

DTC P0011:00 [SKYACTIV-G 2.0]

id0102h1700100

DTC P0011:00	Intake CMP timing over-advanced
DETECTION CONDITION	<ul style="list-style-type: none"> The actual intake valve timing advance is the specification or more compared to the target intake valve timing for a continuous specified time with the following condition met. <p>MONITORING CONDITIONS</p> <ul style="list-style-type: none"> Engine speed: below 5,000 rpm ECT: above 60 °C {140 °F} <p>Diagnostic support note</p> <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. The DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> Stops activation of the electric variable valve timing driver.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Electric variable valve timing driver malfunction <ul style="list-style-type: none"> Electric variable valve timing actuator is stuck in advanced position Electric variable valve timing motor malfunction Electric variable valve timing actuator malfunction PCM malfunction
SYSTEM WIRING DIAGRAM	—

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.
3	VERIFY RELATED PENDING CODE AND/OR DTC <ul style="list-style-type: none"> Switch the ignition to off, then to ON (engine off). Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].) Is the PENDING CODE/DTC P0010:00 or P1380:00 also present? 	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC P0010:00 [SKYACTIV-G 2.0].) (See DTC P1380:00 [SKYACTIV-G 2.0].)
		No	Go to the next step.
4	INSPECT ELECTRIC VARIABLE VALVE TIMING DRIVER <ul style="list-style-type: none"> Inspect the electric variable valve timing driver. (See ELECTRIC VARIABLE VALVE TIMING MOTOR/DRIVER INSPECTION [SKYACTIV-G 2.0].) Is there any malfunction? 	Yes	Replace the electric variable valve timing motor/driver, then go to Step 7. (See ELECTRIC VARIABLE VALVE TIMING MOTOR/DRIVER REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
		No	Go to the next step.
5	INSPECT ELECTRIC VARIABLE VALVE TIMING MOTOR <ul style="list-style-type: none"> Inspect the electric variable valve timing motor. (See ELECTRIC VARIABLE VALVE TIMING MOTOR/DRIVER INSPECTION [SKYACTIV-G 2.0].) Is there any malfunction? 	Yes	Replace the electric variable valve timing motor/driver, then go to Step 7. (See ELECTRIC VARIABLE VALVE TIMING MOTOR/DRIVER REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
		No	Go to the next step.

STEP	INSPECTION	ACTION	
6	INSPECT ELECTRIC VARIABLE VALVE TIMING ACTUATOR <ul style="list-style-type: none"> Inspect the electric variable valve timing actuator. (See ELECTRIC VARIABLE VALVE TIMING ACTUATOR INSPECTION [SKYACTIV-G 2.0].) Is there any malfunction? 	Yes	Replace the electric variable valve timing actuator, then go to the next step. (See ELECTRIC VARIABLE VALVE TIMING ACTUATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
		No	Go to the next step.
7	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> 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 Drive Mode 03 (Variable Valve Timing, A/F Sensor Heater, HO2S Heater, A/F Sensor, HO2S and TWC Repair Verification Drive Mode). (See OBD DRIVE MODE [SKYACTIV-G 2.0].) Is the PENDING CODE for this 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.
		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].) Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)
		No	DTC troubleshooting completed.