DTC P0336:00	CKP sensor circuit range/performance problem
DETECTION CONDITION	9
FAIL-SAFE FUNCTION	Inhibits engine-stop by operating the i-stop function.
POSSIBLE CAUSE	CKP sensor connector or terminals malfunction Improper installation of CKP sensor CKP sensor malfunction PCM connector or terminals malfunction CKP sensor pulse wheel malfunction PCM malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic Procedure

	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	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the applicable PENDING CODE or DTC inspection.			
	DTC		(See DTC TABLE [SKYACTIV-D 2.2].)			
	Switch the ignition off, then ON (engine off).	No	Go to the next step.			
	Perform the Pending Trouble Code Access		·			
	Procedure and DTC Reading Procedure.					
	(See ON-BOARD DIAGNOSTIC TEST					
	[SKYACTIV-D 2.2].)					
	 Are any other PENDING CODEs and/or DTCs 					
	present?					
4	INSPECT CKP SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to			
	CONDITION		Step 8.			
	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?					
5	INSPECT CKP SENSOR INSTALLATION	Yes	Install the CKP sensor properly, then go to Step 8.			
	CONDITION		(See CRANKSHAFT POSITION (CKP) SENSOR			
	Inspect for CKP sensor looseness.		REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)			
	Is the CKP sensor loosen?	No	Go to the next step.			
6	INSPECT CKP SENSOR	Yes	Replace the CKP sensor, then go to Step 8.			
	Inspect the CKP sensor.		(See CRANKSHAFT POSITION (CKP) SENSOR			
	(See CRANKSHAFT POSITION (CKP) SENSOR		REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)			
	INSPECTION [SKYACTIV-D 2.2].)	No	Go to the next step.			
	Is there any malfunction?					

STEP	INSPECTION		ACTION
7	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
'	• Switch the ignition off.	163	the next step.
	 Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	No	Damage to the CKP sensor pulse wheel can be considered the cause. Overhaul the engine, inspect the CKP sensor pulse wheel. If there is any malfunction: Replace the CKP sensor pulse wheel, then go to the next step. If there is no malfunction: Go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Perform the KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].) • 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-D 2.2].) Go to the next step. Go to the next step.
9	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present?	Yes No	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].) DTC troubleshooting completed.