

DTC B112A:12 [START STOP UNIT]

id0902p6020500

System malfunction location	IG2 relay circuit malfunction
Detection condition	• With the ignition switched off or to ACC, the start stop unit detects IG2 relay circuit voltage of 2.5 V or more for 0.5 s or more .
Fail-safe	—
Possible cause	<ul style="list-style-type: none"> • Front body control module (FBCM) connector or terminal malfunction • Start stop unit connector or terminal malfunction • Short to power supply in wiring harness between start stop unit terminal 2D and front body control module (FBCM) terminal 2U • Front body control module (FBCM) malfunction • Start stop unit malfunction

START STOP UNIT

START STOP UNIT
WIRING HARNESS-SIDE CONNECTOR

IG2 RELAY (FBCM)

FBCM
WIRING HARNESS-SIDE CONNECTOR

Diagnostic Procedure

Step	Inspection	Action
1	INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION <ul style="list-style-type: none"> • 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 front body control module (FBCM) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal? 	<div>Yes</div> Go to the next step. <div>No</div> Repair or replace the connector, then go to Step 5.

Step	Inspection	Action
2	INSPECT START STOP UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> • 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 5.
3	INSPECT IG2 RELAY CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> • Reconnect all the disconnected connectors. • Connect 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].) • Measure the voltage at front body control module (FBCM) terminal 2U (vehicle wiring harness side). • Is the voltage 2.5 V or more? 	Yes Repair or replace the wiring harness which is shorted to power supply, then go to Step 5.
		No Go to the next step.
4	PERFORM DTC INSPECTION AND VERIFY IF IG2 RELAY IS MALFUNCTIONING PART <ul style="list-style-type: none"> • Clear DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].) • Switch the ignition to off or to ACC, and wait for 0.5 s or more. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC B112A:12 displayed? 	Yes Replace the front body control module (FBCM), then go to the next step. (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
		No Go to Step 6.
5	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none"> • 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 to off or to ACC, and wait for 0.5 s or more. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC B112A:12 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.

Step	Inspection		Action
6	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.