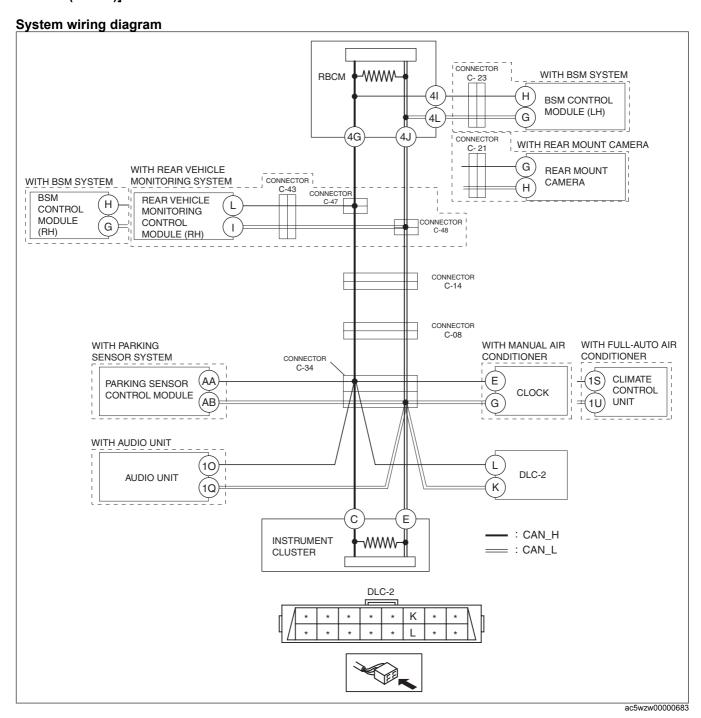
Caution

 Perform the following malfunction diagnosis only when it is diagnosed with a short to ground by CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (R.H.D.)].



Determination procedure

Caution

- When disconnecting the connector, verify that there is no looseness, damage, deformation, corrosion, or poor connection of the connector terminals.
- When inspecting the DLC-2, touch it with a paper clip or similar thin pin without directly inserting
 a tester into the terminals.

Step	Inspection		Action
1	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
-	BETWEEN CONNECTOR C-08 AND	No	Go to Step 11.
	INSTRUMENT CLUSTER		
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Disconnect connector C-08.		
	Inspect for continuity at the following terminals:		
	Between DLC-2 terminal L and body		
	ground		
	Between DLC-2 terminal K and body		
	ground		
	• Is there continuity?	\/	Danais an analasa tha wiking bannasa batwa an anasatan
2	INSPECT FOR SHORT TO GROUND	Yes	Repair or replace the wiring harness between connector
	BETWEEN CONNECTORS C-34 AND DLC-2		C-34 and DLC-2 because the wiring harness is shorted to
	Disconnect connector C-34. Induct for continuity at the following terminals:	No	ground. Go to the next step.
	Inspect for continuity at the following terminals: Between DLC-2 terminal L and body	No	Go to the next step.
	ground		
	Between DLC-2 terminal K and body		
	ground		
	• Is there continuity?		
3	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
	BETWEEN CONNECTOR C-34 AND PARKING	No	Go to Step 5.
	SENSOR CONTROL MODULE		
	Inspect for continuity at the following terminals:		
	Between parking sensor control module		
	terminal AA and body ground		
	Between parking sensor control module		
	terminal AB and body ground		
	• Is there continuity?		
4	INSPECT CAN LINE IN PARKING SENSOR	Yes	Repair or replace the wiring harness between the parking
	CONTROL MODULE FOR SHORT TO GROUND		sensor control module and connector C-34 because the wiring harness is shorted to ground.
	Disconnect the parking sensor connector.	No	Replace the parking sensor control module because there
	• Inspect for continuity at the following terminals:	110	is a short to ground in the parking sensor control module.
	Between parking sensor control module		(See PARKING SENSOR CONTROL MODULE
	terminal AA (wiring harness side) and body		REMOVAL/INSTALLATION.)
	ground		
	Between parking sensor control module		
	terminal AB (wiring harness side) and body		
	ground		
	Is there continuity?		
5	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
	BETWEEN CONNECTOR C-34 AND CLIMATE	No	Go to Step 7.
	CONTROL UNIT		
	• Inspect for continuity at the following terminals:		
	Between climate control unit terminal 1S and body ground (with full auto air)		
	and body ground (with full-auto air conditioner)		
	Between climate control unit terminal 1U		
	and body ground (with full-auto air		
	conditioner)		
	Between clock terminal E and body ground		
	(with manual air conditioner)		
	Between clock terminal G and body ground		
	(with manual air conditioner)		
	• Is there continuity?		
	·		

STAN	Inspection		Action
Step 6	INSPECT CAN LINE IN CLIMATE CONTROL	Yes	Repair or replace the wiring harness between the climate
U	UNIT OR CLOCK FOR SHORT TO GROUND	103	control unit or clock and connector C-34 because the wiring
	Disconnect the climate control unit connector or		harness is shorted to ground.
		NIa	
	clock connector.	No	Replace the climate control unit or the clock because there
	Inspect for continuity at the following terminals:		is a short to ground inside the climate control unit or the
	Between climate control unit terminal 1S		clock.
	(wiring harness side) and body ground (with		(See CLIMATE CONTROL UNIT REMOVAL/
	full-auto air conditioner)		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	 Between climate control unit terminal 1U 		(See CLOCK REMOVAL/INSTALLATION.)
	(wiring harness side) and body ground (with		
	full-auto air conditioner)		
	 Between clock terminal E (wiring harness 		
	side) and body ground (with manual air		
	conditioner)		
	 Between clock terminal G (wiring harness 		
	side) and body ground (with manual air		
	conditioner)		
	Is there continuity?		
7		Vaa	Co to the mout stem
1	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
	BETWEEN CONNECTOR C-34 AND AUDIO	No	Go to Step 9.
	UNIT		
	• Inspect for continuity at the following terminals:		
	 Between audio unit terminal 10 and body 		
	ground		
	 Between audio unit terminal 1Q and body 		
	ground		
	Is there continuity?		
8	INSPECT CAN LINE IN AUDIO UNIT FOR	Yes	Repair or replace the wiring harness between the audio
-	SHORT TO GROUND		unit and connector C-34 because the wiring harness is
	Disconnect the audio unit connector.		shorted to ground.
	 Inspect for continuity at the following terminals: 	No	Replace the audio unit because there is a short to ground
	Between audio unit terminal 10 (wiring)	110	in the audio unit.
	harness side) and body ground		
			(See AUDIO UNIT REMOVAL/INSTALLATION.)
	Between audio unit terminal 1Q (wiring		
	harness side) and body ground		
	• Is there continuity?		
9	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
	BETWEEN CONNECTOR C-34 AND	No	Repair or replace the wiring harness between connectors
	INSTRUMENT CLUSTER		C-08 and C-34 because the wiring harness is shorted to
	• Inspect for continuity at the following terminals:		ground.
	Between instrument cluster terminal C and		
	body ground		
	 Between instrument cluster terminal E and 		
	body ground		
	Is there continuity?		
10	INSPECT CAN LINE IN INSTRUMENT	Yes	Repair or replace the wiring harness between the
10			instrument cluster and connector C-34 because the wiring
-			
-	CLUSTER FOR SHORT TO GROUND		_
-	CLUSTER FOR SHORT TO GROUND • Disconnect the instrument cluster connector.	No	harness is shorted to ground.
-	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: 	No	harness is shorted to ground. Replace the instrument cluster because there is a short to
-	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C 	No	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster.
-	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground 	No	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/
	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E 	No	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster.
	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground 	No	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/
	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? 		harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)
11	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND	No	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08		harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND		harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08		harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08 Disconnect connector C-14.	Yes	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to ground.
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08 Disconnect connector C-14. Connect connector C-08.	Yes	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to ground.
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08 Disconnect connector C-14. Connect connector C-08. Inspect for continuity at the following terminals: Between DLC-2 terminal L and body	Yes	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to ground.
	 CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08 Disconnect connector C-14. Connect connector C-08. Inspect for continuity at the following terminals:	Yes	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to ground.
	CLUSTER FOR SHORT TO GROUND Disconnect the instrument cluster connector. Inspect for continuity at the following terminals: Between instrument cluster terminal C (wiring harness side) and body ground Between instrument cluster terminal E (wiring harness side) and body ground Is there continuity? INSPECT FOR SHORT TO GROUND BETWEEN CONNECTORS C-14 AND C-08 Disconnect connector C-14. Connect connector C-08. Inspect for continuity at the following terminals: Between DLC-2 terminal L and body	Yes	harness is shorted to ground. Replace the instrument cluster because there is a short to ground in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted to ground.

Step	Inspection		Action
12	INSPECT FOR SHORT TO GROUND	Yes	Repair or replace the wiring harness between connectors
	BETWEEN CONNECTOR C-14 AND		C-47 and C-48 and connector C-14 because the wiring
	CONNECTORS C-47 AND C-48		harness is shorted to ground.
	 Disconnect connectors C-47 and C-48. 	No	Go to the next step.
	Connect connector C-14.		
	Inspect for continuity at the following terminals:		
	 Between DLC-2 terminal L and body 		
	ground		
	 Between DLC-2 terminal K and body 		
	ground		
	Is there continuity?		
13	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step. (With rear vehicle monitoring system)
	BETWEEN REAR VEHICLE MONITORING		Go to Step 15. (With BSM system)
	CONTROL MODULE (RH) OR BSM CONTROL	No	Go to Step 16.
	MODULE (RH) AND CONNECTORS C-47 AND		
	C-48		
	Inspect for continuity at the following terminals:		
	Between rear vehicle monitoring control		
	module (RH) terminal L and body ground		
	(with rear vehicle monitoring system)		
	Between rear vehicle monitoring control		
	module (RH) terminal I and body ground		
	(with rear vehicle monitoring system) — Between BSM control module (RH)		
	terminal H and body ground (with BSM		
	system)		
	Between BSM control module (RH)		
	terminal G and body ground (with BSM		
	system)		
	Is there continuity?		
14	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
	BETWEEN REAR VEHICLE MONITORING	No	Repair or replace the wiring harness between connector
	CONTROL MODULE (RH) AND CONNECTOR		C-43 and connectors C-47 and C-48 because the wiring
	C-43		harness is shorted to ground.
	Disconnect connector C-43.		
	Inspect for continuity at the following terminals:		
	 Between rear vehicle monitoring control 		
	module (RH) terminal L and body ground		
	 Between rear vehicle monitoring control 		
	module (RH) terminal I and body ground		
	Is there continuity?		

Step	Inspection		Action
15	INSPECT CAN LINE IN REAR VEHICLE	Yes	Repair or replace the wiring harness between the rear
.0	MONITORING CONTROL MODULE (RH) OR	. 55	vehicle monitoring control module (RH) and connector
	BSM CONTROL MODULE (RH) FOR SHORT		C-43 because the wiring harness is shorted to ground.
	TO GROUND		(With rear vehicle monitoring system)
	Disconnect the rear vehicle monitoring control		Repair or replace the wiring harness between the BSM
	module (RH) connector or BSM control module		control module (RH) and connectors C-47 and C-48
	(RH) connector.		because the wiring harness is shorted to ground. (With
	• Inspect for continuity at the following terminals:	N. 1.	BSM system)
	Between rear vehicle monitoring control	No	Replace the rear vehicle monitoring control module (RH)
	module (RH) terminal L (wiring harness		or the BSM control module (RH) because there is a short
	side) and body ground (with rear vehicle		to ground in the rear vehicle monitoring control module
	monitoring system)		(RH) or the BSM control module (RH).
	Between rear vehicle monitoring control		(See REAR VEHICLE MONITORING CONTROL
	module (RH) terminal I (wiring harness		MODULE REMOVAL/INSTALLATION.)
	side) and body ground (with rear vehicle		(See BLIND SPOT MONITORING (BSM) CONTROL
	monitoring system)		MODULE REMOVAL/INSTALLATION.)
	Between BSM control module (RH)		
	terminal H (wiring harness side) and body		
	ground (with BSM system)		
	Between rear vehicle monitoring control		
	module (RH) terminal G (wiring harness		
	side) and body ground (with rear vehicle		
	monitoring system)		
	Is there continuity?		
16	INSPECT FOR SHORT TO GROUND	Yes	Go to the next step.
	BETWEEN REAR BODY CONTROL MODULE	No	Go to Step 19.
	(RBCM) AND BSM CONTROL MODULE (LH)		
	OR REAR MOUNT CAMERA		
	Disconnect the rear body control module		
	(RBCM) connector.		
	Inspect for continuity at the following terminals:		
	Between BSM control module (LH) terminal		
	H and body ground (with BSM system)		
	Between BSM control module (LH) terminal		
	G and body ground (with BSM system)		
	Between rear mount camera terminal G		
	and body ground (with rear mount camera)		
	Between rear mount camera terminal H and		
	body ground (with rear mount camera)		
	Is there continuity?		
17	INSPECT FOR SHORT TO GROUND	Yes	Repair or replace the wiring harness between the rear body
	BETWEEN REAR BODY CONTROL MODULE		control module (RBCM) and connector C-23 or C-21
	(RBCM) AND CONNECTOR C-23 OR C-21		because the wiring harness is shorted to ground.
	Disconnect connector C-23 or C-21.	No	Go to the next step.
	Inspect for continuity at the following terminals:		
	Between rear body control module (RBCM)		
	terminal 4I (wiring harness side) and body		
	ground		
	Between rear body control module (RBCM)		
	terminal 4L (wiring harness side) and body		
	ground		
	Is there continuity?		
L	is there continuity:		

Step	Inspection		Action
18	INSPECT CAN LINE IN BSM CONTROL MODULE (LH) OR REAR MOUNT CAMERA FOR SHORT TO GROUND • Disconnect the BSM control module (LH) connector or the rear mount camera connector. • Inspect for continuity at the following terminals: — Between BSM control module (LH) terminal H (wiring harness side) and body ground (with BSM system) — Between BSM control module (LH) terminal G (wiring harness side) and body ground (with BSM system) — Between rear mount camera terminal G (wiring harness side) and body ground (with rear mount camera) — Between rear mount camera terminal H (wiring harness side) and body ground (with rear mount camera)	Yes	Repair or replace the wiring harness between BSM control module (LH) and connector C-23 because the wiring harness is shorted to ground. (With BSM system) Repair or replace the wiring harness between the rear mount camera and connector C-21 because the wiring harness is shorted to ground. (With rear mount camera) Replace the BSM control module (LH) or the rear mount camera because there is a short to ground in the BSM control module (LH) or the rear mount camera. (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/INSTALLATION.)
19	INSPECT CAN LINE INSIDE REAR BODY CONTROL MODULE (RBCM) FOR SHORT TO GROUND • Disconnect the rear body control module (RBCM) connector. • Inspect for continuity at the following terminals: — Between rear body control module (RBCM) terminal 4G (wiring harness side) and body ground — Between rear body control module (RBCM) terminal 4J (wiring harness side) and body ground • Is there continuity?	Yes	Repair or replace the wiring harness between the rear body control module (RBCM) and connectors C-47 and C-48 because the wiring harness is shorted to ground. Replace the rear body control module (RBCM) because there is a short to ground in the rear body control module (RBCM). (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.)