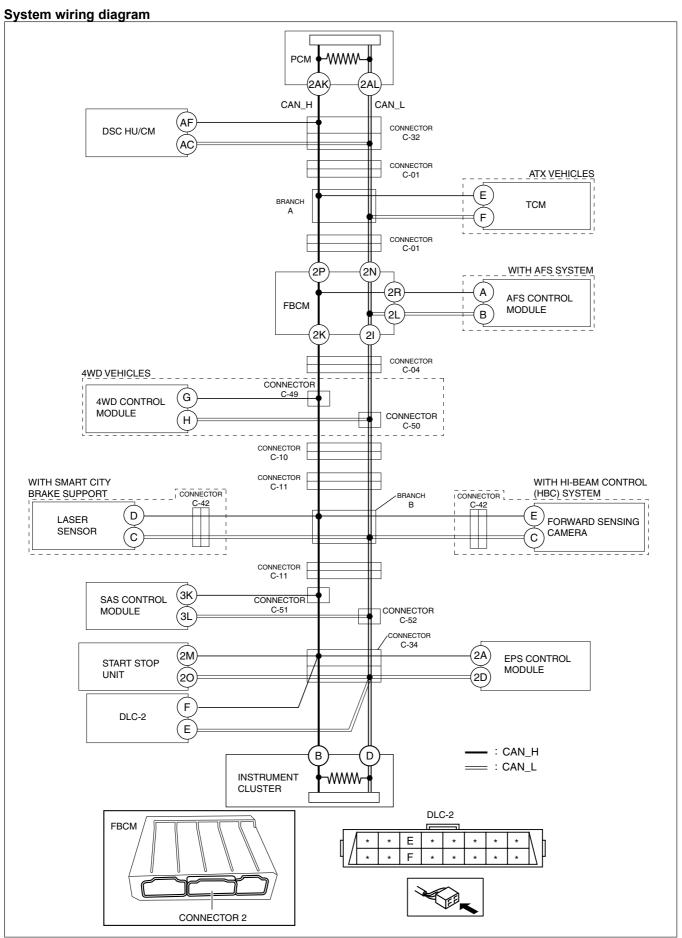
DETERMINING SHORT BETWEEN CIRCUITS LOCATION (HS-CAN) [SKYACTIV-G 2.0 (R.H.D.)]

id100202000800

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-G 2.0 (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 FRONT BODY CONTROL	Yes	Go to Step 5.
	MODULE (FBCM) AND INSTRUMENT	No	Go to the next step.
	CLUSTER FOR SHORT BETWEEN CIRCUITS	110	Go to the next step.
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	• Disconnect connector 2 which has front body		
	control module (FBCM) terminals 2K and 2I		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	• Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E.		
	Is the voltage at DLC-2 terminals F and E the		
	same?		
2	INSPECT FRONT BODY CONTROL MODULE	Yes	Replace the front body control module (FBCM) because
_	(FBCM) FOR SHORT BETWEEN CIRCUITS		there is a short between circuits in the front body control
	• Switch the ignition off (LOCK).		module (FBCM).
	Disconnect the negative battery cable.		(See FRONT BODY CONTROL MODULE (FBCM)
	(See NEGATIVE BATTERY CABLE		REMOVAL/INSTALLATION.)
	DISCONNECTION/CONNECTION	No	Go to the next step.
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Inspect for continuity between front body control		
	module (FBCM) terminals 2K and 2I.		
	Is there continuity?		
3	INSPECT BETWEEN AFS CONTROL MODULE	Yes	Go to the next step.
	AND FRONT BODY CONTROL MODULE	No	Go to Step 26.
	(FBCM) FOR SHORT BETWEEN CIRCUITS		·
	Inspect for continuity between AFS control		
	module terminals A and B.		
	Is there continuity?		
4	INSPECT AFS CONTROL MODULE FOR	Yes	Repair or replace the wiring harness between the AFS
	SHORT BETWEEN CIRCUITS		control module and front body control module (FBCM)
	Disconnect the AFS control module connector.		because the wiring harness is shorted between circuits.
	Inspect for continuity between AFS control	No	Replace the AFS control module because there is a short
	module terminals A and B (wiring harness side).		between circuits in the AFS control module.
	Is there continuity?		(See ADAPTIVE FRONT LIGHTING SYSTEM (AFS)
			CONTROL MODULE REMOVAL/INSTALLATION.)

Step	Inspection		Action
5	INSPECT BETWEEN CONNECTOR C-04 AND	Yes	Go to the next step.
	INSTRUMENT CLUSTER FOR SHORT	No	Repair or replace the wiring harness between the front
	BETWEEN CIRCUITS		body control module (FBCM) and connector C-04 because
	Switch the ignition off (LOCK).		the wiring harness is shorted between circuits.
	Disconnect the negative battery cable.		and thining trainings to chortes between en earles
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	• Disconnect connector C-04.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E.		
	Is the voltage at DLC-2 terminals F and E the		
	same?		
6	INSPECT BETWEEN CONNECTORS C-49	Yes	Go to Step 9.
	AND C-50 AND INSTRUMENT CLUSTER FOR	No	Go to the next step.
	SHORT BETWEEN CIRCUITS		
	Switch the ignition off (LOCK).		
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Disconnect connectors C-49 and C-50.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E.		
	Is the voltage at DLC-2 terminals F and E the		
	same?		
7	INSPECT BETWEEN 4WD CONTROL	Yes	Go to the next step.
	MODULE AND CONNECTORS C-49 AND C-50	No	Repair or replace the wiring harness between connector
	FOR SHORT BETWEEN CIRCUITS		C-04 and connectors C-49 and C-50 because the wiring
	Switch the ignition off (LOCK).		harness is shorted between circuits.
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Inspect for continuity between 4WD control		
	module terminals G and H.		
	Is there continuity?		
L	and a contamonty .		<u> </u>

Step	Inspection		Action
8	INSPECT 4WD CONTROL MODULE FOR	Yes	Repair or replace the wiring harness between the 4WD
	SHORT BETWEEN CIRCUITS	. 55	control module and connectors C-49 and C-50 because the
	• Disconnect the 4WD control module connector.		wiring harness is shorted between circuits.
	Inspect for continuity between 4WD control	No	Replace the 4WD control module because there is a short
	module terminals G and H (wiring harness side).	NO	between circuits in the 4WD control module.
	• Is there continuity?		(See 4WD CONTROL MODULE REMOVAL/
	is there continuity?		· ·
9	INSPECT BETWEEN CONNECTOR C-10 AND	Vaa	INSTALLATION.)
9	INSTRUMENT CLUSTER FOR SHORT	Yes	Go to the next step.
	BETWEEN CIRCUITS	No	Repair or replace the wiring harness between connectors
			C-49 and C-50 and connector C-10 because the wiring
	Switch the ignition off (LOCK). Discourse of the properties better a solution.		harness is shorted between circuits.
	• Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	• Disconnect connector C-10.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E.		
	Is the voltage at DLC-2 terminals F and E the		
	same?		
10	INSPECT BETWEEN CONNECTOR C-11 AND	Yes	Go to Step 16.
	INSTRUMENT CLUSTER FOR SHORT	No	Go to the next step.
	BETWEEN CIRCUITS		
	Switch the ignition off (LOCK).		
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Disconnect connector C-11.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E.		
	Is the voltage at DLC-2 terminals F and E the		
	same?		

Step	Inspection		Action
11	INSPECT BETWEEN CONNECTOR C-11 AND	Yes	Go to the next step.
	FORWARD SENSING CAMERA/LASER	No	Repair or replace the wiring harness between connector
	SENSOR FOR SHORT BETWEEN CIRCUITS		C-11 and connector C-10 because the wiring harness is
	Switch the ignition off (LOCK).		shorted between circuits.
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Inspect for continuity between forward sensing		
	camera terminals E and C. (With high beam		
	control (HBC) system)		
	Inspect for continuity between laser sensor		
	terminals D and C. (With smart city brake		
	support)		
10	• Is there continuity?		
12	INSPECT BETWEEN LASER SENSOR AND	Yes	Go to the next step.
	CONNECTOR C-42 FOR SHORT BETWEEN CIRCUITS	No	Go to Step 14.
	Disconnect connector C-42.		
	Inspect for continuity between laser sensor		
	terminals D and C.		
	• Is there continuity?		
13	INSPECT LASER SENSOR FOR SHORT	Yes	Repair or replace the wiring harness between the laser
	BETWEEN CIRCUITS		sensor and connector C-42 because the wiring harness is
	Disconnect the laser sensor connector.		shorted between circuits.
	Inspect for continuity between laser sensor	No	Replace the laser sensor because there is a short between
	terminals D and C (wiring harness side).		circuits in the laser sensor.
	Is there continuity?		(See LASER SENSOR REMOVAL/INSTALLATION.)
14	INSPECT BETWEEN FORWARD SENSING	Yes	Go to the next step.
	CAMERA AND CONNECTOR C-42 FOR	No	Repair or replace the wiring harness between connector
	SHORT BETWEEN CIRCUITS		C-11 and connector C-42 because the wiring harness is
	Inspect for continuity between forward sensing		shorted between circuits.
	camera terminals E and C.		
	• Is there continuity?		
15	INSPECT FORWARD SENSING CAMERA FOR	Yes	Repair or replace the wiring harness between the forward
	SHORT BETWEEN CIRCUITS		sensing camera and connector C-42 because the wiring
	Disconnect the forward sensing camera		harness is shorted between circuits.
	connector.	No	Replace the forward sensing camera because there is a
	• Inspect for continuity between forward sensing		short between circuits in the forward sensing camera.
	camera terminals E and C (wiring harness side).		(See FORWARD SENSING CAMERA (FSC) REMOVAL/
	Is there continuity?		INSTALLATION.)

Step	Inspection		Action
16	INSPECT BETWEEN CONNECTOR C-51, C-52	Yes	Go to Step 19.
	AND INSTRUMENT CLUSTER FOR SHORT BETWEEN CIRCUITS	No	Go to the next step.
	Switch the ignition off (LOCK).		
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Disconnect connector C-51, C-52.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].) (See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E. • Is the voltage at DLC-2 terminals F and E the		
47	same?	V.	
17	INSPECT BETWEEN SAS CONTROL MODULE AND CONNECTOR C-51, C-52 FOR	Yes No	Go to the next step. Repair or replace the wiring harness between connector
	SHORT BETWEEN CIRCUITS	INU	C-11 and connector C-51, C-52 because the wiring
	Switch the ignition off (LOCK).		harness is shorted between circuits.
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].) (See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Inspect for continuity between SAS control		
	module terminals 3K and 3L.		
40	• Is there continuity?	Y	
18	INSPECT SAS CONTROL MODULE FOR SHORT BETWEEN CIRCUITS	Yes	Repair or replace the wiring harness between the SAS control module and connector C-51, C-52 because the
	Disconnect the SAS control module connector.		wiring harness is shorted between circuits.
	Is there continuity between SAS control module	No	Replace the SAS control module because there is a short
	terminals 3K and 3L (wiring harness side)?		between circuits in the SAS control module.
	Is there continuity?		(See SAS CONTROL MODULE REMOVAL/
10	INODEOT DETWEEN DI C C COI	V:	INSTALLATION.)
19	INSPECT BETWEEN DLC-2 AND CONNECTOR C-34 FOR SHORT BETWEEN	Yes	Repair or replace the wiring harness between DLC-2 and connector C-34 because the wiring harness is shorted
	CIRCUITS		between circuits.
	Switch the ignition off (LOCK).	No	Go to the next step.
	Disconnect the negative battery cable.		'
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	• Disconnect connector C-34.		
	Inspect for continuity between DLC-2 terminals		
	F and E.		
	• Is there continuity?		

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Step	Inspection	V	Action
20	INSPECT BETWEEN START STOP UNIT AND	Yes	Go to the next step.
	CONNECTOR C-34 FOR SHORT BETWEEN CIRCUITS	No	Go to Step 22.
	Inspect for continuity between start stop unit		
	terminals 2M and 2O.		
	• Is there continuity?		
21	INSPECT START STOP UNIT FOR SHORT	Yes	Repair or replace the wiring harness between the start stop
	BETWEEN CIRCUITS		unit and connector C-34 because the wiring harness is
	Disconnect the start stop unit connector.		shorted between circuits.
	Is there continuity between start stop unit	No	Replace the start stop unit because there is a short
	terminals 2M and 2O (wiring harness side)?		between circuits in the start stop unit.
	Is there continuity?		(See START STOP UNIT REMOVAL/INSTALLATION.)
22	INSPECT BETWEEN EPS CONTROL MODULE	Yes	Go to the next step.
	AND CONNECTOR C-34 FOR SHORT	No	Go to Step 24.
	BETWEEN CIRCUITS		
	Inspect for continuity between EPS control module terminals 2A and 2D.		
	Is there continuity?		
23	INSPECT EPS CONTROL MODULE FOR	Yes	Repair or replace the wiring harness between the EPS
	SHORT BETWEEN CIRCUITS		control module and connector C-34 because the wiring
	Disconnect the EPS control module connector.		harness is shorted between circuits.
	Is there continuity between EPS control module	No	Replace the EPS control module because there is a short
	terminals 2A and 2D (wiring harness side)?		between circuits in the EPS control module.
	Is there continuity?		(See STEERING WHEEL AND COLUMN REMOVAL/
			INSTALLATION.)
24	INSPECT BETWEEN INSTRUMENT CLUSTER	Yes	Go to the next step.
	AND CONNECTOR C-34 FOR SHORT	No	Repair or replace the wiring harness between connector
	BETWEEN CIRCUITS		C-51, C-52 and connector C-34 because the wiring
	Inspect for continuity between instrument cluster terminals B and D.		harness is shorted between circuits.
	Is there continuity?		
25	INSPECT INSTRUMENT CLUSTER FOR	Yes	Repair or replace the wiring harness between the
	SHORT BETWEEN CIRCUITS		instrument cluster and connector C-34 because the wiring
	Disconnect the instrument cluster connector.		harness is shorted between circuits.
	Is there continuity between instrument cluster	No	Replace the instrument cluster because there is a short
	terminals B and D (wiring harness side)?		between circuits in the instrument cluster.
	Is there continuity?		(See INSTRUMENT CLUSTER REMOVAL/
			INSTALLATION.)
26	INSPECT BETWEEN CONNECTOR C-01 AND	Yes	Repair or replace the wiring harness between connector
	front body control module (FBCM) FOR SHORT BETWEEN CIRCUITS		C-01 and the front body control module (FBCM) because
	Switch the ignition off (LOCK).	No	the wiring harness is shorted between circuits. Go to the next step.
	Disconnect the negative battery cable.	INO	Go to the next step.
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Connect connector 2 which has front body The state of the sta		
	control module (FBCM) terminals 2K and 2I. • Disconnect connector C-01.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0 (WITHOUT i-stop)].)		
	Switch the ignition ON (engine off).		
	Measure the voltage at DLC-2 terminals F and		
	E.		
	• Is the voltage at DLC-2 terminals F and E the same?		
	Jaille!		

27. INSPECT BETWEEN CALL BUTCH AND CONNECTOR Yes Go to the next step. C-O1-FOR SHORT BETWEEN CRUITS - Switch the ignition off (LOCK) Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q-2.0) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q-2.0) Inspect for continuity between TCM terminals and F Is there continuity? 28. INSPECT TEM FOR SHORT BETWEEN CIRCUITS - Disconnect the TCM connector Inspect for continuity between TCM terminals and F (rivining harness side) Is there continuity? 29. INSPECT TESTWEEN CONNECTORS C-32 - AND C-1 FOR SHORT BETWEEN CIRCUITS - Disconnect connector C-01 Disconnect connector C-02 Connect connector C-02 Connect connector C-02 Connect connector C-03 Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (Step	Inspection		Action
C-01 FOR SHORT BETWEEN CIRCUITS - Switch the lignition off (LOCK), - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-4-2-01) - Inspect for continuity between TCM terminals E and F Is there continuity? 28			Yes	
See NEGATIVE BATTERY CABLE DISCONNECTION(CONNECTION SKYACTIV-G 2.01) See NEGATIVE BATTERY CABLE DISCONNECTION(CONNECTION SKYACTIV-G 2.01) See NEGATIVE FOR SHORT BETWEEN CIRCUITS DISCONNECTION(CONNECTION See Continuity Detween TCM terminals E and F. Si there continuity between TCM terminals E and F. Si there continuity between TCM terminals E and F (wring harness side). Si there continuity between TCM terminals E and F (wring harness side). Si there continuity? Yes Repair or replace the wiring harness is shorted between circuits. See CONTROL VALVE BODY REMOVAL/ (See CONTROL VALVE BODY RE	2,	C-01 FOR SHORT BETWEEN CIRCUITS		
SEYYACTIV-G-20 . (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SEYACTIV-G-20) (WITHOUT -istopi) . Inspect for continuity between TCM terminals E and F. Is there continuity Petween TCM terminals E and F (wiring harness side). Is there continuity between TCM terminals E and F (wiring harness side). Is there continuity between TCM terminals E and F (wiring harness side). Is there continuity between TCM terminals E and F (wiring harness side). Is there continuity P (wiring harness side). Is there continuity P (wiring harness side). Is the continuity P (wiring harness side). Is the continuity P (wiring harness have tween connector C-32 AND C-01 FOR SHORT BETWEEN CIRCUITS Connect tonnector C-32. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)). Switch the ignition Of (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)). Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)). Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)). See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)). See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)). See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G-20). (WITHOUT -istopi)].		(See NEGATIVE BATTERY CABLE		
DISCONNECTION/CONNECTION (SKYACTIV-G 2, QWITHOUT -stopp)). Inspect for continuity between TCM terminals E and F. Is there continuity? 28 INSPECT TCM FOR SHORT BETWEEN CIRCUITS Disconnect the TCM connector. Inspect for continuity between TCM terminals E and F (wiring harness between the TCM and connector C-01 because the wiring harness is shorted between dircuits. No Replace the TCM because there is a short between circuits in the TCM. See CONTROL VALVE BODY REMOVAL/ INSTALLATION [PWGA-EL, PWGA-EL]. Proposed to recommend the TCM and connector C-01 because the wiring harness is shorted between circuits. No Replace the TCM because there is a short between circuits in the TCM. See CONTROL VALVE BODY REMOVAL/ INSTALLATION [PWGA-EL, PWGA-EL]. Proposed to recommend the TCM and connector C-01 because the wiring harness is shorted between circuits. No Go to the next step. Go to the next step. Go to the next step. Go to Step 32. Go to the next step. Go to Step 32. Repair or replace the wiring harness between the TCM and connector C-01 because the wiring harness is shorted between circuits. No Go to the next step. Go to the next step. Go to Step 32. Go to Step 32. Go to Step 32. Go to the next step. Go to Step 32. Repair or replace the wiring harness between the DSC HUCM and connector C-01 because the wiring harness is shorted between circuits. For any step step step step step step step step		[SKYACTIV-G 2.0].)		
Inspect for continuity between TCM terminals E and F. Is there continuity?		DISCONNECTION/CONNECTION		
Repair or replace the wiring harness between the TCM and connector - Inspect for continuity between TCM terminals E and F (wiring harness side).		and F.		
CIRCUITS Disconnect the TCM connector. Inspect for continuity between TCM terminals E and F (wiring harness side). Is there continuity? INSPECT BETWEEN CONNECTORS C-32 AND C-01 FOR SHORT BETWEEN CIRCUITS Connect connector C-01. Disconnect connector C-02. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0) See NEGATIVE BATTERY CABLE DISCONNECTON/CONNECTION (SKYACTIV-G 2.0) Switch the ignition of (LOCK). Disconnect the negative battery cable. Is the voltage at DLC-2 terminals F and E. Is the voltage at DLC-2 terminals F and			.,	
Inspect for continuity between TCM terminals E and F (wiring harmess side). Is there continuity? INSPECT BETWEEN CONNECTORS C-32 AND C-01 FOR SHORT BETWEEN CIRCUITS Connect connector C-01. Disconnect connector C-02. Connect connector C-03. Connect connect connector C-32. Connect connect connector C-32. Connect connect connector C-32. Connect connect between circuits. No Go to the next step. Go to Step 32. INSPECT BETWEEN DSC HU/CM AND CONNECTION (SKYACTIV-G 2.0) (WITHOUT istop)). Switch the ignition ON (engine off). Measure the voltage at DLC-2 terminals F and E. Is the voltage at DLC-2 terminals F and E the same? Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SCE NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/CONNECTION/	28	CIRCUITS	Yes	connector C-01 because the wiring harness is shorted
and F (wiring harness side). In the TCM. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FW6A-EL, FW6AX-EL].) INSPECT BETWEEN CONNECTORS C-32 AND C-01 FOR SHORT BETWEEN CIRCUITS Connect connector C-01. Disconnect connector C-02. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0] See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION SKYACTIV-G 2.0 (WITHOUT i-stop)].) Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0] (See NEGATIVE BATTERY CABL		1	No	
INSPECT BETWEEN CONNECTORS C-32 AND C-01 FOR SHORT BETWEEN CIRCUITS Connect connector C-01.			INU	1 '
INSPECT BETWEEN CONNECTORS C-32 AND C-01 FOR SHORT BETWEEN CIRCUITS				(See CONTROL VALVE BODY REMOVAL/
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Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0 (WITHOUT i-stop)].) Switch the ignition ON (engine off). Measure the voltage at DLC-2 terminals F and E. Is the voltage at DLC-2 terminals F and E the same? INSPECT BETWEEN DSC HU/CM AND CONNECTION [SKYACTIV-G 2.0] (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0]) (See NEGATIVE BATTERY CABLE DISCONNECTIONNECTION [SKYACTIV-G 2.0]) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0]) See NEGATIVE BATTERY CABLE DISCONNECTION [SKYACTIV-G 2.0] INSPECT DSC HU/CM FOR SHORT BETWEEN terminals AF and AC (wiring harmess side). Is there continuity? INSPECT PCM FOR SHORT BETWEEN CIRCUITS Disconnect the DSC HU/CM connector. Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harmess side). Is there continuity? Yes Repair or replace the wiring harmess between the DSC HU/CM terminals AF and AC (wiring harmess side). Replace the DSC HU/CM. See DSC HU/CM REMOVAL/INSTALLATION.) Yes Repair or replace the wiring harmess between the DSC HU/CM terminals AF and AC (wiring harmess side). Is there continuity? Yes Repair or replace the wiring harmess between the DSC HU/CM terminals AF and AC (wiring harmess side). Replace the PCM because there is a short between circuits. No Replace the PCM because there is a short between circuits in the DSC HU/CM. See DSC HU/CM REMOVAL/INSTALLATION.) Yes Repair or replace the wiring harmess between the DSC HU/CM terminals and the power of the pCM decause there is a short between circuits. No Replace the PCM because there is a short between circuits in the PCM.			No	
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(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0 (WITHOUT i-stop)].) **Switch the ignition ON (engine off).* **Measure the voltage at DLC-2 terminals F and E. **Is the voltage at DLC-2 terminals F and E the same? **30 **INSPECT BETWEEN DSC HU/CM AND CONNECTOR C-32 FOR SHORT BETWEEN CIRCUITS* **Switch the ignition off (LOCK).* **Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0 [J.)) **See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0 [J.)) **Inspect for continuity between DSC HU/CM terminals AF and AC.* **Inspect for continuity between DSC HU/CM terminals AF and AC.* **Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harness side).* **Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harness side).* **Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harness side).* **Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harness side).* **Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harness side).* **Inspect for continuity between DSC HU/CM terminals AF and AC (wiring harness side).* **Inspect for continuity between PCM terminals AF and AC (wiring harness side).* **Inspect for continuity between PCM terminals AF and AC (wiring harness side).* **Inspect for continuity between PCM terminals AF and AC (wiring harness side).* **No Replace the SSC HU/CM REMOVAL/INSTALLATION.) **Replace the DSC HU/CM REMOVAL/INSTALLATION.) **Replace the Wiring harness between the PCM and connector C-32 because the wiring harness is shorted between circuits.* **No Replace the Wiring harness is shorted between circuits.* **No Replace the Wiring harness is a short between circuits.* **No Replace the PCM because there is a short between circuits in the PCM.*				
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2.0].)				(See PCM REMOVAL/INSTALLATION [SKYACTIV-G