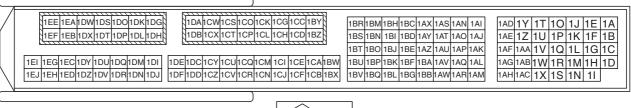
DTC P0328:0	00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]				
DTC P0328:00	KS circuit high input				
DETECTION CONDITION	()				
FAIL-SAFE FUNCTION	Sets the knocking spark retard correction value of the ignition control to the fixed value.				
POSSIBLE CAUSE	KS connector or terminals malfunction KS malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between the following terminals: KS terminal A—PCM terminal 1H KS terminal B—PCM terminal 1D KS circuits are shorted to each other Open circuit in wiring harness between the following terminals: KS terminal A—PCM terminal 1H KS terminal B—PCM terminal 1D PCM malfunction				
	(4) KS PCM KS (1H) (3) (6) (7) (8) (1D) (8) WIRING HARNESS-SIDE CONNECTOR				



PCM WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

STEF	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?		

STEP	INSPECTION	ACTION	
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 KS CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition off.		Step 9.
	Disconnect the KS connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/		P
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT KS	Yes	Replace the KS, then go to Step 9.
	Inspect the KS.		(See KNOCK SENSOR (KS) REMOVAL/INSTALLATION
	(See KNOCK SENSOR (KS) INSPECTION		[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	No	Go to the next step.
	Is there any malfunction?		
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 9.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	• Is there any malfunction?	V- ·	Co to the most step
6	INSPECT KS CIRCUIT FOR SHORT TO POWER SUPPLY	Yes	
		No	Repair or replace the wiring harness for a possible short to
	Verify that the KS and PCM connectors are disconnected.		power supply, then go to Step 9.
	Switch the ignition ON (engine off).		
	Measure the voltage at the following terminals		
	(wiring harness-side):		
	KS terminal A		
	KS terminal B		
	• Is the voltage 0 V ?		
7	INSPECT KS CIRCUITS FOR SHORT TO EACH	Yes	Repair or replace the wiring harness for a possible short to
	OTHER		each other, then go to Step 9.
	Verify that the KS and PCM connectors are	No	Go to the next step.
	disconnected.		·
	Switch the ignition off.		
	Inspect for continuity between KS terminals A and		
	B (wiring harness-side).		
	• Is there continuity?	.,	
8	INSPECT KS CIRCUIT FOR OPEN CIRCUIT	Yes	·
	Verify that the KS and PCM connectors are	No	Repair or replace the wiring harness for a possible open
	disconnected.		circuit, then go to the next step.
	Inspect for continuity between the following		
	terminals (wiring harness-side): — KS terminal A—PCM terminal 1H		
	KS terminal B—PCM terminal 1D KS terminal B—PCM terminal 1D		
	Is there continuity?		
9	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED	103	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.		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 KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	Is the same DTC present?		
10	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(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].)		
	Are any DTCs present?		