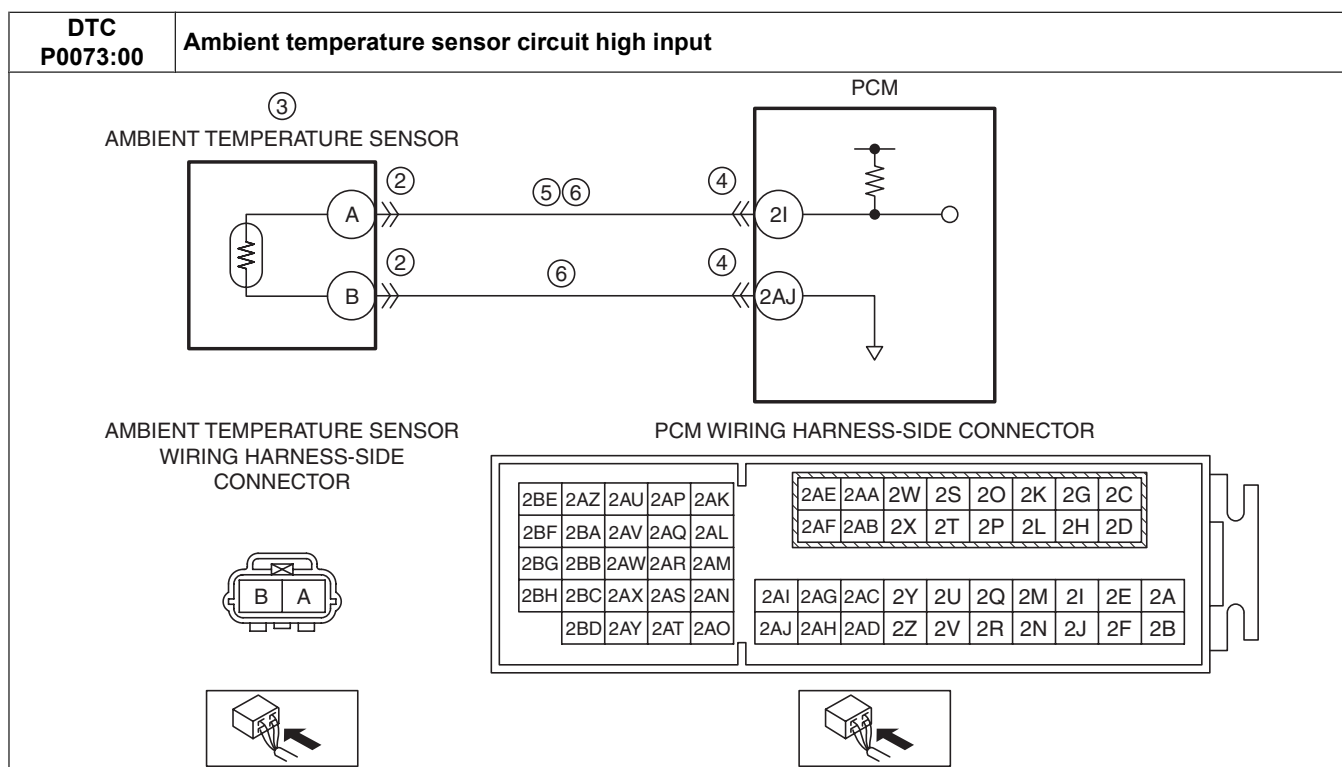


Caution

- Vehicle specifications differ depending on the vehicle identification number (VIN).
 - Type A VIN:
 - JM0 KE***** 100001—
 - JM6 KE***** 100001—
 - JM7 KE***** 100001—
 - JM8 KE***** 100001—
 - JMZ KE***** 100001—
 - KE10** 100001—
 - Type B VIN:
 - JM0 KE***** 200001—
 - JM6 KE***** 200001—
 - JM8 KE***** 200001—
 - JMZ KE***** 200001—
 - KE10** 200001—

DTC P0073:00	Ambient temperature sensor circuit high input
DETECTION CONDITION	Type A VIN <ul style="list-style-type: none"> 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. Type B VIN <ul style="list-style-type: none"> The PCM monitors the input signal from the ambient temperature sensor. If the voltage from the ambient temperature sensor is above 4.88 V, the PCM determines that the ambient temperature sensor circuit has a malfunction. Diagnostic support note <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"> 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 2I Open circuit in wiring harness between the following terminals: <ul style="list-style-type: none"> Ambient temperature sensor terminal A—PCM terminal 2I Ambient temperature sensor terminal B—PCM terminal 2AJ PCM malfunction



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 AMBIENT TEMPERATURE SENSOR CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off. Disconnect the ambient temperature 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 7.
		No	Go to the next step.
3	INSPECT AMBIENT TEMPERATURE SENSOR <ul style="list-style-type: none"> Inspect the ambient temperature sensor. (See AMBIENT TEMPERATURE SENSOR INSPECTION [MANUAL AIR CONDITIONER].) (See AMBIENT TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Is there any malfunction? 	Yes	Replace the ambient temperature sensor, then go to Step 7. (See AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER].) (See AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].)
		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 7.
		No	Go to the next step.
5	INSPECT AMBIENT TEMPERATURE SENSOR CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> Verify that the ambient temperature sensor and 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? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to power supply, then go to Step 7.

STEP	INSPECTION	ACTION	
6	INSPECT AMBIENT TEMPERATURE SENSOR CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the ambient temperature sensor and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> — Ambient temperature sensor terminal A—PCM terminal 2I — Ambient temperature sensor terminal B—PCM terminal 2AJ • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
7	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].) • Start the engine and warm it up completely. • 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.
8	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.