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. TION Diagnostic support note					
FAIL-SAFE FUNCTION	Not applicable					
POSSIBLE CAUSE	 Ambient temperature sensor connector or terminals malfunction Ambient temperature sensor malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between ambient temperature sensor terminal A and PCM terminal 2AX Open circuit in wiring harness between the following terminals: Ambient temperature sensor terminal A—PCM terminal 2AX Ambient temperature sensor terminal B—PCM terminal 2AY PCM malfunction 					
АМВ	3 IENT TEMPERATURE SENSOR 2 5 6 4 2AX V					
	PCM WIRING HARNESS-SIDE CONNECTOR 28E 2AZ 2AU 2AP 2AK 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2BG 2BB 2AW 2AR 2AM 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AI 2AG 2AC 2Y 2U 2Q 2M 2I 2E 2A 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B 2AJ 2AH 2AD 2Z 2V 2R 2H 2D 2AJ 2AH 2AD 2Z 2V 2R 2H 2D 2AJ 2AH 2AD 2Z 2V 2R 2H 2AJ 2AD 2H 2AJ 2AH 2AD 2Z 2V 2R 2H 2AJ 2AD 2H 2AJ 2AH 2AD 2Z 2V 2R 2H 2AJ 2AJ 2AD 2AJ					

Diagnostic Procedure

Diagnostic i rocedure						
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	Yes	Repair or replace the connector and/or terminals, then go to			
	CONNECTOR CONDITION		Step 7.			
	Switch the ignition off.	No	Go to the next step.			
	Disconnect the ambient temperature sensor		·			
	connector.					
	Inspect for poor connection (such as damaged/					
	pulled-out pins, corrosion).					
	Is there any malfunction?					

STEP	INSPECTION		ACTION
3	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Replace the ambient temperature sensor, then go to Step 7.
	Inspect the ambient temperature sensor.		(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 the next step.
	CONDITIONER].)		·
	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 7.
	 Inspect for poor connection (such as damaged/ 	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
5	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	 Verify that the ambient temperature sensor and 		power supply, then go to Step 7.
	PCM connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Measure the voltage at the ambient temperature		
	sensor terminal A (wiring harness-side).		
	• Is the voltage 0 V ?		
6	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	· ·
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the ambient temperature sensor and		circuit, then go to the next step.
	PCM connectors are disconnected.		
	Switch the ignition off.		
	Inspect for continuity between the following terminals (wiring borness side):		
	terminals (wiring harness-side): — Ambient temperature sensor terminal A—		
	PCM terminal 2AX		
	— Ambient temperature sensor terminal B—		
	PCM terminal 2AY		
	• 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-D
	Clear the DTC from the PCM memory using the		2.2].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	SKYACTIV-D 2.2].)		'
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	Is the same DTC present?		
8	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	No	DTC troubleshooting completed.
	TOLOVA OTIV / D. O. O. V	1	I
	[SKYACTIV-D 2.2].) • Are any DTCs present?		