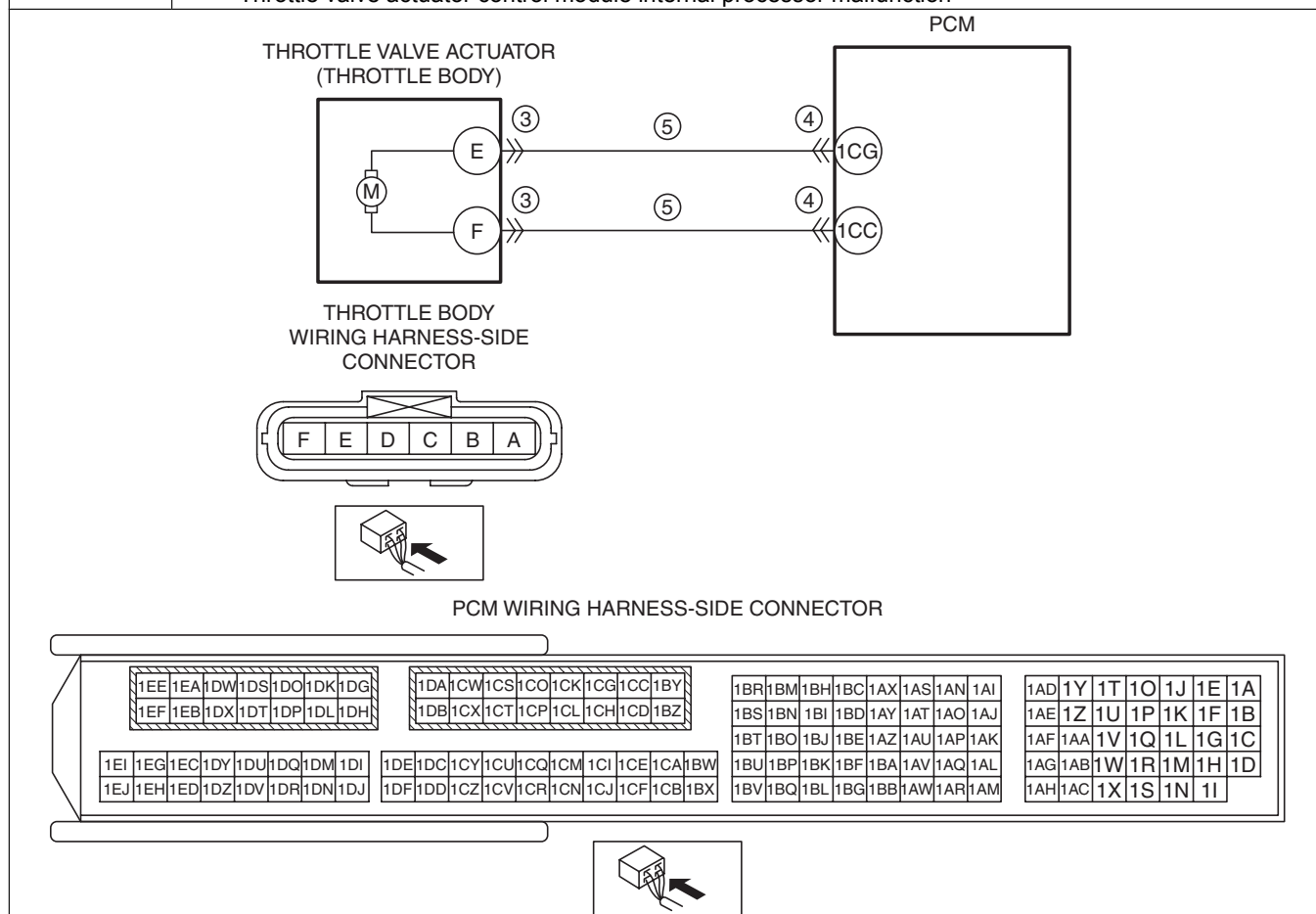


DTC P2107:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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DTC P2107:00	Throttle valve actuator control module processor error
DETECTION CONDITION	<ul style="list-style-type: none"> PCM internal malfunction. Diagnostic support note <ul style="list-style-type: none"> This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> Restricts the upper limit of the engine speed. Stops drive-by-wire control (throttle valve is open at approx. 8 ° by return spring force)
POSSIBLE CAUSE	<ul style="list-style-type: none"> Throttle body connector or terminals malfunction PCM connector or terminals malfunction Throttle body circuits are shorted to each other PCM malfunction <ul style="list-style-type: none"> Throttle valve actuator control module internal processor malfunction



Diagnostic Procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has the FREEZE FRAME DATA (Mode 2)/ snapshot data been recorded? 	Yes: Go to the next step. No: Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.
2	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. • If the vehicle is not repaired, go to the next step. No: Go to the next step.

STEP	INSPECTION	ACTION	
3	INSPECT THROTTLE BODY CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off. Disconnect the throttle body 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 6.
		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 6.
		No	Go to the next step.
5	INSPECT THROTTLE VALVE ACTUATOR CIRCUITS FOR SHORT TO EACH OTHER <ul style="list-style-type: none"> Verify that the throttle body and PCM connectors are disconnected. Inspect for continuity between throttle body terminals E and F (wiring harness-side). Is there continuity? 	Yes	Repair or replace the wiring harness for a possible short to each other, then go to the next step.
		No	Go to the next step.
6	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. 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. • 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.
7	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.