	id0102h4700600					
DTC P0037:00	HO2S heater control circuit low input					
The PCM monitors the HO2S heater output voltage. If the PCM turns the HO2S heater off but the HO2S heater circuit remains low voltage, the PCM determines that the HO2S heater circuit has a malfunction. Diagnostic support note This is a continuous monitor (A/F sensor heater, HO2S heater). The check engine light illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. PENDING CODE is available 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 feedback control					
POSSIBLE CAUSE	5					
MAIN RELAY						
TERMINAL C (4) HO2S HEATER (HO2S) (A) ENGINE1 15 A (3) (HO2S) (C) W D (C) W D (C) W D						
HO2S PCM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE						
	CONNECTOR 2BE 2AZ 2AU 2AP 2AK 2BF 2BA 2AV 2AQ 2AL 2BG 2BB 2AW 2AR 2AM 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AI 2AG 2AC 2Y 2U 2Q 2M 2I 2E 2A 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B					

Diagnostic Procedure

Diagnostic Procedure					
STEP	INSPECTION		ACTION		
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.		
	SNAPSHOT DATA AND DIAGNOSTIC	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data		
	MONITORING TEST RESULTS HAVE BEEN		and DIAGNOSTIC MONITORING TEST RESULTS on the		
	RECORDED		repair order, then go to the next step.		
	Have the FREEZE FRAME DATA (Mode 2)/				
	snapshot data and DIAGNOSTIC MONITORING				
	TEST RESULTS (A/F sensor heater, HO2S				
	heater related) 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.		

STEP	INSPECTION		ACTION
3	INSPECT HO2S CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition off.	. 55	Step 9.
	Disconnect the HO2S connector.	No	Go to the next step.
	 Inspect for poor connection (such as damaged/ 		
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
4	INSPECT HO2S HEATER POWER SUPPLY	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO GROUND OR OPEN	No	Inspect the ENGINE1 15 A fuse.
	CIRCUIT		If the fuse is blown:
	Verify that the HO2S connector is disconnected.		Repair or replace the wiring harness for a possible
	Switch the ignition ON (engine off).		short to ground.
	 Measure the voltage at the HO2S terminal C 		 Replace the fuse.
	(wiring harness-side).		If the fuse is deteriorated:
	• Is the voltage B+ ?		 Replace the fuse.
			If the fuse is normal:
			Repair or replace the wiring harness for a possible
			open circuit.
			Go to Step 9.
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition off.		Step 9.
	Disconnect the PCM connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
6	INSPECT HO2S HEATER CONTROL CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	FOR SHORT TO GROUND	N	ground, then go to Step 9.
	 Verify that the HO2S and PCM connectors are disconnected. 	No	Go to the next step.
	Inspect for continuity between HO2S terminal D		
	(wiring harness-side) and body ground.		
	• Is there continuity?		
7	INSPECT HO2S HEATER	Yes	Replace the HO2S, then go to Step 9.
	Inspect the HO2S heater.		(See HEATED OXYGEN SENSOR (HO2S) REMOVAL/
	(See HEATED OXYGEN SENSOR (HO2S)		INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G	No	Go to the next step.
	2.5].)		
	Is there any malfunction?		
8	INSPECT HO2S HEATER CONTROL CIRCUIT		Go to the next step.
	FOR OPEN CIRCUIT	No	, , , , , , , , , , , , , , , , , , , ,
	Verify that the HO2S and PCM connectors are		circuit, then go to the next step.
	disconnected. Inspect for continuity between HO2S terminal D		
	(wiring harness-side) and PCM terminal 2C		
	(wiring harness-side).		
	• Is there continuity?		
9	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED	. 55	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].)		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	• Is the PENDING CODE for this 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?		