	Id0102n4850300					
DTC P0533:00	Refrigerant pressure sensor circuit high input					
DETECTION CONDITION	I • I his is a continuous monitor (other)					
FAIL-SAFE FUNCTION	Not applicable					
POSSIBLE CAUSE	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					
F	© 8 PCM REFRIGERANT PRESSURE SENSOR					
	(2BB) (3) (4) (2BB) (3) (7) (4) (2AX) (C) (A) (2AX) (C) (A) (2AX) (C) (A) (2AX) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A					
	PCM WIRING HARNESS-SIDE CONNECTOR STATE PCM WIRING HARNESS-SIDE CONNECTOR					

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	DETERMINE IF REFRIGERANT PRESSURE	Yes	Go to Step 6.
	SENSOR OR WIRING HARNESS	No	Go to the next step.
	MALFUNCTION		
	Access the AC_PRES PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	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 off.	No	Go to the next step.
	Disconnect the refrigerant pressure sensor		
	connector.		
	Inspect for poor connection (such as damaged/ pulled out pine correction)		
	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.	100	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 PEEDICEPANT PRESSURE SENSOR.)		(See REFRIGERANT PRESSURE SENSOR REMOVAL/
	(See REFRIGERANT PRESSURE SENSOR INSPECTION [MANUAL AIR CONDITIONER].)		INSTALLATION [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	DETERMINE IF REFRIGERANT PRESSURE	Yes	Go to the next step.
	SENSOR SIGNAL CIRCUIT OR REFRIGERANT	No	Go to Step 8.
	PRESSURE SENSOR GROUND CIRCUIT MALFUNCTION		
	Switch the ignition 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, SKYACTIV-G 2.5].)		
	Verify the AC_PRES PID value.Is the AC_PRES PID value 5 V or B+?		
7	INSPECT REFRIGERANT PRESSURE SENSOR	Yes	Repair or replace the wiring harness for a possible short to
'	SIGNAL CIRCUIT FOR OPEN CIRCUIT	. 50	power supply, then go to Step 9.
	Verify that the refrigerant pressure sensor	No	Repair or replace the wiring harness for a possible open
	connector is disconnected.		circuit, then go to Step 9.
	Switch the ignition off. Discourage the DOM compactor.		
	Disconnect the PCM connector. Inspect for continuity between refrigerant.		
	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 off. Disconnect the PCM connector.		(See REFRIGERANT PRESSURE SENSOR REMOVAL/ 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?		
9	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		• If the malfunction recurs, replace the PCM.
	 Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the 		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, 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].)		
	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?		

STEP	INSPECTION		ACTION
10	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(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].)		
	Are any DTCs present?		