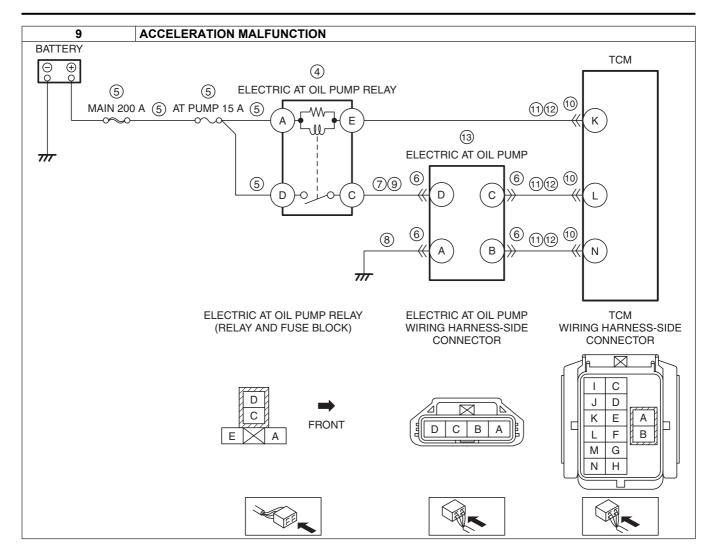
## NO.9 ACCELERATION MALFUNCTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id1103a5001400



**Diagnostic Procedure** 

STEP	INSPECTION	RESULTS	ACTION
1	DETERMINE IF MALFUNCTION CAUSED BY	Yes	Perform the applicable symptom troubleshooting
	ATX BODY		procedure.
	Compare the malfunction symptom with the i-		(See SYMPTOM TROUBLESHOOTING ITEM TABLE
	stop system stop condition.		[FW6A-EL, FW6AX-EL].)
	Is there any shock or slippage during	No	Go to the next step.
	acceleration with the i-stop system disabled?		
2	VERIFY DTC	Yes	Go to the applicable DTC inspection.
	Retrieve the PCM, TCM, DSC HU/CM, SAS		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G
	control module DTCs using the M-MDS.		2.5].)
	(See ON-BOARD DIAGNOSTIC TEST		(See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		[FW6A-EL, FW6AX-EL].)
	(See ON-BOARD DIAGNOSTIC SYSTEM DTC		(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY
	INSPECTION [FW6A-EL, FW6AX-EL].)		CONTROL (DSC)].)
	(See ON-BOARD DIAGNOSIS [DYNAMIC		(See DTC TABLE.)
	STABILITY CONTROL (DSC)].)	No	Go to the next step.
	(See DTC INSPECTION.)		
	Are any DTCs present?		

STEP	INSPECTION	RESULTS	ACTION
3	DETERMINE IF MALFUNCTION CAUSE IS	Yes	Brake fluid pressure sensor (built-into DSC HU/CM) or
	BRAKE FLUID PRESSURE SENSOR SIGNAL		DSC HU/CM brake pressure hold function malfunction.
	OR OTHER		Replace the DSC HU/CM.
	Put the vehicle in an i-stop condition (engine		(See DSC HU/CM REMOVAL/INSTALLATION.)
	stopped).	No	Go to the next step.
	Monitor the PCM PID BFP using the M-MDS		'
	while the brake is depressed and held with the		
	i-stop function operating.		
	(See ON-BOARD DIAGNOSIS [DYNAMIC		
	STABILITY CONTROL (DSC)].)		
	Does the monitoring value change?		
4	INSPECT ELECTRIC AT OIL PUMP RELAY	Yes	Replace the electric AT oil pump relay.
	Switch the ignition off.	No	Go to the next step.
	Remove the electric AT oil pump relay.		
	Inspect the electric AT oil pump relay.		
	(See RELAY INSPECTION.)		
	Is there any malfunction?		
5	INSPECT ELECTRIC AT OIL PUMP RELAY	Yes	Go to the next step.
-	POWER SUPPLY CIRCUIT FOR SHORT TO	No	Inspect the MAIN 200 A fuse and AT PUMP 15 A fuse.
	GROUND OR OPEN CIRCUIT		• If the fuse is blown:
	Electric AT oil pump relay is removed.		Repair or replace the wiring harness for a possible
	Measure the voltage at the following terminals		short to ground.
	(wiring harness-side):		Replace the malfunctioning fuse.
	Electric AT oil pump relay terminal A		If the fuse is deteriorated:
	Electric AT oil pump relay terminal D		Replace the malfunctioning fuse.
	• Is the voltage <b>B+</b> ?		If all fuses are normal:
			Repair or replace the wiring harness for a possible
			open circuit.
6	INSPECT ELECTRIC AT OIL PUMP	Yes	Repair or replace the connector and/or terminals.
	CONNECTOR CONDITION	No	Go to the next step.
	• Disconnect the electric AT oil pump connector.	140	Go to the next step.
	<ul> <li>Inspect for poor connection (such as damaged/</li> </ul>		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
7	INSPECT ELECTRIC AT OIL PUMP POWER	Yes	Repair or replace the wiring harness for a possible short
'	SUPPLY CIRCUIT FOR SHORT TO GROUND	103	to ground.
	Electric AT oil pump relay is removed.	No	Go to the next step.
	Verify that the electric AT oil pump connector is	140	Go to the flext step.
	disconnected.		
	Inspect for continuity between electric AT oil		
	pump relay terminal C (wiring harness-side) and		
	body ground.		
	• Is there continuity?		
8	INSPECT ELECTRIC AT OIL PUMP GROUND	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Electric AT oil pump relay is removed.	110	circuit.
	Verify that the electric AT oil pump connector is		on out.
	disconnected.		
	Inspect for continuity between electric AT oil		
	pump terminal A (wiring harness-side) and body		
	ground.		
	• Is there continuity?		
9	INSPECT ELECTRIC AT OIL PUMP POWER	Yes	Go to the next step.
9	SUPPLY CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Electric AT oil pump relay is removed.	INU	circuit.
	Verify that the electric AT oil pump connector is		onount.
	disconnected.		
	Inspect for continuity between electric AT oil     pump relay terminal C (wiring barness side) and		
	pump relay terminal C (wiring harness-side) and		
	electric AT oil pump terminal D (wiring harness-		
	side).		
	Is there continuity?		

STEP	INSPECTION	RESULTS	ACTION		
10	INSPECT TCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals.		
	Disconnect the TCM connector.	No	Go to the next step.		
	• Inspect for poor connection (such as damaged/				
	pulled-out pins, corrosion).				
	Is there any malfunction?				
11	INSPECT TCM CIRCUIT FOR SHORT TO	Yes	Repair or replace the wiring harness for a possible short		
	GROUND		to ground.		
	Electric AT oil pump relay is removed.	No	Go to the next step.		
	Verify that the electric AT oil pump and TCM				
	connectors are disconnected.				
	Inspect for continuity between the following				
	terminals (wiring harness-side) and body				
	ground:				
	Electric AT oil pump relay terminal E				
	Electric AT oil pump terminal C				
	Electric AT oil pump terminal B				
40	• Is there continuity?		Deliver the electric AT 21 cm		
12	INSPECT TCM CIRCUIT FOR OPEN CIRCUIT	Yes	Replace the electric AT oil pump.		
	• Electric AT oil pump relay is removed.		(See ELECTRIC AT OIL PUMP REMOVAL/		
	Verify that the electric AT oil pump and TCM connectors are disconnected.	No	INSTALLATION [FW6A-EL, FW6AX-EL].)		
	Inspect for continuity between the following	INO	Repair or replace the wiring harness for a possible open circuit.		
	terminals (wiring harness-side):		Circuit.		
	Electric AT oil pump relay terminal E—TCM				
	terminal K				
	Electric AT oil pump terminal C—TCM				
	terminal L				
	Electric AT oil pump terminal B—TCM				
	terminal N				
	Is there continuity?				
13	Verify the test results.				
	• If normal, return to the diagnostic index to service	ce any additi	onal 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.				
	<ul> <li>If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM.</li> <li>(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> </ul>				