SECTION PCS POWER CONTROL SYSTEM

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[IPDM E/R]

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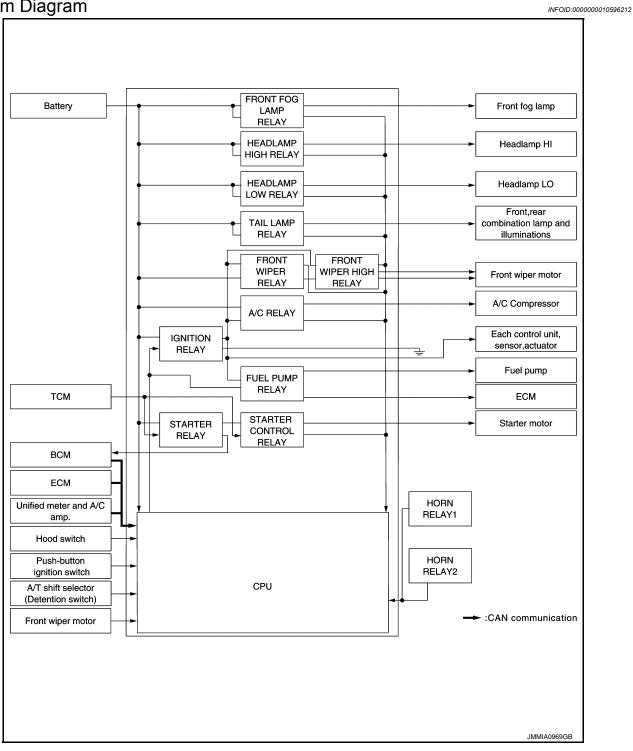
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SYSTEM DESCRIPTION

RELAY CONTROL SYSTEM

System Diagram



System Description

IPDM E/R activates the internal control circuit to perform the relay ON-OFF control according to the input signals from various sensors and the request signals received from control units via CAN communication.

IPDM E/R integrated relays cannot be removed.

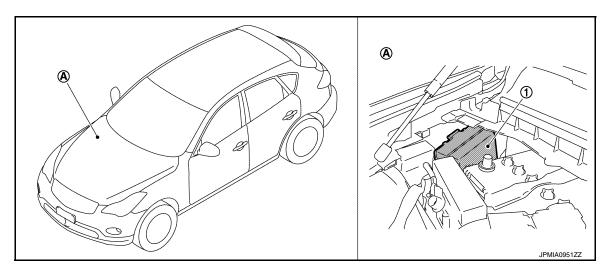
Control relay	Input/output	Transmit unit	Control part	Reference page	
Headlamp low relay Headlamp high relay	Low beam request signal High beam request signal	BCM (CAN)	Headlamp low Headlamp high	• EXL-12 (Xenon headlamp) • EXL-231 (Halogen headlamp)	
Front fog lamp relay	Front fog light request signal	BCM (CAN)	Front fog lamp	• EXL-25 (Xenon headlamp) • EXL-231 (Halogen headlamp)	
Tail lamp relay	ail lamp relay Position light request signal E		Parking lamp Side marker lamp License plate lamp Tail lamp	• EXL-29 (Xenon headlamp) • EXL-244 (Halogen headlamp)	
			Illuminations	INL-13	
Front wiper relay	Front wiper request signal	BCM (CAN)	Front wiper	<u>WW-6</u>	
 Front wiper high relay 	Front wiper stop position signal	Front wiper motor	From wiper		
Horn relay 1 Horn relay 2	Theft warning horn request signal Horn reminder signal	BCM (CAN)	Horn (low) Horn (high)	SEC-18	
NOTE	Starter control relay signal B				
 Starter relay^{NOTE} Starter control relay 	Steering lock unit condition signal	Steering lock unit	Starter motor	<u>SEC-80,</u> SEC-77	
clarter control relay	Starter relay control signal	TCM			
A/C relay	A/C compressor request signal	ECM (CAN)	A/C compressor (magnet clutch)	HAC-42	
	Ignition switch ON signal	BCM (CAN)		PCS-15	
Ignition relay	Vehicle speed signal	Unified meter and A/C amp. (CAN)	Ignition relay		
	Push-button ignition switch signal	Push-button ignition switch			

NOTE:

BCM controls the starter relay.

Component Parts Location

INFOID:0000000010596214



- 1. IPDM E/R
- A. Engine room dash panel (RH)

POWER CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[IPDM E/R]

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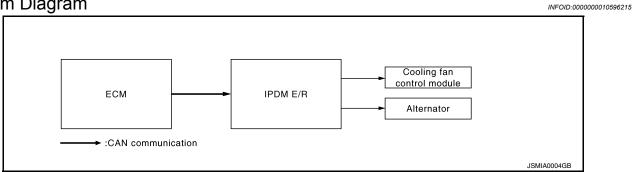
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POWER CONTROL SYSTEM

System Diagram



System Description

COOLING FAN CONTROL

IPDM E/R outputs pulse duty signal (PWM signal) to the cooling fan control module according to the status of the cooling fan speed request signal received from ECM via CAN communication. Refer to EC-88, "System Diagram.

ALTERNATOR CONTROL

IPDM E/R outputs power generation command signal (PWM signal) to the alternator according to the status of the power generation command value signal received from ECM via CAN communication. Refer to CHG-12, <a href=""ISystem Diagram".

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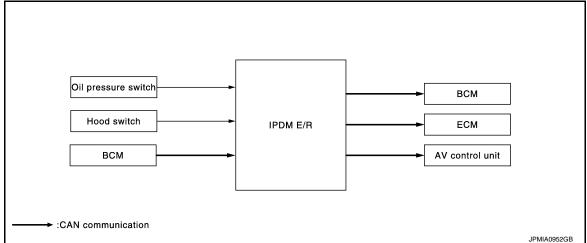
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[IPDM E/R]

SIGNAL BUFFER SYSTEM

System Diagram

INFOID:000000010596217



System Description

INFOID:0000000010596218

- IPDM E/R reads the status of the oil pressure switch and transmits the oil pressure switch signal to BCM via CAN communication. Refer to <a href="https://www.mcan.ni.gov/mc
- IPDM E/R reads the status of the hood switch and transmits the hood switch signal to BCM via CAN communication. Refer to <u>SEC-90</u>, "<u>Description</u>".
- IPDM E/R receives the rear window defogger control signal from BCM via CAN communication and transmits it to ECM and AV control unit via CAN communication. Refer to DEF-4, "System Diagram".

[IPDM E/R]

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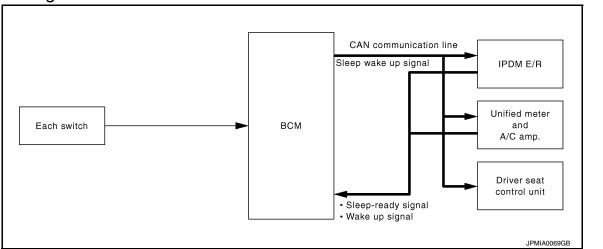
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POWER CONSUMPTION CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

- IPDM E/R incorporates a power consumption control function that reduces the power consumption according to the vehicle status.
- IPDM E/R changes its status (control mode) with the sleep wake up signal received from BCM via CAN communication.

Normal mode (wake-up)

- CAN communication is normally performed with other control units.
- Individual unit control by IPDM E/R is normally performed.

Low power consumption mode (sleep)

- Low power consumption control is active.
- CAN transmission is stopped.

SLEEP MODE ACTIVATION

- IPDM E/R judges that the sleep-ready conditions are fulfilled when the ignition switch is OFF and none of the conditions below are present. Then it transmits a sleep-ready signal (ready) to BCM via CAN communication.
- Outputting signals to actuators
- Switches or relays operating
- Hood switch status is kept 50 ms or less.
- Output requests are being received from control units via CAN communication.
- IPDM E/R stops CAN communication and enters the low power consumption mode when it receives a sleep wake up signal (sleep) from BCM and the sleep-ready conditions are fulfilled.

WAKE-UP OPERATION

- IPDM E/R changes from the low power consumption mode to the normal mode when it receives a sleep wake-up signal (wake up) from BCM or any of the following conditions is fulfilled. In addition, it transmits a sleep-ready signal (not-ready) to BCM via CAN communication to report the CAN communication start.
- Ignition switch ON
- The hood switch status changes.
- An output request is received from a control unit via CAN communication.

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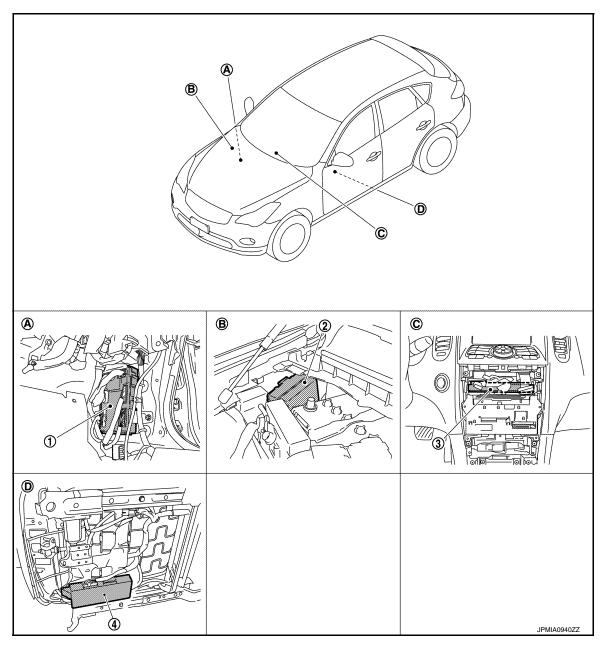
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Component Parts Location

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- 1. BCM
- 4. Driver seat control unit
- A. Dash side lower (passenger side)
- D. Backside of the seat cushion (driver seat)
- 2. IPDM E/R
- B. Engine room dash panel (RH)
- 3. Unified meter and A/C amp.
- C. Behind cluster lid C

[IPDM E/R]

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000010596222

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AUTO ACTIVE TEST

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Front wiper (LO, HI)
- Parking lamps
- · License plate lamps
- Side maker lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (cooling fan control module)

Operation Procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)

NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

- 2. Turn the ignition switch OFF.
- 3. Turn the ignition switch ON, and within 20 seconds, press the front door switch (driver side) 10 times. Then turn the ignition switch OFF.

CAUTION:

Close passenger door.

- 4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- The oil pressure warning lamp starts blinking when the auto active test starts.
- 6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:

When auto active test mode has to be cancelled halfway through test, turn the ignition switch OFF. **CAUTION**:

- If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-63</u>, <u>"Component Function Check"</u>.
- Do not start the engine.

Inspection in Auto Active Test Mode

When auto active test mode is actuated, the following 6 steps are repeated 3 times.

Operation sequence	Inspection location	Operation
1	Oil pressure warning lamp	Blinks continuously during operation of auto active test
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	Parking lamps License plate lamps Side maker lamps Tail lamps Front fog lamps	10 seconds
4	Headlamps	LO 10 seconds HI ON ⇔ OFF 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6 [*]	Cooling fan	MID for 5 seconds → HI for 5 seconds

^{*:} Outputs duty ratio of 50% for 5 seconds \rightarrow duty ratio of 100% for 5 seconds on the cooling fan control module.

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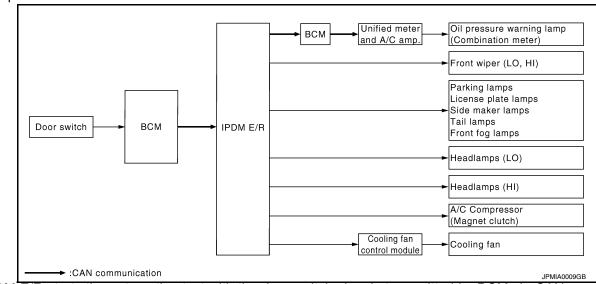
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Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
Any of the following components do not operate		YES	BCM signal input circuit
 Parking lamps License plate lamps Side maker lamps Tail lamps Front fog lamps Headlamp (HI, LO) Front wiper (HI, LO) 	Perform auto active test. Does the applicable system operate?	NO	Lamp or motor Lamp or motor ground circuit Harness or connector between IPDM E/R and applicable system IPDM E/R
A/C compressor does not operate	Perform auto active test. Does the magnet clutch operate?	YES	 Unified meter and A/C amp. signal input circuit CAN communication signal between unified meter and A/C amp. and ECM CAN communication signal between ECM and IPDM E/R
		NO	Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R
	Perform auto active test.	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R
Oil pressure warning lamp does not operate	Does the oil pressure warning lamp blink?	NO	CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and unified meter and A/C amp. Combination meter

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[IPDM E/R]

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Symptom	Inspection contents		Possible cause
		YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/ R
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	NO	Cooling fan Harness or connector between cooling fan and cooling fan control module Cooling fan control module Harness or connector between IPDM E/R and cooling fan control module Cooling fan relay Harness or connector between IPDM E/R and cooling fan relay IPDM E/R

CONSULT Function (IPDM E/R)

INFOID:0000000010596223

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

Diagnosis mode	Description	
Ecu Identification	Allows confirmation of IPDM E/R part number.	
Self Diagnostic Result	Displays the diagnosis results judged by IPDM E/R.	
Data Monitor	Displays the real-time input/output data from IPDM E/R input/output data.	
Active Test	IPDM E/R can provide a drive signal to electronic components to check their operations.	
CAN Diag Support Monitor	The results of transmit/receive diagnosis of CAN communication can be read.	

SELF DIAGNOSTIC RESULT

Refer to PCS-32, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item [Unit]	MAIN SIG- NALS	Description	
RAD FAN REQ [%]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.	
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.	
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.	
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.	
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.	
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication.	
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.	
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.	

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< SYSTEM DESCRIPTION >

Monitor Item [Unit]	MAIN SIG- NALS	Description
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
IGN RLY1 -REQ [Off/On]		Displays the status of the ignition switch ON signal received from BCM via CAN communication.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
PUSH SW [Off/On]		Displays the status of the push-button ignition switch judged by IPDM E/R.
INTER/NP SW [Off/On]		Displays the status of the shift position judged by IPDM E/R.
ST RLY CONT [Off/On]		Displays the status of the starter relay status signal received from BCM via CAN communication.
IHBT RLY -REQ [Off/On]		Displays the status of the starter control relay signal received from BCM via CAN communication.
ST/INHI RLY [Off/ ST ON/INHI ON/UNKWN]		Displays the status of the starter relay and starter control relay judged by IPDM E/R.
DETENT SW [Off/On]		Displays the status of the A/T shift selector (detention switch) judged by IPDM E/R.
S/L RLY -REQ [Off/On]		Displays the status of the steering lock relay request received from BCM via CAN communication. NOTE:
		For models without steering lock unit, this item is not monitored.
S/L STATE [LOCK/UNLOCK/UNKWN]		Displays the status of the steering lock judged by IPDM E/R. NOTE:
DTRL REQ [Off/On]		For models without steering lock unit, this item is not monitored. NOTE: The item is indicated, but not monitored.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch judged by IPDM E/R.
HOOD SW [Off/On]		Displays the status of the hood switch judged by IPDM E/R.
HL WASHER REQ [Off/On]		NOTE: The item is indicated, but not monitored.
THFT HRN REQ [Off/On]		Displays the status of the theft warning horn request signal received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn reminder signal received from BCM via CAN communication.
CRNRNG LMP REQ [Off/On]		NOTE: The item is indicated, but not monitored.

ACTIVE TEST

Test item

Test item	Operation	Description	
	Off		
CORNERING LAMP	LH	NOTE: The item is indicated, but cannot be tested.	
	RH		
HORN	On	Operates horn relay 1 and horn relay 2 for 20 ms.	
	Off	OFF	
FRONT WIPER Lo	Lo	Operates the front wiper relay.	
	Hi	Operates the front wiper relay and front wiper high relay.	

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[IPDM E/R]

Test item	Operation	Description	
	1	OFF	
MOTOR FAN	2	Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module.	
WOTOR FAIN	3	Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module.	
	4	Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module.	
HEAD LAMP WASHER	On	NOTE: The item is indicated, but cannot be tested.	
	Off	OFF	
	TAIL	Operates the tail lamp relay.	
EXTERNAL LAMPS	Lo	Operates the headlamp low relay.	
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.	
	Fog	Operates the front fog lamp relay.	

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[IPDM E/R]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010596224

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When IPDM E/R cannot communicate CAN communication signal continuously for 2 seconds or more	CAN communication system

Diagnosis Procedure

INFOID:0000000010596226

1.PERFORM SELF DIAGNOSTIC

- 1. Turn the ignition switch ON and wait for 2 seconds or more.
- Check "Self Diagnostic Result" of IPDM E/R.

Is DTC "U1000" displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-45, "Intermittent Incident".

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

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B2098 IGNITION RELAY ON STUCK

Description INFOID:000000010596227

• IPDM E/R operates the ignition relay when it receives an ignition switch ON signal from BCM via CAN com-

- Turn the ignition relay OFF by pressing the push-button ignition switch once when the vehicle speed is 4 km/h (2.5 MPH) or less.
- Turn the ignition relay OFF with the following operation when the vehicle speed is more than 4 km/h (2.5 MPH) or when an abnormal condition occurs in CAN communication from the unified meter and A/C amp.(Emergency OFF)
- Press and hold the push-button ignition switch for 2 seconds or more.
- Press the push-button ignition switch 3 times within 1.5 seconds.

NOTE

The ignition relay does not turn ON for 3 seconds after emergency OFF even if the push-button ignition switch is pressed.

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible causes
B2098	IGN RELAY ON CIRC	The ignition relay ON is detected for 1 second at ignition switch OFF (CPU monitors the status at the contact and excitation coil circuits of the ignition relay inside it)	Ignition relay malfunction

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSIS

- Turn the ignition switch ON.
- 2. Turn ignition switch OFF and wait 1 second or more.
- 3. Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Refer to PCS-15, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC "B2098"?

"CRNT">> GO TO 2.

"PAST" >> GO TO 5.

2.CHECK IGNITION RELAY CONTROL CIRCUIT VOLTAGE 1

- Turn ignition switch ON
- 2. Check voltage between IPDM E/R harness connector and ground.

(IPDI	+) M E/R	(-)	Voltage (Approx.)	
Connector	Connector Terminal		(Αφρίολ.)	
E5	27	Ground	0 V	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3. CHECK IGNITION RELAY CONTROL CIRCUIT VOLTAGE 2

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B2098 IGNITION RELAY ON STUCK

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

- 1. Disconnect IPDM E/R connector.
- Turn ignition switch ON
- 3. Check voltage between IPDM E/R harness connector and ground.

	+) M E/R	(-)	Voltage (Approx.)	
Connector Terminal			(* * * * * * * * * * * * * * * * * * *	
E5	27	Ground	0 V	

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Check the harness of the ignition relay control circuit for a short to power.

4. CHECK IGNITION RELAY CONTROL CIRCUIT

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/F	₹		Continuity
Connector	Terminal	Ground	Continuity
E5	27		Not existed

Is the inspection result normal?

YES >> Perform the diagnosis procedure for DTC B260A. Refer to PCS-53, "DTC Logic".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

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B2099 IGNITION RELAY OFF STUCK

Description INFOID:000000010596230

 IPDM E/R operates the ignition relay when it receives an ignition switch ON signal from BCM via CAN communication.

- Turn the ignition relay OFF by pressing the push-button ignition switch once when the vehicle speed is 4 km/h (2.5 MPH) or less.
- Turn the ignition relay OFF with the following operation when the vehicle speed is more than 4 km/h (2.5 MPH) or when an abnormal condition occurs in CAN communication from the unified meter and A/C amp.(Emergency OFF)
- Press and hold the push-button ignition switch for 2 seconds or more.
- Press the push-button ignition switch 3 times within 1.5 seconds.

NOTE:

The ignition relay does not turn ON for 3 seconds after emergency OFF even if the push-button ignition switch is pressed.

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible causes
B2099	IGN RELAY OFF CIRC	The ignition relay OFF is detected for 1 second at ignition switch ON (CPU monitors the status at the contact and excitation coil circuits of the ignition relay inside it)	Ignition relay malfunction

NOTE:

When IPDM E/R power supply voltage is low (Approx. 7 - 8 V for about 1 second), the "DTC: B2099" may be detected.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait 1 second or more.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Refer to PCS-17, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010596232

1.CHECK FUSE

Check that all of the fuses installed on the downstream of the contact point side circuit of the ignition relay in IPDM E/R are not blown.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after replacing the affected circuit if a fuse is blown.

2.check ignition relay control circuit voltage

- 1. Turn ignition switch ON
- 2. Check voltage between IPDM E/R harness connector and ground.

()	+)		Voltage (Approx)	
Connector	M E/R Terminal	(-)		
E5	27	Ground	0 V	

Is the inspection result normal?

B2099 IGNITION RELAY OFF STUCK

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> GO TO 3.

3. CHECK BATTERY VOLTAGE

Check battery voltage.

Which is the measurement result?

More than 12.4 V>>GO TO 4.

Less than 12.4 V>>Perform battery inspection. Refer to PG-3. "How to Handle Battery".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000010596233

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1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

Signal name	Fuses and fusible link No.
	С
Battery power supply	50
	51

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check voltage between IPDM E/R harness connector and the ground.

	Terminals		
(:	+)	(-)	Voltage
IPDN	/I E/R	(-)	(Approx.)
Connector	Terminal	Ground	
E4	1	Ground	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between IPDM E/R harness connectors and the ground.

IPDM E	E/R		Continuity	
Connector	Terminal	Ground	Continuity	
E5	12	Ground	Existed	
E6	41	41	Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value INFOID:0000000010596234

VALUES ON THE DIAGNOSIS TOOL

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item		Condition	Value/Status
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 – 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL & CLD DEO	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
III I O DEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	On
UL ULBEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
		Front fog lamp switch OFF	Off
FR FOG REQ	Lighting switch 2ND or AUTO (Light is illuminated)	 Front fog lamp switch ON Daytime running light activated (Only for Canada) 	On
	Ignition switch ON	Front wiper switch OFF	Stop
ED W//D DEO		Front wiper switch INT	1LOW
FR WIP REQ		Front wiper switch LO	Low
		Front wiper switch HI	Hi
	Ignition switch ON	Front wiper stop position	STOP P
WIP AUTO STOP		Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
IGN RLY1 -REQ	Ignition switch OFF or ACC	Off	
ION KLT I -KEU	Ignition switch ON	On	
ICN DI V	Ignition switch OFF or ACC	Off	
IGN RLY	Ignition switch ON	On	
DUCH CW	Release the push-button ignition	Off	
PUSH SW	Press the push-button ignition s	witch	On
INTER/NP SW	Ignition switch ON	Selector lever in any position other than P or N	Off
	_	Selector lever in P or N position	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Cor	Value/Status	
ST RLY CONT	Ignition switch ON		Off
31 KLI CONT	At engine cranking		On
IHBT RLY -REQ	Ignition switch ON		Off
IIIDI KLI -KLQ	At engine cranking		On
	Ignition switch ON		Off
OT (IN II II DIN)	At engine cranking		INHI ON \rightarrow ST ON
ST/INHI RLY		control relay cannot be recognized by . when the starter relay is ON and the	UNKWN
DETENT SW	Ignition switch ON	Press the selector button with selector lever in Prosition	
	Release the selector button with se	elector button with selector lever in P position	
S/L RLY -REQ	NOTE: The item is indicated, but not monit	Off	
S/L STATE	NOTE: The item is indicated, but not monit	UNLOCK	
DTRL REQ	NOTE: The item is indicated, but not monit	Off	
OIL P SW	Ignition switch OFF, ACC or engine	Open	
OIL P SW	Ignition switch ON	Close	
HOOD SW	Close the hood	Off	
TIOOD SW	Open the hood	On	
HL WASHER REQ	NOTE: The item is indicated, but not monit	Off	
	Not operation		Off
THFT HRN REQ	 Panic alarm is activated Horn is activated with VEHICLE S TEM 	On	
LIODNI OLIIDD	Not operating		Off
HORN CHIRP	Door locking with Intelligent Key (he	On	
CRNRNG LMP REQ	NOTE: The item is indicated, but not monit	Off	

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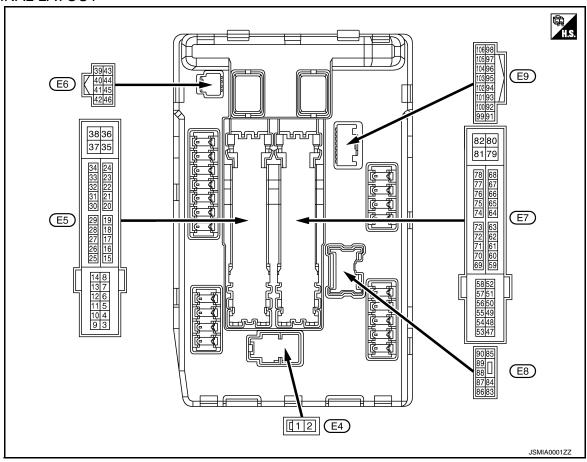
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TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description				Value	
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
2 (L)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage	
4	Craund	Front winer I O	Outout	Ignition	Front wiper switch OFF	0 V	
(V)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage	
5	5 (L) Ground Front wiper HI	Front wiper HI	Quitaut	Ignition	Front wiper switch OFF	0 V	
(L)			Output	switch ON	Front wiper switch HI	Battery voltage	
7	Cround	Tail, license plate lamps & interior lamps	Output	put Ignition switch ON	Lighting switch OFF	0 V	
(R)	(R) Ground ii				Lighting switch 1ST	Battery voltage	
12 (B/W)	Ground	Ground	_	Ignition switch ON		0 V	
13					tely 1 second or more after ignition switch ON	0 V	
(Y)	Ground	Fuel pump power supply	Output	Approximately 1 second after turning the ignition switch ON Engine running		Battery voltage	
16	40			Ignition	Front wiper stop position	0 V	
(LG) Ground	Ground Front wiper auto stop Input	switch ON	Any position other than front wiper stop position	Battery voltage			

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
19	Craund	lanition relevances events	Outout	Ignition swi	itch OFF	0 V
(W)	Ground	Ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
25	Cround	lanition rolay nowar supply	Output	Ignition swi	itch OFF	0 V
(G)	Ground	Ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
26*	Ground	Ignition relay power supply	Output	Ignition swi	itch OFF	0 V
(R)	Ground	ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
27	Ground	Ignition relay monitor	Input	Ignition swi	itch OFF or ACC	Battery voltage
(BG)	Cround	ignition roley monitor	mpat	Ignition swi	itch ON	0 V
28	Ground	Push-button ignition	Input	Press the p	oush-button ignition switch	0 V
(L)	Cround	switch	mpat	Release the	e push-button ignition switch	Battery voltage
30 (GR)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V
(011)				3	Selector lever P or N	Battery voltage
36 (G)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
39 (P)	_	CAN-L	Input/ Output	_		_
40 (L)	_	CAN-H	Input/ Output	_		_
41 (B/W)	Ground	Ground	_	Ignition switch ON		0 V
42	Ground	Cooling fan relay control	Input	Ignition swi	itch OFF or ACC	0 V
(Y)	Ground	Cooling lan relay control	input	Ignition swi	itch ON	0.7 V
43 (SB)	Ground	A/T shift selector (Detention switch)	Input	Ignition switch ON	Press the selector button (Selector lever P) Selector lever in any position other than P	Battery voltage
					Release the selector but- ton (selector lever P)	0 V
44	Ground	Horn relay control	Input	The horn is	deactivated	Battery voltage
(BR)	C.Garia		pat	The horn is	activated	0 V
45	Ground	Anti theft horn relay control	Input	The horn is	deactivated	Battery voltage
(G)	Cround	. and anote north rollay control	mpat	The horn is	activated	0 V
46 (R)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V
(11)		_		SWILCH ON	Selector lever P or N	Battery voltage
					A/C switch OFF	0 V
48 (L)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
40				Ignition swi (More than ignition swi	a few seconds after turning	0 V
49 (BG)	Ground	ECM relay power supply	Output	Ignition s Ignition s (For a fertion switch	switch OFF w seconds after turning igni-	Battery voltage

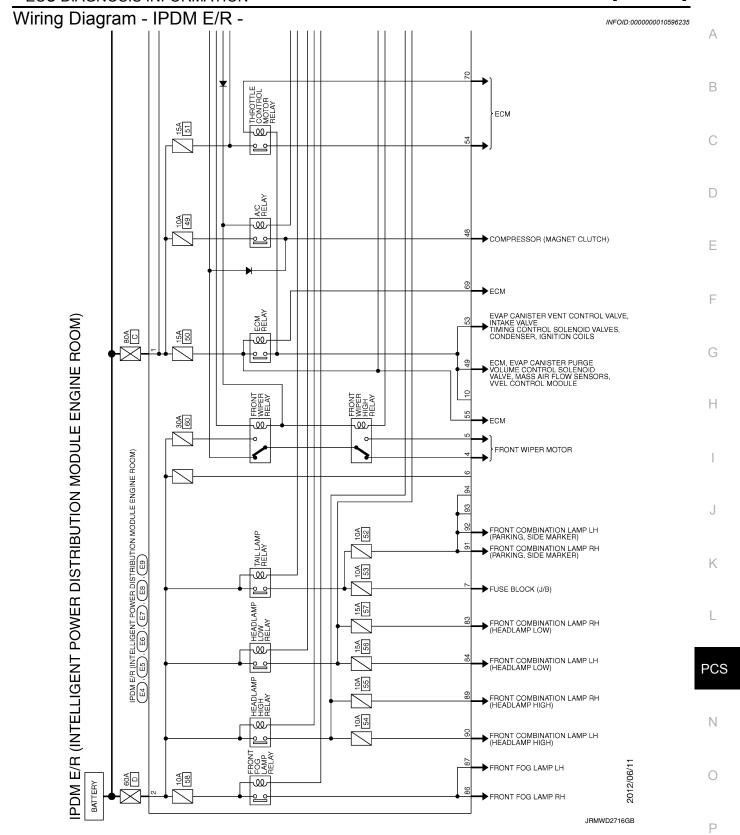
PCS-23 2015 QX50 **Revision: February 2015**

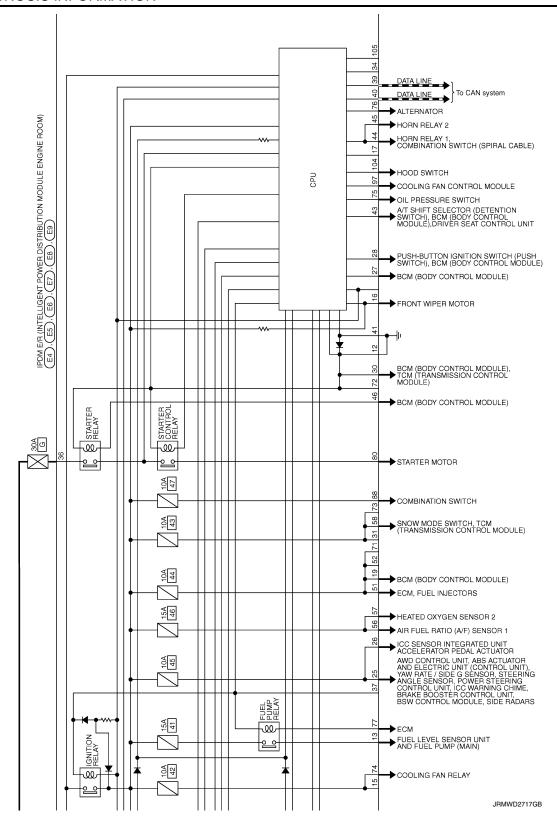
Terminal No. Description					Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
51	One week		0	Ignition switch OFF		0 V
(Y)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
53			Output	Ignition sw (More than ignition sw	a few seconds after turning	0 V
(W)	Ground	ECM relay power supply		Ignition s	w seconds after turning igni-	Battery voltage
54		Throttle control motor re- lay power supply		Ignition sw (More than ignition sw	a few seconds after turning	0 V
(P)	Ground		Output	Ignition s	w seconds after turning igni-	Battery voltage
55 (SB)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage
56	Ground	Ignition relay power supply	Output	Ignition switch OFF		0 V
(LG)	(LG) Ground Igrillion relay power supply		Output	Ignition switch ON		Battery voltage
57	Ground Ignition relay power supply Output		Output	Ignition switch OFF		0 V
(G)	Ground	ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
58	Ground	Ignition relay power supply	Output	Ignition sw	itch OFF	0 V
(V)	Cround	ignition relay power supply	Catpat	Ignition sw	itch ON	Battery voltage
69				Ignition sw (More than ignition swi	a few seconds after turning	Battery voltage
(BR)	Ground	ECM relay control	Output	 Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) 		0 – 1.5 V
70 (BG)	Ground	Throttle control motor re- lay control	Output	Ignition switch ON → OFF		0 − 1.0 V ↓ Battery voltage ↓ 0 V
			-	Ignition switch ON		0 – 1.0 V
74	0	La effect colo	0 1 1	Ignition switch OFF		0 V
(P)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
75	Ground	Oil pressure switch	Input	Ignition	Engine stopped	0 V
(SB)	Giound	On pressure switch	mput	switch ON Engine running		Battery voltage

Terminal No. (Wire color)		Description				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)		
				Ignition switch ON		(V) 6 4 2 0 2 ms JPMIA0001GB		
76 (Y)	Ground	Power generation command signal	Output	40% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		6.3 V		
						JPMIA0002GB 3.8 V		
					on "ACTIVE TEST", "AL- R DUTY" of "ENGINE"	(V) 6 4 2 0		
						JPMIA0003GB 1.4 V		
77 (R)	Ground	Fuel pump relay control	Output	Output		nately 1 second after turning on switch ON unning	0 – 1.0 V	
()					tely 1 second or more after ignition switch ON	Battery voltage		
80 (W)	Ground	Starter motor	Output	At engine of	cranking	Battery voltage		
83 (BG)	Ground	Headlamp LO (RH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND	0 V Battery voltage		
84 (V)	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND Front fog lamp switch OFF	0 V Battery voltage 0 V	Ē	
86 (W)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch ON Daytime running light activated (Only for Canada)	Battery voltage		
					Front fog lamp switch OFF	0 V		
87 (L)	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch ON Daytime running light activated (Only for Canada)	Battery voltage		
88 (GR)	Ground	Washer pump power supply	Output	Ignition swi	itch ON	Battery voltage		

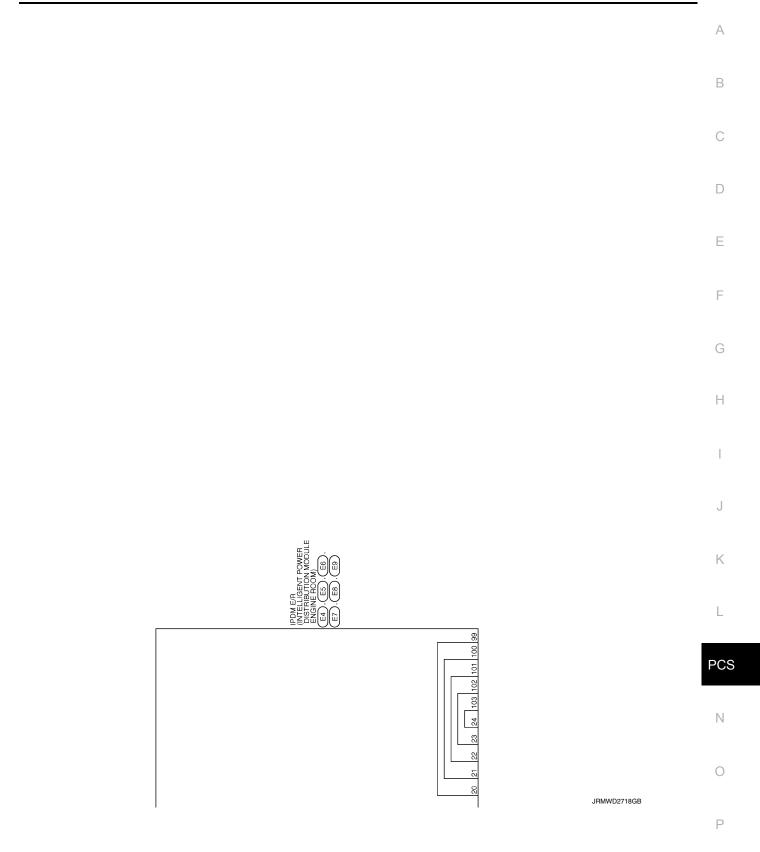
	inal No.	Description				Value	
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
89				Ignition	Lighting switch OFF	0 V	
(BR)	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage	
90		Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V	
(P)	Ground				Lighting switch HI Lighting switch PASS	Battery voltage	
91	Cround	Darking Jama (DH)	Output	Ignition	Lighting switch OFF	0 V	
(P)	Ground	Parking lamp (RH)	Output	switch ON	Lighting switch 1ST	Battery voltage	
92	Ground	Parking Jamp (LU)	Output	Ignition	Lighting switch OFF	0 V	
(BG)	Ground	Parking lamp (LH)	Output	switch ON	Lighting switch 1ST	Battery voltage	
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 – 5 V	
104	Ground	und Hood quitob	Input	Close the hood		Battery voltage	
(LG)	Ground	Ground Hood switch		Open the hood		0 V	

^{*:} Only for the models with ICC system

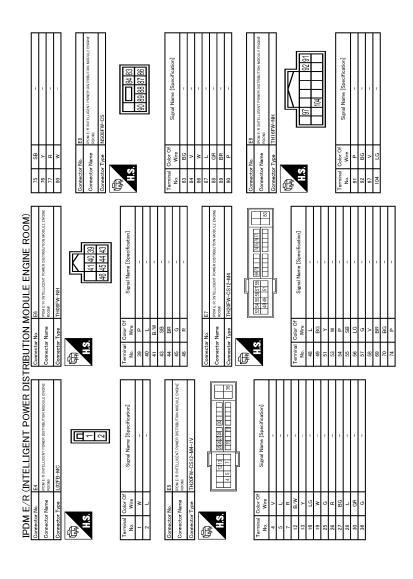




[IPDM E/R] < ECU DIAGNOSIS INFORMATION >



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JRMWF4766GB

Fail-safe INFOID:0000000010596236

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

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< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe operation
Cooling fan	 Outputs the pulse duty signal (PWM signal) 100% when the ignition switch is turned ON Outputs the pulse duty signal (PWM signal) 0% when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Alternator	Outputs the power generation command signal (PWM signal) 0%

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If No CAN Communication Is Available With BCM

Control part	Fail-safe operation
Headlamp	 Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsLicense plate lampsSide maker lampsIlluminationsTail lamps	 Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.
Front fog lamps	Front fog lamp relay OFF
Horn	Horn relay OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- · If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Voltage	judgment		Operation	
Ignition relay contact side	Ignition relay excitation coil side	IPDM E/R judgment		
ON	ON	Ignition relay ON normal	_	
OFF	OFF	Ignition relay OFF normal	_	
ON	OFF	Ignition relay ON stuck	Detects DTC "B2098: IGN RELAY ON" Turns ON the tail lamp relay for 10 minutes	
OFF	ON	Ignition relay OFF stuck	Detects DTC "B2099: IGN RELAY OFF"	

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper stop position signal.

When a front wiper stop position signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

Ignition switch	Front wiper switch	Front wiper stop position signal
ON	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
ON	ON	The front wiper stop position signal does not change for 10 seconds.

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< ECU DIAGNOSIS INFORMATION >

NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

DTC Index INFOID:0000000010596237

NOTE:

- The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
- The number is 0 when is detected now.
- The number increases like 1 \rightarrow 2 \cdots 38 \rightarrow 39 after returning to the normal condition whenever IGN OFF \rightarrow
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

x: Applicable

CONSULT display	Fail-safe	Reference
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-14
B2098: IGN RELAY ON CIRC	×	PCS-15
B2099: IGN RELAY OFF CIRC	_	PCS-17
B210B: STR CONT RLY ON CIRC	-	<u>SEC-77</u>
B210C: STR CONT RLY OFF CIRC	_	<u>SEC-78</u>
B210D: STARTER RLY ON CIRC	_	<u>SEC-80</u>
B210E: STARTER RLY OFF CIRC	_	<u>SEC-82</u>
B210F: INTRLCK/PNP SW ON	_	<u>SEC-84</u>
B2110: INTRLCK/PNP SW OFF	_	<u>SEC-86</u>

< PRECAUTION > [IPDM E/R]

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

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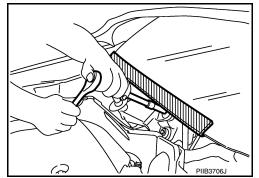
PRECAUTIONS

< PRECAUTION > [IPDM E/R]

Precaution for Procedure without Cowl Top Cover

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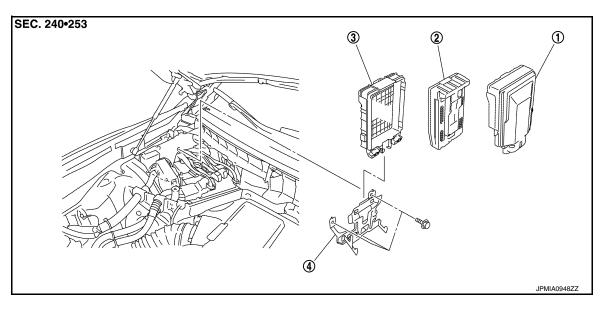
When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



REMOVAL AND INSTALLATION

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Exploded View INFOID:0000000010596240



- 1. IPDM E/R cover A
- 2. IPDM E/R

3. IPDM E/R cover B

4. Bracket

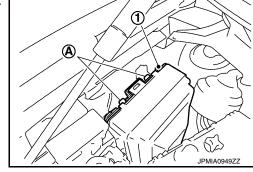
Removal and Installation

CAUTION:

IPDM E/R integrated relays are not serviceable parts, and must not be removed from the unit.

REMOVAL

- 1. Disconnect the battery cable from the negative terminal.
- 2. Remove the cowl top cover (RH). Refer to EXT-22, "Exploded View".
- 3. Pull up the IPDM E/R assembly while pressing the pawls (A) on the back of the IPDM E/R cover B (1).



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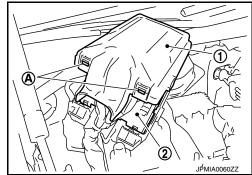
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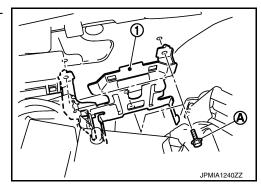
< REMOVAL AND INSTALLATION >

[IPDM E/R]

- 4. Remove the IPDM E/R cover A (1) while pressing the pawls (A) at the lower end of the IPDM E/R cover A.
- 5. Disconnect the harness connector and remove the IPDM E/R (2).



6. Remove the bolts (A) and remove the bracket (1) from the vehicle.



INSTALLATION

Install in the reverse order of removal.

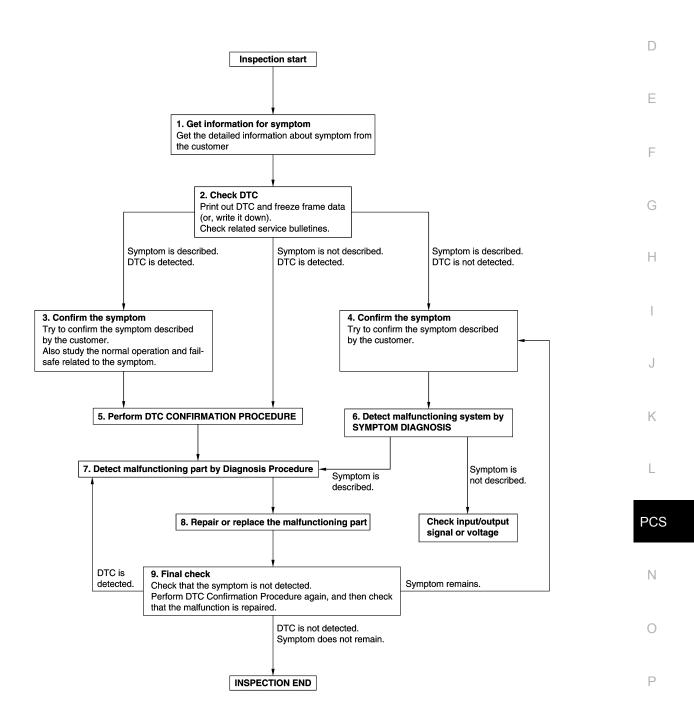
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[POWER DISTRIBUTION SYSTEM]

1.GET INFORMATION FOR SYMPTOM

- 1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- 2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2.CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data (Print them out using CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to <u>BCS-90</u>, "<u>DTC Inspection Priority Chart</u>" (BCM) or <u>PCS-32</u>, "<u>DTC Index</u>" (IPDM E/R), and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIR-MATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-45, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[POWER DISTRIBUTION SYSTEM]

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-45. "Intermittent Incident".

8.repair or replace the malfunctioning part

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
- 3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

SYSTEM DESCRIPTION

POWER DISTRIBUTION SYSTEM

System Description

INFOID:0000000010596243

SYSTEM DESCRIPTION

- PDS (POWER DISTRIBUTION SYSTEM) is the system that BCM controls with the operation of the pushbutton ignition switch and performs the power distribution to each power circuit. This system is used instead of the mechanical power supply changing mechanism with the operation of the conventional key cylinder.
- The push-button ignition switch can be operated when Intelligent Key is in the following condition. Refer to Engine Start Function for details.
- Intelligent Key is in the detection area of the inside key antenna
- Insert Intelligent Key into the key slot
- The push-button ignition switch operation is input to BCM as a signal. BCM changes the power supply position according to the status and operates the following relays to supply power to each power circuit.
- Ignition relay (built into IPDM E/R)
- Ignition relay (inserted into fuse block)
- ACC relay
- Blower relay
- The power supply potision changes due to the conditions of push-button ignition switch operation, brake pedal, selector lever and vehicle speed.

NOTE:

- The power supply position can be confirmed with the lighting of the indicators near the push-button ignition switch.
- For models without sterring lock unit, power supply position changes from "OFF" to "LOCK" when steering lock conditions are satisfied.

BATTERY SAVER SYSTEM

When all the following conditions are met for 30 minutes, the battery saver system will cut off the power supply to prevent battery discharge.

- The ignition switch is in the ACC position
- All doors are closed
- Selector lever is in the P position

Reset Condition of Battery Saver System

In order to prevent the battery from discharging, the battery saver system will cut off the power supply when all doors are closed, the selector lever is on P position and the ignition switch is left on ACC position for 30 minutes. If any of the following conditions are met the battery saver system is released and the steering will change automatically to lock position from OFF position.

- · Opening any door
- · Operating with door key cylinder on door lock
- Operating with request switch on door lock
- Operating with Intelligent Key on door lock

Press push-button ignition switch and ignition switch will change to ACC position from OFF position.

POWER SUPPLY POSITION CHANGE TABLE BY PUSH-BUTTON IGNITION SWITCH OPERA-TION

The power supply position changing operation can be performed with the following operations.

NOTE:

- When an Intelligent Key is within the detection area of inside key antenna and when it is inserted to the key slot, it is equivalent to the operations below.
- When starting the engine, the BCM monitors under the engine start conditions,
- Brake pedal operating condition
- Selector lever position
- Vehicle speed

Vehicle speed: less than 4 km/h (2.5 MPH)

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

Dower ownsky nocition	Engine sta	Push-button ignition switch	
Power supply position	Selector lever position	Brake pedal operation condition	operation frequency
$LOCK \rightarrow ACC$	-	Not depressed	1
$LOCK \to ACC \to ON$	_	Not depressed	2
$LOCK \to ACC \to ON \to OFF$	_	Not depressed	3
LOCK → START ACC → START ON → START	P or N position	Depressed	1
Engine is running → OFF	_	_	1

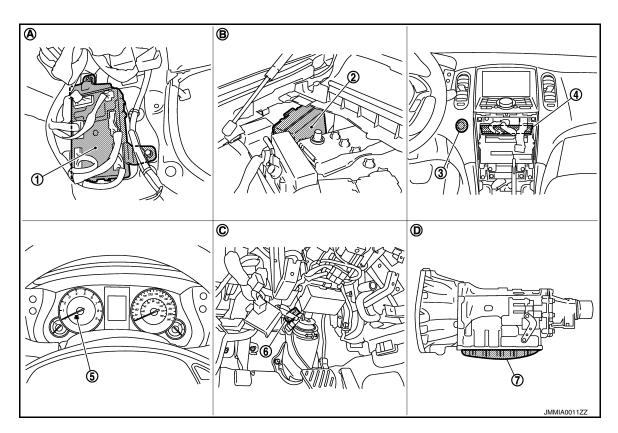
Vehicle speed: 4 km/h (2.5 MPH) or more

Power supply position	Engine start/stop condition		Push-button ignition switch
1 ower supply position	Selector lever position	Brake pedal operation condition	operation frequency
Engine is running → ACC	_	_	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	1

Emergency stop operation

- · Press and hold the push-button ignition switch for 2 seconds or more.
- · Press the push-button ignition switch 3 times or more within 1.5 seconds.

Component Parts Location



- 1. BCM M118, M119, M121, M122, M123 2.
- 4. Unified meter and A/C amp. M66, M67 5.
- IPDM E/R E5, E6, E7
- Combination meter (Key warning lamp) M53
- 7. TCM F151 (built into A/T assembly)

- 3. Push-button ignition switch M50
- 6. Stop lamp switch E110

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< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

- A. Dash side lower (passenger side)
- B. Engine room dash panel (RH)
- C. Behind the instrument driver lower panel

D. A/T assembly

Component Description

INFOID:0000000010596245

Component	Reference
IPDM E/R	PCS-5
Ignition relay (Built-in IPDM E/R)	PCS-53
Ignition relay (Built-in fuse block)	PCS-51
Accessory relay	PCS-55
Blower relay	PCS-58
Stop lamp switch	SEC-47
Transmission range switch	SEC-62
Push-button ignition switch	PCS-68

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

x: Applicable item Diagnosis mode System Sub system selection item Work Support **Data Monitor** Active Test Door lock DOOR LOCK × REAR DEFOGGER Rear window defogger X × Warning chime **BUZZER** × × Interior room lamp timer INT LAMP × × × Exterior lamp **HEAD LAMP** X × × **WIPER** Wiper and washer × **FLASHER** Turn signal and hazard warning lamps AIR CONDITONER* · Intelligent Key system INTELLIGENT KEY × · Engine start system Combination switch **COMB SW** X Body control system **BCM** × **IVIS - NATS IMMU** X X **BATTERY SAVER** Interior room lamp battery saver × × × **TRUNK** Back door open system THEFT ALM Vehicle security system × × × RAP system **RETAINED PWR** X Signal buffer system SIGNAL BUFFER X X

TPMS

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

AIR PRESSURE MONITOR

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^{*:} This item is displayed, but is not used.

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description			
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected			
Odo/Trip Meter	do/Trip Meter km		Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)		
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)		
	LOCK>ACC		While turning power supply position from "LOCK"* to "ACC"		
	ACC>ON		While turning power supply position from "ACC" to "IGN"		
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)		
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)		
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)		
	ACC>OFF		While turning power supply position from "ACC" to "OFF"		
	OFF>LOCK	Power supply position status of the moment a	While turning power supply position from "OFF" to "LOCK"*		
Vehicle Condition	OFF>ACC	particular DTC is de-	While turning power supply position from "OFF" to "ACC"		
	ON>CRANK	tected*	While turning power supply position from "IGN" to "CRANKING"		
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode		
	LOCK		Power supply position is "LOCK"*		
	OFF		Power supply position is "OFF" (Ignition switch OFF)		
	ACC		Power supply position is "ACC" (Ignition switch ACC)		
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)		
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)		
	CRANKING		Power supply position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 			

NOTE:

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.
- · Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000010596247

WORK SUPPORT

Monitor item	Description	
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.	
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes	
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and back door) mode can be changed to operate (ON) or not operate (OFF) in this mode.	
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.	
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.	
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.	
TAKE OUT FROM WIN WARN	NOTE: This item is displayed, but cannot be supported.	
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be supported.	
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.	
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.	
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation	
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operation	
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec. • 100 msec. • 200 msec.	
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.	
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.	
WELCOME LIGHT OP SET	Welcome light function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.	
WELCOME LIGHT SELECT	Welcome light function mode can be selected from the following with this mode. • Without room lamp • With room lamp • Without paddle lamp • With paddle lamp	

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[POWER DISTRIBUTION SYSTEM]

< SYSTEM DESCRIPTION >

SELF-DIAG RESULT

Refer to BCS-91, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).	
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).	
REQ SW -RR	NOTE: This item is displayed, but cannot be monitored.	
REQ SW -RL	NOTE: This item is displayed, but cannot be monitored.	
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.	
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.	
CLUCH SW	NOTE: This item is displayed, but cannot be monitored.	
BRAKE SW 1	Indicates [ON/OFF] condition of brake switch power supply.	
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.	
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.	
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.	
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored.	
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored.	
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored.	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.	
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.	
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.	
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.	
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.	
SFT P -MET	Indicates [ON/OFF] condition of P position.	
SFT N -MET	Indicates [ON/OFF] condition of N position.	
ENGINE STATE	Indicates [STOP/START/CRANK/RUN] condition of engine states.	
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored.	
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored.	
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored.	
VEH SPEED 1	Display the vehicle speed signal received from unified meter and A/C amp. by numerical value [Km/h].	
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].	
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.	
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.	
ID OK FLAG	Indicates [SET/RESET] condition of key ID.	
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.	

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[POWER DISTRIBUTION SYSTEM]

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Monitor Item	Condition
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.

ACTIVE TEST

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT screen is touched.	
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down will be activated after "ON" on CONSULT screen is touched.	
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. Take away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. Key warning chime sounds when "KEY WARN" on CONSULT screen is touched. Position warning chime sounds when "PRNG WARN" on CONSULT screen is touched. ACC warning chime sounds when "ACC WARN" on CONSULT screen is touched.	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated after "ON" on CONSULT screen is touched.	
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT screen is touched. • "KEY" Warning lamp flashes when "KEY IND" on CONSULT screen is touched.	
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT screen is touched.	
LCD	This test is able to check meter display information Engine start information displays when "BP N" on CONSULT screen is touched. Engine start information displays when "BP I" on CONSULT screen is touched. Key ID warning displays when "ID NG" on CONSULT screen is touched. ROTAT: This item is displayed, but cannot be tested. Position warning displays when "SFT P" on CONSULT screen is touched. Intelligent Key insert information displays when "INSRT" on CONSULT screen is touched. Intelligent Key low battery warning displays when "BATT" on CONSULT screen is touched. Take away through window warning displays when "NO KY" on CONSULT screen is touched. Take away warning display when "OUTKY" on CONSULT screen is touched. OFF position warning display when "LK WN" on CONSULT screen is touched.	
TRUNK/GLASS HATCH	This test is able to check back door opener actuator open operation. This actuator opens when "ON" on CONSULT screen is touched.	
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps will be activated after "ON" on CONSULT screen is touched.	
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT screen is touched.	
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT screen is touched.	

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< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

Test item	Description
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched.
LOCK INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched;
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. Indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
IGNITION ON IND	This test is able to check ON indicator in push-ignition switch operation. Indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination flash when "ON" on CONSULT screen is touched.
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be tested.

U1000 CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:000000010596248

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1000	CAN COMM	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result".

Is DTC "U1000" displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-45, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT(CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000010596252

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-97, "Exploded View".

B2553 IGNITION RELAY

Description INFOID:000000010596253

BCM turns ON the following relays to ignition power supply to each ECU when the ignition switch is turned ON.

- Ignition relay (inserted into fuse block)
- Ignition relay (built into IPDM E/R)
- · Blower relay

BCM checks any ignition relay ON request for consistency with the actual ignition relay operation status.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2553	IGN POWER CIRCUIT	BCM detects a difference of signal for 2 seconds or more between the following information. Ignition relay ON/OFF operation Ignition relay (IPDM E/R) feedback.	Harness or connectors (Ignition relay feedback circuit is open or short) BCM IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions (start the engine), and wait for at least 2 seconds.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-51, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

CHECK DTC WITH IPDM E/R
 Check "Self diagnostic result" with CONSULT. Refer to PCS-32, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK IGNITION RELAY FEEDBACK INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect BCM connector.
- Check voltage between BCM harness connector and ground.

(+) BCM		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(* .pp. 6/11)
M123	123	Ground	Ignition switch	OFF	0
IVITZS	123	Giouria	ignition switch	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3. CHECK IGNITION RELAY FEEDBACK CIRCUIT

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B2553 IGNITION RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between BCM harness connector and IPDM E/R harness connector.

ВСМ		IPDI	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M123	123	E5	19	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	123		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Repair or replace harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B260A IGNITION RELAY

Description INFOID:000000010596256

BCM turns ON the following relays to ignition power supply to each ECU when the ignition switch is turned ON.

- Ignition relay (inserted into fuse block)
- Ignition relay (built into IPDM E/R)
- Blower fan motor relay

BCM checks any ignition relay ON request for consistency with the actual ignition relay operation status.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B260A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>PCS-49, "DTC Logic"</u>.
- If DTC B260A is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>PCS-50, "DTC Logic"</u>.
- If DTC B260A is displayed with DTC B261A, first perform the trouble diagnosis for DTC B261A. Refer to <u>PCS-65, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B260A	IGNITION RELAY	BCM detects a difference of signal for 2 second or more between the following information. Ignition relay (IPDM E/R) operation request Ignition relay feedback from IPDM E/R (CAN).	Harness or connectors (Ignition relay operation circuit is open or shorted.) BCM IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions, and wait for at least 2 seconds.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-53, "Diagnosis Procedure".

NO >> INSPECTION END

1. CHECK DTC WITH IPDM E/R

Diagnosis Procedure

Check "Self diagnostic result" with CONSULT. Refer to PCS-32, "DTC_Index".

Is DTC detected?

YES >> Repair or replace the malfunctioning parts.

NO >> GO TO 2.

2. CHECK IGNITION RELAY INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- Check voltage between BCM harness connector and ground.

(+) BCM		(–)	Voltage (V) (Approx.)
Connector	Terminal		(44)
M121	47	Ground	Battery voltage

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B260A IGNITION RELAY

[POWER DISTRIBUTION SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 3.

$3. {\sf CHECK}$ IGNITION RELAY (IPDM E/R) CIRCUIT

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and BCM harness connector.

IPDM E/R		ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	27	M121	47	Existed

3. Check continuity between IPDM E/R harness connector and ground.

IPDI	M E/R		Continuity
Connector	Terminal	Ground	Continuity
E5	27		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Repair or replace harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B2614 ACC RELAY

Description INFOID:0000000010596259

BCM controls the various electrical components and simultaneously supplies power according to the power supply position.

BCM checks the power supply position internally.

DTC Logic INFOID:0000000010596260

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2614	ACC RELAY CIRC	An immediate operation of accessory relay is requested by BCM, but there is no response for more than 1 second.	 Harness or connectors (Accesory relay circuit is open or shorted) Accessory relay

DTC CONFIRMATION PROCEDURE

1 . PERFORM DTC CONFIRMATION PROCEDURE

- Turn the power supply position to ACC under the following conditions, and wait for at least 1 second.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-55, "Diagnosis Procedure".

NO >> INSPECTION END

1. CHECK ACCESSORY RELAY POWER SUPPLY

Turn ignition switch OFF.

Diagnosis Procedure

2. Disconnect accessory relay.

Check voltage between accessory relay harness connector and ground.

(+) Accessory relay Terminal	(-)	Con	dition	Voltage (V) (Approx.)
1	Ground	Ignition switch	OFF	0
ı	Giodila	igililion Switch	ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK ACCESSORY RELAY POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector.
- Check continuity between accessory relay harness connector and BCM harness connector.

Accessory relay	BCM Connector Terminal		Continuity
Terminal			Continuity
1	M122	95	Existed

Check continuity between accessory relay harness connector and ground.

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B2614 ACC RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Accessory relay	Ground	Continuity
Terminal		Continuity
1		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-97, "Removal and Installation".

NO >> Repair or replace harness or connector.

3.CHECK ACCESSORY RELAY GROUND CIRCUIT

Check continuity between accessory relay harness connector and ground.

Accessory relay	Ground	Continuity
Terminal		Continuity
2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair accessory relay ground circuit.

4. CHECK ACCESSORY RELAY POWER SUPPLY CIRCUIT-2

- Turn ignition switch ACC.
- 2. Check voltage between accessory relay harness connector and ground.

(+) Accessory Terminal	(-)	Voltage (V) (Approx.)
5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Check continuity open or short between accessory relay and battery.

5. CHECK ACCESSORY RELAY

Refer to PCS-56, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace accessory relay.

O.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010596262

1. CHECK ACCESSORY RELAY

- 1. Turn ignition switch OFF.
- 2. Remove accessory relay.

B2614 ACC RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

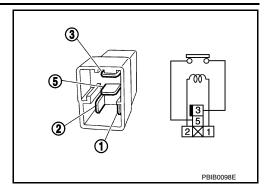
3. Check the continuity between accessory relay terminals.

Terminals	Condition	Continuity
3 and 5	12 V direct current supply between terminals 1 and 2	Existed
3 and 3	No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace accessory relay.



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B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B2615 BLOWER RELAY CIRCUIT

Description INFOID:000000010596263

BCM controls the various electrical components and simultaneously supplies power according to the power supply position.

BCM checks the power supply position internally.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2615	BLOWER RELAY CIRC	BCM detects a difference of signal for 1 second or more between the following information. • Blower relay ON/OFF request • Blower relay inside feedback	Harness or connectors (Blower relay circuit is open or shorted) Blower relay

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions, and wait for at least 1 second.
- Selector lever is in the P or N position
- Do not depress brake pedal
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-58, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010596265

1. CHECK BLOWER RELAY POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect blower relay.
- 3. Check voltage between blower relay harness connector and ground.

(+) Blower relay	(–)	Con	dition	Voltage (V) (Approx.)
Terminal				(
1	Ground	lanition switch	OFF or ACC	0
	Giodila	Ignition switch	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

2.CHECK BLOWER RELAY POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between blower relay harness connector and BCM harness connector.

Blower relay	BCM		Continuity
Terminal	Connector	Terminal	Continuity
1	M122	102	Existed

4. Check continuity between blower relay harness connector and ground.

B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Blower relay		Continuity	Α
Terminal	Ground	Continuity	
1		Not existed	П
NO >> Repair or replace harness 3.CHECK BLOWER RELAY GROUN 1. Turn ignition switch OFF.		nd.	С
Blower relay Terminal	Ground	Continuity	Е
2		Existed	
NO >> Repair blower relay ground 4. CHECK BLOWER RELAY POWER 1. Turn ignition switch ON or ACC. 2. Check voltage between blower re			G
(+) Blower relay Terminal	(–)	Voltage (V) (Approx.)	Н
5	Ground	Battery voltage	
5.CHECK BLOWER RELAY Refer to PCS-59, "Component Inspect Is the inspection result normal?	short between blower relay and ba	ttery.	J K
YES >> GO TO 6. NO >> Replace blower relay. 6.CHECK INTERMITTENT INCIDEN	IT		L
Refer to GI-45, "Intermittent Incident".		-	PC
>> INSPECTION END Component Inspection		NIFOID ADDROGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGO	Ν
		INFOID:000000010596266	
 CHECK BLOWER RELAY Turn ignition switch OFF. Remove blower relay. 			P

B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

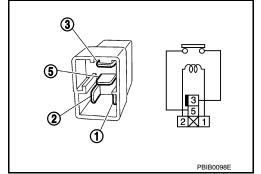
[POWER DISTRIBUTION SYSTEM]

3. Check the continuity between blower relay terminals.

Terminals	Condition	Continuity
3 and 5	12 V direct current supply between terminals 1 and 2	Existed
3 and 3	No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END NO >> Replace blower relay.



B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B2616 IGNITION RELAY CIRCUIT

Description INFOID:0000000010596267

BCM controls the various electrical components and simultaneously supplies power according to the power supply position.

BCM checks the power supply position internally.

DTC Logic INFOID:0000000010596268

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2616	IGN RELAY CIRC	An immediate operation of ignition relay (fuse block) is requested by BCM, but there is no response for more than 1 second	Harness or connectors (Ignition relay circuit is open or shorted) Ignition relay (fuse block)

DTC CONFIRMATION PROCEDURE

1 . PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions, and wait for at least 1 second.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-61, "Diagnosis Procedure".

>> INSPECTION END NO

1. CHECK IGNITION RELAY POWER SUPPLY

Turn ignition switch OFF.

Diagnosis Procedure

- 2. Disconnect ignition relay.
- Check voltage between ignition relay harness connector and ground.

(+) Ignition relay Terminal	(–)	Con	dition	Voltage (V) (Approx.)
1	Ground	Ignition switch	OFF or ACC	0
'	Ground	igililion Switch	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

>> GO TO 2. NO

2.CHECK IGNITION RELAY POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector.
- Check continuity between ignition relay harness connector and BCM harness connector.

Ignition relay	BCM		Continuity
Terminal	Connector	Terminal	Continuity
1	M122	82	Existed

Check continuity between ignition relay harness connector and ground.

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B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Ignition relay	Ground	Continuity	
Terminal		Continuity	
1		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-97, "Removal and Installation".

NO >> Repair or replace harness or connector.

3.CHECK IGNITION RELAY GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Check continuity between ignition relay harness connector and ground.

Ignition relay	Ground	Continuity
Terminal		
2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair ignition relay ground circuit.

4.CHECK IGNITION RELAY POWER SUPPLY CIRCUIT-2

- 1. Turn ignition switch ON.
- 2. Check voltage between ignition relay harness connector and ground.

(+) Ignition relay	(-)	Voltage (V) (Approx.)	
Terminal			
5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Check continuity open or short between ignition relay and battery.

${f 5.}$ CHECK IGNITION RELAY

Refer to PCS-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace ignition relay.

$\mathsf{6}.$ CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010596270

1. CHECK IGNITION RELAY

- 1. Turn ignition switch OFF.
- 2. Remove ignition relay.

B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

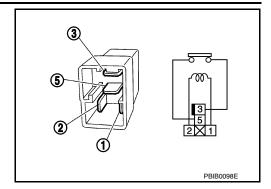
[POWER DISTRIBUTION SYSTEM]

3. Check the continuity between ignition relay terminals.

Terminals	Condition	Continuity
3 and 5	12 V direct current supply between terminals 1 and 2	Existed
3 and 3	No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END NO >> Replace Ignition relay.



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B2618 BCM

Description INFOID:000000010596271

BCM controls the various electrical components and simultaneously supplies power according to the power supply position.

BCM checks the power supply position internally.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2618 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-49, "DTC Logic".
- If DTC B2618 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>PCS-50, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2618	ВСМ	An immediate operation of ignition relay (IPDM E/R) is requested by BCM, but there is no response for more than 1 second	всм

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions, and wait for at least 1 second.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-64, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010596273

1.INSPECTION START

- 1. Turn ignition switch ON.
- 2. Select "Self diagnostic result" mode with CONSULT.
- 3. Touch "ERASE".
- Perform DTC Confirmation Procedure.

See PCS-64, "DTC Logic".

Is the 1st trip DTC B2618 displayed again?

YES >> Replace BCM. Refer to BCS-97, "Removal and Installation"

NO >> INSPECTION END

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B261A PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000010596274

BCM transmits the change in the power supply position with the push-button ignition switch to IPDM E/R via the CAN communication line. IPDM E/R transmits the power supply position status via CAN communication line to BCM.

DTC Logic INFOID:0000000010596275

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B261A	PUSH-BTN IGN SW	BCM detects a difference of signal for 1 second or more between the following information. Push-button ignition switch (push switch) signal Push-button ignition switch status signal from IPDM E/R (CAN)	Harness or connectors (Push-button ignition switch circuit is open or shorted.) BCM IPDM E/R

DTC CONFIRMATION PROCEDURE

1 . PERFORM DTC CONFIRMATION PROCEDURE

- Press the push-button ignition switch under the following conditions, and wait for 1 second or more.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to PCS-65, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK BCM OUTPUT

- Turn ignition switch OFF.
- 2. Disconnect push-button ignition switch connector and IPDM E/R connector.
- Check voltage between IPDM E/R harness connector and ground.

(+) IPDM E/R		(-)	Voltage (V) (Approx.)
Connector	Connector Terminal		
E5	28	Ground	Battery voltage

Is the inspection result normal?

>> GO TO 2. YES

NO >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

2.CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT (IPDM E/R)

- Disconnect IPDM E/R connector and BCM connector.
- Check continuity between IPDM E/R harness connector and push-button ignition switch harness connec-2. tor.

IPDM E/R		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	28	M50	4	Existed

Check continuity between IPDM E/R harness connector and ground.

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INFOID:0000000010596276

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B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

IPDI	IPDM E/R		Continuity
Connector Terminal		Ground	Continuity
E5	28		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-97, "Removal and Installation".

NO >> Repair or replace harness or connector.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000010596277

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1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.
Battery power supply	К
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Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connectors.
- Check voltage between BCM harness connector and ground.

	Terminals		
(+) (-)			Voltage
ВСМ			(Approx.)
Connector	Terminal	Ground	
M118	1	Glound	Battery voltage
M119	11		Dattery Voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector Terminal		Ground	Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

PUSH-BUTTON IGNITION SWITCH

Description INFOID:000000010596278

BCM transmits the change in the power supply position with the push-button ignition switch to IPDM E/R via the CAN communication line. IPDM E/R transmits the power supply position status via CAN communication line to BCM.

Component Function Check

INFOID:0000000010596279

1. CHECK FUNCTION

- 1. Select "PUSH SW" in "Data Monitor" mode with CONSULT.
- 2. Check the push-button ignition switch signal under the following condition.

Test item	Condition	Status
PUSH SW	Push-button ignition switch is pressed	ON
FOSITOW	Push-button ignition switch is not pressed	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Go to PCS-68, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010596280

1. CHECK PUSH-BUTTON IGNITION SWITCH OUTPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect push-button ignition switch connector and IPDM E/R connector.
- 3. Check voltage between push-button ignition switch harness connector and ground.

(+) Push-button ignition switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(44)	
M50	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and push-button ignition switch harness connector.

۷	Vith	steering	lock	unit	

В	CM	Push-button ignition switch		- Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M122	89	M50	4	Existed	
Without steering lock uni	t				
В	CM	Push-button ignition switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M121	60	M50	4	Existed	

Check continuity between BCM harness connector and ground.

With steering lock unit

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M122	89		Not existed	

PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

	t steering lock unit	BCM			
	Connector	Termina	.1 (Ground	Continuity
	M121	60			Not existed
YES > NO >	>> Repair or replac K PUSH-BUTTON	Refer to <u>BCS-97,</u> ce harness. I IGNITION SWIT	"Removal and Install	TIL	
Check cor	ntinuity between p	ush-button ignitio	n switch harness con	nector and ground.	
	Push-button	ignition switch			Continuity
-	Connector	Termina		Ground	Continuity
	M50	1			Existed
NO > 4.CHECHE TO P Is the insp YES > NO > 5.CHECHE TO P	>> GO TO 4. >> Repair or replace K PUSH-BUTTON PCS-69, "Compone pection result norm >> GO TO 5. >> Replace push-b K INTERMITTENT GI-45, "Intermittent >> INSPECTION E	I IGNITION SWIT ent Inspection". nal? outton ignition swi I INCIDENT	CH tch. Refer to <u>PCS-12</u>	6, "Removal and Ins	stallation".
Compor	nent Inspection	n			INFOID:00000000105
Compor 1. CHECH 1. Turn i 2. Disco	nent Inspection K PUSH-BUTTON ignition switch OFlonnect push-buttor	n I IGNITION SWIT F. n ignition switch coen push-button ig			INFOID:00000000105
Compor 1. CHECH 1. Turn i 2. Disco	nent Inspection K PUSH-BUTTON ignition switch OFI onnect push-buttor k continuity betwe	n I IGNITION SWIT F. n ignition switch coen push-button ig	onnector. Inition switch terminal		

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PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

Description INFOID:000000010596282

The switch that changes the power supply position.

BCM maintains the power supply position status.

BCM changes the power supply position with the operation of the push-button ignition switch.

Component Function Check

INFOID:0000000010596283

1.CHECK FUNCTION

Check push-button ignition switch ("LOCK INDICATOR", "ACC INDICATOR" and "IGNITION ON IND") in Active Test Mode with CONSULT.

Test item		Description	
LOCK INDICATOR ACC INDICATOR IGNITION ON IND	ON	Position indicator	Illuminate
	OFF		Not illuminate

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PCS-70, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010596284

1. CHECK PUSH-BUTTON IGNITION SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect push-button ignition switch connector.
- 3. Check voltage between push-button ignition switch harness connector and ground.

(+) Push-button ignition switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		() ,	
M50	8	Ground	Battery voltage	

Is the inspection normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 6, located in fuse block (J/B)].

NO-2 >> Check harness for open or short between push-button ignition switch and fuse.

2. CHECK BCM INPUT

- 1. Connect push-button ignition switch connector.
- 2. Disconnect BCM connector.
- Check voltage between BCM connector and ground.

(+) BCM		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - /	
M119	15			
M122	93	Ground	Battery voltage	
M123	134			

Is the inspection normal?

YES >> Replace BCM. Refer to BCS-97, "Removal and Installation".

NO >> GO TO 3.

3. CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT

1. Disconnect push-button ignition switch connector.

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PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

2. Check continuity between BCM harness connector and push-button ignition switch harness connector.

Indicator		CM	Push-button ignition switch		Continuity
mulcator	Connector	Terminal	Connector	Terminal	Continuity
LOCK	M123	134		5	
ACC	M119	15	M50	6	Existed
ON	M122	93		7	

3. Check continuity between BCM harness connector and ground.

Indicator	всм			Continuity
indicator	Connector	Terminal	-	Continuity
LOCK	M123	134	Ground	
ACC	M119	15	-	Not existed
ON	M122	93	-	

Is the inspection normal?

YES >> Replace push-button ignition switch. Refer to PCS-126, "Removal and Installation".

NO >> Repair or replace harness.

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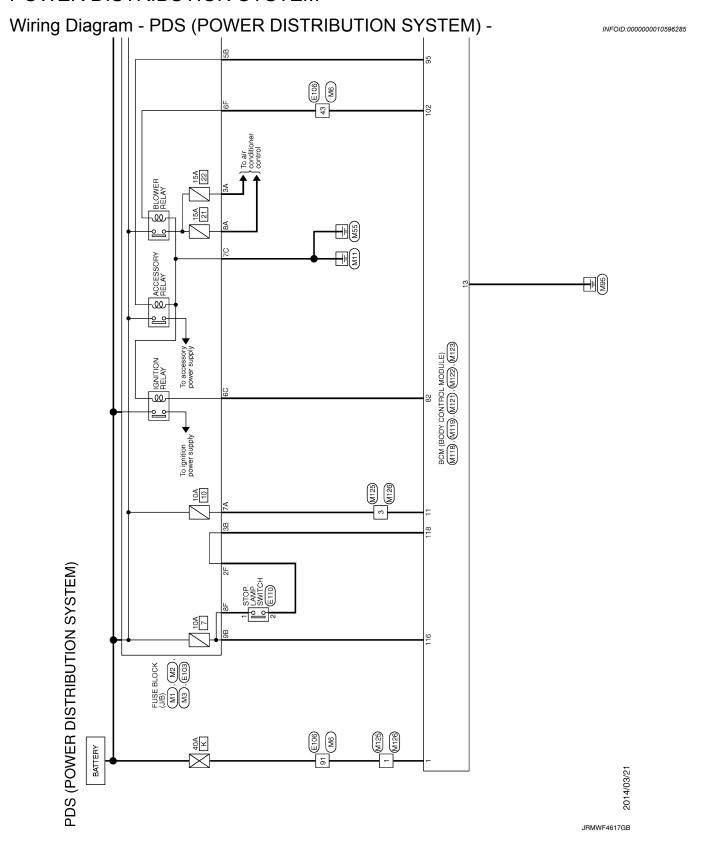
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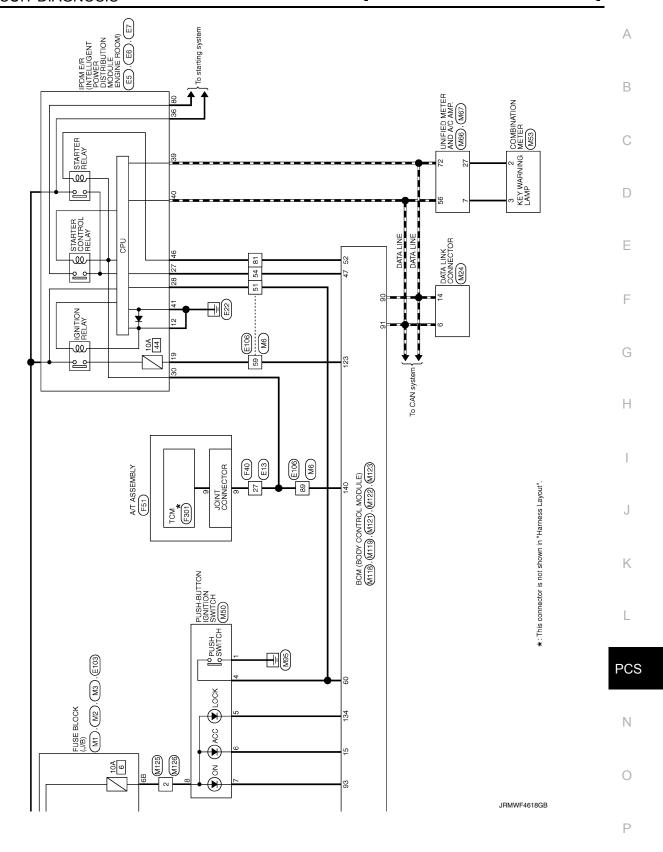
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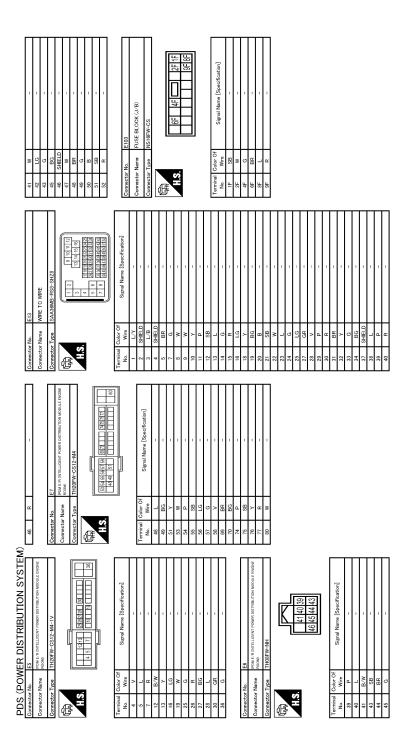
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Character Name	Connecto	r No.	F106	40	8		97	œ	•	12	۵	
The control of the				43								
Market Colonies Colonies of Parket Colonies o			Little Ch. Little	45	۸	-	86	SHELD		13	٦	-
The control of the	Connecto	r Name	WINE TO WINE	49	_	1	66	٦		-	27	
1 1 1 1 1 1 1 1 1 1	Connecto	r Type	TH80FW-CS16-TM4	20	۵		100	┞		15	BR	
State Stat				51	ŀ		<u> </u>			16	>	
Conventer No. Signat Name Specification Signature Specification Sp	1	_		54	BG	1				138	. 5	-
Chicago of the contract three Stockholderich of the c	手			5	2		Conne	l	E110	٩	٥	•
Control Cont	\ \ \		72 E S	65	3	1				· «		1
Color Of War Specification Color Of		•	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	9		Conne	otor Name	STOP LAMP SWITCH	2 5	, ,	
Convertion Con			2 C C C C C C C C C C C C C C C C C C C	19	3		o de	they Tune	MOJEWILL	3		
Chicker Chic				63	g					33	,	
Convertion Con				63	3		4	•		P.2		1
No. Second Name (Second Leadword) Geo. C C C C C C C C C	Torminol	Color Of		3	٥		手	Ţ		36	,	
No. Control of the control of th	No.	Wire	Signal Name	1 0	١		7	v		3 5	. [
1 1 1 1 1 1 1 1 1 1	,			20 00	3 6		1	ā		/7	5 6	
No. Color Color	-[۽		8	-				1 2	8	ž.	ı
Control of the cont	2	Α.	-	/9	EL S	-				67	1	
Color Colo	,,	2	-	89	-	1				99	ř	-
Convector Name Color Convector Name Color Co	4	æ		69	FG		_			E .		-
No. No.	5	GR	_	70	Α	-	Termit			32	۸	-
Fig. 10 Fig.	80	>	-	71	œ	1	No.	-	Digital Isalia Coperincation	33	SB	-
SE Content	6	BR	1	72	٠	1	-	_	-	34	0	-
Sign	10	BG	1	73	В	1	2	W	=	37	SHIELD	=
Fig. 10 Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15 Fig.	=	SB	1	74	BR	- [With ICC]	e.	>	-	88	>	-
1	12	BG		74	Ľ	- [Without ICC]	4	SB		39	>	
No. No.	13	_		75	ŋ	- [With ICC]				40	ŋ	
No. Part P	14	۳	1	75	*	- [Without ICC]				41	В	1
V V V V V V V V V V	15	۵	-	9/	>	- [With ICC]	Conne		F40	42	S.	
SB	16	>	1	9/	>	- [Without ICC]	,		LOWN OF LOWN	43	œ	1
V V V V V V V V V V	17	SB	-	7.7	۵	- [Without ICC]		oron Maline	MINE IO MINE	45	0	-
Fig. 1	18	>	1	7.7	ч	- [With ICC]	Conne	tor Type	SAA36FB-RS8-SHZ8	46	SHIELD	-
1	20	BB	1	78	BR	- [Without ICC]				47	M/L	-
No. Color Color	21	7	-	78	1	- [With ICC]	1	-		48	57	-
Color Colo	22	۸	-	19	٦	- [Without ICC]	1		_	49	0/1	-
No. Color Color	23	9	-	79	٨	- [With ICC]	٦	'n	34 34 34 34 34 34 34 44 44 44 44 44 44 4	20	\sim	-
Y Y C C C C C C C C	24	Ь	-	80	SB	-	 -	Ī	- CE	51	W	-
V	25	٨	-	81	н	-			0	52	17/0	-
W C C C C C C C C C	26	>	1	82	SB	1			िट्यंडर्गाच्यां तक्षका वर्गानवं बर्च बच्च			
G	27	Μ		83	BG							
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W - 86 P - 1 LV R R -	31	BG	-	85	_	-	No	Wire	Digital Island Coperincation			
R R R R R R R R R R	32	Μ	-	98	Ь	-	-	\sim	-			
R	33		1	87	>	1	2	SHELD				
SHELD	45	œ		68	S.	1	F7	B/7				
SHELD	35	9	-	96	SHIELL		4	SHIELD				
V	36	SHIELD	1	16	Μ	-	9	BR	-			
BR - 93 V - 8 W BG - 94 LG - 9 W W - 96 PG - 10 C G - 96 PG - 11 R	37	>		95	٨		7	9	-			
BG	38	BR	1	93	>	1	80	Α.				
W	39	BG	1	94	P.	1	ە 1	*	-			
- d 96	41	*	-	98	BG		2	┞	-	_		
	42	c		96	۵		Ξ	H		_		

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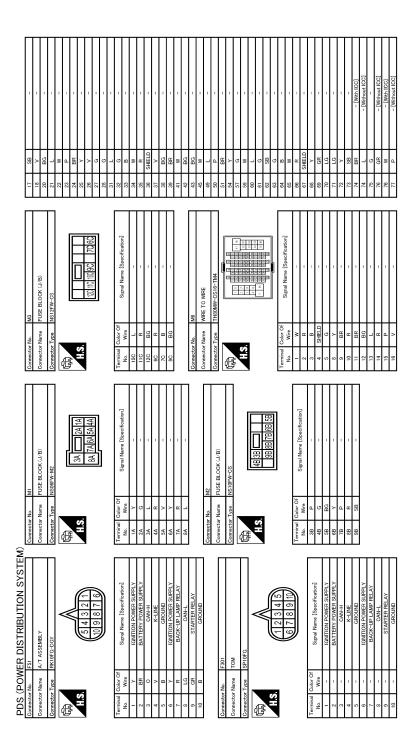
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77 R	- [With ICC]	Conn	Connector No.	M50	22	В	GROUND	Connector No.	M67
78 L	- [With ICC]	į	N.	LIGHT WOLLD IN CHARLE	24	æ	COMMUNICATION SIGNAL (LCD->AMP.)	2	CANA CO. A CHAN CONTROL
78 R	- [Without ICC]	5	Connector Name	POST POLICIA IGINETION SWITCH	25	>	COMMUNICATION SIGNAL (AMP>LCD)	Connector Name	
H	- [Without ICC]	O	Connector Type	TK08FBR	56	œ	VEHICLE SPEED SIGNAL (8-PULSE)	Connector Type	TH32FW-NH
⊦	- [Wrth ICC]				27	>	PARKING BRAKE SWITCH SIGNAL		
80 SB	1	QE	•		28	۸	BRAKE FLUID LEVEL SWITCH SIGNAL	Œ	
┝	1	手		ιь	29	88	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	手	
H	-	_	ď	1 2 3	ş	T	SEAT BELT BLICKLE SWITCH SIGNAL (DASSENGER SIDE)	<u>ن</u>	
╀	1	•		0 2 3 3 4	3 2	T	WASHER LEVEL SWITCH SIGNAL		42 43 44 45 46 47 53
				7 0 0	33	ď	ILLIMINATION CONTROL SIGNAL		57 58 59 60 61 62 63 65 65 69 70 71 72
+	1				36	9	SELECT SWITCH SIGNAL		
98	1				37	a.	FNTER SWITCH SIGNAL		
╀	1	Terminal	inal Color Of	L	38	-	TRIP A/B RESET SWITCH SIGNAL	Terminal Color Of	L
H		No		Signal Name [Specification]	39	۵	ILLUMINATION CONTROL SWITCH SIGNAL (=)		Signal Name [Specification]
90 SHIELD	1	_	m		40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)	41	ACC POWER SUPPLY
H	1	~	>	1		1		42 Y	FUEL LEVEL SENSOR SIGNAL
95 ×	1	e.	>					43 R	INTAKE SENSOR SIGNAL
93 BB		4	a		Connector No		M66	24	2
ł			t			T		ł	L
+	i	1	$^{+}$		Connector Name		UNIFIED METER AND A/C AMP.	+	
+		1	-			1		7	+
M 96	1		>	1	Connector	Type	Connector Type TH40FW-NH	47 G	EXHAUST GAS / OUTSIDE GOOR DETECTING SENSOR SIGNAL
97 L	_	~	۵	-	(53 G	IGNITION POWER SUPPLY
98 SHIELD	-							>4	BATTERY POWER SUPPLY
> 66					主			25 B	GROUND
100 SB		Conn	Connector No.	M53	\ \ \			H	CAN=H
┨						_	5 7 8 9 10 11 14 20	W 22	BPAKE FILID LEVEL SWITCH SIGNAL
		Coun	Connector Name	COMBINATION METER			23 25 2728 30 34 38	ł	ł
Γ],		111		•		+	-
Connector No. M24		Com	Connector Type	I H40F W-NH				95 64 64	1
Connector Name DATA LI	DATA LINK CONNECTOR	4	•			I		+	4
		E	\		ā	Color Of	Simal Nama [Spacification]	61 BR	
Connector Type BD16FW		Ē.	ľ		No.	Wire	OB at twelle Copourcased	62 SB	SUNLOAD SENSOR GROUND
		1	ν: •	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2	٦	MANUAL MODE SHIFT UP SIGNAL	63 R	
			Ī	07 El 01 C 07 F 0 F 0 F 0 F 0 F 0 F 0 F 0 F 0 F 0	7	GR	COMMUNICATION SIGNAL (AMP>METER)	65 BG	ECV SIGNAL
	107			90		_	VEHICLE SPEED SIGNAL (2-PULSE)	7 69	A/C LAN SIGNAL
9	0 14				6	88	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	70 R	EACH DOOR MOTOR POWER SUPPLY
	1 0 1				10	*	MANUAL MODE SIGNAL	71 B	GROUND
	3 4 3 0 7 8	Terminal	inal Color Of		Ξ	c	NON-MANUAL MODE SIGNAL	77 P	CAN-I
		No		Signal Name [Specification]	4	æ	COMMINICATION SIGNAL (LCD=>AMP)		
]			t	BATTERY POWER SLIPPLY	2	-	ION ON/OFF SIGNAL		
Terminal Color Of		ľ	2	COMMINICATION SIGNAL (METER-) AMD)	33	,	AT SNOW SMITCH SIGNAL		
- M-	Signal Name [Specification]	1	3 8	COMMISSION STORY CONTROL (METERS / JAMES)	3 2		TOTAL CHILD TOTAL COLUMN		
+		<u>" </u>	5 1	COMMUNICATION SIGNAL (AMP.=>METER)	S !	}	MANUAL MODE SHIFT DOWN SIGNAL		
3 3 2	1	1	<u>-</u>	GROUND	/2	2	COMMUNICATION SIGNAL (MELER=>AMP.)		
4 B	1	9	۵	ALTERNATOR SIGNAL	28	œ	VEHICLE SPEED SIGNAL (8-PULSE)		
5 B	_	7	BR	AIR BAG SIGNAL	30	>	PARKING BRAKE SWITCH SIGNAL		
7 9	-	10	5	SECURITY SIGNAL	34	Υ	COMMUNICATION SIGNAL (AMP>LCD)		
۷ /		15	В	GROUND	38	Ь	BLOWER MOTOR CONTROL SIGNAL		
5 8	-	16	В	METER CONTROL SWITCH GROUND					
11 SB	1	19	8	ILL GND					
┞	1	20	~	1					
┞	-	2	BG	IGNITION SIGNAL					

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) SOA	(POV	PDS (POWER DISTRIBUTION SYSTEM)	-									
Connector No	No.	M118	Connector No	Γ	M121	80	GR	NATS ANT AMP.	139	_	TIRE PRESSURE RECEIVER COMM	_
Connector Name	- Mama	BOM (BODY CONTROL MODILLE)	Connector Name		BCM (BODY CONTROL MODILLE)	81	W	NATS ANT AMP.	140 G	GR	SHIFT N/P	
O DO DE LOS	nallie Idallie	BOM (BOD) CONTROL MODOLL)	COLLIGO		DOM (DOD) CONTROL MODOLE/	82	ж	IGN RELAY (F/B) CONT	141	g	SECURITY IND LAMP CONT	
Connector Type	Type	M03FB-LC	Connector Type	П	TH40FGY-NH	83	_	KEYLESS ENTRY RECEIVER COMM	142 B	BG	COMBI SW OUTPUT 5	
(ſ	•		87	BR	COMBI SW INPUT 5	143 F	Ь	COMBI SW OUTPUT 1	
1	_		E	_		88	^	COMBI SW INPUT 3	144 (9	COMBI SW OUTPUT 2	
-	_	<u> </u>	=			90	Ь	CAN-L	145	1	COMBI SW OUTPUT 3	
3		1 3	¥	-		91	_	CAN-H	146 S	SB	COMBI SW OUTPUT 4	
					88 88 88 88 88 88 88 88 88 88 88 88 88	92	PC	KEY SLOT ILL CONT	150 L	PC	DRIVER DOOR SW	
		7			7c	93	>	ON IND	151	2	REAR WINDOW DEFOGGER RELAY CONT	
]				94	>	PUDDLE LAMP CONT				
						98	BG	ACC RELAY CONT				
Terminal Color Of	Color Ot	Signal Name [Specification]	Terminal	O	Signal Name [Specification]	96	æ	A/T SHIFT SELECTOR POWER SUPPLY	Connector No.	M125	5	
O	Wire	\downarrow	ō.	Wire		66	~	SHIFT P	Connector Name		WIRE TO WIRE	
-	^	BAT (F/L)	34	SB	LUGGAGE ROOM ANT-	100	IJ	PASSENGER DOOR REQUEST SW		П		
2	٨	POWER WINDOW POWER SUPPLY(BAT)	35	>	LUGGAGE ROOM ANT+	101	SB	DRIVER DOOR REQUEST SW	Connector Type		M03FW-LC	
9	>	POWER WINDOW POWER SUPPLY(RAP)	38	В	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT	[
			39	Μ	BACK DOOR ANT+	103	LG KI	KEYLESS ENTRY RECEIVER POWER SUPPLY	E			
			47	٨	IGN RELAY (IPDM E/R) CONT	107	57	COMBI SW INPUT 1	44			
Connector No.	No.	M119	52	SB	STARTER RELAY CONT	108	œ	COMBI SW INPUT 4	ر ده			
		THOO VIOUV NOO	09	ä	PUSH SW	109	>	COMBI SW INPUT 2			- 4	
Connector Name	r Name		61	*	BACK DOOR OPENER REQUEST SW	110	g	HAZARD SW			3 2	
Connector Type	Type	NS16FW-CS	49	>	I-KEY WARN BUZZER (ENG ROOM)							
			92	BG	REAR WIPER STOP POSITION							
Œ			99	œ	BACK DOOR SW	Connector No.		M123	Terminal Color Of	or Of	3	_
主	_		67	æ	BACK DOOR OPENER SW		Г	THE STREET PROPERTY OF THE PRO	No.	Wire	Signal Name [Specification]	
(2)		4 5 7 8 9 10	89	æ	REAR RH DOOR SW	Connector Name		BCM (BODY CONTROL MODULE)	-	*	1	
		11 13 14 15 17 18 19	69	۳	REAR LH DOOR SW	Connector Type	П	TH40FG-NH	2	Α.	_	
						4			3	2	-	
			Connector No.		M122	ŧ				ŀ		
Ja .	U	Of Simal Nama [Specification]	Connector Name		BCM (BODY CONTROL MODILLE)	3	L	200	Connector No.	M126	3	
No.	Wire	Domourodol pura pu80		П	Communication and a second		9		Connector Name		WIRE TO WIRE	
4	ΓC		Connector Type	П	TH40FB-NH				DODGE ING	П	. 10 mine	
2	_	PASSENGER DOOR UNLOCK OUTPUT	¢						Connector Type	٦	M03MW-LC	
7	>	STEP LAMP CONT					ł		4			
8	>	ALL DOOR, FUEL LID LOCK OUTPUT	ŧ		<u> </u>	ē	Color Of	Signal Name [Specification]	ほ			
6	5	DRIVER DOOR, F	41		17 27 37 75 87 87 87 88 88 88 88 88 88 88 88 88 88	+	Wire		ŧ			
0	BR	REAR DO			CD 20 70 30 00 00 00 00 00 00 00 00 00 00 00 00	113	۵	OPLICAL SENSOR	Ś			
=	œ	BAT (FUSE)		_	आ ।	116	SB	STOP LAMP SW 1			0	
13	8	GROUND				118	Ь	STOP LAMP SW 2			2.3	
14	Μ	PUSH-BUTTON IGNITION SW ILL GND				119	SB	DR DOOR UNLOCK SENSOR				
15	>	ACC IND	Terminal	Color Of		121	BR	KEY SLOT SW				
1.7	Μ	TURN SIGNAL RH (FRONT)	N	Wire	oignal Ivame [opecimoation]	123	W	IGN F/B	Terminal Color Of	or Of	[] N [0]	
18	98	TURN SIGNAL LH (FRONT)	74	SB	PASSENGER DOOR ANT-	124	57	PASSENGER DOOR SW	No.	Wire	oignai itame [opecification]	
19	>	INT ROOM LAMP CONT	75	GR	PASSENGER DOOR ANT+	132	BR	POWER WINDOW SW COMM		Α.	-	
			9/	۸	DRIVER DOOR ANT-	133	W	PUSH-BUTTON IGNITION SWILL POWER	2	٨	-	
			11	ΡΠ	DRIVER DOOR ANT+	134	GR	LOCK IND	3	2	-	
			78	>	ROOM ANT1-	137	BG	RECEIVER/SENSOR GND				
			79	BR	ROOM ANT1+	138	>	RECEIVER/SENSOR POWER SUPPLY				

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT	MONITOR ITEM
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Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
IX WII LIXIII	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIFER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
IN WASHEN SW	Front washer switch ON	On
R WIPER INT	Other than front wiper switch INT	Off
-K WIFEK IIVI	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
-K WIFER STOP	Front wiper is in STOP position	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
KK WASHER SW	Rear washer switch ON	On
DD WIDED STOD	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TUDNI CIONAL D	Other than turn signal switch RH	Off
URN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Other than turn signal switch LH	Off
URN SIGNAL L	Turn signal switch LH	On
TAIL LAND CVA	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
II DE AM CM	Other than lighting switch HI	Off
II BEAM SW	Lighting switch HI	On
IEAD LAMD CIA/A	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
IEAD LAMB OM O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COINO CIVI	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LICLIT CVA	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
FR FOG SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
JOOR SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DOOD CW DK	Back door closed	Off
DOOR SW-BK	Back door opened	On
CDL I OCK CW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
VEV OVI LIK OW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
(E) (O) (I I O) ()	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD CIA/	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TD/DD ODEN CW/	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
DKE I OCK	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
DKE TIMI OCK	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DKE DANIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OF HOAL SENSOR	Dark outside of the vehicle	Close to 0 V
DEO OW DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
DEO 014/ A 0	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
2575/241/21 214/	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
OFT DAYALOW	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
INILK OEN DD	Driver door is unlocked	Off
JNLK SEN -DR	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
ON DLV4 F/D	Ignition switch in OFF or ACC position	Off
GN RLY1 -F/B	Ignition switch in ON position	On
DETE OW IDDA	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
OCT DN IDDM	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On

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Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
OI I I IMEI	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
OI I IN -IVIL I	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINOINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
I KWII ENO OTKI	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The key is not inserted into key slot	Off
INET OW -OLOT	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
OOM NWID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
OONI IRIVI ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
CONFIRM ID3		

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
CONFIRMIDZ	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIDM ID4	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TD 4	The ID of fourth key is not registered to BCM	Yet
TP 4	The ID of fourth key is registered to BCM	Done
TD 0	The ID of third key is not registered to BCM	Yet
TP 3	The ID of third key is registered to BCM	Done
TD 0	The ID of second key is not registered to BCM	Yet
TP 2	The ID of second key is registered to BCM	Done
TD 4	The ID of first key is not registered to BCM	Yet
TP 1	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGST FRT	ID of front RH tire transmitter is not registered	Yet
ID DECCE DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
WADNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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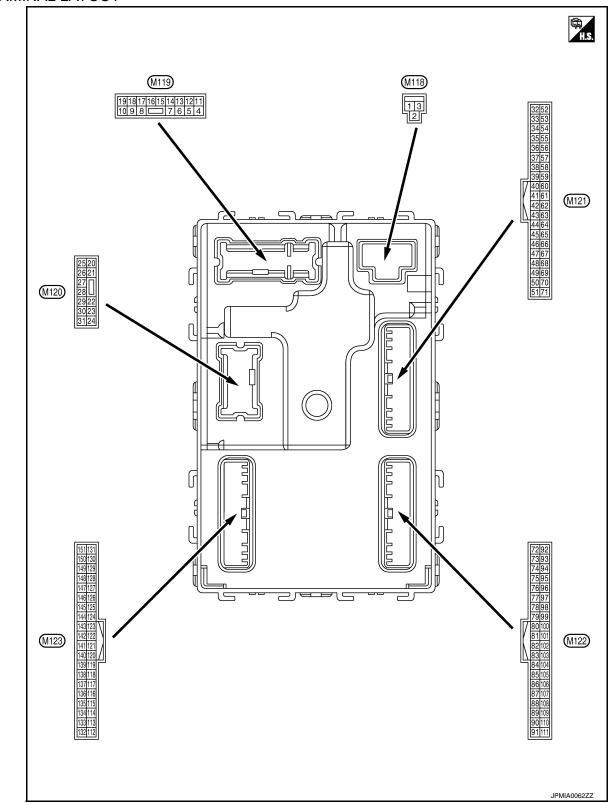
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Α
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	В
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage	С
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage	
4		Interior room lamp			battery saver is activated. oom lamp power supply)	0 V	D
(LG)	Ground	power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage	Е
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	F
(L)	Giouna	LOCK	Output	r asseriger door	Other than UNLOCK (Actuator is not activated)	0 V	
7	Ground	Step lamp	Output	Step lamp	ON	0 V	G
(Y)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage	
8	Ground	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage	H
(V)	Giouna	LOCK	Output	All doors	Other than LOCK (Actuator is not activated)	0 V	
9 (G)	Ground	Driver door, fuel lid	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Oround	UNLOCK	Output	Dilver door	Other than UNLOCK (Actuator is not activated)	0 V	
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage	
(BR)	Oround	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V	k
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	ı
13 (B)	Ground	Ground	_	Ignition switch ON		0 V	
					OFF	0 V	P
14		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position	N
(W)	Ground	switch illumination ground	Output	Tail lamp	ON	10 0 2 ms	F
15		A00:: 1: 1: 1:	O 1 1	1	OFF or ON	Battery voltage	
(Y)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0 V	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19		Room lamp timer	• • •	Interior room	OFF	Battery voltage
(V)	Ground	control	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	0		0.1.1	D. 1.1	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
26	<u> </u>	Descri	0	Description :	OFF (Stopped)	0 V
(G)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	A
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	ВС
34 (SB)	Ground	Luggage room anten- na (–)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E F
35	01	Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 1	G H
(V)	Ground	na (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1	J K L
38	01	Back door antenna (–		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	PCS N
(B)	Ground)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	O

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	Back door antenna	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Glound	(+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
(Y)		E/R) control		3 11 1	ON	0 V
52	Ground	Starter relay control		lgnition switch	When selector lever is in P or N position	Battery voltage
(SB)	Cround	Startor rollay control			When selector lever is not in P or N position	0 V
60		Push-button ignition		Push-button ignition switch (push switch)	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input		Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
		Intelligent Key warn-		Intelligent Key	Sounding	1.0 V 0 V
64 (V)	Ground	ing buzzer (Engine	Output	warning buzzer	Not sounding	Battery voltage
		room)		(Engine room)	140t 30unumg	Dattery voltage
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB
					Not in stop position	1.0 V 0 V
					14οι 111 σιορ ροσιμοτί	U V

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

	inal No.	Description				Value
+ (VVire	e color) –	Signal name	Input/ Output		Condition	(Approx.)
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
					Pressed	0 V
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V

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	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
74	Canada	Passenger door antenna (–)	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Ground			quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(GR)	Clound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
76	Ground	Driver door antenna (−)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	^
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
77		Driver door antenna		When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 1	B C D
(LG)	Ground	(+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E
78	78	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H I
(Y)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	J K L
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	PCS N
79 (BR)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	O P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color) –	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V
(R)	Ground	block (J/B)] control	Output	ignition switch	ON	Battery voltage
83	83 (Y) Ground	Remote keyless entry receiver communication	Input/	During waiting		(V) 15 0 5 0 1 ms JMKIA0064GB
(Y)			Output	When operating e	ither button on the key	(V) 15 10 5 1 ms JMKIA0065GB

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

	inal No.	Description				Value	А
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
				All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D	
87		Combination switch	Input	Combination	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	E F
(BR)	Ground	INPUT 5	mpat	switch	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	G H
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K L

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	inal No. e color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 2 ms 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
90 (P)	Ground	CAN-L	Input/ Output	_		_
91 (L)	Ground	CAN-H	Input/ Output	_		_

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description					
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)	Α
+	_	Oignai name	Output				
92 (LC)	Ground	Key slot illumination	Output	Key slot illumina-	OFF	Battery voltage (V) 15 10 5 0	В
(LG)				tion	ON	1 s JPMIA0015GB 6.5 V 0 V	D E
93					OFF or ACC	Battery voltage	
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V	
94				OFF		Battery voltage	F
(Y)	Ground	Puddle lamp control	Output	Puddle lamp	ON	0 V	
95					OFF	0 V	
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage	G
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output			Battery voltage	Н
99	Ground	Selector lever P posi-	Innut	Input Selector lever	P position	0 V	
(R)	Ground	tion switch	IIIput	Ocicción icven	Any position other than P	Battery voltage	
					ON (Pressed)	0 V	
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	J K L
					ON (Pressed)	0 V	
101 (SB)	Ground	Driver door request switch	Input	Driver door re- quest switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	PCS N
102		Blower fan motor re-			OFF or ACC	0 V	_
(BG)	Ground	lay control	Output	Ignition switch	ON	Battery voltage	
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF		Battery voltage	Р

	inal No. e color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	Turn signal switch LH	(V) 15 10 5 2 ms JPMIA0037GB 1.3 V
107 (LG)					Turn signal switch RH	(V) 15 10 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	value (Approx.)	Δ
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	C
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	F
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	- -
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	PC

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	А
113		O different and a second	11	Ignition switch	When bright outside of the vehicle	Close to 5 V	В
(P)	Ground	Optical sensor	Input	ŎN	When dark outside of the vehicle	Close to 0 V	
116 (SB)	Ground	Stop lamp switch 1	Input	_		Battery voltage	С
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	D
118	Ground	(Without ICC)	Input	Stop lamp switch	ON (Brake pedal is depressed)	Battery voltage	
(P)	Oround	Stop lamp switch 2	input		OFF (Brake pedal is not de- brake hold relay OFF	0 V	Е
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage	F
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB	G H
					UNLOCK status (Unlock switch sensor ON)	1.1 V 0 V	I
121	Ground	Key slot switch	Input		serted into key slot	Battery voltage	
(BR)				When the key is n	ot inserted into key slot	0 V	J
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V Battery voltage	K
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	PCS
					ON (Door open)	0 V	Ν
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0	O P
						JPMIA0013GB 10.2 V	
				Ignition switch OF	F or ACC	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

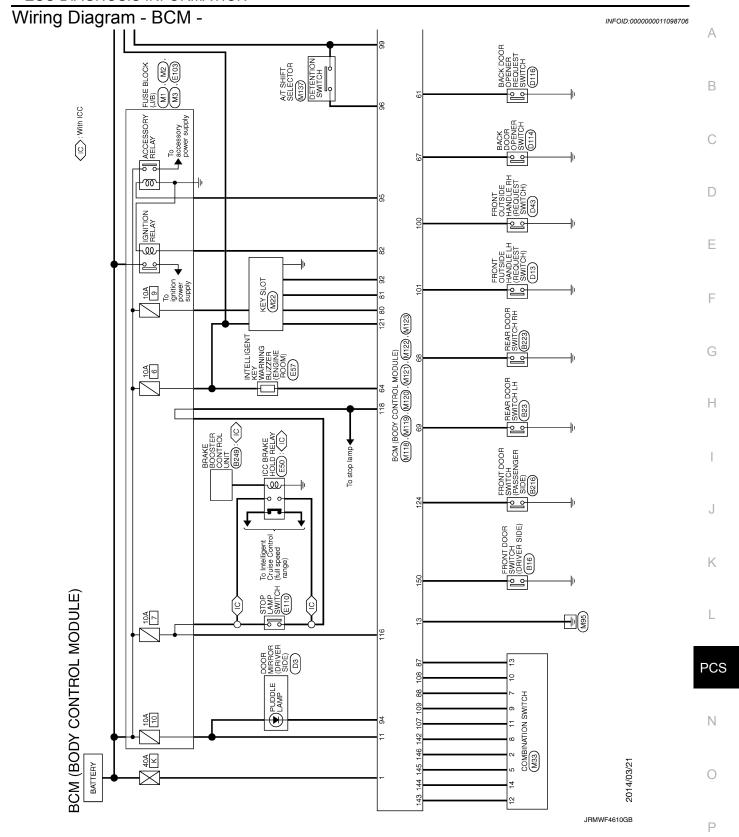
	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output	Condition		Value (Approx.)	
					ON (Tail lamps OFF)	9.5 V	
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB	
					OFF	0 V	
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage	
(GR)		-	'	lamp	ON	0 V	
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V	
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V	
(Y)		power supply			ACC or ON	5.0 V	
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D	
					When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s	
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	Battery voltage	
(GR)	Cround	position	mput	33.33(0) 10 001	Except P and N positions	0 V	
					ON	0 V	
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	
					OFF	11.3 V	
					UFF	Battery voltage	

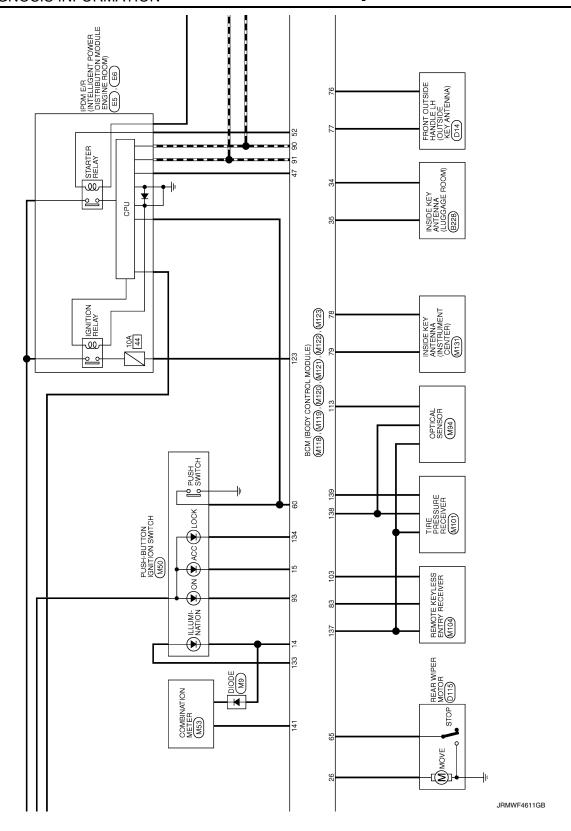
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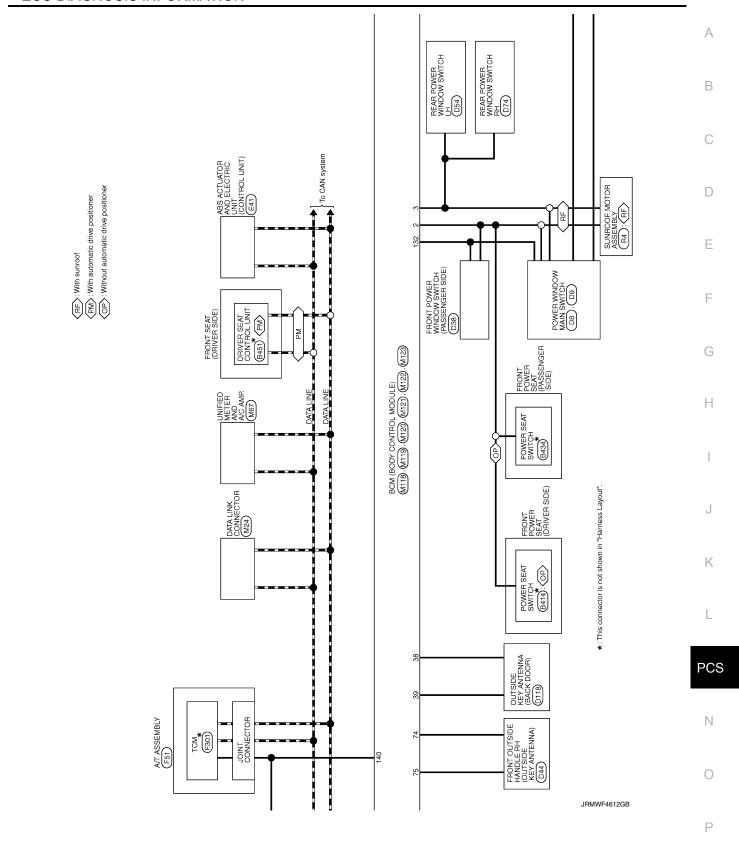
Terminal No. (Wire color)		Description Signal name Input/ Output		Condition		Value (Approx.)	
Turn signal switch RH	2 ms JPMIA0031GB	D					
143 (P)		Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V	Е
					Front wiper switch HI (Wiper intermittent dial 4)		_
	Ground				Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10	F
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2	5 0 2 ms	C
					Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	JPMIA0032GB 10.7 V	F
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch ON (Wiper intermittent dial 4)		
					Rear wiper switch ON (Wiper intermittent dial 4)	(V)	J
					Rear washer switch ON (Wiper intermittent dial 4)	10 5 0	K
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB	L
145 (L)	Ground	Combination switch OUTPUT 3		Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V	PC
			Output		Front wiper switch INT	(1)	
					Front wiper switch LO Lighting switch AUTO	(V) 15 10 5 0	N
						JPMIA0034GB 10.7 V	

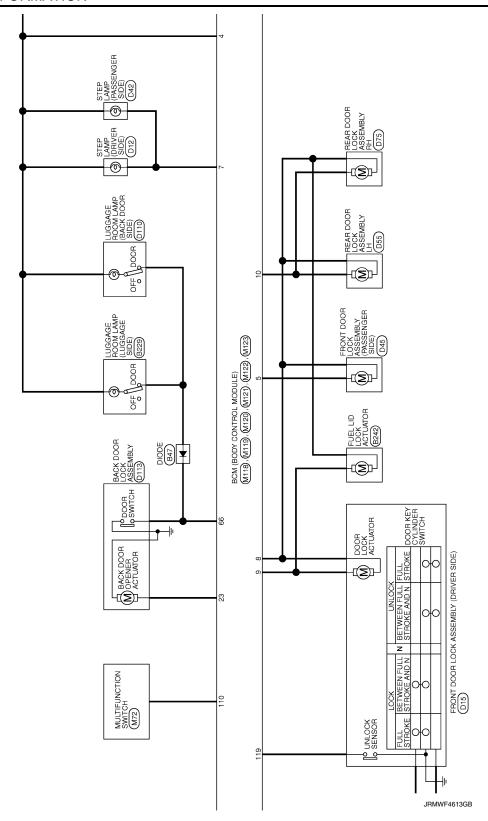
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Terminal No.		Description				Value	
+ (Wire	e color)	Signal name Input/ Output		Condition		(Approx.)	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V	
					Front fog lamp switch ON		
					Lighting switch 2ND	(V)	
					Lighting switch PASS	10	
					Turn signal switch LH	2 ms JPMIA0035GB	
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
					ON (Door open)	0 V	
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(G)	Ground	ger relay control			Not activated	Battery voltage	

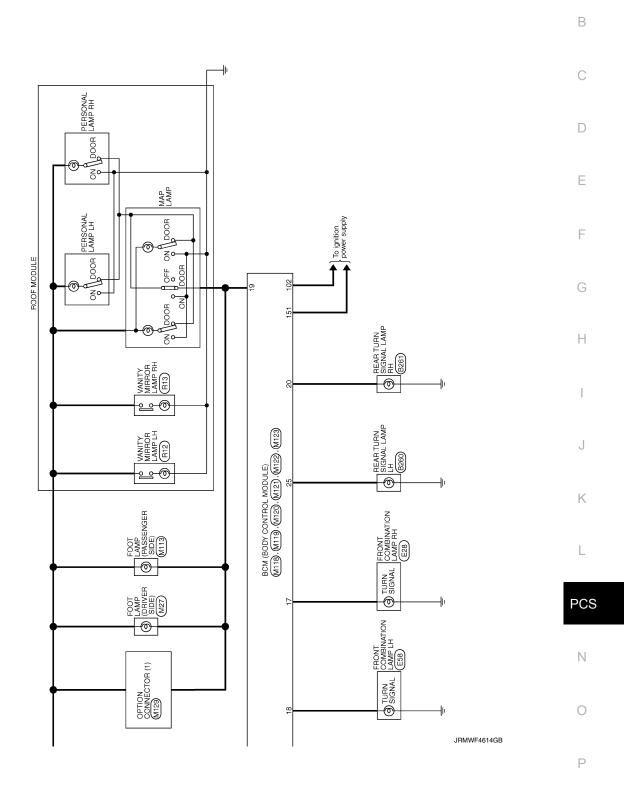




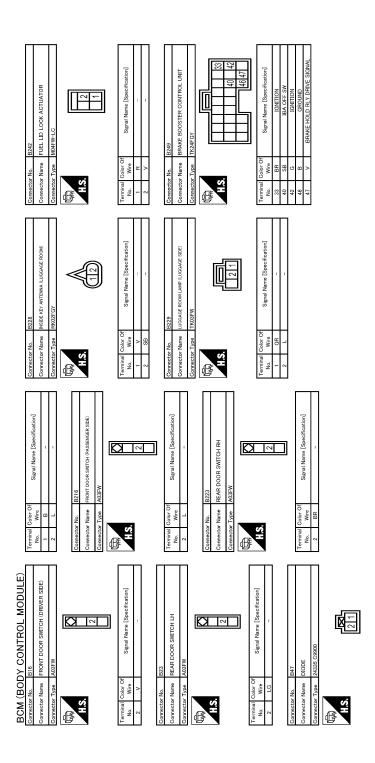




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Revision: February 2015 PCS-107 2015 QX50



JRMWF4748GB

Connector No. B260			
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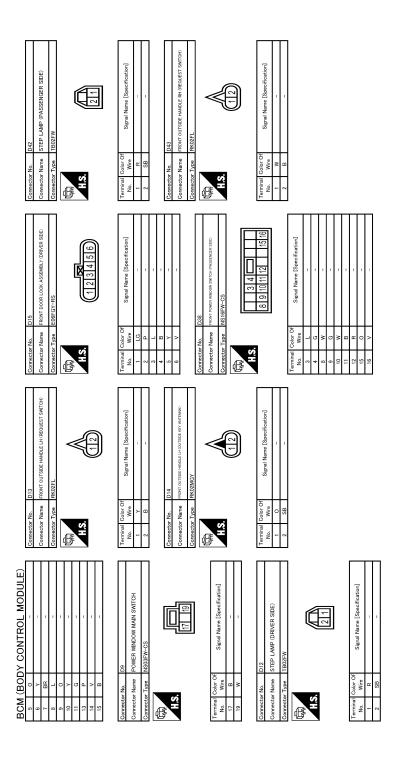
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Revision: February 2015 PCS-109 2015 QX50



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Second connector Name Specification Connector Name Connector Name	Second Name Specification Connector No. Signal Name Specification	Second Connector No. Connector Type Conne
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BCM (BODY CONTROL MODULE)	Connector No. M9	Connector No. M24	Connector No. M33	
Commonder Name (ELICE DI OCA (1/D)	١,	1		
Connector Name FUSE BLOCK (J/ D)	$\overline{}$	Confector Name DATA LINN CONNECTOR	Confector Name COMBINATION SWITCH	
Connector Type INSTORM-CS	Connector Type 24335,C9900	Connector Type BUINFW	Connector Type IH16FW-NH]
4838		11 11 11 16		
	112	3 4 5 6 7 8	7 8 9 10 11 12	13 14
Terminal Color Of Signal Name [Specification]	ication]			
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4B G -	2 W =	4 B -	2 SB OUTPUT 4	
\exists		5 B –	FRW	
- Y 89		- I 9	g	
+	Connector No. M22	+		
- R	Connector Name KEY SLOT	+		
4	т	88 4	> 6	
	Connector Type THIZEW=NH	7 0	8 BG COUIPULS	
- N	4	- A 9	→ C	
Corniector No.	/		2 5	
Connector Name FUSE BLOCK (J/B)		Connector No. M27	2 4	
Connector Type NS12FW-CS	123 56		BR	
	7 11	\neg	14 G OUTPUT 2	
		Connector Type A02FW		
	Terminal Color Of		Connector No. M50	
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	+		Connector Type TK08FBR	
Terminal Color Of	3 W DAIA		Œ	
No. Wire Signal Name [Specification]	. 97			ΙΓ
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7	>	1	Connector No	v No.	M67	Connector No.	M72	Connector No. M101	
00	۵	1	Connector Name	yr Name	UNIFIED METER AND A/C AMP.	Connector Name	MULTIFUNCTION SWITCH	Connector Name TIRE PRESSURE RECEIVER	
			Connector Type	v Type	TH32FW-NH	Connector Type	TH16FW-NH	Connector Type TK04FW	
Connector No.	tor No.	M53	נ	,		ſ		ſ	
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事	-						$\frac{1}{2}$		
1	á	1 2 3 5 6 7 10 15 16 19 20							
		21 22 24 25 25 27 28 29 30 31 33 36 37 38 39 40	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal Color Of No. Wire	F Signal Name [Specification]	Terminal Color Of Signal Name [Specification] No. Wire	
			41	>	ACC POWER SUPPLY	╁	GROUND	1 BG GROUND	
			45	>	FUEL LEVEL SENSOR SIGNAL	3	ACC	2 L SIGNAL	
Terminal		of Signal Name [Specification]	43	ч	INTAKE SENSOR SIGNAL	4	ILL	4 Y BATTERY	
Θ	Wire		44	ΓG	IN-VEHICLE SENSOR SIGNAL	>	ILL CONT		
-	GR	BATTERY POWER SUPPLY	45	Ь	AMBIENT SENSOR SIGNAL	6 SB	AV COMM (H)		
2	LG	COMMUNICATION SI	46	BG	SUNLOAD SENSOR SIGNAL	8 LG	AV COMM (L)	Connector No. M104	
9	GR	COMMUNICATION SIGNAL (AMP>METER)	47	G	EXHAUST GAS / DUTSIDE ODOR DETECTING SENSOR SIGNAL.	9 B	SW GND	GENERAL MARKET BEAMOTE KENT SEE ENTER DECKNOOM	
2	В	GROUND	53	9	IGNITION POWER SUPPLY	14 Y	DISK EJECT SIGNAL	Connector Name REMICTE NETLESS ENTRY RECEIVER	
9	Ь	ALTERNATOR SIGNAL	54	\	BATTERY POWER SUPPLY	16 G	HAZARD ON	Connector Type JAB04FB	
7	BR	AIR BAG SIGNAL	55	В	GROUND				
10	9	SECURITY SIGNAL	56	٦	CAN-H				
15	В	GROUND	57	Μ	BRAKE FLUID LEVEL SWITCH SIGNAL	Connector No.	M94		
16	В	METER CONTROL SWITCH GROUND	28	BR	FUEL LEVEL SENSOR GROUND	-	GOSINIS INCITAC		
19	В	IFF GND	59	GR	INTAKE SENSOR GROUND	confidence Name		112 4	
20	ч	ILL.	09	٦	IN-VEHICLE SENSOR GROUND	Connector Type	TK03FW		
21	BG	IGNITION SIGNAL	61	BR	AMBIENT SENSOR GROUND	[
22	В	GROUND	62	SB	SUNLOAD SENSOR GROUND	le de			
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)	63	ď	_			Terminal Color Of	
25	\	COMMUNICATION SIGNAL (AMP>LCD)	92	BG	ECV SIGNAL	Ş.		No. Wire Signal Name Lopecinication	
26	ď	VEHICLE SPEED SIGNAL (8-PULSE)	69	٦	A/C LAN SIGNAL		1 2 3	1 BG GROUND	
27	^		70	ч	EACH DOOR MOTOR POWER SUPPLY		0 7 1	2 Y SIGNAL OUTPUT	
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL	7.1	В	GROUND			4 LG BATTERY	
58	SB	SEAT BELT BUCKLE SWTCH SIGNAL (DRIVER SIDE)	72	Ь	CAN-L				
30	5	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)				Terminal Color Of	4		
31	1	WASHER LEVEL SWITCH SIGNAL				No. Wire	olgnal Name [opecimication]		
33	В	ILLUMINATION CONTROL SIGNAL				٦.	POWER		
36	ΓC	SELECT SWITCH SIGNAL				2 P	OUTPUT		
37	SB					3 B	GROUND		
38	٦	TRIP A/B RESET SWITCH SIGNAL							
39	Ь	ILLUMINATION CONTROL SWITCH SIGNAL (-)							
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BC)M (BO	BCM (BODY CONTROL MODULE)				
139	7 6.	TIRE PRESSURE RECEIVER COMM	Connector No.		M137	Connector No. R12
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141	1 6	SECURITY IND LAMP CONT	Connector		/ Shiri Selector	
142	.2 BG	COMBI SW OUTPUT 5	Connector Type	П	TH12FW-NH	Connector Type MCA02FW
143	З.	COMBI SW OUTPUT 1				
144	.4 G	COMBI SW OUTPUT 2				
145	2 F	COMBI SW OUTPUT 3			<u> </u>	
146	e SB	COMBI SW OUTPUT 4	1.5		1001	
150	.0 LG	DRIVER DOOR SW			c 7	<u> </u>
151	.1 G	REAR WINDOW DEFOGGER RELAY CONT			7 8 9 10 11	7
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2	Connector Name	OPTION CONNECTOR (1)	No.	Wire	olgilai ivallie Lopecilicauorij	No. Wire Signal Marine [Specification]
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ţ.	Ţ		5	9		Connector No. R13
	Ŋ	c	7	ď	1	OCCUPANT COCCUPANT CONTRACTOR CON
	l	2	89	SB	-	
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9	~	-	Connector Name		SUNROOF MOTOR ASSEMBLY	7
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5	connector No.	┰	₫.			
Conn	Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)	新			╁
Com	Connector Type	RKO2EGY	S		1	- 2
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			No.	Wire	Signal Name [Specification]	
			-	GR.	SW-BIT1	
			2	۵	SW-BIT0	
Term	erminal Color Of	JC St. St. St. St.	7	BR	8 +	
Š	4		80	٦	SPEED SENSOR(2P)	
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FAIL-SAFE CONTROL BY DTC BCM performs fail-safe control when any DTC are detected.

Fail-safe

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stops.
- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Priority	DTC	
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION	
	 B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	
4	B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: ACC RELAY CIRC	
	 B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM 	
	 B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL	
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	
6	B2621: INSIDE ANTENNA B2623: INSIDE ANTENNA	

DTC Index

NOTE:

The details of time display are as follows.

- · CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-19, "COM-MON ITEM"</u>.

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_		_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-42
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-43
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-44
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

· LOO DIAGNOOIG IN ONW					
CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-44
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-45
B2195: ANTI SCANNING	×	_	_	_	SEC-46
B2553: IGNITION RELAY	_	×	_	_	PCS-51
B2555: STOP LAMP	_	×	_	_	SEC-47
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-49
B2557: VEHICLE SPEED	×	×	×	_	SEC-51
B2560: STARTER CONT RELAY	×	×	×	_	SEC-52
B2562: LOW VOLTAGE	_	×	_	_	BCS-45
B2601: SHIFT POSITION	×	×	×	_	SEC-53
B2602: SHIFT POSITION	×	×	×	_	SEC-56
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-59
B2604: PNP SW	×	×	×	_	SEC-62
B2605: PNP SW	×	×	×	_	SEC-64
B2608: STARTER RELAY	×	×	×	_	SEC-66
B260A: IGNITION RELAY	×	×	×	_	PCS-53
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-68
B2614: ACC RELAY CIRC	_	×	×	_	PCS-55
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-58
B2616: IGN RELAY CIRC	_	×	×	_	PCS-61
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-71
B2618: BCM	×	×	×	_	PCS-64
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-73
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-76</u>
B2621: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E1: ENG STATE NO RES	×	×	×	_	SEC-69
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-70
C1704: LOW PRESSURE FL	_	_	_	×	WT-24
C1705: LOW PRESSURE FR	_	_	_	×	
C1706: LOW PRESSURE RR	_	_	_	×	
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	<u>WT-26</u>
C1710: [NO DATA] RR	_	_	_	×	
C1711: [NO DATA] RL	_	_	_	×	

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	_	_	_	×	WT-29
C1717: [PRESSDATA ERR] FR	_	_	_	×	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV1-29</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-33</u>

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

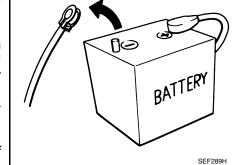
 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000010596292

INFOID:0000000011061407

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

PRECAUTIONS

< PRECAUTION >

[POWER DISTRIBUTION SYSTEM]

- Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

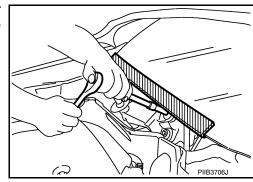
NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT.

Precaution for Procedure without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



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Revision: February 2015 PCS-123 2015 QX50

PUSH-BUTTON IGNITION SWITCH DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

SYMPTOM DIAGNOSIS

PUSH-BUTTON IGNITION SWITCH DOES NOT OPERATE

Description INFOID:000000010596294

Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

NOTE:

The engine start function, door lock function, power distribution system, and NATS-IVIS/NVIS in the Intelligent Key system are closely related to each other regarding control. The vehicle security function can operate only when the door lock and power distribution system are operating normally.

Conditions of Vehicle (Operating Conditions)

- "ENGINE START BY I-KEY" in "WORK SUPPORT" is ON when setting on CONSULT.
- Intelligent Key is not inserted in key slot.
- One or more of Intelligent Keys with registered Intelligent Key ID is in the vehicle.

Diagnosis Procedure

FOID:0000000010596295

1. CHECK INTELLIGENT KEY SYSTEM (DOOR LOCK FUNCTION)

Lock/unlock door with door request switch.

Refer to DLK-19, "DOOR LOCK FUNCTION: System Description".

Is the operation normal?

YES >> GO TO 2.

NO >> Check Intelligent Key system (door lock function). Refer to <u>DLK-182, "ALL DOOR : Diagnosis Procedure".</u>

2.PERFORM WORK SUPPORT

Perform "INSIDE ANT DIAGNOSIS" on Work Support of "INTELLIGENT KEY".

Refer to DLK-51, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

>> GO TO 3.

3. PERFORM SELF-DIAGNOSTIC RESULT

Perform Self-Diagnostic Result of "BCM".

Is DTC detected?

YES >> Refer to <u>DLK-58</u>, "<u>DTC Logic"</u> (instrument center), <u>DLK-60</u>, "<u>DTC Logic"</u> (luggage room).

NO >> GO TO 4.

4.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to PCS-68. "Component Function Check".

Is the operation normal?

YES >> GO TO 5.

NO >> Repair or replace malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR DOES NOT IL-LUMINATE

Description

- Before performing the diagnosis in the following table, check "Work Flow". Refer to PCS-37, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- "ENGINE START BY I-KEY" in "WORK SUPPORT" is ON when setting on CONSULT.
- One or more of Intelligent Keys with registered Intelligent Key ID is in the vehicle.

Diagnosis Procedure

1. CHECK PUSH-BUTTON IGNITION SWITCH INDICATOR

Check push-button ignition switch indicator.

Refer to PCS-70, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

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Revision: February 2015 PCS-125 2015 QX50

PUSH-BUTTON IGNITION SWITCH

< REMOVAL AND INSTALLATION >

[POWER DISTRIBUTION SYSTEM]

REMOVAL AND INSTALLATION

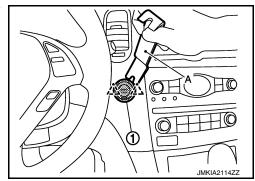
PUSH-BUTTON IGNITION SWITCH

Removal and Installation

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REMOVAL

Remove the push-button ignition switch fixing pawl using a remover tool (A), and then remove push-button ignition switch (1).



INSTALLATION

Install in the reverse order of removal.