

**DTC U2300:00 [SKYACTIV-G 2.0]**

id0102h1228300

DTC U2300:00	Global central configuration error
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>Any of following conditions occurs:               <ul style="list-style-type: none"> <li>No configuration of instrument cluster</li> <li>The configuration signal with the estimated CAN ID is not sent from the instrument cluster.</li> <li>The configuration signal value sent via CAN from the instrument cluster is unknown or invalid.</li> <li>The configuration signal value sent via CAN from the instrument cluster is a value other than the estimated value.</li> <li>The configuration signal value sent via CAN from the instrument cluster does not match the PCM value.</li> </ul> </li> </ul> <p><b>Diagnostic support note</b></p> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light does not illuminate.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is not available.</li> <li>The DTC is stored in the PCM memory.</li> </ul>
<b>FAIL-SAFE FUNCTION</b>	<ul style="list-style-type: none"> <li>Operates by the previously learned configuration value.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>CAN drive error (instrument cluster or PCM)</li> <li>Configuration data for the instrument cluster is incorrectly set</li> <li>CAN communication line between instrument cluster and PCM malfunction</li> <li>PCM connector or terminals malfunction</li> <li>Instrument cluster connector or terminals malfunction</li> <li>Instrument cluster loose</li> <li>Instrument cluster malfunction</li> <li>Error in non-volatile memory in PCM</li> <li>PCM malfunction</li> </ul>

## Diagnostic Procedure

STEP	INSPECTION		ACTION
1	<b>VERIFY RELATED SERVICE INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>• Verify related Service Information availability.</li> <li>• Is any related Service Information available?</li> </ul>	Yes	Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
2	<b>VERIFY DTC FOR MODULE COMMUNICATION</b> <ul style="list-style-type: none"> <li>• Switch the ignition to off, then to ON (engine off).</li> <li>• Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].)</li> <li>• Is the DTC U0155:00 also present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC U0073:00, U0101:00, U0121:00, U0131:00, U0140:00, U0151:00, U0155:00, U0214:00, U0235:00 [SKYACTIV-G 2.0].)
		No	Go to the next step.
3	<b>CONFIRM INSTRUMENT CLUSTER DTC</b> <ul style="list-style-type: none"> <li>• Perform the instrument cluster DTC inspection using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
4	<b>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect the PCM connector.</li> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
5	<b>INSPECT INSTRUMENT CLUSTER CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Disconnect the instrument cluster connector.</li> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
6	<b>INSPECT INSTALLATION OF INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"> <li>• Inspect installation of instrument cluster.</li> <li>• Is the instrument cluster installed securely?</li> </ul>	Yes	Go to the next step.
		No	Retighten the instrument cluster, then go to Step 8. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
7	<b>INSPECT INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"> <li>• Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION.)</li> <li>• Is there any malfunction?</li> </ul>	Yes	Replace the instrument cluster, then go to the next step. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
		No	Go to the next step.
8	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>• Make sure to reconnect all disconnected connectors.</li> <li>• Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].)</li> <li>• Switch the ignition ON (engine off or on) and wait for <b>15 s or more</b>.</li> <li>• Wait until the main relay is off (<b>approx. 1 min</b>).</li> <li>• Perform the KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)</li> <li>• Is the same DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) Go to the next step.
		No	Go to the next step.
9	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)
		No	DTC troubleshooting completed.