DTC P0198:00	Engine oil temperature sensor circuit high input			
DETECTION CONDITION	The PCM monitors the engine oil temperature sensor signal. If the PCM detects that the engine oil temperature sensor voltage at the PCM terminal 1DI is above 4.9 V for 1 s, the PCM determines that the engine oil temperature sensor circuit has a malfunction. MONITORING CONDITIONS Battery voltage: 8—20 V Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates 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	The fast idle up correction for the idle speed control is inhibited. Inhibits engine-stop by operating the i-stop function.			
POSSIBLE CAUSE	Engine oil temperature sensor/engine oil pressure sensor connector or terminals malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between engine oil temperature sensor/engine oil pressure sensor terminal E and PCM terminal 1DI Open circuit in wiring harness between the following terminals: Engine oil temperature sensor/engine oil pressure sensor terminal E—PCM terminal 1DI Engine oil temperature sensor/engine oil pressure sensor terminal C—PCM terminal 1DJ Engine oil temperature sensor malfunction PCM malfunction			
	ENGINE OIL TEMPERATURE SENSOR/ ENGINE OIL PRESSURE SENSOR)			



PCM WIRING HARNESS-SIDE CONNECTOR

	1CK1CG1CC1BY						
1EF 1EB 1DX 1DT 1DP 1DL 1DH 1DB 1CX 1CT 1CP	1CL 1CH 1CD 1BZ 1BN 1BI 1BD 1AY 1AT 1AO 1AJ 1AE 1Z 1U 1P 1K 1F 1B						
	1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK 1AF 1AA 1V 1Q 1L 1G 1C						
1EI 1EG1EC1DY 1DU1DQ1DM1DI 1DE1DC1CY1CU1CQ							
1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ 1DF 1DD 1CZ 1CV 1CR	1CN 1CJ 1CF 1CB 1BX 1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM 1AH 1AC 1X 1S 1N 1I						

Diagnostic Procedure

STEP	INSPECTION	ACTION	
	VERIFY FREEZE FRAME DATA (MODE 2)/	Voo	
1	1	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?	1/	D. C
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 ENGINE OIL TEMPERATURE	Yes	Repair or replace the connector and/or terminals, then go to
	SENSOR/ENGINE OIL PRESSURE SENSOR		Step 8.
	CONNECTOR CONDITION	No	Go to the next step.
	Switch the ignition off.		
	Disconnect the engine oil temperature sensor/		
	engine oil pressure sensor connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 8.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
5	INSPECT ENGINE OIL TEMPERATURE	Yes	Go to the next step.
	SENSOR CIRCUIT FOR SHORT TO POWER	No	Repair or replace the wiring harness for a possible short to
	SUPPLY		power supply, then go to Step 8.
	Verify that the engine oil temperature sensor/		
	engine oil pressure sensor and PCM connectors		
	are disconnected.		
	Switch the ignition ON (engine off).		
	Measure the voltage at the engine oil temperature		
	sensor/engine oil pressure sensor terminal E		
	(wiring harness-side).		
	• Is the voltage 0 V?	\ /	
6	INSPECT ENGINE OIL TEMPERATURE	Yes	
	SENSOR SIGNAL CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the engine oil temperature sensor/ POM assessment BOM assessment and		circuit, then go to Step 8.
	engine oil pressure sensor and PCM connectors are disconnected.		
	Switch the ignition off. Inchest for continuity between the following.		
	Inspect for continuity between the following terminals (wiring harmons side):		
	terminals (wiring harness-side):		
	Engine oil temperature sensor/engine oil		
	pressure sensor terminal E—PCM terminal 1DI		
	Engine oil temperature sensor/engine oil prossure sensor terminal C. PCM terminal		
	pressure sensor terminal C—PCM terminal 1DJ		
7	• Is there continuity? INSPECT ENGINE OIL TEMPERATURE	Voo	Poplace the engine oil temperature concer/engine oil
'		Yes	Replace the engine oil temperature sensor/engine oil
	SENSOR		pressure sensor, then go to the next step. (See ENGINE OIL TEMPERATURE SENSOR/ENGINE OIL
	 Inspect the engine oil temperature sensor. (See ENGINE OIL TEMPERATURE SENSOR 		PRESSURE SENSOR REMOVAL/INSTALLATION
	INSPECTION [SKYACTIV-D 2.2].)	NIa	[SKYACTIV-D 2.2].)
	Is there any malfunction?	No	Go to the next step.

STEP	INSPECTION		ACTION
8	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	Clear the DTC from the PCM memory using the		2.2].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-D 2.2].)		
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	Is the same DTC present?		
9	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-D 2.2].)		
	Are any DTCs present?		