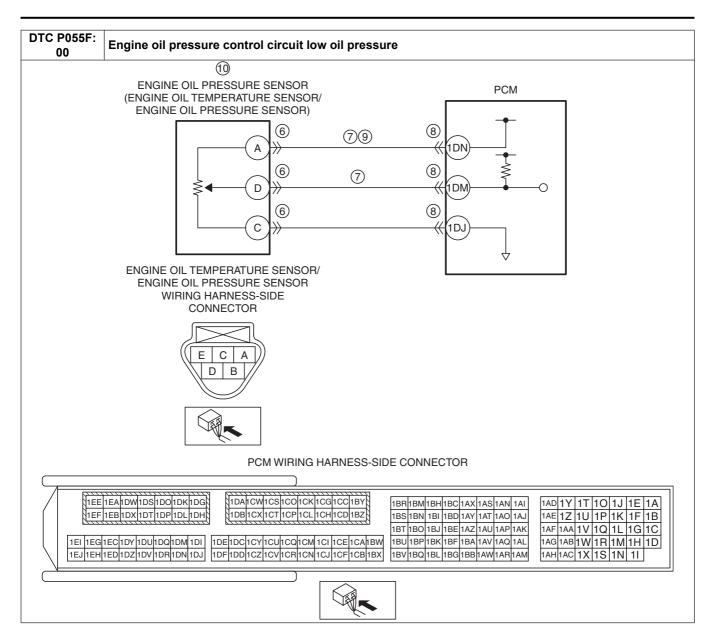
DTC P055F: 00	Engine oil pressure control circuit low oil pressure
	• The engine oil pressure is the specified value or less after the specified time has elapsed since the engine was started.
	Engine speed is 2,000 rpm or less: 80 kPa {0.82 kgf/cm², 12 psi}
	Engine speed is 2,000 to 3,500 rpm: 120 kPa {1.22 kgf/cm ² , 17.4 psi}
DETECTION	Engine speed is 3,500 rpm or more: 180 kPa {1.84 kgf/cm ² , 26.1 psi}
CONDITION	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	PCM restricts engine torque.
FUNCTION	The fast idle up correction for the idle speed control is inhibited.
	• Engine oil leakage
	• Improper engine oil level
	Engine oil temperature sensor/engine oil pressure sensor connector or terminals malfunction
	• Short to ground in wiring harness between the following terminals:
DOGGIDI E	Engine oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor/engine oil pressure sensor terminal A—PCM terminal 1DN Financial oil temperature sensor terminal temperature sensor temperatur
POSSIBLE	Engine oil temperature sensor/engine oil pressure sensor terminal D—PCM terminal 1DM PCM segge automaticals graphs and the state of the state
CAUSE	• PCM connector or terminals malfunction
	 Open circuit in wiring harness between engine oil temperature sensor/engine oil pressure sensor terminal A and PCM terminal 1DN
	Engine oil pressure sensor malfunction
	Oil pump malfunction
	PCM malfunction



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	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the applicable PENDING CODE or DTC inspection.			
	DTC		(See DTC TABLE [SKYACTIV-D 2.2].)			
	Switch the ignition off, then ON (engine off).	No	Go to the next step.			
	Perform the Pending Trouble Code Access					
	Procedure and DTC Reading Procedure.					
	(See ON-BOARD DIAGNOSTIC TEST					
	[SKYACTIV-D 2.2].)					
	Are any other PENDING CODEs and/or DTCs					
	present?					

STEP	INSPECTION		ACTION
4	INSPECT ENGINE OIL LEAKAGE	Yes	Repair or replace the malfunctioning part according to the
"	• Start the engine.		inspection results, then add genuine motor oil.
	Verify that there is no engine oil leakage in the		Go to Step 11.
	hydraulic circuit.	No	Go to the next step.
		INO	Go to the next step.
	• Is there any leakage?	Vaa	Co to the next stee
5	INSPECT ENGINE OIL LEVEL	Yes	Go to the next step.
	• Inspect the engine oil level.	No	Add genuine motor oil, then go to the next step.
	(See ENGINE OIL LEVEL INSPECTION		(See ENGINE OIL REPLACEMENT [SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].)		
	Is the engine oil level sufficient?		
6	INSPECT ENGINE OIL TEMPERATURE	Yes	Repair or replace the connector and/or terminals, then go to
	SENSOR/ENGINE OIL PRESSURE SENSOR		Step 11.
	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?		
7	INSPECT ENGINE OIL PRESSURE SENSOR	Yes	If the short to ground circuit could be detected in the wiring
	CIRCUIT FOR SHORT TO GROUND		harness:
	Verify that the engine oil temperature sensor/		Repair or replace the wiring harness for a possible short to
	engine oil pressure sensor connector is		ground.
	disconnected.		If the short to ground circuit could not be detected in the
	Switch the ignition off.		wiring harness:
	Inspect for continuity between the following		Replace the PCM (short to ground in the PCM internal
	terminals (wiring harness-side) and body ground:		circuit).
	Engine oil temperature sensor/engine oil		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	pressure sensor terminal A		2.2].)
	Engine oil temperature sensor/engine oil		Go to Step 11.
	pressure sensor terminal D	No	Go to the next step.
	• Is there continuity?	110	Go to the next step.
8	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 11.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).	110	Go to the next step.
	• Is there any malfunction?		
9	INSPECT ENGINE OIL PRESSURE SENSOR	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT		
	Verify that the engine oil temperature sensor/	No	Repair or replace the wiring harness for a possible open circuit, then go to Step 11.
			orcar, men go to step 11.
	engine oil pressure sensor and PCM connectors		
	are disconnected.		
	Inspect for continuity between engine oil		
	temperature sensor/engine oil pressure sensor		
	terminal A (wiring harness-side) and PCM		
	terminal 1DN (wiring harness-side).		
	• Is there continuity?	.,	
10	INSPECT ENGINE OIL PRESSURE SENSOR	Yes	, , , , , , , , , , , , , , , , , , , ,
	Reconnect all disconnected connectors.		pressure sensor, then go to the next step.
	Inspect the engine oil pressure sensor.		(See ENGINE OIL TEMPERATURE SENSOR/ENGINE OIL
	(See ENGINE OIL PRESSURE SENSOR		PRESSURE SENSOR REMOVAL/INSTALLATION
	INSPECTION [SKYACTIV-D 2.2].)		[SKYACTIV-D 2.2].)
	Is there any malfunction?	No	Replace the oil pump, then go to the next step.
			(See OIL PUMP REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].)
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STEP	INSPECTION		ACTION
11	VERIFY DTC TROUBLESHOOTING COMPLETED Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE)	Yes	If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) Start the engine and warm it up completely. Caution While performing this step, always operate the vehicle in a safe and lawful manner. When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD capturing function and inspect later.	No	Go to the next step.
	Drive the vehicle under the FREEZE FRAME DATA (Mode 2)/snapshot data condition. Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) Is the same DTC present?		
12	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE".	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present?	No	DTC troubleshooting completed.