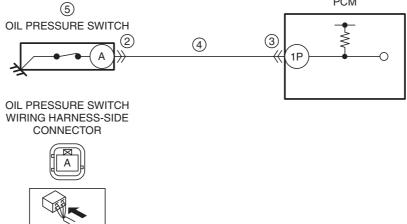
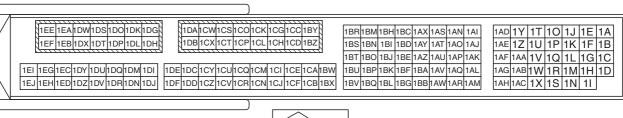
DTC P0520:00 [SKYACTIV-G 2.0]

id0102h1008800

DTC P0520:00	Oil pressure switch circuit problem				
	• The oil pressure switch is off for a continuous 5 s even though the engine is stopped.				
	Diagnostic support note				
DETECTION	• This is a continuous monitor (other).				
CONDITION	The check engine light does not illuminate.				
	FREEZE FRAME DATA (Mode 2)/Snapshot data is not available.				
	The DTC is stored in the PCM memory.				
FAIL-SAFE	<u> </u>				
FUNCTION					
	Oil pressure switch connector or terminals malfunction				
POSSIBLE	PCM connector or terminals malfunction				
CAUSE	Open circuit in wiring harness between oil pressure switch terminal A and PCM terminal 1P				
OAGGE	Oil pressure switch malfunction				
	PCM malfunction				
(5) PCM					
OIL PRESSURE SWITCH					
01L FRESSORE SWITCH (3)					
4					



PCM WIRING HARNESS-SIDE CONNECTOR





Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	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.
2	INSPECT OIL PRESSURE SWITCH	Yes	Repair or replace the connector and/or terminals, then go to
	CONNECTOR CONDITION		Step 6.
	Switch the ignition to off.	No	Go to the next step.
	Disconnect the oil pressure switch connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
3	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 6.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		

STEP	INSPECTION		ACTION
4	INSPECT OIL PRESSURE SWITCH SIGNAL	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the oil pressure switch and PCM		circuit, then go to Step 6.
	connectors are disconnected.		
	• Inspect for continuity between oil pressure switch		
	terminal A (wiring harness-side) and PCM		
	terminal 1P (wiring harness-side).		
5	Is there continuity? INSPECT OIL PRESSURE SWITCH	Yes	Replace the oil pressure switch, then go to the next step.
3	• Inspect the oil pressure switch.	165	(See ENGINE OIL SOLENOID VALVE REMOVAL/
	(See OIL PRESSURE SWITCH INSPECTION.)		INSTALLATION [SKYACTIV-G 2.0].)
	• Is there any malfunction?	No	Go to the next step.
6	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		If the malfunction recurs, replace the PCM.
	Make sure to reconnect all disconnected		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
	connectors.		2.0].)
	Clear the DTC from the PCM memory using the		Go to the next step.
	M-MDS.	No	Go to the next step.
	(See AFTER REPAIR PROCEDURE		
	[SKYACTIV-G 2.0].) • Perform the KOEO self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0].)		
	• Is the same DTC present?		
7	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	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0].)		
	Are any DTCs present?		