DTC P0533:00	Refrigerant pressure sensor circuit high input					
DETECTION CONDITION	9					
FAIL-SAFE FUNCTION	_					
POSSIBLE	Refrigerant pressure sensor connector or terminals malfunction PCM connector or terminals malfunction Refrigerant pressure sensor malfunction Short to power supply in wiring harness between refrigerant pressure sensor terminal B and PCM terminal 2AX Open circuit in wiring harness between the following terminals: Refrigerant pressure sensor terminal B—PCM terminal 2AX Refrigerant pressure sensor terminal C—PCM terminal 2AJ PCM malfunction S REFRIGERANT					
F	PRESSURE SENSOR 3 4					
	A					
	ERANT PRESSURE SENSOR PCM WIRING HARNESS-SIDE CONNECTOR					
WI	RING HARNESS-SIDE CONNECTOR 2BE 2AZ 2AU 2AP 2AK 2BF 2BA 2AV 2AQ 2AL 2BG 2BB 2AW 2AR 2AM 2BD 2AY 2AT 2AO 2BD 2AY 2AY 2AY 2BD 2					

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

STEP	INSPECTION	ACTION	
3	INSPECT REFRIGERANT PRESSURE 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 refrigerant pressure 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 9.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		·
	Is there any malfunction?		
5	INSPECT REFRIGERANT PRESSURE SENSOR	Yes	Replace the refrigerant pressure sensor, then go to Step 9.
	Inspect the refrigerant pressure sensor.		(See REFRIGERANT PRESSURE SENSOR REMOVAL/
	(See REFRIGERANT PRESSURE SENSOR		INSTALLATION [MANUAL AIR CONDITIONER].)
	INSPECTION [MANUAL AIR CONDITIONER].)		(See REFRIGERANT PRESSURE SENSOR REMOVAL/
	(See REFRIGERANT PRESSURE SENSOR		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	INSPECTION [FULL-AUTO AIR	No	Go to Step 9.
	CONDITIONER].)		
	Is there any malfunction?		
6	CLASSIFY REFRIGERANT PRESSURE	Yes	Go to the next step.
	SENSOR SIGNAL CIRCUIT MALFUNCTION OR	No	Go to Step 8.
	REFRIGERANT PRESSURE SENSOR GROUND		
	CIRCUIT MALFUNCTION		
	Switch the ignition to off.		
	Disconnect the refrigerant pressure sensor		
	connector.		
	• Access the AC_PRES PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	• Verify the AC_PRES PID value.		
7	• Is the AC_PRES PID value 5 V or B+? INSPECT REFRIGERANT PRESSURE SENSOR	Voc	Denois or replace the wiring harmon for a possible short to
'		Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 9.
	SIGNAL CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the refrigerant pressure sensor connector is disconnected.	INO	
	Switch the ignition to off.		circuit, then go to Step 9.
	Disconnect the PCM connector.		
	Inspect for continuity between refrigerant		
	pressure sensor terminal B (wiring harness-side)		
	and PCM terminal 2AX (wiring harness-side).		
	• Is there continuity?		
8	INSPECT REFRIGERANT PRESSURE SENSOR	Yes	Replace the refrigerant pressure sensor, then go to the next
	GROUND CIRCUIT FOR OPEN CIRCUIT		step.
	Verify that the refrigerant pressure sensor		(See REFRIGERANT PRESSURE SENSOR REMOVAL/
	connector is disconnected.		INSTALLATION [MANUAL AIR CONDITIONER].)
	Switch the ignition to off.		(See REFRIGERANT PRESSURE SENSOR REMOVAL/
	Disconnect the PCM connector.		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	Inspect for continuity between refrigerant	No	Repair or replace the wiring harness for a possible open
	pressure sensor terminal C (wiring harness-side)		circuit, then go to the next step.
	and PCM terminal 2AJ (wiring harness-side).		
	• Is there continuity?		

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