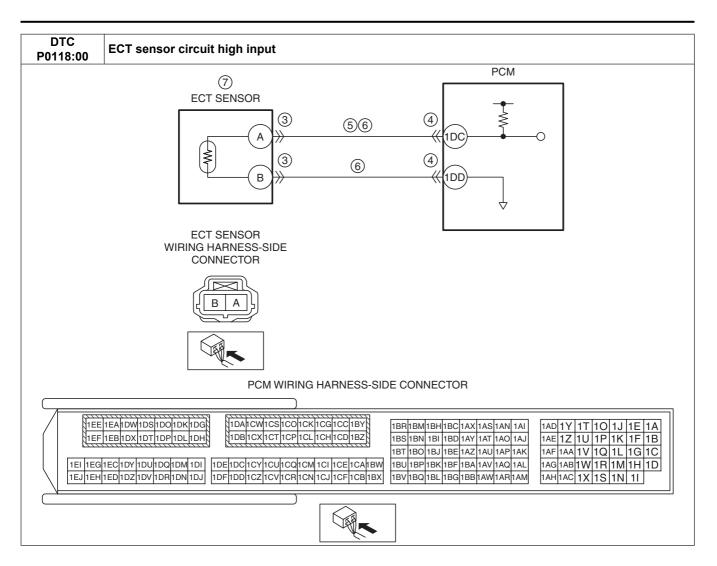
DTC P0118:00	ECT sensor circuit high input
DETECTION CONDITION	The PCM monitors the ECT sensor signal. If the PCM detects that the ECT sensor voltage at the PCM terminal 1DC is above 4.93 V for 1 s, the PCM determines that the ECT sensor circuit has a malfunction. MONITORING CONDITIONS Battery voltage: 8—20 V Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition during the first drive
	cycle. • FREEZE FRAME DATA (Mode 2)/Snapshot data is available. • DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	 PCM restricts engine torque. Increase the idle speed. Inhibits the two-stage turbo control. Inhibits the EGR control. Inhibits the diesel particulate filter regeneration control. The fast idle up correction for the idle speed control is inhibited. Inhibits the A/C control. Inhibits engine-stop by operating the i-stop function. PCM restricts engine-transaxle integration control.
POSSIBLE CAUSE	Ambient temperature is too low ECT sensor connector or terminals malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between ECT sensor terminal A and PCM terminal 1DC Open circuit in wiring harness between the following terminals:



Diagnostic Procedure

Diagno	Diagnostic Procedure						
STEP	INSPECTION		ACTION				
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.				
	SNAPSHOT DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data				
	Has the FREEZE FRAME DATA (Mode 2)/		on the repair order, then go to the next step.				
	snapshot data 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?						
4	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to				
	Disconnect the PCM connector.		Step 8.				
	Inspect for poor connection (such as damaged/	No	Go to the next step.				
	pulled-out pins, corrosion).						
	Is there any malfunction?						

STEP	INSPECTION		ACTION
5	INSPECT ECT SENSOR SIGNAL CIRCUIT FOR	Yes	Go to the next step.
	 SHORT TO POWER SUPPLY Verify that the ECT sensor and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage at the ECT sensor terminal A (wiring harness-side). Is the voltage 0 V? 	No	Repair or replace the wiring harness for a possible short to power supply, then go to Step 8.
6	INSPECT ECT SENSOR CIRCUIT FOR OPEN	Yes	Go to the next step.
	Verify that the ECT sensor and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between the following terminals (wiring harness-side):	No	Repair or replace the wiring harness for a possible open circuit, then go to Step 8.
7	INSPECT ECT SENSOR	Yes	
	• Inspect the ECT sensor.		(See ENGINE COOLANT TEMPERATURE (ECT)
	(See ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-D 2.2].) • Is there any malfunction?	No	SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
8		Yes	If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
		No	Go to the next step.
9	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present?	No	DTC troubleshooting completed.