

DTC P0532:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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DTC P0532:00	Refrigerant pressure sensor circuit low input
DETECTION CONDITION	<ul style="list-style-type: none">The PCM monitors input voltage from the refrigerant pressure sensor. If the input voltage at the PCM terminal 2AX is below 0.1 V for 5 s, the PCM determines that the refrigerant pressure sensor circuit has a malfunction. <p>Diagnostic support note</p> <ul style="list-style-type: none">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	<ul style="list-style-type: none">Refrigerant pressure sensor connector or terminals malfunctionShort to ground in wiring harness between the following terminals:<ul style="list-style-type: none">Refrigerant pressure sensor terminal A—PCM terminal 2BBRefrigerant pressure sensor terminal B—PCM terminal 2AXPCM connector or terminals malfunctionRefrigerant pressure sensor signal circuit and ground circuit are shorted to each otherOpen circuit in wiring harness between refrigerant pressure sensor terminal A and PCM terminal 2BBRefrigerant pressure sensor malfunctionPCM malfunction

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REFRIGERANT
PRESSURE SENSOR

REFRIGERANT PRESSURE SENSOR
WIRING HARNESS-SIDE
CONNECTOR

PCM

PCM WIRING HARNESS-SIDE CONNECTOR

2BE	2AZ	2AU	2AP	2AK	2AE	2AA	2W	2S	2O	2K	2G	2C		
2BF	2BA	2AV	2AQ	2AL	2AF	2AB	2X	2T	2P	2L	2H	2D		
2BG	2BB	2AW	2AR	2AM	2AI	2AG	2AC	2Y	2U	2Q	2M	2I	2E	2A
2BH	2BC	2AX	2AS	2AN	2AJ	2AH	2AD	2Z	2V	2R	2N	2J	2F	2B
2BD	2AY	2AT	2AO											

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related Service Information availability. Is any related Service Information available? 	Yes	Perform repair or diagnosis according to the available Service Information.
		No	Go to the next step.
2	INSPECT REFRIGERANT PRESSURE SENSOR CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off. Disconnect the refrigerant pressure sensor connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.

STEP	INSPECTION		ACTION
3	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> Verify that the refrigerant pressure sensor connector is disconnected. Inspect for continuity between the following terminals (wiring harness-side) and body ground: <ul style="list-style-type: none"> Refrigerant pressure sensor terminal A Refrigerant pressure sensor terminal B Is there continuity? 	Yes	If the short to ground circuit could be detected in the wiring harness: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 8.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR CONDITION <ul style="list-style-type: none"> Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
5	INSPECT REFRIGERANT PRESSURE SENSOR SIGNAL CIRCUIT AND GROUND CIRCUIT FOR SHORT TO EACH OTHER <ul style="list-style-type: none"> Verify that the refrigerant pressure sensor and PCM connectors are disconnected. Inspect for continuity between refrigerant pressure sensor terminals B and C (wiring harness-side). Is there continuity? 	Yes	Repair or replace the wiring harness for a possible short to each other, then go to Step 8.
		No	Go to the next step.
6	INSPECT REFRIGERANT PRESSURE SENSOR POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Verify that the refrigerant pressure sensor and PCM connectors are disconnected. Inspect for continuity between refrigerant pressure sensor terminal A (wiring harness-side) and PCM terminal 2BB (wiring harness-side). Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 8.
7	INSPECT REFRIGERANT PRESSURE SENSOR <ul style="list-style-type: none"> Inspect the refrigerant pressure sensor. (See REFRIGERANT PRESSURE SENSOR REMOVAL/INSPECTION [MANUAL AIR CONDITIONER].) (See REFRIGERANT PRESSURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Is there any malfunction? 	Yes	Replace the refrigerant pressure sensor, then go to the next step. (See REFRIGERANT PRESSURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER].) (See REFRIGERANT PRESSURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].)
		No	Go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [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? 	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to the next step.
		No	Go to the next step.
9	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	DTC troubleshooting completed.