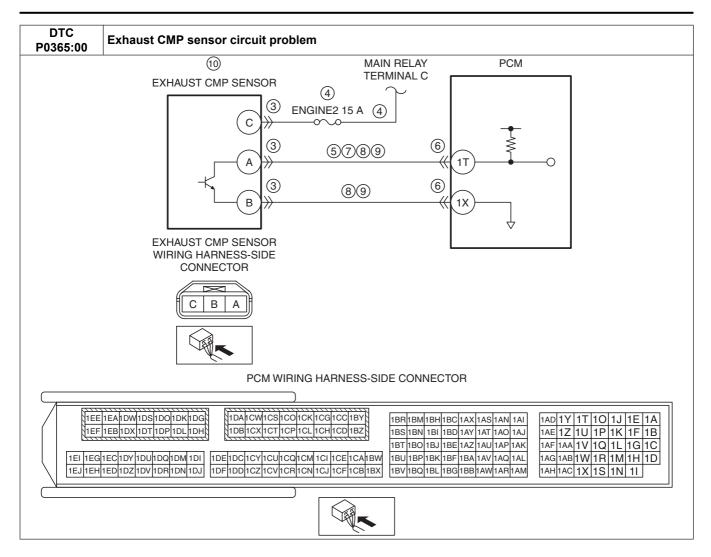
Caution

• 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 P0365:00	Exhaust CMP sensor circuit problem				
DETECTION CONDITION	Type A VIN Exhaust CMP sensor input signal pattern, received while crankshaft rotates 24 times, is incorrect. Cylinder identification is not completed while the crankshaft rotates 13 times. Type B VIN The exhaust CMP sensor input signal pattern, received while the crankshaft rotates 24 times, is incorrect. Cylinder identification is not completed while the crankshaft rotates 15 times. Diagnostic support note 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	Stops fuel injection Stops ignition				
POSSIBLE CAUSE	Stops ignition Exhaust CMP sensor connector or terminals malfunction Short to ground or open circuit in exhaust CMP sensor power supply circuit Short to ground in wiring harness between ENGINE2 15 A fuse and exhaust CMP sensor terminal C ENGINE2 15 A fuse malfunction Open circuit in wiring harness between main relay terminal C and exhaust CMP sensor terminal C Short to ground in wiring harness between exhaust CMP sensor terminal A and PCM terminal 1T PCM connector or terminals malfunction Short to power supply in wiring harness between exhaust CMP sensor terminal A and PCM terminal 1T Exhaust CMP sensor signal circuit and ground circuit are shorted to each other Open circuit in wiring harness between the following terminals: Exhaust CMP sensor terminal A—PCM terminal 1T Exhaust CMP sensor terminal B—PCM terminal 1X Exhaust CMP sensor malfunction Exhaust CMP sensor malfunction CKP sensor connector or terminals malfunction Hydraulic variable valve timing mechanism not installed correctly Loose timing chain or improper valve timing Loose exhaust camshaft sprocket lock bolt Loose crankshaft pulley lock bolt PCM malfunction				



Diagnostic Procedure

Diagin	Diagnostic Procedure						
STEP	INSPECTION		ACTION				
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.				
	SNAPSHOT DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data				
	Has the FREEZE FRAME DATA (Mode 2)/		on the repair order, then go to the next step.				
	snapshot data been recorded?						
2	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.				
3	INSPECT EXHAUST CMP SENSOR	Yes	Repair or replace the connector and/or terminals, then go to				
	CONNECTOR CONDITION		Step 13.				
	Switch the ignition off.	No	Go to the next step.				
	Disconnect the exhaust CMP sensor connector.						
	Inspect for poor connection (such as damaged/						
	pulled-out pins, corrosion).						
	Is there any malfunction?						

STEP	INSPECTION		ACTION
4	INSPECT EXHAUST CMP SENSOR POWER	Yes	Go to the next step.
	SUPPLY CIRCUIT FOR SHORT TO GROUND OR	No	Inspect the ENGINE2 15 A fuse.
	OPEN CIRCUIT		If the fuse is blown:
	Verify that the exhaust CMP sensor connector is		 Repair or replace the wiring harness for a possible
	disconnected.		short to ground.
	Switch the ignition ON (engine off).		— Replace the fuse.
	Measure the voltage at the exhaust CMP sensor terminal C (wiring borness side)		If the fuse is deteriorated: Declare the fuse
	terminal C (wiring harness-side). • Is the voltage B+ ?		— Replace the fuse.
	Is the voltage b +?		If the fuse is normal: Repair or replace the wiring harness for a possible
			open circuit.
			Go to Step 13.
5	INSPECT EXHAUST CMP SENSOR SIGNAL	Yes	If the short to ground circuit could be detected in the wiring
	CIRCUIT FOR SHORT TO GROUND		harness:
	Verify that the exhaust CMP sensor connector is		Repair or replace the wiring harness for a possible short to
	disconnected.		ground.
	Switch the ignition off.		If the short to ground circuit could not be detected in the
	Inspect for continuity between exhaust CMP		wiring harness:
	sensor terminal A (wiring harness-side) and body		Replace the PCM (short to ground in the PCM internal gires uit)
	ground. • Is there continuity?		circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	- 13 mere continuity!		SKYACTIV-G 2.5].)
			Go to Step 13.
		No	Go to the next step.
6	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 13.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
7	INSPECT EXHAUST CMP SENSOR SIGNAL	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	Verify that the exhaust CMP sensor and PCM connectors are disconnected.		power supply, then go to Step 13.
	Switch the ignition ON (engine off).		
	Measure the voltage at the exhaust CMP sensor		
	terminal A (wiring harness-side).		
	• Is the voltage 0 V ?		
8	INSPECT EXHAUST CMP SENSOR SIGNAL	Yes	Repair or replace the wiring harness for a possible short to
	CIRCUIT AND GROUND CIRCUIT FOR SHORT		each other, then go to Step 13.
	TO EACH OTHER	No	Go to the next step.
	Verify that the exhaust CMP sensor and PCM		
	connectors are disconnected. • Switch the ignition off.		
	Inspect for continuity between exhaust CMP		
	sensor terminals A and B (wiring harness-side).		
	• Is there continuity?		
9	INSPECT EXHAUST CMP SENSOR CIRCUIT	Yes	Go to the next step.
	FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the exhaust CMP sensor and PCM		circuit, then go to Step 13.
	connectors are disconnected.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	Exhaust CMP sensor terminal A—PCM terminal 1T		
	Exhaust CMP sensor terminal B—PCM		
	terminal 1X		
	• Is there continuity?		
10	INSPECT EXHAUST CMP SENSOR	Yes	Replace the exhaust CMP sensor, then go to Step 13.
	Inspect the exhaust CMP sensor.		(See CAMSHAFT POSITION (CMP) SENSOR REMOVAL/
	(See CAMSHAFT POSITION (CMP) SENSOR		INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G	No	Go to the next step.
	2.5].)		
L	Is there any malfunction?		

STEP	INSPECTION		ACTION
11	INSPECT CKP SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 13.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the CKP sensor connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
12	VERIFY VALVE TIMING MECHANISM	Yes	'
	INSTALLATION	No	Reinstall the following parts correctly, then go to the next
	Verify the valve timing mechanism installation for		step.
	the following parts:		Timing chain
	Timing chain		Exhaust camshaft sprocket
	Exhaust camshaft sprocket lock bolt		Crankshaft pulley
	Crankshaft pulley lock bolt		
	• Is the valve timing mechanism installed correctly?		
13	VERIFY DTC TROUBLESHOOTING	Yes	The state of the
	COMPLETED		• If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	Clear the DTC from the PCM memory using the		SKYACTIV-G 2.5].)
	M-MDS.	NI.	Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Start the engine.		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	• Is the same DTC present?		
14	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
'-	Perform the "AFTER REPAIR PROCEDURE".	103	(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].)	110	Dio housioshooting completed.
	• Are any DTCs present?		
	, and daily is not proceed.	l	