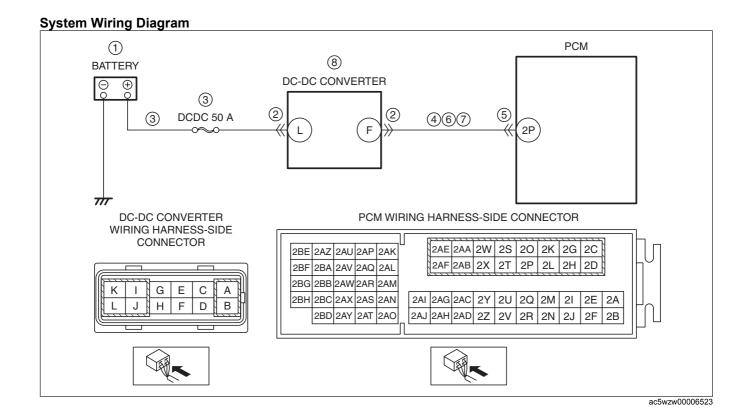
DTC P0A94:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0102h4004400

Details On DTCs

DESCRIPTION	DC-DC converte	er: control circuit signal error			
DETECTION	pressure increase command to the DC-DC converter				
CONDITION	Preconditions	Not applicable			
	Drive cycle	•1			
	Self test type	CMDTC self test			
	Sensor used	Not applicable			
FAIL-SAFE FUNCTION	Inhibits engine-stop by operating the i-stop function.				
VEHICLE STATUS WHEN DTCs ARE OUTPUT	Flashes i-stop warning light (amber).				
POSSIBLE CAUSE	Connector or terminal malfunction of the following parts: PCM Battery DC-DC converter Short to ground in wiring harness between the following terminals: DC-DC converter terminal L—DCDC 50 A fuse DCDC 50 A fuse Battery positive terminal—DCDC 50 A fuse Open circuit in wiring harness between the following terminals: DC-DC converter terminal L—DCDC 50 A fuse DCDC 50 A fuse Battery positive terminal—DCDC 50 A fuse Battery positive terminal—DCDC 50 A fuse Battery malfunction DC-DC converter malfunction Front body control module (FBCM) malfunction				



Function Explanation (DTC Detection Outline)

• The DC-DC converter is equipped with a boost function to stabilize the power supply to the vehicle's electrical devices when the engine is restarted by i-stop. If the DC-DC converter does not operate, the supply voltage to the vehicle's electrical devices decreases. In this diagnostic, the response condition of the DC-DC converter to the boost demand from the PCM, or the boost by the on-board diagnostic function of the DC-DC converter is not detected, and verification of vehicle malfunctions/safety assurance is performed.

Repeatability Verification Procedure

- 1. Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
- Start the engine.
- 3. Stop the engine by operating the i-stop function.

PID Item/Simulation Item Used In Diagnosis

· Not applicable

Function Inspection Using M-MDS

STEP	INSPECTION	RESULTS	ACTION
1	PURPOSE: VERIFY RELATED SERVICE INFORMATION AVAILABILITY	Yes	Perform repair or diagnosis according to the available 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 Yes	Go to the next step.
2	PURPOSE: VERIFY IF BATTERY VOLTAGE IS FALSELY RECOGNIZED BY DTC RELATED CAN OR LIN COMMUNICATION • Perform the PCM and front body control module (FBCM) DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST		Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) • Are DTCs related CAN or LIN communication recorded?	No	Go to the troubleshooting procedure to perform the procedure from Step 1.
3	PURPOSE: VERIFY IF THE CURRENT SENSOR IS MISIDENTIFYING MALFUNCTIONS DUE TO A FBCM MALFUNCTION	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
	 Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY	No	Go to the troubleshooting procedure to perform the procedure from Step 1.

Troubleshooting Diagnostic Procedure Intention of troubleshooting procedure

- Step 1
 - Perform a unit inspection of the battery.
- Step 2—8
 - Verify if a malfunction is occurring due to a malfunction in each signal transmission and the boost demand line.
- Step 9—10
 - Verify that the primary malfunction is resolved and there are no other malfunctions.

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	INSPECT BATTERY	Yes	Recharge or replace the battery, then go to Step 8.
	Switch the ignition off.		(See BATTERY RECHARGING [SKYACTIV-G 2.0,
	Inspect the battery.		SKYACTIV-G 2.5].)
	(See BATTERY INSPECTION [SKYACTIV-G 2.0,		(See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G
	SKYACTIV-G 2.5].)		2.0, SKYACTIV-G 2.5].)
	Is there any malfunction?	No	Go to the next step.

INSPECT DC-DC CONVERTER CONNECTOR CONDITION	STEP	INSPECTION		ACTION
CONDITION 1. Obsconnect the DC-DC converter connector. 1. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). 1. Is there any malfunction? 3. INSPECT DC-DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT 1. Verify that the DC-DC converter terminal I, (writing harmess-side). 1. Is the voltage at the DC-DC converter terminal F (writing harmess-side). 1. Inspect TD-DC-DC CONVERTER SIGNAL CIRCUIT FOR HORT TO GROUND 1. Inspect for continuity between DC-DC converter terminal F (writing harmess-side) and body ground. 1. Inspect for continuity between DC-DC converter terminal F (writing harmess-side) and body ground. 1. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). 1. Inspect TD-DC CONVERTER SIGNAL CIRCUIT FOR HORT TO POWER SUPPLY 1. Verify that the DC-DC converter connector is disconnected to provide the provided of			Yes	=
Switch the Ignition off. Disconnect the DC-DC converter connector. Inspect for poor connection (such as damaged/pulled-out prins, corrosion). Is there any malfunction? SIMSPECT DC-DC CONVERTER POWER disconnected. Measure the voltage at the DC-DC converter terminal L (wiring harness-side). Is the voltage B+? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter connector is disconnected. Inspect for continuity between DC-DC converter terminal E (witing harness-side) and body ground. Is there continuity? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter connector is disconnected. Inspect for continuity between DC-DC converter terminal F (witing harness-side) and body ground. Is there continuity? INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for poor connection (such as damaged/palled-out pins, corrosion). Is there any malfunction? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage at the DC-DC converter terminal F (wiring harness-side). Inspect for poor connection (such as damaged/palled-out pins, corrosion). INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage at the DC-DC converter terminal F (wiring harness-side). Inspect for poor connection (such as damaged/palled-out pins, corrosion). Inspect for poor connection (such as damaged/palled-out pins, corrosion). So to the next step. To the fuse is blown: Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. To the next step. To the fuse is blown: Repair or replace the wiring harness for a possible open circuit, then go to Step 8. To the next step. To the fuse is blown: Repair or replace the wiring harness for a possible open circuit, then			163	
- Disconnect the DC-DC converter connector Inspect for por connection (such as damaged/pulled-out pins, corrosion) Is there any malfunction? 3 INSPECT DC-DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Verify that the DC-DC converter terminal F (wiring harness-side) and body ground Is the voltage B+? 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the DC-DC converter terminal F (wiring harness-side) and body ground Is there continuity? 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the DC-DC converter terminal F (wiring harness-side) and body ground Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION - Disconnect the PCM connector Inspect for poor connection (such as damaged/pulled-out pins, corrosion) - Is there any malfunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Verify that the DC-DC converter and PCM connectors are disconnected Switch the ignition Of (engine off) Measure the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage 8 V? 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Verify that the DC-DC converter and PCM connectors are disconnected Switch the ignition Off (engine off) Measure the voltage at the DC-DC converter terminal F (wiring harness-side) Is the recontinuity between DC-DC converter terminal F (wiring harness-side) Is the recontinuity between DC-DC converter terminal F (wiring harness-side) Is the recontinuity between DC-DC converter terminal F (wiring harness-side) Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. Yes - Go to the next step Yes - Go			Na	
- Inspect for poor connection (such as damaged/ pulled-out prins, corrosion). - Is there any malfunction? 3 INSPECT DC-DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Verify that the DC-DC converter connector is disconnected Measure the voltage at the DC-DC converter terminal L (wring harness-side) Is the voltage B+? 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the DC-DC converter connector is disconnected Inspect for continuity between DC-DC converter terminal F (wring harness-side) and body ground Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION - Disconnect the PCM connector Inspect for poor connection (such as damaged/pulled-out prins, corrosion) Is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out prins, corrosion) Is there any malfunction? - Manager and the pC-DC converter and PCM connectors are disconnected Switch the Ignition ON (engine off) Measure the voltage at the DC-DC converter terminal F (wring harness-side) Inspect for poor connection (such as damaged/pulled-out prins, corrosion) Inspect for poor connection (such as damaged/pulled-out prins, corrosion) Is there any malfunction? - Measure the voltage off) Measure the voltage at the DC-DC converter terminal F (wring harness-side) Inspect for poor connection (such as damaged/pulled-out prins, corrosion) Manager the pC-DC converter and PCM connectors are disconnected Switch the Ignition ON (engine off) Measure the voltage at the DC-DC converter terminal F (wring harness-side) Inspect for poor connection (such as damaged/pulled-out prins, corrosion) Manager the pC-DC converter and PCM connectors are disconnected Switch the Ignition off Measure the voltage at the DC-DC converter and PCM connectors are disconnected Switch the Ignition off Manager the pC-DC converter and PCM connectors are disconnected Switch the Ignition off Manager the pC-DC converter and PCM connectors Switch th			INO	Go to the next step.
pulled-out pins, corrosion). 1 si there any maffunction? 3 INSPECT DC-DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OPEN CIRCUIT 1 Verify that the DC-DC converter comnector is disconnected. 1 Measure the voltage at the DC-DC converter terminal L (wiring harness-side). 2 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND 2 Verify that the DC-DC converter terminal F (wiring harness-side) and body ground. 3 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND 3 INSPECT DC-DC converter connector is disconnected. 4 INSPECT DC-DC converter connector is disconnected. 4 INSPECT DC-DC converter connector is disconnected. 5 INSPECT DC-DC converter connector is disconnected. 6 INSPECT DC-DC converter connector is disconnected. 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUNDITION 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY 6 Verify that the DC-DC converter and PCM connectors are disconnected. 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY 6 Verify that the DC-DC converter and PCM connectors are disconnected. 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY 8 Verify that the DC-DC converter and PCM connectors are disconnected. 8 Switch the ignition Off. 9 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY 1 Verify that the DC-DC converter and PCM connectors are disconnected. 2 Switch the ignition off. 1 Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal ZP (wiring harness-side) and PCM terminal				
- is there any malfunction? 3 INSPECT DC-DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Verify that the DC-DC converter connector is disconnected Measure the voltage at the DC-DC converter terminal L (wiring harness-side) Is the voltage B+? 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the DC-DC converter terminal F (wiring harness-side) and body ground Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION - Disconnect the PCM connector Inspect for poor connection (such as damaged/ pulled-out pins, corrossion) Is there any malfunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Verify that the DC-DC converter terminal F (wiring harness-side) Is there any malfunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Verify that the DC-DC converter and PCM connectors are disconnected Switch the ignition Off (spins) and pCM connectors are disconnected Switch the lignition off (sins) and pCM connectors are disconnected Switch the lignition off (sins) and pCM connectors are disconnected Switch the lignition off (sins) and pCM terminal 2P (wiring harness-side) and PCM terminal 2P (wiring harness-side				
INSPECT DC.DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OPEN CIRCUIT				
SUPPLY CIRCUIT OPEN CIRCUIT Verify that the DC-DC converter connector is disconnected. Measure the voltage at the DC-DC converter terminal L (wiring harness-side). Is the voltage B+? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter connector is disconnected. Inspect for continuity? INSPECT DC-DC CONVERTER SIGNAL (In the finite of the public open circuit. Inspect for continuity? INSPECT DC-DC CONVERTER SIGNAL (In the finite of the public open circuit. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. Is there continuity? INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for DC-DC converter connector is disconnected. INSPECT DC-DC CONVERTER SIGNAL (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. 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. 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. Repair or replace the wiring harness for a possible short to ground circuit. In the short to ground circuit could not be detected in the wiring harness. Repair or replace the wiring harness for a possible short to ground circuit. In the short to ground circuit could not be detected in the wiring harness. Repair or replace the wiring harness for a possible short to ground circuit. In the short to ground circuit could not be detected in the wiring harness. Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. Repair or replace the wiring harness for a possible open circuit. Repair or replace the wiring harness for a possible open circuit, for Open Circuit, then go to Step 8. Repair or replace the wiring harness			.,	
OPEN CIRCUIT - Verify that the DC-DC converter connector is disconnected. - Measure the voltage at the DC-DC converter terminal L (wiring harness-side). - Is the voltage B+? - Is the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage B+? - Is the voltage B+? - If the fuse is blown: - Replace the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage B+? - Is the fuse is normal: - Replace the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage B+? - Is the voltage B+? - If the fuse is blown: - Replace the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage B+? - Is the fuse is normal: - Replace the voltage at the DC-DC converter terminal F (wiring harness-side) Is the fuse is normal: - Replace the voltage B+? - Replace the CM (short to ground. if the wiring harness for a possible open circuit, then go to Step B. - If the fuse is blown: - If the fuse is normal: -	3			
Verify that the DC-DC converter disconnected. Measure the voltage at the DC-DC converter terminal L (wiring harness-side). Is the voltage B+? 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter connector is disconnected. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage at the DC-DC converter terminal F (wiring harness-side). Is there ontinuity between DC-DC converter terminal F (wiring harness-side). Is the read of the pCM connector. Switch the ignition ON (engine off). Neasure the voltage at the DC-DC converter terminal F (wiring harness-side). Inspect for CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Neasure the voltage at the DC-DC converter terminal F (wiring harness-side) and PCM terminal PCM (wiring harness-side). No Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition off (engine parts) (en			No	
disconnected. • Measure the voltage at the DC-DC converter terminal L (wiring harness-side). • Is the voltage B+? 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the DC-DC converter terminal F (wiring harness-side) and body ground. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. • Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Measure the voltage at the DC-DC converter terminal F (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage to the voltage that the voltage that the voltage than the voltage than the vol				
Measure the voltage at the DC-DC converter terminal L (wiring harness-side). Is the voltage B+? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter terminal F (wiring harness-side) and body ground. Is there continuity between DC-DC converter terminal F (wiring harness-side) and body ground. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. Is there continuity? INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector: Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage at the DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). Is the voltage to the fuse. If the fuse is deteriorated: Replaice the PCM (so of spound circuit could not be detected in the wiring harness: Replaic or replace the wiring harness: Replaic or replace the wiring harness in the both of the power supply and the pcm of the p				
terminal L (wiring harness-side). Is the voltage B+? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter connector is disconnected. Inspect for continuity between DC-DC converter terminal F (wiring harness-side). INSPECT PCM CONNECTOR CONDITION Inspect for poor connection (such as damaged pulled-out pins, corrosion). Is there any malifunction? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage B+? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the DC-DC converter terminal F (wiring harness-side) and PCM connectors are disconnected. Switch the ignition off. Inspect for DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal PCM				
- Replace the fuse If the fuse is normal: - Repair or replace the wiring harness for a possible open circuit Go to Step 8. 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the DC-DC converter connector is disconnected Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION - Disconnect the PCM connector Inspect for poor connection (such as damaged/pulled-out pins, corrosion) Is there any maffunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Verify that the DC-DC converter terminal F (wiring harness-side) Is the voltage at the DC-DC converter terminal F (wiring harness-side) Is the voltage of Y? 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT - Verify that the DC-DC converter and PCM connectors are disconnected Switch the ignition off Inspect for continuity between DC-DC converter terminal F (wiring harness-side) Is the recontinuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED - Always reconnect all disconnected connectors Clear the DTC from the PCM memory using the				
* If the fuse is normal: - Repair or replace the wiring harness for a possible open circuit. Go to Step 8. 4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the DC-DC converter connector is disconnected. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. • Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction? 6 INSPECT PCM CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the DC-DC converter terminal F (wiring harness-side). • Is the voltage 0 V? 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter terminal F (wiring harness-side). • Is the voltage 0 V? 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side). • Is there continuity between DC-DC converter terminal F (wiring harness-side). • Is the full disconnected connectors. • Clear the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity b				
## CIRCUIT FOR SHORT TO GROUND • Verify that the DC-DC converter connector is disconnected. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. • Is there continuity: INSPECT PCM CONNECTOR CONDITION Expect for point for side of the public of		• Is the voltage B+ ?		
4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the DC-DC converter terminal F (wiring harness-side) and body ground. • Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 6 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR DPGN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Is the continuity Powers and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). • Switch the ignition ON (engine off). • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal P (wiring harness-side). • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal P (wiring harness-side). 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the				
4 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the DC-DC converter connector is disconnected. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. • Is there continuity? INSPECT PCM CONNECTOR CONDITION • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). • Is the voltage at the DC-DC converter terminal F (wiring harness-side). • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). Verify That the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). Verify That the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). Verify That the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side). Verify Tot TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the				
INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the DC-DC converter connector is disconnected. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. Is there continuity? Separation or place the wiring harness or a possible short to ground circuit could not be detected in the wiring harness. Repaia or replace the wiring harness or a possible short to ground. If the short to ground circuit could not be detected in the wiring harness. Repaia or replace the Wiring harness or a possible short to ground. If the short to ground circuit could not be detected in the wiring harness. Repaia or replace the wiring harness. Repaia or replace the wiring harness. Repaia or replace the world in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to the next step. Repair or replace the connector and/or terminals, then go to Step 8. No Step 8. No Step 8. Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. No				open circuit.
CIRCUIT FOR SHORT TO GROUND • Verify that the DC-DC converter connector is disconnected. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and body ground. • Inspect for continuity? INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? INSPECT PC OCONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the DC-DC converter terminal F (wiring harness-side). • Inspect of ro continuity between DC-DC converter terminal F (wiring harness-side). • Is the voltage 0 V? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Westure the voltage at the DC-DC converter terminal F (wiring harness-side). • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harne				
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terminal F (wiring harness-side) and body ground. Is there continuity? State		 Inspect for continuity between DC-DC converter 		
* Replace the PCM (short to ground in the PCM internal circuit). * Replace the PCM (short to ground in the PCM internal circuit). * SKYACTIV-G 2.5].				
circuit). See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to Step 8. No Go to the next step. Sepair or replace the connector and/or terminals, then go to Step 8. No Go to the next step. Sepair or replace the connector and/or terminals, then go to Step 8. No Go to the next step. Sepair or replace the connector and/or terminals, then go to Step 8. No Go to the next step. Sepair or replace the wiring harness for a possible short to power supply, then go to Step 8. No Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. No Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. No Repair or replace the wiring harness for a possible short to power supply, then go to Step 8. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. No Cot to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Yes Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Yes Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Yes Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Yes Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Yes Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Yes Repair or replace the wiring harness for a possible open circuit, then go to Step 8.				
SKYACTIV-G 2.5].) Go to Step 8. 5 INSPECT PCM CONNECTOR CONDITION		·		_ · · · · · · · · · · · · · · · · · · ·
SKYACTIV-G 2.5].) Go to Step 8. 5 INSPECT PCM CONNECTOR CONDITION				(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
Go to Step 8. No Go to the next step. 1 INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition ON (engine off). Measure the voltage at the DC-DC converter terminal F (wiring harness-side). Is the voltage 0 V? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). Step 8. No Go to the next step. Yes Go to the next step. No Repair or replace the connector and/or terminals, then go to step 8. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8.				
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Solution			No	
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CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Measure the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage 0 V? 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the				
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connectors are disconnected. • Switch the ignition ON (engine off). • Measure the voltage at the DC-DC converter terminal F (wiring harness-side). • Is the voltage 0 V? 7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT (Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the		CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
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 Is the voltage 0 V? INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the Yes Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Repair or replace the wiring harness for a possible open circuit, then go to Step 8. 		 Measure the voltage at the DC-DC converter 		
7 INSPECT DC-DC CONVERTER SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the Yes Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to Step 8. Replace the DC-DC converter, and then perform Step 8 again. (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		terminal F (wiring harness-side).		
CIRCUIT FOR OPEN CIRCUIT • Verify that the DC-DC converter and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the		Is the voltage 0 V?		
 Verify that the DC-DC converter and PCM connectors are disconnected. Switch the ignition off. Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). Is there continuity? VERIFY DTC TROUBLESHOOTING COMPLETED Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the circuit, then go to Step 8. circuit, then go to Step 8. 	7	INSPECT DC-DC CONVERTER SIGNAL	Yes	
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connectors are disconnected. • Switch the ignition off. • Inspect for continuity between DC-DC converter terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the		Verify that the DC-DC converter and PCM		
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terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the terminal F (wiring harness-side) and PCM terminal 2P (wiring harness-side). Yes Replace the DC-DC converter, and then perform Step 8 again. (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		Inspect for continuity between DC-DC converter		
2P (wiring harness-side). • Is there continuity? 8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the 2P (wiring harness-side). Yes Replace the DC-DC converter, and then perform Step 8 again. (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		terminal F (wiring harness-side) and PCM terminal		
VERIFY DTC TROUBLESHOOTING COMPLETED Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the Is there continuity? Yes again. (See DC-DC converter, and then perform Step 8 again. (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		2P (wiring harness-side).		
8 VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the Yes again. (See DC-DC converter, and then perform Step 8 again. (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		Is there continuity?		
 Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) 	8		Yes	Replace the DC-DC converter, and then perform Step 8
 Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the (See DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) 		COMPLETED		again.
				(See DC-DC CONVERTER REMOVAL/INSTALLATION
M-MDS. • If the malfunction recurs, replace the PCM.		Clear the DTC from the PCM memory using the		[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		M-MDS.		If the malfunction recurs, replace the PCM.
(See AFTER REPAIR PROCEDURE (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,		(See AFTER REPAIR PROCEDURE		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
[SKYACTIV-G 2.0, SKYACTIV-G 2.5].) SKYACTIV-G 2.5].)				
Perform the KOER self test. Go to the next step.				Go to the next step.
(See KOEO/KOER SELF TEST [SKYACTIV-G No Go to the next step.		(See KOEO/KOER SELF TEST [SKYACTIV-G	No	Go to the next step.
2.0, SKYACTIV-G 2.5].)				
• Is the same DTC present?		• Is the same DTC present?		

STEP	INSPECTION		ACTION
9	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		·
	Are any DTCs present?		