The PCM monitors the HO2S heater output voltage. If the PCM turns the HO2S heater on but the HO2S heater circuit remains high 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 first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. The DTC is stored in the PCM memory. Stops the fuel feedback control of the HO2S. HO2S connector or terminals malfunction HO2S heater malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between HO2S terminal D and PCM terminal 2C PCM malfunction MAIN RELAY TERMINAL C HO2S HAATER A C BE 22A 2AU 2AP 2AK 2B 2AN 2AQ 2AL 2BE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 1P PL L PH 2D 2BH 2BC 2AX 2AS 2AN 2AQ 2AL 2BC 2AB 2AV 2AQ 2AL 2B	DTC	HO2S heater control circuit high input						
POSSIBLE CAUSE * HO2S connector or terminals malfunction * HO2S heater malfunction * PCM connector or terminals malfunction * Short to power supply in wiring harness between HO2S terminal D and PCM terminal 2C * PCM malfunction MAIN RELAY TERMINAL C * HO2S HEATER (HO2S) * HO2S HEATER (HO2S) * BOM WIRING HARNESS-SIDE CONNECTOR * PCM	The PCM monitors the HO2S heater output voltage. If the PCM turns the HO2S heater on but the HO2S heater circuit remains high 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 first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available.							
HO2S heater malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between HO2S terminal D and PCM terminal 2C PCM malfunction MAIN RELAY TERMINAL C HO2S HEATER (HO2S) ENGINE1 15 A 3 C W D WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR PCM WIRING HARNESS-SIDE CONNECTOR PCM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR PCM WIRING HARNESS-SIDE CONNECTOR		Stops the fuel feedback control of the HO2S.						
TERMINAL C HO2S HEATER (HO2S) S ENGINE1 15 A 3 C WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AA 2W 2AA 2AA 2W 2AA 2AA 2W 2AA 2AA 2W 2AA 2AA		 HO2S heater malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between HO2S terminal D and PCM terminal 2C 						
	γ	HO2S HEATER (HO2S) C W D FOM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR BENGINE1 15 A 3 C W D FOM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR BENGINE1 15 A 3 C W D FOM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR BENGINE1 15 A 3 C W D FOM WIRING HARNESS-SIDE CONNECTOR BENGINE1 15 A 3 FOM WIRING HARNESS-SIDE CONNECTOR FOM WIRING HARNESS-SIDE CONNECTOR FOR WIRING HARNESS-SIDE CONNECTOR FOM WIRING HARNESS-SIDE CONNECTOR FOR WIRING HARNESS-SIDE CONNECTOR FOR WIRING HAR						

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.
3	INSPECT HO2S CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition to off.		Step 7.
	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?		

STEP	INSPECTION		ACTION
4	INSPECT HO2S HEATER • Inspect the HO2S heater. (See HEATED OXYGEN SENSOR (HO2S)	Yes	Replace the HO2S, then go to Step 7. (See HEATED OXYGEN SENSOR (HO2S) REMOVAL/ INSTALLATION [SKYACTIV-G 2.0].)
	INSPECTION [SKYACTIV-G 2.0].) • Is there any malfunction?	No	Go to the next step.
5	• Disconnect the PCM connector.	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
	 Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	No	Go to the next step.
6	INSPECT HO2S HEATER CONTROL CIRCUIT	Yes	Go to the next step.
	 FOR SHORT TO POWER SUPPLY Verify that the HO2S and PCM connectors are disconnected. Switch the ignition ON (engine off or on). Measure the voltage at the HO2S terminal D (wiring harness-side). 	No	Repair or replace the wiring harness for a possible short to power supply, then go to the next step.
	• Is the voltage 0 V ?		
7	VERIFY DTC TROUBLESHOOTING COMPLETED • 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 KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].) • Is the PENDING CODE for this DTC present?	No	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. Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Are any DTCs present?	No	DTC troubleshooting completed.