

# DTC P1794:16 [START STOP UNIT]

id0902p6023700

<b>System malfunction location</b>	Start stop unit power supply voltage (+B2) low input
<b>Detection condition</b>	• Start stop unit power supply circuit (+B2) voltage of <b>less than 6.5 V</b> is detected for <b>5 s or more</b> .
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>• DTCs are stored in the PCM.</li> <li>• Battery malfunction</li> <li>• Generator malfunction</li> <li>• Start stop unit connector or terminal malfunction</li> <li>• Start stop unit power supply circuit (+B2) malfunction <ul style="list-style-type: none"> <li>— Short to ground in wiring harness between AT 15 A fuse and start stop unit terminal 2W</li> <li>— AT 15 A fuse malfunction</li> <li>— Open circuit in wiring harness between battery positive terminal and start stop unit terminal 2W</li> </ul> </li> <li>• Start stop unit malfunction</li> </ul>

2W	2U	2S	2Q	2O	2M	2K	2I	2G	2E	2C	2A
2X	2V	2T	2R	2P	2N	2L	2J	2H	2F	2D	2B

## Diagnostic Procedure

Step	Inspection	Action
1	<b>VERIFY PCM DTCs</b> <ul style="list-style-type: none"> <li>• Perform the DTC inspection for the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>• Is the DTC displayed?</li> </ul>	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
		No Go to the next step.
2	<b>INSPECT BATTERY</b> <ul style="list-style-type: none"> <li>• Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY INSPECTION [SKYACTIV-D 2.2].)</li> <li>• Is the battery normal?</li> </ul>	Yes Go to the next step.
		No Recharge or replace the battery, then go to Step 6. (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY RECHARGING [SKYACTIV-D 2.2].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3	<b>INSPECT GENERATOR</b> <ul style="list-style-type: none"> <li>• Inspect the generator. (See GENERATOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>• Is the generator normal?</li> </ul>	Yes Go to the next step.
		No Replace the generator, then go to Step 6. (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

Step	Inspection	Action	
4	<b>INSPECT START STOP UNIT 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 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.
5	<b>INSPECT START STOP UNIT POWER SUPPLY CIRCUIT (+B2)</b> <ul style="list-style-type: none"> <li>Reconnect all the disconnected connectors.</li> <li>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].)</li> <li>Display PID VPWR_B2 using the M-MDS. (See PID/DATA MONITOR INSPECTION [START STOP UNIT].)</li> <li>Is the voltage <b>B+</b>?</li> </ul>	Yes	Go to the next step.
		No	Inspect the AT 15 A fuse. <ul style="list-style-type: none"> <li>If a fuse is burnt out:               <ul style="list-style-type: none"> <li>Repair or replace the wiring harness which is shorted to ground.</li> <li>Replace the fuse.</li> </ul> </li> <li>If a fuse is damaged:               <ul style="list-style-type: none"> <li>Replace the fuse.</li> </ul> </li> <li>If the fuse is normal:               <ul style="list-style-type: none"> <li>Repair or replace the wiring harness which has an open circuit.</li> </ul> </li> </ul> Go to the next step.
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>Switch the ignition ON (engine off or on) and wait for <b>5 s or more</b>.</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 P1794:16 displayed?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)</li> </ul>
		No	Go to the next step.

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Step	Inspection		Action
7	<b>VERIFY IF OTHER DTCs DISPLAYED</b> • 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.