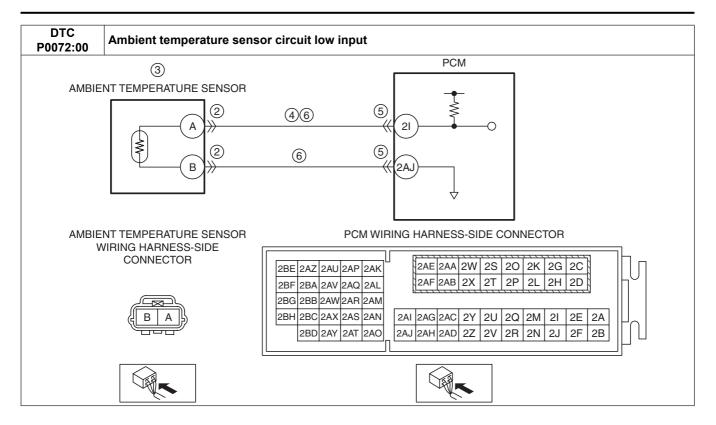
Caution

• 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 P0072:00	Ambient temperature sensor circuit low input			
DETECTION	 Type A VIN The PCM monitors the input signal from the ambient temperature sensor. If the voltage from the ambient temperature sensor is below 0.2 V for 5 s, the PCM determines that the ambient temperature sensor circuit has a malfunction. Type B VIN The PCM monitors the input signal from the ambient temperature sensor. If the voltage from the ambient temperature sensor is below 0.18 V, the PCM determines that the ambient temperature sensor circuit has a malfunction. Diagnostic support note This is a continuous monitor (other). The check engine light does not illuminate. FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. DTC is stored in the PCM memory. 			
FAIL-SAFE FUNCTION	Not applicable			
POSSIBLE CAUSE	Ambient temperature sensor connector or terminals malfunction Ambient temperature sensor malfunction Short to ground in wiring harness between ambient temperature sensor terminal A and PCM terminal 2I PCM connector or terminals malfunction Ambient temperature sensor signal circuit and ground circuit are shorted to each other PCM malfunction			



Diagnostic Procedure

STEP	INSPECTION		ACTION
1	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.
2	INSPECT AMBIENT TEMPERATURE SENSOR CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
	 Switch the ignition off. Disconnect the ambient temperature sensor connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	No	Go to the next step.
3	INSPECT AMBIENT TEMPERATURE SENSOR Inspect the ambient temperature sensor. (See AMBIENT TEMPERATURE SENSOR INSPECTION [MANUAL AIR CONDITIONER].) (See AMBIENT TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Is there any malfunction?	Yes	Replace the ambient temperature sensor, then go to Step 7. (See AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER].) (See AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) Go to the next step.
4	INSPECT AMBIENT TEMPERATURE SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the ambient temperature sensor connector is disconnected. • Inspect for continuity between ambient temperature sensor terminal A (wiring harness-side) and body ground. • Is there continuity?	Yes	If the short to ground circuit could be detected in the wiring harness: Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to Step 7. Go to the next step.

OTED	INORECTION	ACTION	
STEP	INSPECTION		ACTION
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 7.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
6	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Repair or replace the wiring harness for a possible short to
	SIGNAL CIRCUIT AND GROUND CIRCUIT FOR		each other, then go to the next step.
	SHORT TO EACH OTHER	No	Go to the next step.
	Verify that the ambient temperature sensor and		
	PCM connectors are disconnected.		
	Inspect for continuity between ambient		
	temperature sensor terminals A and B (wiring		
	harness-side).		
	Is there continuity?		
7	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		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 2.5].)
	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].)		'
	Start the engine and warm it up completely.		
	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?		
8	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".	. 55	(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].)	110	2 1 0 thousand outing completed.
	• Are any DTCs present?		
	Land any prospiresent:		