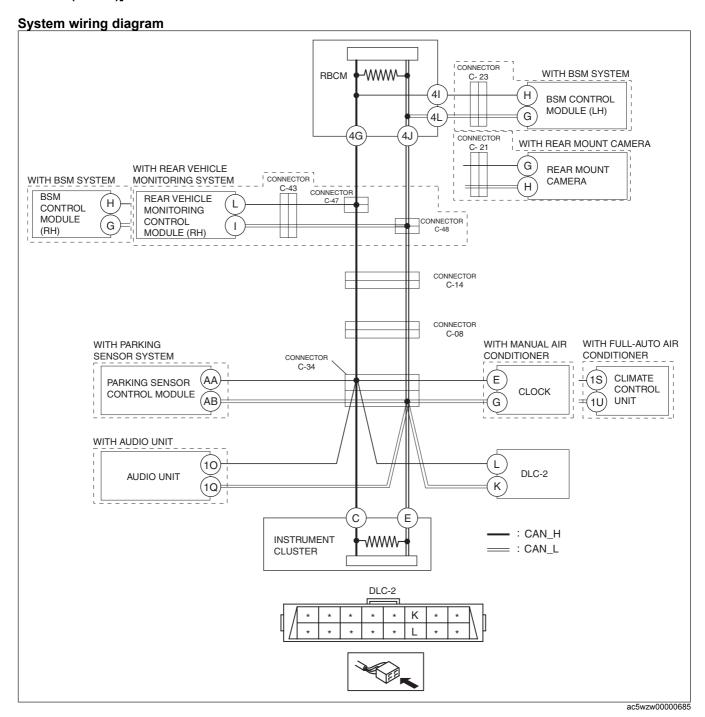
Caution

 Perform the following malfunction diagnosis only when it is diagnosed with a short between circuits 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 BETWEEN CONNECTOR C-08 AND	Yes	Go to the next step.
	INSTRUMENT CLUSTER FOR SHORT	No	Go to Step 11.
	BETWEEN CIRCUITS		
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Disconnect connector C-08.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals L and		
	K.		
	• Is the voltage at DLC-2 terminals L and K the		
	same?		
2	INSPECT BETWEEN CONNECTOR C-34 AND	Yes	Repair or replace the wiring harness between connector
	DLC-2 FOR SHORT BETWEEN CIRCUITS		C-34 and DLC-2 because the wiring harness is shorted
	Switch the ignition off (LOCK). Disconnect the pagetive better/ cable.	NJ-	between circuits.
	• Disconnect the negative battery cable.	No	Go to the next step.
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)		
	• Disconnect connector C-34.		
	Inspect for continuity between DLC-2 terminals		
	L and K.		
	Is there continuity?		
3	INSPECT BETWEEN CONNECTOR C-34 AND	Yes	Go to the next step.
	PARKING SENSOR CONTROL MODULE FOR	No	Go to Step 5.
	SHORT BETWEEN CIRCUITS		So to stop o.
	Inspect for continuity between parking sensor		
	control module terminals AA and AB.		
	Is there continuity?		
4	INSPECT PARKING SENSOR CONTROL	Yes	Repair or replace the wiring harness between the parking
	MODULE FOR SHORT BETWEEN CIRCUITS		sensor control module and connector C-34 because the
	Disconnect the parking sensor control module		wiring harness is shorted between circuits.
	connector.	No	Replace the parking sensor control module because there
	Inspect for continuity between parking sensor		is a short between circuits in the parking sensor control
	control module terminals AA and AB (wiring		module.
	harness side).		(See PARKING SENSOR CONTROL MODULE
	Is there continuity?		REMOVAL/INSTALLATION.)
5	INSPECT BETWEEN CONNECTOR C-34 AND	Yes	Go to the next step.
	CLIMATE CONTROL UNIT OR CLOCK FOR	No	Go to Step 7.
	SHORT BETWEEN CIRCUITS		
	Inspect for continuity between climate control		
	unit terminals 1S and 1U. (with full-auto air		
	conditioner)		
	• Inspect for continuity between clock terminals E		
	and G. (with manual air conditioner) • Is there continuity?		
6	INSPECT CLIMATE CONTROL UNIT OR	Yes	Repair or replace the wiring harness between the climate
	CLOCK FOR SHORT BETWEEN CIRCUITS	162	control unit or clock and connector C-34 because the wiring
	Disconnect the climate control unit connector or		harness is shorted between circuits.
	the clock connector.	No	Replace the climate control unit or the clock because there
	Inspect for continuity between climate control	110	is a short between circuits inside the climate control unit or
	unit terminals 1S and 1U (wiring harness side).		the clock.
	(with full-auto air conditioner)		(See CLIMATE CONTROL UNIT REMOVAL/
	Inspect for continuity between clock terminals E		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	and G (wiring harness side). (with manual air		(See CLOCK REMOVAL/INSTALLATION.)
	conditioner)		(555 525 61 NEW OF NEW OFFICE (11014.)
	Is there continuity?		
	is also commany.		

Step	Inspection		Action
7	INSPECT BETWEEN CONNECTOR C-34 AND	Yes	Go to the next step.
	AUDIO UNIT FOR SHORT BETWEEN CIRCUITS Inspect for continuity between audio unit terminals 10 and 1Q. Is there continuity?	No	Go to Step 9.
8	INSPECT AUDIO UNIT FOR SHORT BETWEEN CIRCUITS • Disconnect the audio unit connector.	Yes	Repair or replace the wiring harness between the audio unit and connector C-34 because the wiring harness is shorted between circuits.
	 Inspect for continuity between audio unit terminals 10 and 1Q (wiring harness side). Is there continuity? 	INO	Replace the audio unit because there is a short between circuits in the audio unit. (See AUDIO UNIT REMOVAL/INSTALLATION.)
9	INSPECT BETWEEN CONNECTOR C-34 AND	Yes	Go to the next step.
	INSTRUMENT CLUSTER FOR SHORT BETWEEN CIRCUITS Inspect for continuity between instrument cluster terminals C and E. Is there continuity?	No	Repair or replace the wiring harness between connectors C-34 and C-08 because the wiring harness is shorted between circuits.
10	INSPECT INSTRUMENT CLUSTER FOR SHORT BETWEEN CIRCUITS • Disconnect the instrument cluster connector.	Yes	Repair or replace the wiring harness between the instrument cluster and connector C-34 because the wiring harness is shorted between circuits.
	 Inspect for continuity between instrument cluster terminals C and E (wiring harness side). Is there continuity? 	No	Replace the instrument cluster because there is a short between circuits in the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
11	INSPECT BETWEEN CONNECTORS C-14 AND C-08 FOR SHORT BETWEEN CIRCUITS • Switch the ignition off (LOCK).	Yes	Repair or replace the wiring harness between connectors C-14 and C-08 because the wiring harness is shorted between circuits.
12	Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect connector C-14. Connect connector C-08. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Switch the ignition ON (engine off). Measure the voltage at DLC-2 terminals L and K. Is the voltage at DLC-2 terminals L and K the same? INSPECT BETWEEN CONNECTORS C-47	Yes	Repair or replace the wiring harness between connectors
12	AND C-48 AND CONNECTOR C-14 FOR SHORT BETWEEN CIRCUITS		C-47 and C-48 and connector C-14 because the wiring harness is shorted between circuits.
	 Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect connectors C-47 and C-48. Connect connector C-14. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Switch the ignition ON (engine off). Measure the voltage at DLC-2 terminals L and K. Is the voltage at DLC-2 terminals L and K the 	No	Go to the next step.

Step	Inspection		Action
13	INSPECT BETWEEN REAR VEHICLE	Yes	Go to the next step. (With rear vehicle monitoring system)
10	MONITORING CONTROL MODULE (RH) OR		Go to Step 15. (With BSM system)
	BSM CONTROL MODULE (RH) AND	No	Go to Step 16.
	CONNECTORS C-47 AND C-48 FOR SHORT		· ·
	BETWEEN CIRCUITS		
	Switch the ignition off (LOCK).		
	Inspect for continuity between rear vehicle		
	control module (RH) terminals L and I. (With		
	rear vehicle monitoring system)		
	Inspect for continuity between BSM control		
	module (RH) terminals H and G. (With BSM		
	system)		
	Is there continuity?		
14	INSPECT BETWEEN REAR VEHICLE	Yes	Go to the next step.
	MONITORING CONTROL MODULE (RH) AND	No	Repair or replace the wiring harness between connector
	CONNECTOR C-43 FOR SHORT BETWEEN		C-43 and connectors C-47 and C-48 because the wiring
	CIRCUITS		harness is shorted between circuits.
	Disconnect connector C-43.		
	Inspect for continuity between rear vehicle		
	control module (RH) terminals L and I.		
	Is there continuity?		
15	INSPECT BETWEEN REAR VEHICLE	Yes	Repair or replace the wiring harness between the rear
	MONITORING CONTROL MODULE (RH) OR		vehicle monitoring control module (RH) and connector
	BSM CONTROL MODULE (RH) FOR SHORT		C-43 because the wiring harness is shorted between
	BETWEEN CIRCUITS		circuits. (With rear vehicle monitoring system)
	Disconnect the rear vehicle monitoring control		• Repair or replace the wiring harness between the BSM
	modules (RH) connector or the BSM control		control module (RH) and connectors C-47 and C-48
	module (RH) connector.		because the wiring harness is shorted between circuits.
	Inspect for continuity between rear vehicle control module (RH) terminals L and I (wiring		(With BSM system)
		No	Replace the rear vehicle monitoring control module (RH)
	harness side). (With rear vehicle monitoring		or the BSM control module (RH) because there is a short
	system) • Inspect for continuity between BSM control		between circuits in the rear vehicle monitoring control
	module (RH) terminals H and G (wiring harness		module (RH) or the BSM control module (RH). (See REAR VEHICLE MONITORING CONTROL
	side). (With BSM system)		MODULE REMOVAL/INSTALLATION.)
	• Is there continuity?		(See BLIND SPOT MONITORING (BSM) CONTROL
	is there continuity:		MODULE REMOVAL/INSTALLATION.)
16	INSPECT BETWEEN BSM CONTROL	Yes	Go to the next step.
10	MODULE (LH) OR REAR MOUNT CAMERA	No	Go to Step 19.
	AND REAR BODY CONTROL MODULE	110	G0 t0 Gtcp 19.
	(RBCM) FOR SHORT BETWEEN CIRCUITS		
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Disconnect the rear body control module		
	(RBCM) connector.		
	Inspect for continuity between BSM control		
	module (LH) terminals H and G (wiring harness		
	side). (With BSM system)		
	Inspect the continuity between rear mount		
	camera terminals G and H (wiring harness		
	side). (With rear mount camera)		
	Is there continuity?		
	•		,

Step	Inspection		Action
17	INSPECT BETWEEN REAR BODY CONTROL	Yes	Repair or replace the wiring harness between the rear body
	MODULE (RBCM) AND CONNECTOR C-23 OR		control module (RBCM) and connector C-23 or C-21
	C-21 FOR SHORT BETWEEN CIRCUITS		because the wiring harness is shorted between circuits.
	Disconnect connector C-23 or C-21.	No	Go to the next step.
	Inspect for continuity between BSM control		'
	module (LH) terminals H and G (wiring harness		
	side). (With BSM system)		
	Inspect the continuity between rear mount		
	camera terminals G and H (wiring harness		
	side). (With rear mount camera)		
	Is there continuity?		
18	INSPECT BSM CONTROL MODULE (LH) OR	Yes	Repair or replace the wiring harness between BSM
	REAR MOUNT CAMERA FOR SHORT		control module (LH) and rear body control module
	BETWEEN CIRCUITS		(RBCM) because the wiring harness is shorted between
	Disconnect the BSM control module (LH)		circuits. (With BSM system)
	connector or the rear mount camera connector.		Repair or replace the wiring harness between the rear
	Connect the rear body control module (RBCM)		mount camera and rear body control module (RBCM)
	connector.		because the wiring harness is shorted between circuits.
	Connect connectors C-47 and C-48		(With rear mount camera)
	Connect the negative battery cable.	No	Replace the BSM control module (LH) or the rear mount
	(See NEGATIVE BATTERY CABLE		camera because there is a short between circuits in the
	DISCONNECTION/CONNECTION		BSM control module (LH) or the rear mount camera.
	[SKYACTIV-D 2.2].)		(See BLIND SPOT MONITORING (BSM) CONTROL
	• Switch the ignition ON (engine off).		MODULE REMOVAL/INSTALLATION.)
	Measure the voltage at DLC-2 terminals L and		(See REAR MOUNT CAMERA REMOVAL/
	K.		INSTALLATION.)
	• Is the voltage at DLC-2 terminals L and K the same?		
19	INSPECT REAR BODY CONTROL MODULE	Yes	Repair or replace the wiring harness between the rear body
19	(RBCM) FOR SHORT BETWEEN CIRCUITS	163	control module (RBCM) and connectors C-47 and C-48
	• Switch the ignition off (LOCK).		because the wiring harness is shorted between circuits.
	Disconnect the negative battery cable.	No	Replace the rear body control module (RBCM) because
	(See NEGATIVE BATTERY CABLE		there is a short between circuits in the rear body control
	DISCONNECTION/CONNECTION		module (RBCM).
	[SKYACTIV-D 2.2].)		(See REAR BODY CONTROL MODULE (RBCM)
	Connect connectors C-47 and C-48		REMOVAL/INSTALLATION.)
	Connect the negative battery cable.		,
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals L and		
	K.		
	Is the voltage at DLC-2 terminals L and K the		
	same?		