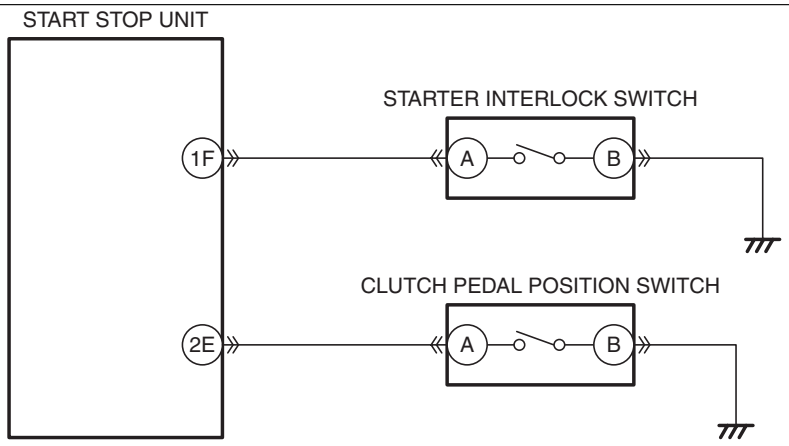
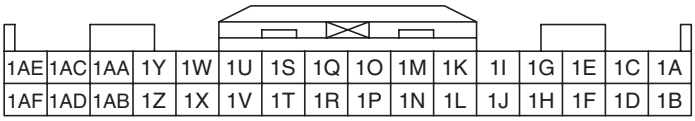
DTC P1708:29 [START STOP UNIT]

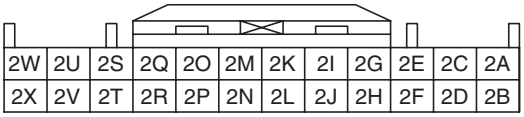
id0902p6023600

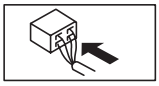
System malfunction location	**Starter interlock switch circuit or clutch pedal position switch circuit malfunction**
Detection condition	• The start stop unit detects that the start interlock switch circuit is stuck on for **0.2 s or more**, or the clutch pedal position switch circuit is stuck off for **0.25 s or more**.
Fail-safe	• Change to the back-up mode.
Possible cause	• Starter interlock switch connector or terminal malfunction • Starter interlock switch malfunction • Start stop unit connector or terminal malfunction • Short to ground in wiring harness between start stop unit terminal 1F and starter interlock switch terminal A • Clutch pedal position switch connector or terminal malfunction • Open circuit in wiring harness between clutch pedal position switch terminal B and body ground • CPP switch malfunction • Open circuit in wiring harness between start stop unit terminal 2E and clutch pedal position switch terminal A • Start stop unit malfunction



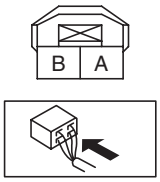
START STOP UNIT
WIRING HARNESS-SIDE CONNECTOR



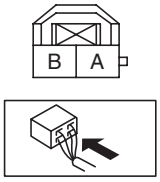




CLUTCH PEDAL POSITION SWITCH
WIRING HARNESS-SIDE CONNECTOR



STARTER INTERLOCK SWITCH
WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection		Action
1	**STARTER INTERLOCK SWITCH CONNECTOR INSPECTION** • 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 starter interlock switch 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 9.
2	**INSPECT STARTER INTERLOCK SWITCH** • Inspect the starter interlock switch. (See STARTER INTERLOCK SWITCH INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See STARTER INTERLOCK SWITCH INSPECTION [SKYACTIV-D 2.2].) • Is the starter interlock switch normal?	Yes	Go to the next step.
		No	Replace the starter interlock switch, then go to Step 9. (See STARTER INTERLOCK SWITCH REMOVAL/ INSTALLATION [C66M-R, C66MX-R].) (See STARTER INTERLOCK SWITCH REMOVAL/ INSTALLATION [D66M-R, D66MX-R].)
3	**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 9.
4	**INSPECT STARTER INTERLOCK SWITCH CIRCUIT FOR SHORT TO GROUND** • Verify that the start stop unit and starter interlock switch connectors are disconnected. • Inspect for continuity between starter interlock switch terminal A (vehicle wiring harness side) and body ground. • Is there continuity?	Yes	Repair or replace the wiring harness which is shorted to ground, then go to Step 9.
		No	Go to the next step.
5	**INSPECT CPP SWITCH CONNECTOR CONDITION** • Disconnect the CPP switch 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 9.
6	**INSPECT CPP SWITCH GROUND CIRCUIT FOR OPEN CIRCUIT** • Verify that the CPP switch connector is disconnected. • Inspect for continuity between CPP switch terminal B (vehicle wiring harness side) and body ground. • 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 9.

Step	Inspection		Action
7	**INSPECT CPP SWITCH** • Inspect the CPP switch. (See CLUTCH PEDAL POSITION (CPP) SWITCH INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CLUTCH PEDAL POSITION (CPP) SWITCH INSPECTION [SKYACTIV-D 2.2].) • Is the clutch pedal position switch normal?	Yes	Go to the next step.
		No	Replace the clutch pedal position switch, then go to the Step 9. (See CLUTCH PEDAL POSITION SWITCH REMOVAL/INSTALLATION [C66M-R, C66MX-R].) (See CLUTCH PEDAL POSITION SWITCH REMOVAL/INSTALLATION [D66M-R, D66MX-R].)
8	**INSPECT CPP SWITCH CIRCUIT FOR OPEN CIRCUIT** • Verify that the start stop unit and clutch pedal position switch connectors are disconnected. • Inspect the wiring harness for an open circuit between start stop unit terminal 2E (vehicle wiring harness side) and clutch pedal position switch terminal A (vehicle wiring harness side). • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to the next step.
9	**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). • Perform the work of depressing and releasing the clutch pedal **3 times**. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC P1708:29 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.
10	**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.