

DTC C0053:14 [START STOP UNIT]

id0902p6021600

System malfunction location	Steering angle sensor B signal circuit malfunction
Detection condition	<ul style="list-style-type: none"> The start stop unit detects an open circuit or a short to ground in steering angle sensor B signal circuit.
Fail-safe	—
Possible cause	<ul style="list-style-type: none"> Steering angle sensor connector or terminal malfunction Start stop unit connector or terminal malfunction Short to ground in wiring harness between start stop unit terminal 1W and steering angle sensor terminal C Open circuit in wiring harness between start stop unit terminal 1W and steering angle sensor terminal C Steering angle sensor malfunction Start stop unit malfunction
<div> <div> <div>START STOP UNIT</div> </div> <div> <div>STEERING ANGLE SENSOR</div> </div> </div> <div> <div>START STOP UNIT WIRING HARNESS-SIDE CONNECTOR</div> </div> <div> <div>STEERING ANGLE SENSOR WIRING HARNESS-SIDE CONNECTOR</div> </div>	

Diagnostic Procedure

Step	Inspection	Action
1	INSPECT STEERING ANGLE SENSOR 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 steering angle sensor 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 6.

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 6.
3	INSPECT STEERING ANGLE SENSOR CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> • Verify that the steering angle sensor and start stop unit connectors are disconnected. • Inspect for continuity between steering angle sensor terminal C (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 6.
		No Go to the next step.
4	INSPECT STEERING ANGLE SENSOR CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the steering angle sensor and start stop unit connectors are disconnected. • Inspect the wiring harness for an open circuit between start stop unit terminal 1W (vehicle wiring harness side) and steering angle sensor terminal C (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 Step 6.
5	INSPECT STEERING ANGLE SENSOR <ul style="list-style-type: none"> • Inspect the steering angle sensor. (See STEERING ANGLE SENSOR INSPECTION.) • Is the steering angle sensor normal? 	Yes Go to the next step.
		No Replace the steering angle sensor, then go to the next step. (See CLOCK SPRING REMOVAL/INSTALLATION.)
6	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].) • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC C0053:14 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 <ul style="list-style-type: none"> • 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.