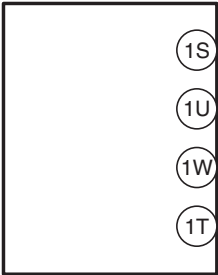
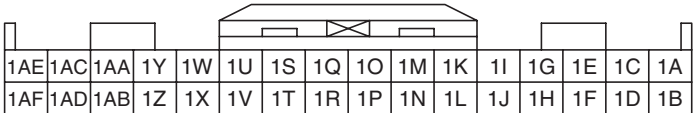

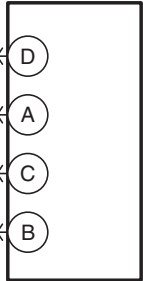
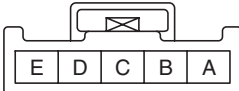
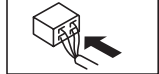


# DTC C0052:14 [START STOP UNIT]

id0902p6021400

<b>System malfunction location</b>	<b>Steering angle sensor A signal circuit malfunction</b>
<b>Detection condition</b>	<ul style="list-style-type: none"> <li>The start stop unit detects an open circuit in the steering angle sensor A signal circuit or a short to ground.</li> </ul>
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>Steering angle sensor connector or terminal malfunction</li> <li>Start stop unit connector or terminal malfunction</li> <li>Short to ground in wiring harness between start stop unit terminal 1U and steering angle sensor terminal A</li> <li>Open circuit in wiring harness between start stop unit terminal 1U and steering angle sensor terminal A</li> <li>Steering angle sensor malfunction</li> <li>Start stop unit malfunction</li> </ul>
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>START STOP UNIT</p>  <p>START STOP UNIT WIRING HARNESS-SIDE CONNECTOR</p>   </div> <div style="text-align: center;"> <p>STEERING ANGLE SENSOR</p>  <p>STEERING ANGLE SENSOR WIRING HARNESS-SIDE CONNECTOR</p>   </div> </div>	

## Diagnostic Procedure

Step	Inspection	Action
1	<b>INSPECT STEERING ANGLE SENSOR CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>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].)</li> <li>Disconnect the steering angle sensor connector.</li> <li>Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</li> <li>Is the connector normal?</li> </ul>	Yes
		No
		Go to the next step.
		Repair or replace the connector, then go to Step 6.

Step	Inspection	Action
2	<b>INSPECT START STOP UNIT CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Disconnect the start stop unit connector.</li> <li>• Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</li> <li>• Is the connector normal?</li> </ul>	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 6.
3	<b>INSPECT STEERING ANGLE SENSOR CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Verify that the steering angle sensor and start stop unit connectors are disconnected.</li> <li>• Inspect for continuity between steering angle sensor terminal A (vehicle wiring harness side) and body ground.</li> <li>• Is there continuity?</li> </ul>	Yes Repair or replace the wiring harness which is shorted to ground, then go to Step 6.
		No Go to the next step.
4	<b>INSPECT STEERING ANGLE SENSOR CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the steering angle sensor and start stop unit connectors are disconnected.</li> <li>• Inspect the wiring harness for an open circuit between start stop unit terminal 1U (vehicle wiring harness side) and steering angle sensor terminal A (vehicle wiring harness side).</li> <li>• Is there continuity?</li> </ul>	Yes Go to the next step.
		No Repair or replace the wiring harness which has an open circuit, then go to Step 6.
5	<b>INSPECT STEERING ANGLE SENSOR</b> <ul style="list-style-type: none"> <li>• Inspect the steering angle sensor. (See STEERING ANGLE SENSOR INSPECTION.)</li> <li>• Is the steering angle sensor normal?</li> </ul>	Yes Go to the next step.
		No Replace the steering angle sensor, then go to the next step. (See CLOCK SPRING REMOVAL/INSTALLATION.)
6	<b>VERIFY THAT REPAIRS HAVE BEEN COMPLETED</b> <ul style="list-style-type: none"> <li>• Reconnect all the disconnected connectors.</li> <li>• 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].)</li> <li>• Clear DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].)</li> <li>• Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].)</li> <li>• Is DTC C0052:14 displayed?</li> </ul>	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	<b>VERIFY IF OTHER DTCs DISPLAYED</b> <ul style="list-style-type: none"> <li>• Are any other DTCs displayed?</li> </ul>	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [START STOP UNIT].)
		No DTC troubleshooting completed.