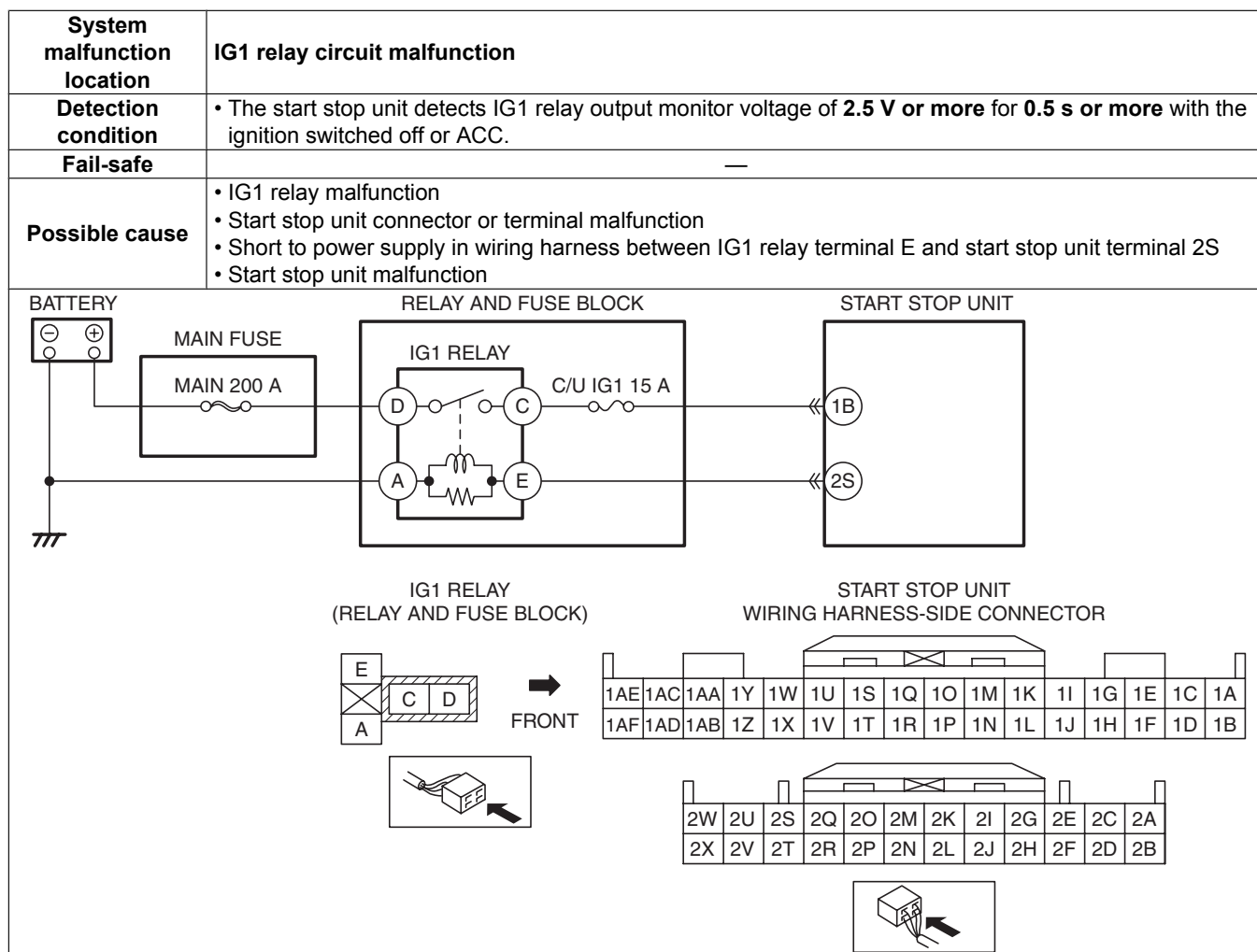


# DTC B10E7:12 [START STOP UNIT]

id0902p6020100



## Diagnostic Procedure

| Step | Inspection   | Action  |
|------|--|---|
| 1    | <b>INSPECT IG1 RELAY FOR MALFUNCTION</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>• Remove the IG1 relay. (See RELAY LOCATION.)</li> <li>• Inspect the IG1 relay. (See RELAY INSPECTION.)</li> <li>• Is the IG1 relay normal?</li> </ul> | <div>Yes</div> Go to the next step. <div>No</div> Replace the IG1 relay, then go to Step 4. (See RELAY LOCATION.) |

| 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 4.  |
| 3    | <b>INSPECT IG1 RELAY CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>• Reconnect all the disconnected connectors.</li> <li>• Connect the negative battery cable.<br/>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br/>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br/>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li> <li>• Measure the voltage at start stop unit terminal 2S (vehicle wiring harness side).</li> <li>• Is the voltage <b>2.5 V or more</b>?</li> </ul>   | Yes    | Repair or replace the wiring harness which has a short to the power supply, then go to the next step.  |
|      |  | No     | Go to the next step.   |
| 4    | <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.<br/>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br/>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br/>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li> <li>• Clear DTC for the start stop unit using the M-MDS.<br/>(See CLEARING DTC [START STOP UNIT].)</li> <li>• Switch the ignition to off and wait for <b>0.5 s or more</b>.</li> <li>• Perform the DTC inspection for the start stop unit using the M-MDS.<br/>(See DTC INSPECTION [START STOP UNIT].)</li> <li>• Is the DTC B10E7:12 displayed?</li> </ul> | Yes    | Repeat the inspection from Step 1.<br>• If the malfunction recurs, replace the start stop unit, then go to the next step.<br>(See START STOP UNIT REMOVAL/INSTALLATION.) |
|      |  | No     | Go to the next step.   |
| 5    | <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.<br>(See DTC TABLE [START STOP UNIT].)  |
|      |  | No     | DTC troubleshooting completed.   |