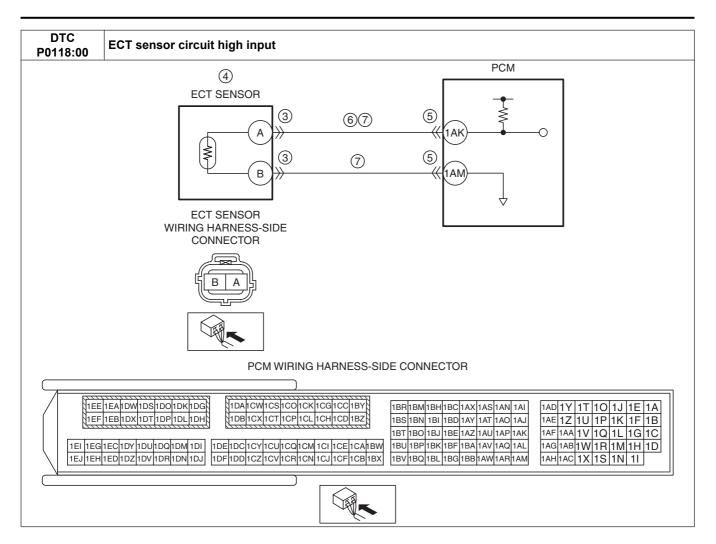
## Caution

• Vehicle specifications differ depending on the vehicle identification number (VIN).

— Type A VIN:
 JM0 KE\*\*\*\*\*\* 100001—
 JM6 KE\*\*\*\*\*\* 100001—
 JM7 KE\*\*\*\*\*\* 100001—
 JM8 KE\*\*\*\*\*\* 100001—
 JMZ KE\*\*\*\*\* 100001—
 KE10\*\* 100001—
 Type B VIN:
 JM0 KE\*\*\*\*\*\* 200001—
 JM6 KE\*\*\*\*\*\* 200001—
 JM8 KE\*\*\*\*\*\* 200001—
 JMZ KE\*\*\*\*\*\* 200001—
 KE10\*\* 200001—

DTC P0118:00	ECT sensor circuit high input			
DETECTION CONDITION	<ul> <li>Type A VIN</li> <li>The PCM monitors the ECT sensor signal. If the PCM detects that the ECT sensor voltage at the PCM terminal 1AK is above 4.6 V for 5 s, the PCM determines that the ECT sensor circuit has a malfunction.</li> <li>Type B VIN</li> <li>The PCM monitors the ECT sensor signal. If the PCM detects that the ECT sensor voltage at the PCM terminal 1AK is above 4.9 V for 5 s, the PCM determines that the ECT sensor circuit has a malfunction.</li> <li>Diagnostic support note</li> <li>This is a continuous monitor (engine cooling system).</li> <li>The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>			
FAIL-SAFE FUNCTION	• Operates the cooling fan (high speed rotation)			
POSSIBLE CAUSE	<ul> <li>ECT sensor connector or terminals malfunction</li> <li>ECT sensor malfunction</li> <li>PCM connector or terminals malfunction</li> <li>Short to power supply in wiring harness between ECT sensor terminal A and PCM terminal 1AK</li> <li>Open circuit in wiring harness between the following terminals:         <ul> <li>ECT sensor terminal A—PCM terminal 1AK</li> <li>ECT sensor terminal B—PCM terminal 1AM</li> </ul> </li> <li>PCM malfunction</li> </ul>			



**Diagnostic Procedure** 

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.
	SNAPSHOT DATA AND DIAGNOSTIC	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data
	MONITORING TEST RESULTS HAVE BEEN		and DIAGNOSTIC MONITORING TEST RESULTS on the
	RECORDED		repair order, then go to the next step.
	Have the FREEZE FRAME DATA (Mode 2)/		
	snapshot data and DIAGNOSTIC MONITORING		
	TEST RESULTS (engine cooling system related)		
	been recorded?		
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY		Service Information.
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.
	Is any related Service Information available?	No	Go to the next step.
3	INSPECT ECT SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 8.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the ECT sensor connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		

STEP	INSPECTION		ACTION
4	DETERMINE IF ECT SENSOR OR WIRING	Yes	Replace the ECT sensor, then go to Step 8.
	HARNESS MALFUNCTION	. 00	(See ENGINE COOLANT TEMPERATURE (ECT)
	Verify that the ECT sensor connector is		SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	disconnected.		SKYACTIV-G 2.5].)
	Access the ECT PID using the M-MDS.	No	Go to the next step.
	(See ON-BOARD DIAGNOSTIC TEST	110	Go to the next step.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	Connect a jumper wire between ECT sensor		
	terminals A and B (wiring harness-side).		
	• Verify the ECT PID value.		
	• Is the voltage <b>4.6 V or below</b> ?		
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition off.		Step 8.
	Disconnect the PCM connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/	''	or to the next step.
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
6	INSPECT ECT SENSOR SIGNAL CIRCUIT FOR	Yes	Go to the next step.
	SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	• Verify that the ECT sensor and PCM connectors		power supply, then go to Step 8.
	are disconnected.		
	Switch the ignition ON (engine off).		
	<ul> <li>Measure the voltage at the ECT sensor terminal</li> </ul>		
	A (wiring harness-side).		
	• Is the voltage 0 V?		
7	INSPECT ECT SENSOR CIRCUIT FOR OPEN	Yes	Go to the next step.
	CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the ECT sensor and PCM connectors		circuit, then go to the next step.
	are disconnected.		
	Switch the ignition off.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	ECT sensor terminal A—PCM terminal 1AK     FOT sensor terminal B—PCM terminal 1AM		
	<ul> <li>ECT sensor terminal B—PCM terminal 1AM</li> <li>Is there continuity?</li> </ul>		
8	• Is there continuity?  VERIFY DTC TROUBLESHOOTING	Yes	Paneat the inspection from Step 1
0	COMPLETED	165	Repeat the inspection from Step 1.  • If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	Clear the DTC from the PCM memory using the		SKYACTIV-G 2.51.)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		as to the more otop.
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	• Is the same DTC present?		
9	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	• Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	Are any DTCs present?		