Г					
DTC P0073:00	Ambient temperature sensor circuit high input				
DETECTION CONDITION	 The PCM monitors the input signal from the ambient temperature sensor. If the voltage from the ambient temperature sensor is above 4.8 V for 5 s, 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. The DTC is stored in the PCM memory. 				
FAIL-SAFE FUNCTION	_				
POSSIBLE	• Ambient temperature sensor connector or terminals malfunction • PCM connector or terminals malfunction • Ambient temperature sensor malfunction • Ambient temperature sensor malfunction • Short to power supply in wiring harness between ambient temperature sensor terminal A and PCM terminal				
	(5)(8)				
AMBIE	NT TEMPERATURE SENSOR				
AMBIENT TEMPERATURE SENSOR PCM WIRING HARNESS-SIDE CONNECTOR					
V	VIRING HARNESS-SIDE CONNECTOR 2BE 2AZ 2AU 2AP 2AK 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AF 2AB 2X 2T 2P 2L 2H 2D 2BD 2AY 2AT 2AO 2AI 2AG 2AC 2Y 2U 2Q 2M 2I 2E 2A 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B				

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	CLASSIFY AMBIENT TEMPERATURE SENSOR	Yes	Go to Step 6.
	MALFUNCTION OR WIRING HARNESS	No	Go to the next step.
	MALFUNCTION		
	Access the AAT PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	Verify the AAT PID value.		
	• Is the AAT PID value 5 V or B+ ?		

STEP	INSPECTION	ACTION	
3	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONNECTOR CONDITION		Step 9.
	Switch the ignition to off.	No	Go to the next step.
	Disconnect the ambient temperature sensor	110	Go to the next step.
	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.	163	Step 9.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).	110	Go to the flext step.
	Is there any malfunction?		
5	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Replace the ambient temperature sensor, then go to Step 9.
	Inspect the ambient temperature sensor.	103	(See AMBIENT TEMPERATURE SENSOR REMOVAL/
	(See AMBIENT TEMPERATURE SENSOR		INSTALLATION [MANUAL AIR CONDITIONER].)
	INSPECTION [MANUAL AIR CONDITIONER].)		(See AMBIENT TEMPERATURE SENSOR REMOVAL/
	(See AMBIENT TEMPERATURE SENSOR		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	INSPECTION [FULL-AUTO AIR	No	Go to Step 9.
	CONDITIONER].)		
	• Is there any malfunction?		
6	CLASSIFY AMBIENT TEMPERATURE SENSOR	Yes	Go to the next step.
	SIGNAL CIRCUIT MALFUNCTION OR AMBIENT	No	Go to Step 8.
	TEMPERATURE SENSOR GROUND CIRCUIT		
	MALFUNCTION		
	Switch the ignition to off.		
	Disconnect the ambient temperature sensor		
	connector.		
	Access the AAT PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	Verify the AAT PID value.		
	Is the AAT PID value 5 V or B+?		
7	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Repair or replace the wiring harness for a possible short to
	SIGNAL CIRCUIT FOR OPEN CIRCUIT		power supply, then go to Step 9.
	 Verify that the ambient temperature sensor 	No	Repair or replace the wiring harness for a possible open
	connector is disconnected.		circuit, then go to Step 9.
	Switch the ignition to off.		
	Disconnect the PCM connector.		
	Inspect for continuity between ambient		
	temperature sensor terminal A (wiring harness-		
	side) and PCM terminal 2I (wiring harness-side).		
	• Is there continuity?	.,	
8	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Replace the ambient temperature sensor, then go to the next
	GROUND CIRCUIT FOR OPEN CIRCUIT		step.
	Verify that the ambient temperature sensor		(See AMBIENT TEMPERATURE SENSOR REMOVAL/
	connector is disconnected.		INSTALLATION [MANUAL AIR CONDITIONER].)
	Switch the ignition to off. Disconnect the DCM connector.		(See AMBIENT TEMPERATURE SENSOR REMOVAL/
	Disconnect the PCM connector. Inspect for continuity between ambient.	NI-	INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	Inspect for continuity between ambient temperature conservational P. (wiring barness)	No	Repair or replace the wiring harness for a possible open
	temperature sensor terminal B (wiring harness-		circuit, then go to the next step.
	side) and PCM terminal 2AJ (wiring harness-		
	side).		
	Is there continuity?		

STEP	INSPECTION		ACTION
9	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		If the malfunction recurs, replace the PCM.
	Make sure to reconnect all disconnected		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
	connectors.		2.0].)
	Clear the DTC from the PCM memory using the		Go to the next step.
	M-MDS.	No	Go to the next step.
	(See AFTER REPAIR PROCEDURE		
	[SKYACTIV-G 2.0].)		
	Start the engine and warm it up completely.		
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0].)		
	Is the same DTC present?		
10	VERIFY AFTER REPAIR PROCEDURE	Yes	The second secon
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0].)		
	Are any DTCs present?		