROL SWITCH INSPECTION [SKYACTIV-D 2.2].) • Is the cruise control switch normal?	Yes	Go to the next step.
		No	Replace the cruise control switch, then go to the next step. (See STEERING SWITCH REMOVAL/INSTALLATION.)

Step	Inspection		Action
7	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Reconnect all the disconnected connectors. • 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 start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].) • Switch the ignition ON (engine off or on) and wait for **5 s or more**. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC B10AC:13 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.
8	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [START STOP UNIT].)
		No	DTC troubleshooting completed.