DTC P0181:00	Fuel temperature sensor circuit range/performance problem					
	• The difference between the fuel temperature minimum value and maximum value is 1 °C {2 °F} or less for a continuous 3 s when the following conditions are met:  MONITORING CONDITIONS					
DETECTION	Battery voltage: 8 V or more     Engine coolant temperature after engine start: -25—60 °C {-13—140 °F}  N Diagnostic support note					
CONDITION • This is an intermittent monitor (fuel system).						
	The check engine light illuminates if the PCM detects the above malfunction condition in two consecutives.					
	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	Inhibits engine-stop by operating the i-stop function.					
FUNCTION	PCM restricts engine-transaxle integration control.					
	Fuel temperature sensor connector or terminals malfunction					
POSSIBLE	Fuel temperature sensor malfunction					
CAUSE	PCM connector or terminals malfunction					
	PCM malfunction					
SYSTEM						
WIRING	Not applicable					
DIAGRAM						

**Diagnostic Procedure** 

Diagno	lagnostic 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 (fuel system 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 FUEL TEMPERATURE SENSOR	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 fuel temperature sensor						
	connector.						
	Inspect for poor connection (such as damaged/						
	pulled-out pins, corrosion).						
	• Is there any malfunction?						
4	INSPECT FUEL TEMPERATURE SENSOR	Yes	Replace the lower case, then go to Step 6.				
	• Inspect the fuel temperature sensor.		(See LOWER CASE REMOVAL/INSTALLATION				
	(See FUEL TEMPERATURE SENSOR		[SKYACTIV-D 2.2].)				
	INSPECTION [SKYACTIV-D 2.2].)	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.		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].)  • Perform the Drive Mode Type B.  (See OBD DRIVE MODE [SKYACTIV-D 2.2].)  • 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	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.
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.