IAT sensor No.1 circuit range/performance problem			
 The difference between the intake air temperature measured by IAT sensor No.1 and IAT sensor No.2 exceeds 50 °C {90 °F}. The difference between the intake air temperature measured by IAT sensor No.1 and boost air temperature sensor exceeds 50 °C {90 °F}. Diagnostic support note This is a continuous monitor (CCM). 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. 			
 Inhibits the two-stage turbo control. Inhibits the EGR control. The fast idle up correction for the idle speed control is inhibited. Inhibits engine-stop by operating the i-stop function. PCM restricts engine-transaxle integration control. 			
MAF sensor/IAT sensor No.1 connector or terminals malfunction IAT sensor No.1 malfunction PCM connector or terminals malfunction PCM malfunction 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	INSPECT MAF SENSOR/IAT SENSOR NO.1	Yes	Repair or replace the connector and/or terminals, then go to			
	CONNECTOR CONDITION		Step 6.			
	Switch the ignition off.	No	Go to the next step.			
	Disconnect the MAF sensor/IAT sensor No.1					
	connector.					
	 Inspect for poor connection (such as damaged/ 					
	pulled-out pins, corrosion).					
	Is there any malfunction?					
4	INSPECT IAT SENSOR NO.1	Yes	Replace the MAF sensor/IAT sensor No.1, then go to Step			
	Inspect the IAT sensor No.1.		6.			
	(See INTAKE AIR TEMPERATURE (IAT)		(See MASS AIR FLOW (MAF) SENSOR/INTAKE AIR			
	SENSOR INSPECTION [SKYACTIV-D 2.2].)		TEMPERATURE (IAT) SENSOR NO.1 REMOVAL/			
	Is there any malfunction?		INSTALLATION [SKYACTIV-D 2.2].)			
		No	Go to the next step.			
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to			
	Disconnect the PCM connector.		the next step.			
	Inspect for poor connection (such as damaged/	No	Go to the next step.			
	pulled-out pins, corrosion).					
	Is there any malfunction?					

STEP	INSPECTION		ACTION
6	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].) • Leave the vehicle for 6 hours or more. • Start the engine and idle it for 1 min. • Perform the Pending Trouble Code Access Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the PENDING CODE for this DTC present?	Yes No	
7	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.