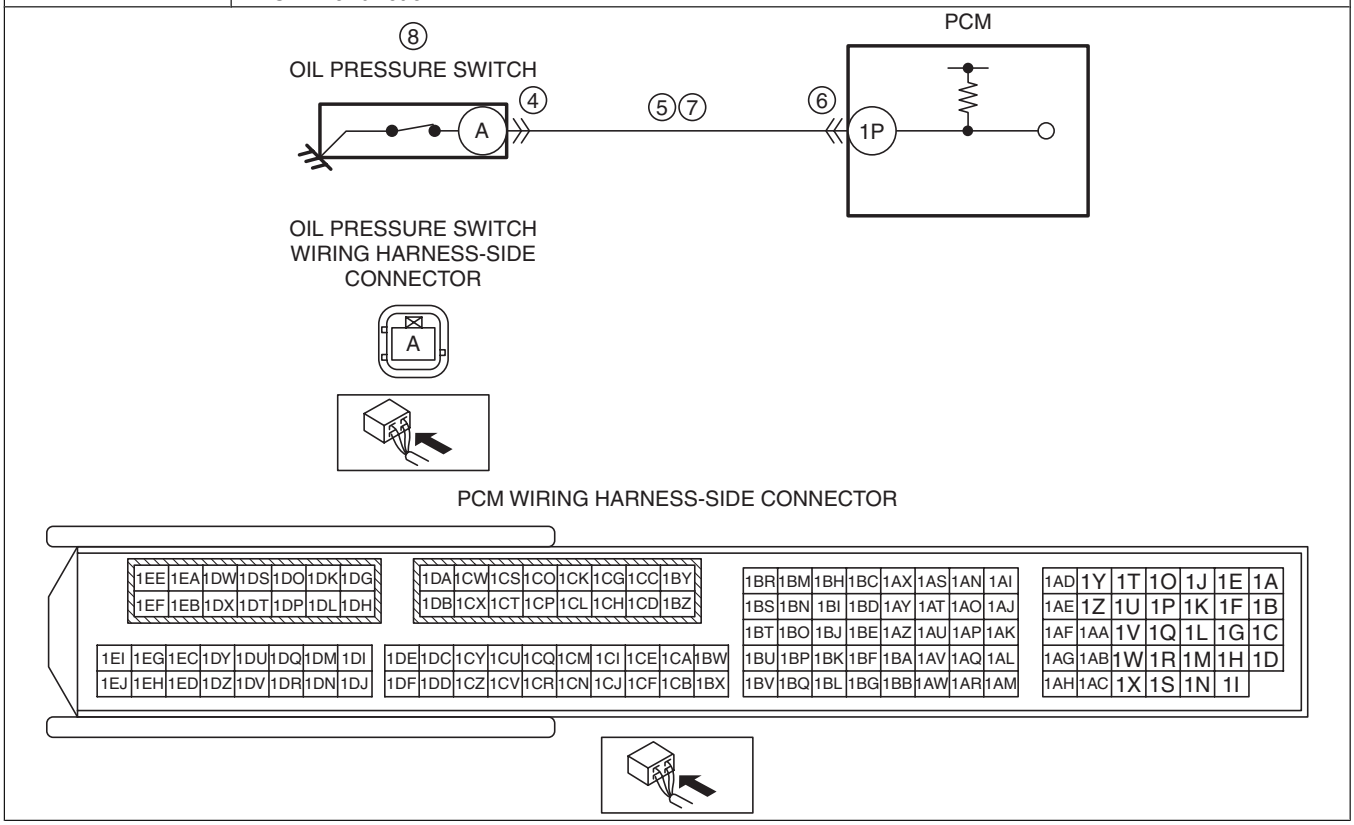
NO.7 ENGINE OIL WARNING LIGHT ILLUMINATES/MESSAGE "Engine Oil Pressure Inspection Required" IS INDICATED IN TFT LCD [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0103g3879300

7	**ENGINE OIL WARNING LIGHT ILLUMINATES/MESSAGE “Engine Oil Pressure Inspection Required” IS INDICATED IN TFT LCD**
DESCRIPTION	• Engine oil warning light illuminates. (without TFT LCD) • Message “Engine Oil Pressure Inspection Required” is indicated in TFT LCD. (with TFT LCD)
POSSIBLE CAUSE	• Improper engine oil level • Engine oil leakage • Oil pressure switch connector or terminals malfunction • Short to ground in wiring harness between oil pressure switch terminal A and PCM terminal 1P • Open circuit in wiring harness between oil pressure switch terminal A and PCM terminal 1P • PCM connector or terminals malfunction • Oil pressure switch malfunction • Oil pump malfunction • Instrument cluster malfunction • PCM malfunction



Diagnostic Procedure

STEP	INSPECTION	RESULTS	ACTION
1	**INSPECT ENGINE OIL LEVEL** • Inspect the engine oil level. (See ENGINE OIL LEVEL INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is there any malfunction?	Yes	Engine oil level is below L: • Add genuine motor oil, then go to the next step. Engine oil level is above F: • Replace the engine oil, then go to the next step. (penetration of fuel into engine oil can be considered) (See ENGINE OIL REPLACEMENT [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Go to Step 3.
2	**VERIFY IF ENGINE OIL WARNING LIGHT ILLUMINATES** • Start the engine. • Increase and keep the engine speed at **2,500 rpm** for **5 s**. • Does the engine oil warning light illuminate?	Yes	Go to the next step.
		No	Symptom troubleshooting is completed.

STEP	INSPECTION	RESULTS	ACTION
3	**VERIFY DTC** • Retrieve the PCM and instrument cluster DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
4	**INSPECT OIL PRESSURE SWITCH CONNECTOR CONDITION** • Switch the ignition off. • Disconnect the oil pressure switch connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals.
		No	Go to the next step.
5	**INSPECT OIL PRESSURE SWITCH CONTROL CIRCUIT FOR SHORT TO GROUND** • Verify that the oil pressure switch connector is disconnected. • Inspect for continuity between oil pressure switch terminal A (wiring harness-side) and body ground. • Is there continuity?	Yes	If the short to ground circuit could be detected in the wiring harness: • Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: • Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Go to the next step.
6	**INSPECT PCM CONNECTOR CONDITION** • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals.
		No	Go to the next step.
7	**INSPECT OIL PRESSURE SWITCH SIGNAL CIRCUIT FOR OPEN CIRCUIT** • Verify that the oil pressure switch and PCM connectors are disconnected. • Inspect for continuity between oil pressure switch terminal A (wiring harness-side) and PCM terminal 1P (wiring harness-side). • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit.
8	**INSPECT ENGINE OIL PRESSURE** • Inspect the engine oil pressure. (See OIL PRESSURE INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is there any malfunction?	Yes	Replace the oil pump, then go to the next step. (See OIL PUMP REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Replace the oil pressure switch, then go to the next step. (See ENGINE OIL SOLENOID VALVE REMOVAL/ INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
9	Verify the test results. • If normal, return to the diagnostic index to service any additional symptoms. (See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • If a malfunction remains, inspect the related Service Information and perform the repair or diagnosis. — If the vehicle is repaired, troubleshooting is completed. — If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		