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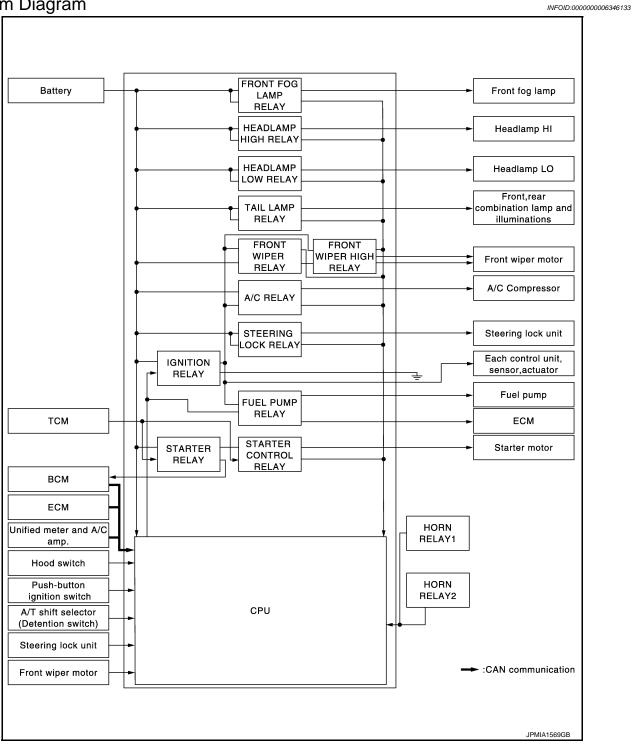
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SYSTEM DESCRIPTION

RELAY CONTROL SYSTEM

System Diagram



NOTE:

Steering lock relay and steering lock unit, as shown in the system diagram, are for models with steering lock unit only.

System Description

INFOID:0000000006346134

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.

CAUTION:

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-11 (Xenon headlamp) EXL-224 (Halogen headlamp)	
Front fog lamp relay	Front fog light request signal	BCM (CAN)	Front fog lamp	EXL-24 (Xenon headlamp) EXL-224 (Halogen headlamp)	
Tail lamp relay	Position light request signal	BCM (CAN)	Parking lamp Side marker lamp License plate lamp Tail lamp	EXL-28 (Xenon headlamp) EXL-237 (Halogen headlamp)	
			Illuminations	INL-12	
 Front wiper relay 	Front wiper request signal	BCM (CAN)	Front wiper	<u>WW-5</u>	
 Front wiper high relay 	Front wiper stop position signal	Front wiper motor	Tront wiper		
Horn relay 1 Horn relay 2	Theft warning horn request signalHorn reminder signal	BCM (CAN)	Horn (low) Horn (high)	SEC-20	
NOTE	Starter control relay signal	BCM (CAN)	Starter motor	<u>SEC-106,</u> SEC-104	
 Starter relay^{NOTE} Starter control relay 	Steering lock unit condition signal	Steering lock unit			
Starter control relay	Starter relay control signal	TCM		<u>020-104</u>	
	Steering lock relay signal	BCM (CAN)		SEC-98	
Steering lock relay*	Steering lock unit condition signal	Steering lock unit	Steering lock unit*		
Steering lock relay	A/T shift selector (Detention switch) signal	A/T shift selector (Detention switch)	Clooming room arm		
A/C relay	A/C compressor request signal	ECM (CAN)	A/C compressor (magnet clutch)	HAC-40	
Ignition relay	Ignition switch ON signal	BCM (CAN)			
	Vehicle speed signal	Unified meter and A/C amp. (CAN)	Ignition relay	PCS-16	
	Push-button ignition switch signal	Push-button ignition switch			

^{*:} For models with steering lock unit only.

NOTE:
BCM controls the starter relay.

RELAY CONTROL SYSTEM

[IPDM E/R]

Component Parts Location

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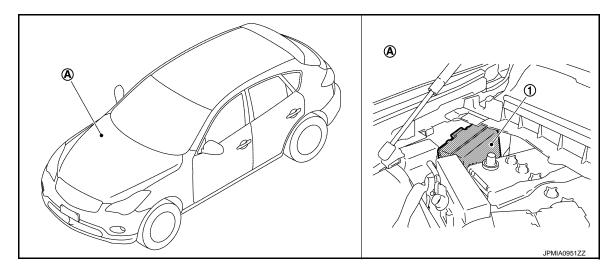
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- 1. IPDM E/R
- A. Engine room dash panel (RH)

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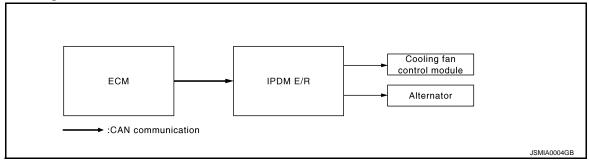
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POWER CONTROL SYSTEM

System Diagram

INFOID:0000000006346136



System Description

INFOID:0000000006346137

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-83, "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-8, <a href="System Diagram".

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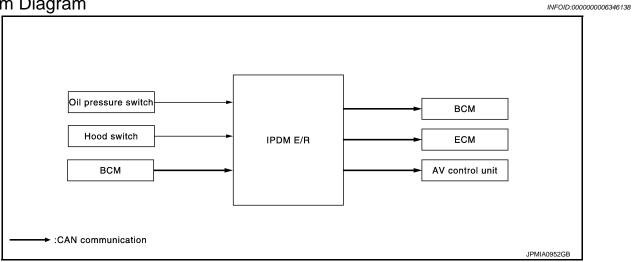
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SIGNAL BUFFER SYSTEM

System Diagram



System Description

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- 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 https://www.mcm.nication.ni
- IPDM E/R reads the status of the hood switch and transmits the hood switch signal to BCM via CAN communication. Refer to SEC-115, "Description".
- 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".

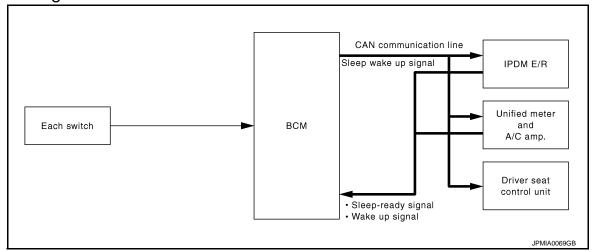
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POWER CONSUMPTION CONTROL SYSTEM

System Diagram

INFOID:0000000006346140



System Description

INFOID:0000000006346141

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.

Component Parts Location

INFOID:0000000006346142

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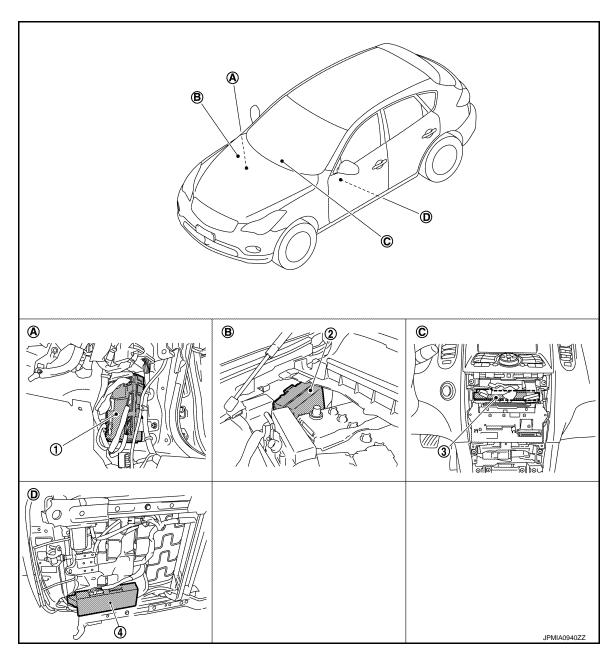
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- 1. BCM
- 4. Driver seat control unit
- A. Dash side lower (passenger side)
- D. Backside of the seat cushion (driver seat)
- 2. IPDM E/R
- B. Engine room dash panel (RH)
- 3. Unified meter and A/C amp.
- C. Behind cluster lid C

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DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000006346143

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.

- Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- 5. 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-66</u>, "Component Function Check".
- Do not start the engine.

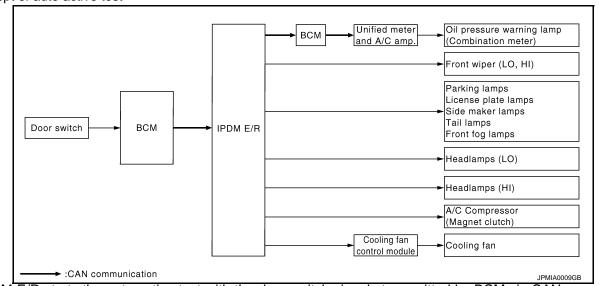
Inspection in Auto Active Test Mode

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.

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
Side maker lamps	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
Oil pressure warning lamp does not operate	Perform auto active test.	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R
	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

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DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[IPDM E/R]

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-III Function (IPDM E/R)

INFOID:0000000006346144

APPLICATION ITEM

CONSULT-III 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-31, "DTC Index".

DATA MONITOR

Monitor item

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.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[IPDM E/R]

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Monitor Item [Unit]	MAIN SIG- NALS	Description
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: For models without steering lock unit, this item is not monitored.
DTRL REQ [Off/On]		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	Operates the front wiper relay.	
	Hi	Operates the front wiper relay and front wiper high relay.	

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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.
MOTOR 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.
EXTERNAL EXIVIT	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.
	Fog	Operates the front fog lamp relay.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000006346145

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-III display description	DTC Detection Condition	Possible cause	ı
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:0000000006346147

1.PERFORM SELF DIAGNOSTIC

- 1. Turn the ignition switch ON and wait for 2 seconds or more.
- 2. 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-42, "Intermittent Incident".

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B2098 IGNITION RELAY ON STUCK

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

B2098 IGNITION RELAY ON STUCK

Description INFOID:000000006346148

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-III dis- play description	DTC Detection Condition	Possible causes
B2098	IGN RELAY ON	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)	

Diagnosis Procedure

INFOID:0000000006346150

2011 EX

1.PERFORM SELF DIAGNOSIS

- 1. Turn the ignition switch ON.
- 2. Erase "Self Diagnostic Result" of IPDM E/R.
- 3. Turn the ignition switch OFF, and wait for 1 second or more.
- 4. Turn the ignition switch ON. Check "Self Diagnostic Result" again.

Is DTC "B2098" displayed?

YES >> Replace IPDM E/R.

NO >> Refer to GI-42, "Intermittent Incident".

B2099 IGNITION RELAY OFF STUCK

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

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B2099 IGNITION RELAY OFF STUCK

Description INFOID:0000000006346151

 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-III dis- play description	DTC Detection Condition	Possible causes
B2099	IGN RELAY OFF	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)	

NOTE:

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

Diagnosis Procedure

INFOID:0000000006346153

1.PERFORM SELF DIAGNOSIS

- 1. Turn the ignition switch ON.
- Erase "Self Diagnostic Result".
- 3. Turn the ignition switch OFF.4. Turn the ignition switch ON. Check "Self Diagnostic Result" again.

Is DTC "B2099" displayed?

YES >> Replace IPDM E/R.

NO >> Refer to GI-42, "Intermittent Incident".

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006346154

2011 EX

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 blown.

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.

(1	+)	(-)	Voltage (Approx.)
IPDN	M E/R	(-)	
Connector	Connector Terminal		
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	Giodila	Existed	
E6	41		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

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

Reference Value INFOID:0000000006346155

VALUES ON THE DIAGNOSIS TOOL

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 0.01 D. D.F.O.	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AUTC	(Light is illuminated)	On
	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 WID DEO		Front wiper switch INT	1LOW
FR WIP REQ		Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	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
ION DIVA DEO	Ignition switch OFF or ACC		Off
IGN RLY1 -REQ	Ignition switch ON		On
ION DLV	Ignition switch OFF or ACC		Off
IGN RLY	Ignition switch ON		On
DUCH CW	Release the push-button ignition	n switch	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
CT DLV CONT	Ignition switch ON		Off
ST RLY CONT	At engine cranking		On
IUDT DI V DEO	Ignition switch ON		Off
IHBT RLY -REQ	At engine cranking	On	

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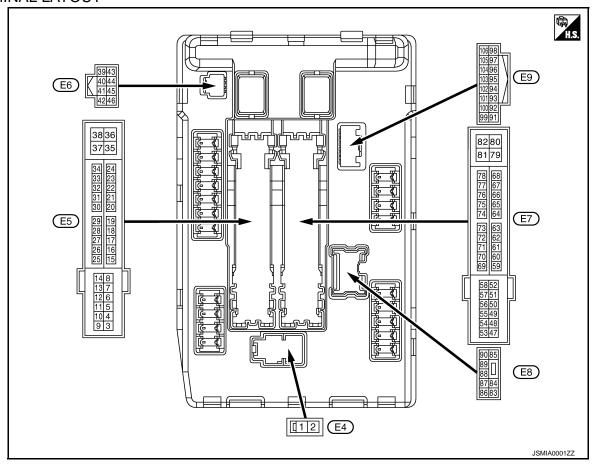
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	ndition	Value/Status
	Ignition switch ON		Off
	At engine cranking	INHI ON \rightarrow ST ON	
ST/INHI RLY	The status of starter relay or starter the battery voltage malfunction, etc. starter control relay is OFF	UNKWN	
DETENT SW	 Press the selector button with selector lever in P position Selector lever in any position other than P 		Off
	Release the selector button with se	lector lever in P position	On
S/L RLY -REQ	None of the conditions below are pr	resent	Off
NOTE: For models without steering lock unit, this item is not monitored.	seconds)	iver door after the ignition switch is turned OFF (for a few ush-button ignition switch when the steering lock is activat-	
S/L STATE	Steering lock is activated	LOCK	
NOTE: For models without steering	Steering lock is deactivated	UNLOCK	
lock unit, this item is not monitored.	[DTC: B210A] is detected	UNKWN	
DTRL REQ	NOTE: The item is indicated, but not monit	Off	
OIL D CW	Ignition switch OFF, ACC or engine	Open	
OIL P SW	Ignition switch ON	Close	
HOOD SW	Close the hood	Off	
HOOD SW	Open the hood	On	
HL WASHER REQ	NOTE: The item is indicated, but not monit	ored.	Off
	Not operation	Off	
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE S TEM	On	
HODN CHIRD	Not operating		Off
HORN CHIRP	Door locking with Intelligent Key (ho	orn chirp mode)	On
CRNRNG LMP REQ	NOTE: The item is indicated, but not monit	Off	

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	Description				Value	
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage	
2 (L)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage	
4	Ground	Front wiper LO	Output	Ignition	Front wiper switch OFF	0 V	
(V)	Giodila	Tiont wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage	
5	Ground	Front wiper HI	Output	Ignition	Front wiper switch OFF	0 V	
(L)	Giodila	Tiont wiper in	Output	switch ON	Front wiper switch HI	Battery voltage	
7	Ground	Tail, license plate lamps &	Output	Ignition	Lighting switch OFF	0 V	
(R)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage	
				Ignition switch OFF	A few seconds after opening the driver door	Battery voltage	
11* ² (BR)	Ground	Steering lock unit power supply	Output	Ignition switch LOCK	Press the push-button ig- nition switch	Battery voltage	
				Ignition swi	tch ACC or ON	0 V	
12 (B/W)	Ground	Ground	_	Ignition swi	tch ON	0 V	

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value										
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)										
13					tely 1 second or more after ignition switch ON	0 V										
(Y)	Ground	Fuel pump power supply	Output		nately 1 second after turning on switch ON unning	Battery voltage										
16				Ignition	Front wiper stop position	0 V										
(LG)	Ground	Front wiper auto stop	Input	switch ON	Any position other than front wiper stop position	Battery voltage										
19	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V										
(W)	Giodila	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage										
25	Ground	lanition rolay nower cumply	Output	Ignition swi	tch OFF	0 V										
(G)	Giound	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage										
26* ¹	Graves	Ignition relay news are a	Outerit	Ignition swi	tch OFF	0 V										
(R)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage										
27		1	1.	Ignition swi	tch OFF or ACC	Battery voltage										
(BG)	Ground	Ignition relay monitor	Input	Ignition swi	tch ON	0 V										
28		Push-hutton ignition	Push-hutton ignition	Push-hutton ignition	Push-button ignition		Press the push-button ignition switch		0 V							
(L)	Ground	switch	Input	Release the push-button ignition switch		Battery voltage										
30	Ground	d Starter relay control	Starter relay control	Starter relay control	Starter relay control	Starter relay control	Starter relay control	and Starter relay control	Input	Ignition	Selector lever in any position other than P or N	0 V				
(GR)	(GR)		IIIput	switch ON	Selector lever P or N	Battery voltage										
32* ²		Steering lock unit condi-		Steering lo	ck is activated	0 V										
3∠ (L)	Ground	tion-1	Input	Steering lock is deactivated		Battery voltage										
33* ²		Steering lock unit condi-		Steering lock is activated		Battery voltage										
(P)	Ground	tion-2	Input	Steering lo	ck is deactivated	0 V										
36 (G)	Ground	Battery power supply	Input	Ignition swi		Battery voltage										
39 (P)	_	CAN-L	Input/ Output		_	_										
40 (L)	_	CAN-H	Input/ Output		_	_										
41 (B/W)	Ground	Ground	_	Ignition swi	tch ON	0 V										
42	Ground	Cooling fan roley central	Input	Ignition switch OFF or ACC		0 V										
(Y)	Ground	Cooling fan relay control	Input	Ignition swi	tch 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 button (selector lever P)	0 V										
44	Ground	Horn rolay control	Input	The horn is	deactivated	Battery voltage										
(BR)	Ground	Horn relay control	Input	The horn is	activated	0 V										
45	Granad	Anti thoft harn ralay control	lnn:-t	The horn is	deactivated	Battery voltage										
(G)	Ground	Anti theft horn relay control	Input	The horn is	activated	0 V										

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value																		
+ (VVIre	- color)	Signal name	Input/ Output		Condition	(Approx.)																		
46 (R)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V																		
			SWILCH OIN	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																		
49				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	witch OFF w seconds after turning igni-	Battery voltage																		
51	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V																		
(Y)	Giodila	iginilori relay power suppry	Output	Ignition swi	tch ON	Battery voltage																		
53																						Ignition swi (More than ignition swi	a few seconds after turning	0 V
(W)		elay power supply Output	Ignition sIgnition s(For a fertion switch	witch OFF w seconds after turning igni-	Battery voltage																			
54		Throttle control motor re-		Ignition swi (More than ignition swi	a few seconds after turning	0 V																		
(P)	(-round	()LITOLIT		switch ON switch OFF w seconds after turning igni- ch OFF)	Battery voltage																			
55 (SB)	Ground	ECM power supply	Output	Ignition swi	tch OFF	Battery voltage																		
56	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V																		
(LG)	Cround	ignition rolay power supply	Output	Ignition swi	tch ON	Battery voltage																		
57	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V																		
(G)	Ciddia	igination rotaly power supply	Calput	Ignition swi	tch ON	Battery voltage																		
58	Ground	Ignition relay power supply	Output	Ignition swi		0 V																		
(V)		3 -71	- 1	Ignition swi		Battery voltage																		
69 (BR) Ground		nd ECM relay control												Ignition swi (More than ignition swi	a few seconds after turning	Battery voltage								
	Ground		Output	Ignition s Ignition s (For a fertion switch)	witch OFF w seconds after turning igni-	0 – 1.5 V																		
70		The will be a second of		Ignition swi	tch ON \rightarrow OFF	0 − 1.0 V ↓ Battery voltage																		
70 (BG)	Ground	Throttle control motor re- lay control	Output	igililon swi	ION 7 OFF	battery voltage																		
				Ignition swi	tch ON	0 – 1.0 V																		

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value						
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)						
74			Output	Ignition swi	itch OFF	0 V						
(P)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage						
75				Ignition Engine stopped		0 V						
(SB)	Ground	Oil pressure switch	Input	switch ON	Engine running	Battery voltage						
				Ignition switch ON		(V) 6 4 2 0 2 2ms JPMIA0001GB 6.3 V						
76 (Y)	Ground	Power generation command signal	Output -	Output	Output	Output	Output	Output	Output		on "ACTIVE TEST", "AL- R DUTY" of "ENGINE"	(V) 6 4 2 0 2 2ms JPMIA0002GB 3.8 V
				80% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2 2 0 2 2 1 3 3 3 4 4 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						
77	Ground	Fuel pump relay control	Output		nately 1 second after turning on switch ON unning	0 – 1.0 V						
(R)		, , ,	·		tely 1 second or more after	Battery voltage						
80 (W)	Ground	Starter motor	Output	turning the ignition switch ON At engine cranking		Battery voltage						
83	Ground	Headlamp LO (RH)	Output	Ignition	Lighting switch OFF	0 V						
(BG)		, , ,		switch ON	Lighting switch 2ND	Battery voltage						
84	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V						
(V)				SWILCH ON	Lighting switch 2ND	Battery voltage						
86 (W)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch OFF Front fog lamp switch ON Daytime running light activated (Only for Canada)	0 V Battery voltage						

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					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	
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				Lawition	Lighting switch OFF	0 V	
(P)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage	
91	Ground	Darking James (DH)	Output	Ignition	Lighting switch OFF	0 V	
(P)	Ground	Parking lamp (RH)	Output	switch ON	Lighting switch 1ST	Battery voltage	
92	Ground	Parking lamp (LH)	Output	Ignition	Lighting switch OFF	0 V	
(BG)	Ground	Faiking lamp (Lin)	Output	switch ON	Lighting switch 1ST	Battery voltage	
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 – 5 V	
104	Ground	Hood switch	Input	Close the h	nood	Battery voltage	
(LG)	Giouila	TIOOU SWILCH	iriput	Open the h	ood	0 V	

^{*1:} Only for the models with ICC system

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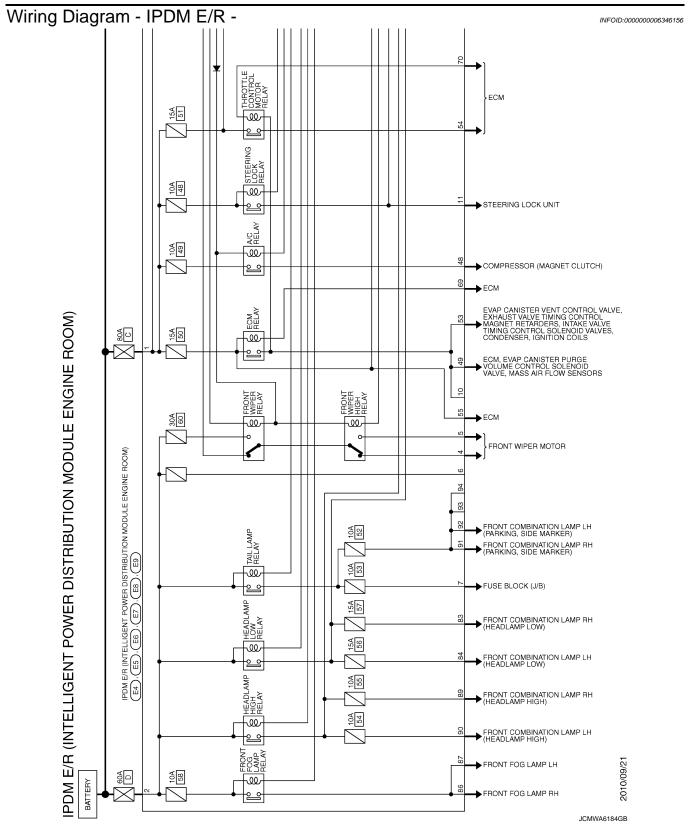
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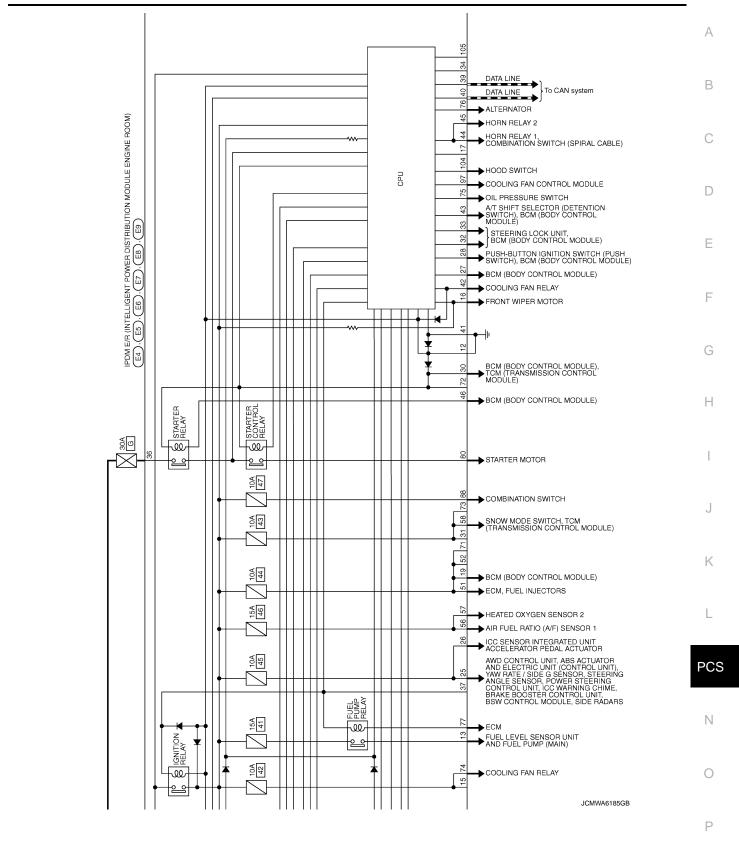
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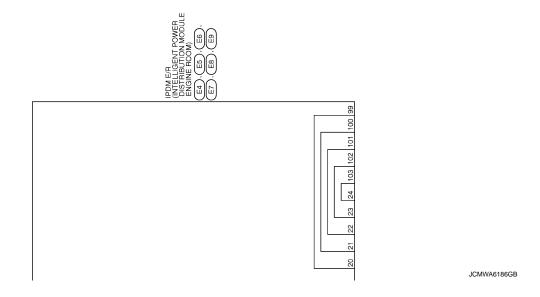
^{*2:} Models with steering lock unit

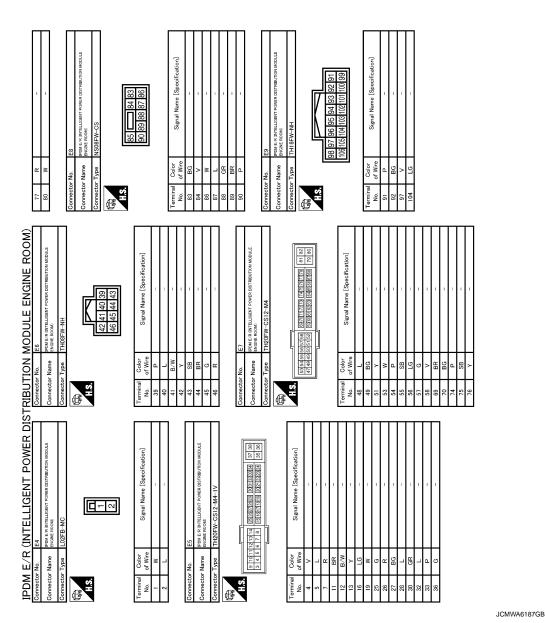
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Fail-safe INFOID:0000000006346157

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%

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	
Steering lock unit*	Steering lock relay OFF	

^{*:} For models with steering lock unit

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
- 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			
Ignition relay contact side	Ignition relay excitation coil side	IPDM E/R judgment	Operation
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.

< ECU DIAGNOSIS INFORMATION >

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	The front wiper stop position signal does not change for 10 seconds.

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:0000000006346158

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 ightarrow 2 \cdots 38 ightarrow 39 after returning to the normal condition whenever IGN OFF ightarrow
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

		×: Applicable
CONSULT display	Fail-safe	Reference
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-15
B2098: IGN RELAY ON	×	PCS-16
B2099: IGN RELAY OFF	_	PCS-17
B2108: S/L RELAY ON*	_	<u>SEC-98</u>
B2109: S/L RELAY OFF*	_	<u>SEC-99</u>
B210A: S/L STATE SW*	_	SEC-100
B210B: START CONT RLY ON	_	SEC-104
B210C: START CONT RLY OFF	_	SEC-105
B210D: STARTER RELAY ON	_	SEC-106
B210E: STARTER RELAY OFF	_	<u>SEC-107</u>
B210F: INTRLCK/PNP SW ON	_	SEC-109
B2110: INTRLCK/PNP SW OFF	_	<u>SEC-111</u>

^{*:} For models without steering lock unit, this DTC is not applied.

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PRECAUTIONS

< 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 Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000006856751

CAUTION:

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

- 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.

- Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

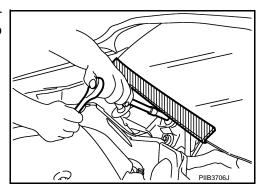
PRECAUTIONS

< PRECAUTION > [IPDM E/R]

- 4. 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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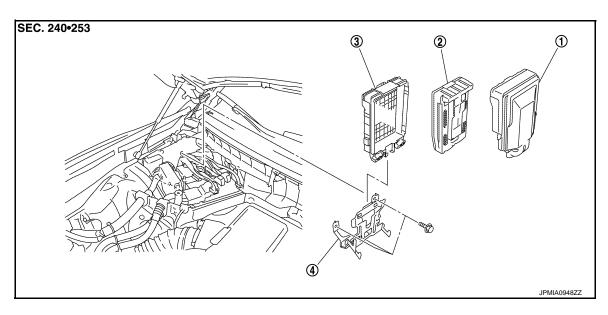
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< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

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

Exploded View INFOID:0000000006346161



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

3. IPDM E/R cover B

4. Bracket

Removal and Installation

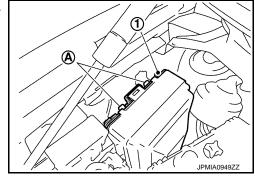
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CAUTION:

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

REMOVAL

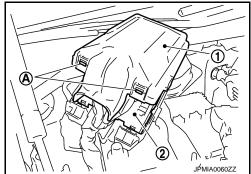
- Disconnect the battery cable from the negative terminal.
- Remove the cowl top cover (RH). Refer to EXT-22, "Exploded View".
- Pull up the IPDM E/R assembly while pressing the pawls (A) on the back of the IPDM E/R cover B (1).



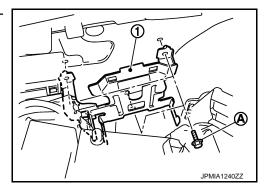
< REMOVAL AND INSTALLATION >

Remove the IPDM E/R cover A (1) while pressing the pawls (A) at the lower end of the IPDM E/R cover A.

Disconnect the harness connector and remove the IPDM E/R (2).



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



INSTALLATION

Install in the reverse order of removal.

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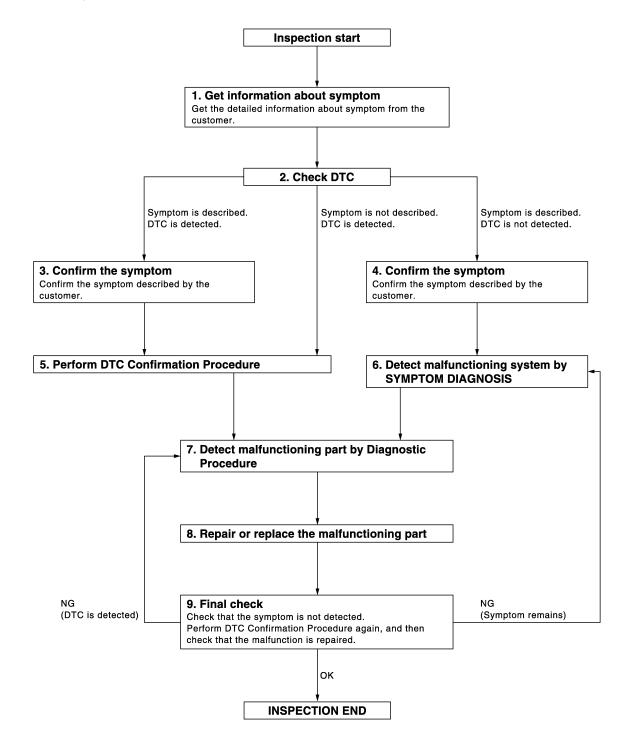
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[POWER DISTRIBUTION SYSTEM]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC

- Check DTC for BCM and IPDM E/R.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- Check related service bulletins for information.

Is any symptom 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

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

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

>> GO TO 5.

f 4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

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-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to BCS-79, "DTC Inspection Priority Chart", and determine trouble diagnosis order.

NOTE:

Perform Component Function Check if DTC Confirmation Procedure is not included in 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 Confirmation Procedure.

Is DTC detected?

>> GO TO 7. YES

NO >> Refer to GI-42. "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.

>> GO TO 7.

/.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[POWER DISTRIBUTION SYSTEM]

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check voltage of related BCM terminals using CONSULT-III.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

- 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 was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction has been repaired securely.

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7.

YES (Symptom remains)>>GO TO 6.

NO >> INSPECTION END

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

SYSTEM DESCRIPTION

POWER DISTRIBUTION SYSTEM

System Description

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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 60 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 60 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.

STEERING LOCK OPERATION (MODELS WITH STEERING LOCK UNIT)

Steering is locked by steering lock unit when ignition switch is in the OFF position, selector lever is in the P position and any of the following conditions are met.

- Opening door
- Closing door
- Door is locked with request switch
- Door is locked with Intelligent Key

NOTE:

For models without steering lock unit, power supply position changes to LOCK even though the steering lock operation is not performed.

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:

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< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

- 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)

Dower cumply position	Engine sta	Push-button ignition switch		
Power supply position	Selector lever position Brake pedal operation condition		operation frequency	
$LOCK \to ACC$	_	Not depressed	1	
$LOCK \to ACC \to ON$	_	Not depressed	2	
$LOCK \to ACC \to ON \to OFF$	_	Not depressed	3	
$\begin{array}{c} LOCK \to START \\ ACC \to START \\ ON \to START \end{array}$	P or N position	Depressed	1	
Engine is running → OFF	_	_	1	

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

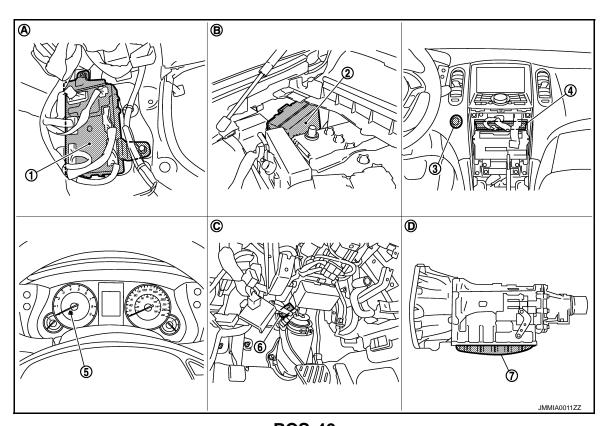
Power supply position	Engine start/stop condition		Push-button ignition switch
rower supply position	Selector lever position	Brake pedal operation condition	operation frequency
Engine is running → ACC	_	_	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	1

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

INFOID:0000000006346165



< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

1. BCM M118, M119, M121, M122, M123 2. IPDM E/R E5, E6, E7 3. Push-button ignition switch M50

4. Unified meter and A/C amp. M66, M67 5. Combination meter (Key warning 6. Stop lamp switch E110

Iamp) M53

7. TCM F151 (built into A/T assembly)

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:0000000006346166

Component	Reference
IPDM E/R	PCS-6
Ignition relay (Built-in IPDM E/R)	PCS-52
Ignition relay (Built-in fuse block)	PCS-50
Accessory relay	PCS-54
Blower relay	PCS-57
Stop lamp switch	<u>SEC-53</u>
Transmission range switch	<u>SEC-67</u>
Push-button ignition switch	PCS-67

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COMMON ITEM

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000006937339

APPLICATION ITEM

CONSULT-III 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. Refer to CONSULT-III operation manual.	
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.

×: Applicable item

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

NOTE:

FREEZE FRAME DATA (FFD)

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

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

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/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	Power supply position status of the moment a particular DTC is detected*	While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*	
ehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		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" (Ignition switch OFF with steering is locked.)*	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	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)	
GN 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. 		

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:0000000008937340

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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< SYSTEM DESCRIPTION >

SELF-DIAG RESULT

Refer to DLK-171, "DTC Index".

DATA MONITOR

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	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit, this item is not monitored.	
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit, this item is not monitored.	
S/L RELAY -F/B	Indicates [ON/OFF] condition of ignition switch. NOTE: For models without steering lock unit, this item is not 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	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit, this item is not monitored.	
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit, this item is not monitored.	
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay. NOTE: For models without steering lock unit, this item is not 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.	

Revision: 2011 October PCS-45 2011 EX

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition
ID OK FLAG	Indicates [SET/RESET] condition of key ID.
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
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-III 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-III 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-III screen is touched. Key warning chime sounds when "KEY WARN" on CONSULT-III screen is touched. Position warning chime sounds when "PRNG WARN" on CONSULT-III screen is touched. ACC warning chime sounds when "ACC WARN" on CONSULT-III 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-III screen is touched.
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT-III screen is touched. • "KEY" Warning lamp flashes when "KEY IND" on CONSULT-III 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-III screen is touched.
LCD	This test is able to check meter display information Engine start information displays when "BP N" on CONSULT-III screen is touched. Engine start information displays when "BP I" on CONSULT-III screen is touched. Key ID warning displays when "ID NG" on CONSULT-III screen is touched. Steering lock information displays when "ROTAT" on CONSULT-III screen is touched. NOTE: For models without steering lock unit, "ROTAT" is displayed, but cannot be tested. P position warning displays when "SFT P" on CONSULT-III screen is touched. Intelligent Key insert information displays when "INSRT" on CONSULT-III screen is touched. Intelligent Key low battery warning displays when "BATT" on CONSULT-III screen is touched. Take away through window warning displays when "NO KY" on CONSULT-III screen is touched. Take away warning display when "OUTKY" on CONSULT-III screen is touched. OFF position warning display when "LK WN" on CONSULT-III 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-III 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-III screen is touched.

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

Test item	Description		
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT-III 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-III screen is touched.		
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT-III 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-III 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-III 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-III screen is touched.		
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination flash when "ON" on CONSULT-III screen is touched.		
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be tested.		

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:0000000006346169

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-III 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

INFOID:0000000006346171

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-42, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000006346173

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-86. "Exploded View".

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B2553 IGNITION RELAY

Description INFOID:000000006346174

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 INFOID:000000006346175

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-III.

Is DTC detected?

YES >> Go to PCS-50, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006346176

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT-III. Refer to PCS-31, "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.
- 2. Disconnect BCM connector.
- Check voltage between BCM harness connector and ground.

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,
M123	123	Ground	Ignition switch	OFF	0
10/123	123	Giodila	ignition switch	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3. CHECK IGNITION RELAY FEEDBACK CIRCUIT

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-34, "Removal and Installation".

NO >> Repair or replace harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

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B260A IGNITION RELAY

Description INFOID:000000006346177

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 INFOID:000000006346178

DTC DETECTION LOGIC

NOTE:

- If DTC B260A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-48, "DTC Logic".
- If DTC B260A is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>PCS-49, "DTC Logic"</u>.
- If DTC B260A is displayed with DTC B261A, first perform the trouble diagnosis for DTC B261A. Refer to <u>PCS-64, "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-III.

Is DTC detected?

YES >> Go to PCS-52, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006346179

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT-III. Refer to PCS-31, "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.
- Disconnect BCM connector.
- Check voltage between BCM harness connector and ground.

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

B260A IGNITION RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.check ignition relay (IPDM E/R) circuit

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

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

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

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

Is the inspection result normal?

>> Replace IPDM E/R. Refer to PCS-34. "Removal and Installation".

NO >> Repair or replace harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

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PCS-53 Revision: 2011 October 2011 EX

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B2614 ACC RELAY

Description INFOID:0000000006346180

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
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

- 1. 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.
- 2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

YES >> Go to PCS-54, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006346182

1. CHECK ACCESSORY RELAY POWER SUPPLY

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

(+) Accessory relay Terminal	(-)	Con	dition	Voltage (V) (Approx.)
1	Ground	Ignition switch	OFF	0
I	Ground	igilition 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.
- 3. Check continuity between accessory relay harness connector and BCM harness connector.

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

Check continuity between accessory relay harness connector and ground.

B2614 ACC RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Accessory relay		Continuity
Terminal	Ground Continuity	
1	1	
Is the inspection result normal?		
	CS-86, "Removal and Installation".	
NO >> Repair or replace harnes		
3.CHECK ACCESSORY RELAY GR	OUND CIRCUIT	
Check continuity between accessory	relay harness connector and groun	d.
Accessory relay		-
Terminal	Ground	Continuity
2		Existed
s the inspection result normal?		
YES >> GO TO 4.		
NO >> Repair accessory relay g		
4.CHECK ACCESSORY RELAY PO	WER SUPPLY CIRCUIT-2	
Turn ignition switch ACC.		
Check voltage between accessor	y relay harness connector and grou	und.
(+)		
Accessory	(–)	Voltage (V)
Terminal	, ,	(Approx.)
5	Ground	Battery voltage
Is the inspection result normal?		
YES >> GO TO 5.		
NO >> Check continuity open or	short between accessory relay and	l battery.
5.CHECK ACCESSORY RELAY		
Refer to PCS-55, "Component Inspec	ction".	
Is the inspection result normal?		
YES >> GO TO 6.		
NO >> Replace accessory relay.		
6.CHECK INTERMITTENT INCIDEN	I T	
Refer to GI-42, "Intermittent Incident".		
>> INSPECTION END		
Component Inspection		INFOID:000000006346183
1.CHECK ACCESSORY RELAY		
1. Turn ignition switch OFF.		
Remove accessory relay.		

B2614 ACC RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

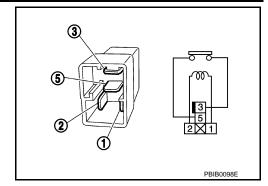
3. Check the continuity between accessory relay terminals.

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.



B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B2615 BLOWER RELAY CIRCUIT

Description INFOID:0000000006346184

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:0000000006346185

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

- 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-III.

Is DTC detected?

YES >> Go to PCS-57, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK BLOWER RELAY POWER SUPPLY

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

(+) Blower relay	(–)	Condition		Voltage (V) (Approx.)
Terminal				(· -F-F · • > · ·)
1	Ground	Ignition switch	OFF or ACC	0
I	Ground	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

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

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

Check continuity between blower relay harness connector and ground.

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B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Blower relay		Continuity
Terminal	Ground	Continuity
1		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-86, "Removal and Installation".

NO >> Repair or replace harness or connector.

3.check blower relay ground circuit

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

Blower relay	Ground	Continuity	
Terminal			
2		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair blower relay ground circuit.

4. CHECK BLOWER RELAY POWER SUPPLY CIRCUIT-2

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

(+) Blower 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 blower relay and battery.

${f 5.}$ CHECK BLOWER RELAY

Refer to PCS-58, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace blower relay.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006346187

1. CHECK BLOWER RELAY

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

B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

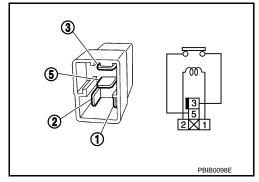
Check the continuity between blower relay terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace blower relay.



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B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B2616 IGNITION RELAY CIRCUIT

Description INFOID:000000006346188

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
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.
- 2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

YES >> Go to PCS-60, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006346190

1. CHECK IGNITION RELAY POWER SUPPLY

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

(+) Ignition relay	(–)	Condition		Voltage (V) (Approx.)
Terminal				(прегол.)
1	Ground	lanition switch	OFF or ACC	0
ı	Ground	Ignition switch	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK IGNITION RELAY POWER SUPPLY CIRCUIT

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

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

^{4.} Check continuity between ignition relay harness connector and ground.

B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Ignition relay		Continuity	Α
Terminal	Ground	Continuity	
1		Not existed	
NO >> Repair or replace harness			В
3.CHECK IGNITION RELAY GROUN	ND CIRCUIT		
 Turn ignition switch OFF. Check continuity between ignition 	relay harness connector and groun	nd.	D
Ignition relay Terminal	Ground	Continuity	Е
2		Existed	
NO >> Repair ignition relay ground 4. CHECK IGNITION RELAY POWER 1. Turn ignition switch ON. 2. Check voltage between ignition relay ground ignition			G
(+)	, ,		Н
Ignition relay	(-)	Voltage (V)	
Terminal		(Approx.)	- 1
5	Ground	Battery voltage	
Is the inspection result normal? YES >> GO TO 5. NO >> Check continuity open or 5. CHECK IGNITION RELAY	short between ignition relay and ba	ttery.	J
Refer to PCS-61, "Component Inspec	tion"		K
Is the inspection result normal? YES >> GO TO 6. NO >> Replace ignition relay.			L
6.CHECK INTERMITTENT INCIDEN	IT		PC
Refer to GI-42, "Intermittent Incident".			
>> INSPECTION END			N
Component Inspection		INFOID:000000006346191	
1. CHECK IGNITION RELAY			0
 Turn ignition switch OFF. Remove ignition relay. 			Р

B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

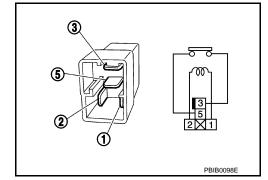
[POWER DISTRIBUTION SYSTEM]

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.



B2618 BCM

Description INFOID:0000000006346192

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:0000000006346193

DTC DETECTION LOGIC

NOTE:

- If DTC B2618 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-48, "DTC Logic".
- If DTC B2618 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to PCS-49, "DTC Logic".

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	BCM

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-III.

Is DTC detected?

YES >> Go to PCS-63, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.INSPECTION START

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

See PCS-63, "DTC Logic".

Is the 1st trip DTC B2618 displayed again?

YES >> Replace BCM. Refer to BCS-86, "Removal and Installation"

NO >> INSPECTION END **PCS**

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B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B261A PUSH-BUTTON IGNITION SWITCH

Description INFOID:000000006346195

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

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

- 1. 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.
- 2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006346197

1. CHECK BCM OUTPUT

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

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

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

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

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

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

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-86, "Removal and Installation".

NO >> Repair or replace harness or connector.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000006346198

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Rattory power cumply	К
Battery power supply	10

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.
- 2. Disconnect BCM connectors.
- 3. Check voltage between BCM harness connector and ground.

Terminals			
(+) (-)		Voltage	
В	СМ		(Approx.)
Connector	Terminal	Ground	
M118	1	Glound	Battery voltage
M119	11		Ballery Vollage

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.

PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

PUSH-BUTTON IGNITION SWITCH

Description

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

1.CHECK FUNCTION

- 1. Select "PUSH SW" in "Data Monitor" mode with CONSULT-III.
- 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
F 0 3 1 1 3 VV	Push-button ignition switch is not pressed	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Go to PCS-67, "Diagnosis Procedure"

Diagnosis Procedure

1. CHECK PUSH-BUTTON IGNITION SWITCH OUTPUT SIGNAL

- 1. 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		(//)
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

BCM

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

٧V	'ith	ste	erıng	lock	unit	

Connector	Terminal	Connector	Terminal			
M122 89		M50 4		Existed		
Without steering lock unit						
В	CM	Push-button	ignition switch	Continuity		
Connector Terminal		Connector	Terminal	Continuity		
M121	60	M50	1	Evisted		

Push-button ignition switch

Check continuity between BCM harness connector and ground.

With steering lock unit

· · · · · · · · · · · · · · · · · · ·						
В	CM		Continuity			
Connector Terminal		Ground	Continuity			
M122 89			Not existed			

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Continuity

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PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

Without steering lock unit			
В	CM		Continuity
Connector Terminal		Ground	Continuity
M121	60		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-86, "Removal and Installation".

NO >> Repair or replace harness.

3.check push-button ignition switch ground circuit

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

Push-button	ignition switch		Continuity	
Connector	Connector Terminal		Continuity	
M50	1		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK PUSH-BUTTON IGNITION SWITCH

Refer to PCS-68, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace push-button ignition switch. Refer to PCS-119, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006346202

1. CHECK PUSH-BUTTON IGNITION SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect push-button ignition switch connector.
- 3. Check continuity between push-button ignition switch terminals.

Push-button	ignition switch	Condition		Continuity
Terminal		Condition		Continuity
1	4	Push-button ignition	Pressed	Existed
	4	switch	Not pressed	Not existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace push-button ignition switch. Refer to PCS-119, "Removal and Installation".

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

Description INFOID:000000006346203

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

1. CHECK FUNCTION

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

Test i	tem	Desc	ription
LOCK INDICATOR	ON	5	Illuminate
ACC INDICATOR IGNITION ON IND	OFF	Position indicator	Not illuminate

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PCS-69, "Diagnosis Procedure".

Diagnosis Procedure

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. 9, 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

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

	+) CM	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M119	15			
M122	93	Ground	Battery voltage	
M123	134			

Is the inspection normal?

YES >> Replace BCM. Refer to BCS-86, "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	ВСМ		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	

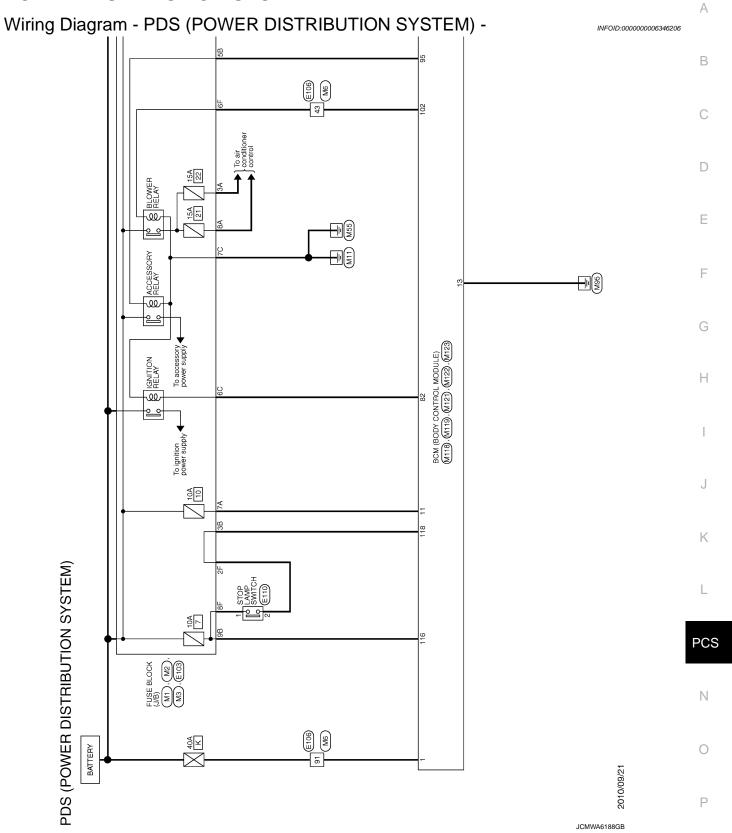
3. Check continuity between BCM harness connector and ground.

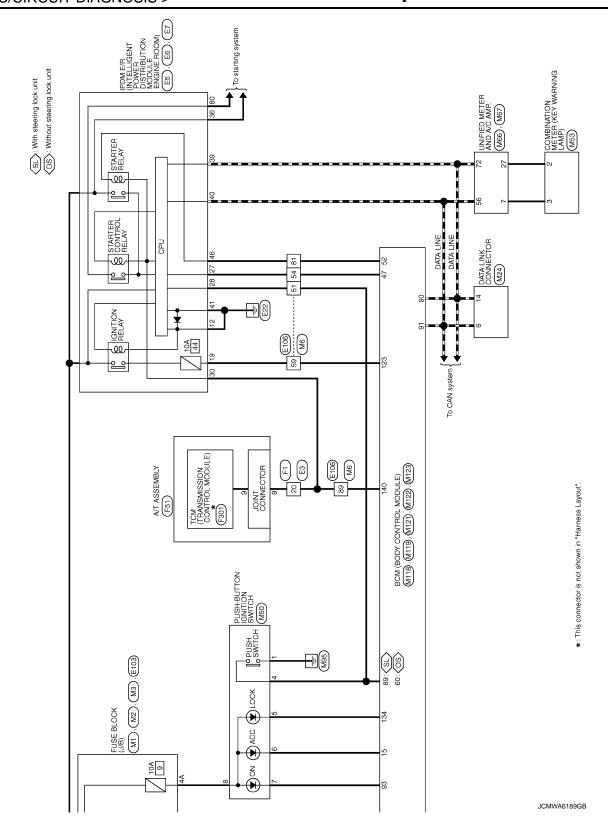
Indicator	BCM			Continuity
	Connector	Terminal		Continuity
LOCK	M123	134	Ground	Not existed
ACC	M119	15		
ON	M122	93		

Is the inspection normal?

YES >> Replace push-button ignition switch. Refer to <u>PCS-119</u>, "Removal and Installation".

NO >> Repair or replace harness.





PDS (POWER DISTRIBUTION SYSTEM) Convector Name Wile TO Wile Convector Name Wile TO Wile Convector Name Wile TO Wile Convector Name Convector	Terminal Color Signal Name [Specification]	t	49 BG –	H	53 W –	\dashv	+	4	+	+	+	- BG	F	╀	L	- N 08		N material C	т	Connector Name FUSE BLOCK (J/B)	Connector Type NS16FW-CS	đị.	在于	2. 1. S. 1.	11 12 16 17 17 17 17 17 17 17 17 17 17 17 17 17	18 13 13 13 13 13 13 13 13 13 13 13 13 13		Toursinal		H	Н	4F G –	7	9F R						
Color Colo	7 11	+	H	H	Н	D	æ	BG	+	+	+	+	\mathbf{I}		Γ		Т	٦				42.4 40.39	46 45 44 43		Color	of Wire	Н	7	* >	SB	Н	9	\dashv		_ e	ector Type	\$.	ज्ञाताचात्र भागाचात्र ज्ञाताचात्र स्मिक्शकास्त्र		
The control of the co	PDS (POWER DISTRIBUTION SYSTE		Connector Type SAA36MB-RS10-SJZ2	1	L	H.S.	19 20 21 22 23 24 25	26 27 28 29 30	31 22 23 34 35 28 39	40(41)42(44)49(44)48(41)48	L	nal Color	t	╀	H	9	≫ 0	000	+	╀	Н	4	ď	+	* 8%	BG	5	→ Ga	N	ł		Connector No. E5	Connector Name Prome ROAD EVENT POWER DISTRIBUTION MODULE ROOM)	Connector Type TH20FW-CS12-M4-IV	1	0 10 11 12 13 4 5 6 7 8		nal Color of Wire	^	5 L –

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POWER DISTRIBUTION SYSTEM

	34 G –	35 Y 40 BG -	SB	Н	\dashv		T	I	Т	Connector Name A/T ASSEMBLY	Comments Time Divider nov	lector Type	•		Ţ	<u>ا</u>	9 2 8 6 0		Tarminal	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 BR -	3 L		E 4	- 02	: a	9 GR –	10 B –				Γ							T	T	T			j
	1	1 1			E110	STOP LAMP SWITCH	M04EW-I C	MO4FW-LO			<u>[</u>	3 4	1 2]		Signal Name [Specification]	Programmed a market	1		1			FI	WIRE TO WIRE	0 A A 2 G C C C C C C C C C C C C C C C C C C	2200 0000 00000		181716151413121110	25 24 23 22 21 20	30 29 28 27 26	200000000000000000000000000000000000000			Signal Name [Specification]	-	-	1	1	1	1		1	-	-	
	98 SHIELD	100 P	4		Connector No.	Connector Name	Т		4	*	Z.					-e	No. of Wire	+	* >	4 SB			Connector No.	Connector Name	Т	7	修	S	l				Terminal Golor	_	Н	20 GR	\dashv	+	\dashv	+	26 BK	╀	30 Y	31 V	
	Ц П	 	」		 	<u>з</u>	T	i T	T	f T	1	Т	Т	Г	□	<u>⊬</u>	<u> Т</u>	Д Т	Д Т	L T] T	_	3	<u>ී</u>	T	IJL T	r T		¶ 	_		Т	Ľ	_			П	_	П	 Т	т Т	L	П	П	
	1	1 1	-	1	1		1 1		1	1	1			ı		ı	1	1			- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	- [With IGC]	- [Without ICC]	i		1	1	-	1	1	Ť.			1	-	-	
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إ_	49	5.0	52	53	54	26	50	80	9 7	5 8	29	2 2	92	99	67	89	69	2 7	- 6	52	74	74	75	75	92	5 12	-	78	78	79	79	8 5	83	83	84	82	98	87	88	8 8	5 6	93	94	92	į
≶	Connector No. E106	Connector Name WIRE TO WIRE	Connector Type TH80FW-CS16-TM4			1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 (S)		日 20 日 30 日 日 30 日	ah.		Color of Wire		M	B	GR -	GR -	· ·	200	1	- Bg	- 1		- L	> 03	25 >	BG -		- ^	- 5	a. :	- 2	> ×	- 9	BG –		- В			SHIELD	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- BB	M	- º	
اءَ.	ţ	cto	cto			H.S.						No.		2	္ဌ	4	2		s 5	2 =		_	T.	_	91			L	2	<u></u>	4	,	,	_		_		_			1.		Г	42	ĺ

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071	MZ	FUSE BLOCK (J/B)	NS10FW-CS	48 38 78 18 18 18 18 18 18 18 18 18 18 18 18 18	Signal Name [Specification]	_	-	'			1			M3	FUSE BLOCK (J/B)	NS12FW-CS			5040	Signal Name [Specification]	-	1	1 1	1	-					
2 2 3	OL NO.	Connector Name	Connector Type		I Color of Wire	۵	ŋ	BG >	- 0	. 2	SB			or No.	Connector Name	Connector Type			_	I Color of Wire	۳	В	- BG		BG					
	Connector No.	Connect	Connect	是 H.S.	Terminal No.	3B	4B	2B	8 4	88	88			Connector No.	Connect	Connect	Œ	H.S.		Terminal No.	90	7C	ပ္ထ ဋ	110	12C					
STEM	T		П		Г		П	T	Τ	Γ	Γ	Π				П		П					Т	Τ	Γ	Π	П	Т	Т	٦
PDS (POWER DISTRIBUTION SYSTEM)	F301	TCM (TRANSMISSION CONTROL MODULE)	SP10FG	(1 2 3 4 5 6 7 8 9 10	Signal Name [Specification]	VIGN	BATT	CAN-H	GND	NSIA	REV LAMP RLY	CAN-L	START RLY	GND		M1	FUSE BLOCK (J/B)	NS06FW-M2	3A	8A / Alca SA 4A		Signal Name [Specification]			1	-	1	-		1
POO	r No.	r Name	r Type		Color of Wire	1	1	1		1	1	1	1	1		r No.	r Name	r Type					of Wire	5 0	_	۵	>	>	∝ .	_
PDS (P	Connecto	Connector Name	Connector Type	EH.S.	Terminal No.	-	2	е,	ŧ u	9	7	8	6	10		Connector No.	Connector Name	Connector Type	图 H.S.			Terminal	o.	ξ <u></u>	34	44	5A	9 E	Α.	βA

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POWER DISTRIBUTION SYSTEM

PDS (PO)	PDS (POWER DISTRIBUTION SYSTEN	EM)	-	-	66	-	Connector No.	M53
200	т	Ť	╀		+	as	OOIIIOO	т
Connector Name	WIRE TO WIRE	51	- H	1 1	-		Connector Name	COMBINATION METER
Connector Type	TH80MW-CS16-TM4	52	H	ı			Connector Type	TH40FW-NH
		53	3 P	1	Connector No.	M24	Q	
A PART	17	54	+	1	Connector Name	DATA LINK CONNECTOR	ALC: N	
Š	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	56	B C	1 1	Connector Time	Т	Ś	
	929	6 5	+	1 1	ooillecto.	1	1 2	3 5 6 7 10 11 14 15 16 18 19 20
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8	╀	1	修		21 22	24 25 26 27 28 29 30 31 33 38 37 38 39 40
		9	9	1	Š	F		
		62	Ë	1		11 14 16		
la l	Simal Name [Specification]	63	3 G	1		7 0 2	Terminal Color	Or Sinnal Mama [Spacification]
No. of Wire		64	В	1		7 0 0 4	No. of Wire	
- W	1	92	×	ı	_		1 GR	┪
2 R	1	99	°.	ı			2 LG	COMMUNICATION SIGNAL (METER->AMP.)
3 B	1	67	7 SHIELD	O	Terminal Color	lor Simal Nama [Snacification]	3 GR	COMMUNICATION SIGNAL (AMP>METER)
4 SHIELD	-	89	٠	•	No. of Wire		5 B	GROUND
5 G	1	69		1	3	re –	9	AL
>-		70	\dashv	1	4	B	7 BR	
+	1		5 -	1	2		10 G	SECI
10 R	1	72	\dashv	1	9	1	15 B	\dashv
11 BR		73	┨				_	METER CONT
12 BG	1	74	# BR		8	5	19 B	ILL GND
\dashv	1	74	4 L	- [Without ICC]	\dashv	BS	-	
14 R	1	75		1	\dashv	I .	7	IGNITIO
\dashv	1	7	\dashv	- [With ICC]	16	1	\dashv	\dashv
\dashv	1	9/	_	- [Without ICC]			24 BR	┥
+	1	77	+	- [With ICC]			-	Ö
\dashv	1	77	У Р	- [Without ICC]	Connector No.	M50	26 R	
20 BG		78	3	- [With ICC]	Connector Name	HOLING NOTION IGNITION AND THE PROPERTY OF THE	27 V	PARKING BRAKE SWITCH SIGNAL
\dashv	1	78	<u>د</u>	- [Without ICC]		╗	\dashv	┪
22 W	1	79	>	- [With ICC]	Connector Type	e TK08FBR	-	٦
\dashv		79	\dashv	- [Without ICC]	ą		30 G	SEAT
24 BR	ı	8	\dashv	1	4		31 L	WASHER LEVEL SWITCH SIGNAL
25 Y	ı	8	\dashv	1	ËS		33 B	
26 V	_	82	SB 2B	1		1 2 3	36 LG	
-	_	83	>	1		4 5 6 7 8	37 SB	
28 G	1	84	9	ı		1	38	TRIP A/B RESET SWITCH SIGNAL
31 L	1	82	- L	-			39 P	
32 G	•	98	9	-			40 BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)
33 B	ì	87	M (-	Terminal Color	lor Simol Name [Saccification]		
34 W	ì	88	an GR	-	No. of Wire			
35 R	Ť	06	C SHIELD	Q	-			
R	Q	91	W	1	2 \	M		
Н	-	92	Н	1	3 W			
38 BG	1	93	BR BR	1	4 B	BR -		
39 BR	1	94	т.	1	5 G	GR –		
41 W	_	92	5 GR	1	9	_		
Н	1	96	W .	1				
43 BG	1	97	J /		8	Р .		
Н	-	86	3 SHIELD					

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POWER DISTRIBUTION SYSTEM

[POWER DISTRIBUTION SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

PDS (POW Connector No.	SYST	EM)	Ø >	IGNITION POWER SUPPLY	2 < L	PASSENGER DI	PASSENGER DOOR UNLOCK OUTPUT	Connector No.	П	M122
Connector Name	UNIFIED METER AND A/C AMP.	55	≻ п	BATTERY POWER SUPPLY GROUND	8 \	STEP ;	STEP LAMP OUTPUT ALL DOOR, FUEL LID LOCK OUTPUT	Conneci	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH	26	-	CAN-H	Н	DRIVER DOOR, FL	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	Connector Type	or Type	TH40FB-NH
偃		58	≥ %	BRAKE FLUID LEVEL SWITCH SIGNAL FUEL LEVEL SENSOR GROUND	01 =1 RR RR	REAR DOO!	REAR DOOR UNLOCK OUTPUT BAT (FUSE)	Œ		
H.S.		29	뚕.	INTAKE SENSOR GROUND	Н		GND	H.S.		
2	5 6 7 8 9 10 11 12 14 15 16 20	9 19	- 16	IN-VEHICLE SENSOR GROUND AMBIENT SENSOR GROUND	4 S	PUSH-BULLO	PUSH-BULLON IGNITION SWILL GND ACC IND		91 90 89	8 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72
21 22 23	25/26/27/28 30 1 34 36	62	SB	SUNLOAD SENSOR GROUND	Н	TURN SIC	TURN SIGNAL RH (FRONT)		901 001 111	106 105 104 106 100 100 195 195 195 195 195
		65	۳ 8	ECV SIGNAL	81 9 8 9	TURN SIC	TURN SIGNAL LH (FRONT) ROOM LAMP TIMER CONTROL			
-Ba	Signal Name [Specification]	69	ŀ	A/C LAN SIGNAL				Terminal	-	Signal Name [Specification]
No. of Wire	4	02	~	EACH DOOR MOTOR POWER SUPPLY				ģ	of Wire	0
2 L	MANUAL MODE SHIFT UP SIGNAL	- 5	m c	GROUND	Connector No.	Т		72	œ (ROOM ANT2-
8	VEHICLE SPEED SIGNAL (2-PULSE)	7,		1 NO	Connector Name	BCM (BODY CONTROL MODULE)	TROL MODULE)	7 4	, g	PASSENGER DOOR ANT-
9 SB	FRONT SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)				Connector Type	TH40FGY-NH		75	GR	PASSENGER DOOR ANT+
Н	MANUAL MODE SIGNAL	Connector No.	or No.	M118	4			9/	>	DRIVER DOOR ANT-
+	NON-MANUAL MODE SIGNAL	Connect	Connector Name	BCM (BODY CONTROL MODULE)	事			7	٦ ;	DRIVER DOOR ANT+
20 BK	COMMUNICATION SIGNAL (LCD=>AMP.)	Connector	or Type	MOSEB-I C	V			8/ 6	- G	ROOM ANTI+
Z3 ×	AT SNOW SWITCH SIGNAL		_		51 50 49	49 48 47 46 45 44 43 42 41 40	10 39 38 37 36 35 34 33 32	80	æ	NATS ANT AMP.
25 V	MANUAL MODE SHIFT DOWN SIGNAL	J			11/002	00 00 04 00 05 01	20 20	81	W	NATS ANT AMP.
27 LG	COMMUNICATION SIGNAL (METER->AMP.)	H.S.						85	α>	IGN RELAY (F/B) CONT
+	PARKING BRAKE SWITCH SIGNAL			1 3	Terminal Color			87	- HB	COMBI SW INPUT 5
Н	COMMUNICATION SIGNAL (AMP>LCD)			2	Ŭ		Signal Name [Specification]	88	>	COMBI SW INPUT 3
38 P	BLOWER MOTOR CONTROL SIGNAL				34 SB	LUGGA	LUGGAGE ROOM ANT-	88	BR	PUSH SW [With steering lock unit]
		Tomoino	, ole	L	32	LUGGA	LUGGAGE ROOM ANT+	8 5	- ۵	CAN-L
Connector No.	M67	S	_	Signal Name [Specification]	+	BACK	BACK DOOR ANT+	95	LG L	KEY SLOT ILL
Onchor Mano	INICIED METER AND A C AMP	-	Μ	BAT (F/L)	47 Y	IGN RELAY	IGN RELAY (IPDM E/R) CONT	93	^	ON IND
la l	ON THE WELLING SO SAME.	2	*	POWER WINDOW POWER SUPPLY(BAT)	Н	STARTE	STARTER RELAY CONT	94	>	PUDDLE LAMP CONT
Connector Type	TH32FW=NH	m	>	POWER WINDOW POWER SUPPLY(RAP)	60 BR	PUSH SW [With	PUSH SW [Without steering lock unit]	92	g g	ACC RELAY CONT
修					64 ×	I-KEY WARN I	I-KEY WARN BUZZER (ENG ROOM)	97	5 _	S/L CONDITION 1
Si E		Connector No.	or No.	M119	65 BG	REAR WIPE	REAR WIPER STOP POSITION	86	Ь	S/L CONDITION 2
	344454647	Connect	Connector Name	BCM (BODY CONTROL MODULE)	+	BAC	BACK DOOR SW	66	۵ (SHIFT P
57 58 59 60 61	52 63 65 69	Connect	or Type	NSTREW-CS	/0 89	BACK DI	BEAR BH DOOR SW	3 5	5 8	DRIVER DOOR REGUEST SW
			2016		╁	REAR	REAR I H DOOR SW	9	g g	BLOWER FAN MOTOR RELAY CONT
		修			┨	NO.	TI DOOL SH	103	2 5	KEYLESS ENTRY RECEIVER POWER SUPPLY
Terminal Color		S H	L					106	*	S/L UNIT POWER SUPPLY
-	ñ		_	4 5 6 7 6 9 10				107	ΡΠ	COMBI SW INPUT 1
V V	ACC POWER SUPPLY		<u></u>	11 12 13 14 15 16 17 18 19				108	œ	COMBI SW INPUT 4
\dashv	FUEL LEVEL SENSOR SIGNAL		ᆁ					109	>	COMBI SW INPUT 2
43 R	INTAKE SENSOR SIGNAL							110	g	
44 LG	IN-VEHICLE SENSOR SIGNAL							Ξ	>	S/L UNIT COMM
45 P 46 BG 47 G	AMBIENT SENSOR SIGNAL SUNLOAD SENSOR SIGNAL EMMUST GAS / OUTSIDE COOR DETECTING SENSOR SIGNAL	Terminal No. 4	of Wire	Signal Name [Specification] INTERIOR ROOM LAMP POWER SUPPLY						

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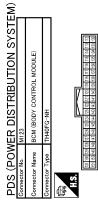
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Signal Name [Specification]	OPLICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SWILL POWER	LOCK IND	RECEIVER/SENSOR GND	RECEIVER/SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P	SECURITY INDICATOR OUTPUT	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT
Color of Wire	Ь	SB	Ь	SB	BR	W	ΓC	BR	W	GR	BG	Υ	٦	GR	G	BG	Ь	9	٦	SB	ΡΠ	9
Terminal No.	113	116	118	119	121	123	124	132	133	134	137	138	139	140	141	142	143	144	145	146	150	151

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WIF LIX I II	Front wiper switch HI	On
ED WIDER I OW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED WACHED CW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED CTOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dia position
DD WIDED ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
DD WACHED OW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
DD WIDED CTOD	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
TURN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAWIP SVV	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAIN SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
HEAD LAWF SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
TILAD LAWIF SW Z	Lighting switch 2ND	On
DASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
	Passenger door closed	Off
OOOR SW-AS	Passenger door opened	On
2000 0111 00	Rear RH door closed	Off
OOOR SW-RR	Rear RH door opened	On
2000 0111 01	Rear LH door closed	Off
OOOR SW-RL	Rear LH door opened	On
OOD CW DV	Back door closed	Off
OOOR SW-BK	Back door opened	On
SDL LOCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
SDL LINI OCK CW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
YEN ONLIN OM	Other than driver door key cylinder LOCK position	Off
(EY CYL LK-SW	Driver door key cylinder LOCK position	On
(EY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL ON-3W	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
IND OW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
FR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
IVDD OI LIN OW	While the back door opener switch is turned ON	On
RNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
NKE LOCK	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
DKE TINI 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 DVIIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DIVE DAM OPEN	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On
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
ODTIONI OTNOCE	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
AEQ 3W -DK	Driver door request switch is pressed	On
REQ SW -AS	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
DEO CW. DD/TD	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
N1011 0W	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
GN RLY2 -F/B	Ignition switch in ON position	On
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
	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
/L -LOCK	Steering is unlocked	Off
IOTE: For models without steering lock init, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
NOTE: For models without steering lock unit, this item is not monitored.	Ignition switch in ON position	On
JNLK SEN -DR	Driver door is unlocked	Off
JALIN DEN DIN	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
0017 000 - 17DIVI	Push-button ignition switch (push-switch) is pressed	On
ON DIVA E/D	Ignition switch in OFF or ACC position	Off
GN RLY1 -F/B	Ignition switch in ON position	On
AFTE OW IRROW	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CET D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
OETNI MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off
For models without steering lock unit, this item is not monitored.	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On
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	Steering is locked	Reset
15 01(1 2/(0	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
THUIT ENG OTHER	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
KET OW GLOT	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency o 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
	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
OOM INWINE	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done

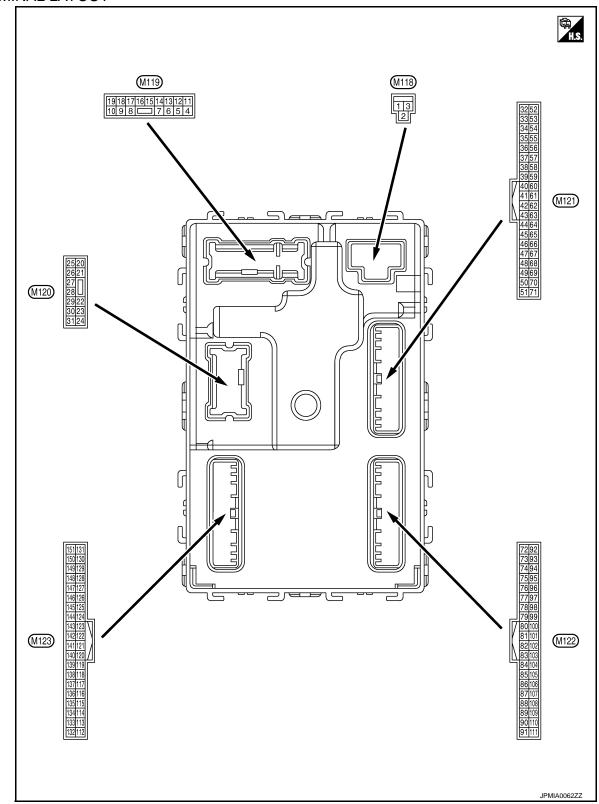
< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition	Value/Status	
CONFIDM IDS	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet	А
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done	В
CONFIDM IDO	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet	
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done	С
	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet	D
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done	•
-n ,	The ID of fourth key is not registered to BCM	Yet	Е
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	E
TP 3	The ID of third key is registered to BCM	Done	
FD 0	The ID of second key is not registered to BCM	Yet	
ΓP 2	The ID of second key is registered to BCM	Done	G
-5.4	The ID of first key is not registered to BCM	Yet	
ГР 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	I
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	J
D DECOT EL 4	ID of front LH tire transmitter is registered	Done	L
D REGST FL1	ID of front LH tire transmitter is not registered	Yet	k
D DECCT ED4	ID of front RH tire transmitter is registered	Done	
D REGST FR1	ID of front RH tire transmitter is not registered	Yet	L
D REGST RR1	ID of rear RH tire transmitter is registered	Done	
D REGOT RRT	ID of rear RH tire transmitter is not registered	Yet	
D REGST RL1	ID of rear LH tire transmitter is registered	Done	P(
DINEGOLIKLI	ID of rear LH tire transmitter is not registered	Yet	
VADAUNO LAMP	Tire pressure indicator OFF	Off	-
VARNING LAMP	Tire pressure indicator ON	On	
0117750	Tire pressure warning alarm is not sounding	Off	
BUZZER	Tire pressure warning alarm is sounding	On	

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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4		Interior record leave			battery saver is activated. oom lamp power supply)	0 V
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage
5	Ground	Passenger door UN-	Output	Passonger door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(Y)	Giodila	Olep lamp	Output	Oleh iailih	OFF	Battery voltage
8	Ground	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	(V) Glound	LOCK	Output	All doors	Other than LOCK (Actuator is not activated)	0 V
9	Ground Driver door, fuel lid Outr	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Giodila	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)	Ciodila	LOCK	Caipai	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0 V
					OFF	0 V
14		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position
14 (W) Groun	Ground		Output	Tail lamp	ON	10 0 2 ms JSNIA0010GB
15	Onc	ACC indicates lass	Outraint	Innition control	OFF or ON	Battery voltage
(Y)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(VVire	e 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
19		Room lamp timer		Interior room	OFF	6.5 V 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
					ODEN	6.5 V
23	Ground	Pagk door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Glound	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 PKID0926E
26					OFF (Stopped)	6.5 V 0 V
(G)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
34	Constant	Luggage room anten-	0.4.4	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 1	B C D
(SB)	Ground	na (–)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E
35	35	Luggage room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	G H I
(V)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J K L
38		Back door antenna (-)	Output	When the back door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 1	PCS N
(B)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	Back door antenna		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	Glound	(+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 U 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
(Y) 	Ground	E/R) control Starter relay control	Output	Ignition switch	ON When selector lever is in P or N position	0 V Battery voltage
(30)				ON	When selector lever is not in P or N position	0 V
60* ¹	Cround	Push-button ignition	Innut	Push-button ignition switch (push	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	switch)	Not pressed	Battery voltage
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 5 0 JPMIA0016GB 1.0 V
64	Ground	Intelligent Key warn-	Cutnut	Intelligent Key	Sounding	0 V
(V)	Giouna	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	Battery voltage
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					Not in stop position	0 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 JPMIA0011GB 11.8 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 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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PCS

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В

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G

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
72	Ground	Room antenna 2 (–) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
73	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(G)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
74	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	
(SB)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	^
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
75		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(GR)	Ground	tenna (+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E F
76	76	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	G H I
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	J K L
77	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 JMKIA0062GB	PCS N
(LG)	Ground	(+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
78	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)	Gigana				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(BR)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
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 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
(11)		SIGGR (G/D)] COITEO			ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
		Remote keyless entry		During waiting		(V) 15 10 5 1 ms JMKIA0064GB	B C
83 (Y) Ground		receiver communication	Input/ Output	When operating e	ither button on the key	(V) 15 10 5 1 ms JMKIA0065GB	E
		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	G H I
87					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	J K L
(BR)	Ground				Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	PCS N
					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	Р

	inal No. e color)	Description			Condition	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
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 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 1.3 V
89* ²	Oro	Push-button ignition	lo~··t	Push-button igni-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output	_		_
91 (L)	Ground	CAN-H	Input/ Output	_		_

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

	inal No.	Description				
(Wir	e color)	Signal name	Input/		Condition	Value (Approx.)
+	_	Signal name	Output			
92 (LG)	Ground	ŕ	Output	Key slot illumination	OFF	Battery voltage (V) 15 10 5 0 1 s
93					ON OFF or ACC	6.5 V 0 V Battery voltage
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V
94 (Y)	Ground	Puddle lamp control	Output	Puddle lamp	OFF ON	Battery voltage 0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0 V Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	_	1.00 5. 5.	Battery voltage
97* ² (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status UNLOCK status	0 V Battery voltage
98* ² (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status UNLOCK status	Battery voltage
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position Any position other than P	0 V Battery voltage
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 10 ms JPMIA0016GB 1.0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 5 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Outout	Ignition switch	OFF or ACC	1.0 V 0 V
(BG)	Giouria	lay control	Output	ignition switch	ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
106* ² (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage 0 V
		Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
	Ground				Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)					Turn signal switch RH	(V) 15 10 5 0 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 >

[POWER DISTRIBUTION SYSTEM]

Terminal No.		Description				Value			
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	А		
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C		
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	E 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	G H		
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K L		
					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	PCS N		
						1.3 V	0		

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Terminal No. (Wire color)		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
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent 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 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 10 ms JPMIA0012GB

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Signal name Condition Co	Terminal No.		Description				Value		
Steering lock unit communication Steering lock unit communication Steering lock LOCK or UNLOCK Steering lock LOCK or UNLOCK Steering lock LOCK or UNLOCK Steering lock Steering lock Error 15 seconds after UNLOCK Steering lock Ste		· ·	Signal name			Condition			
Steering lock unit communication						LOCK status	Battery voltage		
LOCK Battery voltage		Ground			Steering lock	LOCK or UNLOCK	15 10 5 0		
Close to 5 V Close to 5 V							Battery voltage		
Close to 5 V Close to 5 V Close to 5 V							0 V		
Close to 0 V When dark outside of the vehicle Close to 0 V		Ground	Ontical sensor	Innut			Close to 5 V		
Stop lamp switch 1 Input Stop lamp switch 2 Input Stop lamp switch OFF (Brake pedal is not depressed) ON (Brake pedal is not depressed) ON (Brake pedal is not depressed) OV	(P)	Ground	Optical selisoi	прис	ON		Close to 0 V		
Stop lamp switch 2 (Without ICC) Stop lamp switch 2 (Without ICC) Stop lamp switch 2 (With ICC) Stop lamp switch 2 (With ICC) Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF Stop lamp switch ON (Brake pedal is not depressed) and ICC brake hold relay OFF Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON Battery voltage Battery voltage Battery voltage Battery voltage Buttery voltage Buttery voltage Buttery voltage UNLOCK status (Unlock sensor switch OFF) UNLOCK status (Unlock switch sensor ON) Ground When the key is inserted into key slot When the key is not inserted into key slot When the key is not inserted into key slot OV Stop lamp switch OFF (Brake pedal is depressed) or ICC brake hold relay OFF Stop lamp switch OFF (Brake pedal is not depressed) or ICC brake hold relay OFF Stop lamp switch ON (Brake pedal is not depressed) or ICC brake hold relay OFF Stop lamp switch OFF (Brake pedal is not depressed) or ICC brake hold relay OFF Battery voltage UNLOCK status (Unlock switch sensor ON) When the key is inserted into key slot OV		Ground	Stop lamp switch 1	Input	_		Battery voltage		
Total Provided Pro					Stop lamp switch	depressed)			
Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON Front door lock assembly driver side (Unlock sensor)		Ground	Stop Jamp switch 2	Input		pressed) OFF (Brake pedal is not de-			
Front door lock assembly driver side (Unlock sensor) Input							Battery voltage		
121 (BR) Ground Key slot switch Input When the key is inserted into key slot Battery voltage When the key is not inserted into key slot 0 V		Ground	sembly driver side	Input	Driver door	(Unlock sensor switch	15 10 5 0 10 ms JPMIA0012GB		
(BR) Ground Key slot switch Input When the key is not inserted into key slot 0 V						0 V			
When the key is not inserted into key slot 0 V		Ground	Key slot switch	Input		-			
	(BR)	2.30	,		When the key is n	*			
123 (W) Ground IGN feedback Input Ignition switch OFF or ACC 0 V ON Battery voltage		Ground	IGN feedback	Input	Ignition switch				

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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0	Value			
+	-	Signal name	Input/ Output		Condition	(Approx.)			
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB			
					ON (Door open)	0 V			
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB 10.2 V			
				Ignition switch OF	F or ACC	Battery voltage			
					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 JPMIA0159GB			
					OFF	0 V			
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF ON	Battery voltage 0 V			
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V			
138	Crownsi	Receiver and sensor	Out	lanition cuitab	OFF	0 V			
(Y) Ground Power supply			Output	Ignition switch	ACC or ON	5.0 V			

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	٨
(VVir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					Standby state	(V) 6 4 2 0 ••• 0.2s	ВС
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s OCC3880D	E
140	Ground	Selector lever P/N	lanut	Selector lever	P or N position	Battery voltage	G
(GR)	Ground	position	Input	Selector level	Except P and N positions ON	0 V 0 V	Н
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB 11.3 V	J
					OFF	Battery voltage	K
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	0 V (V) 15 10 5 0 2 ms JPMIA0031GB	PCS
						10.7 V	Ν
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	0 V (V) 15 10 5 0 2 ms JPMIA0032GB 10.7 V	O

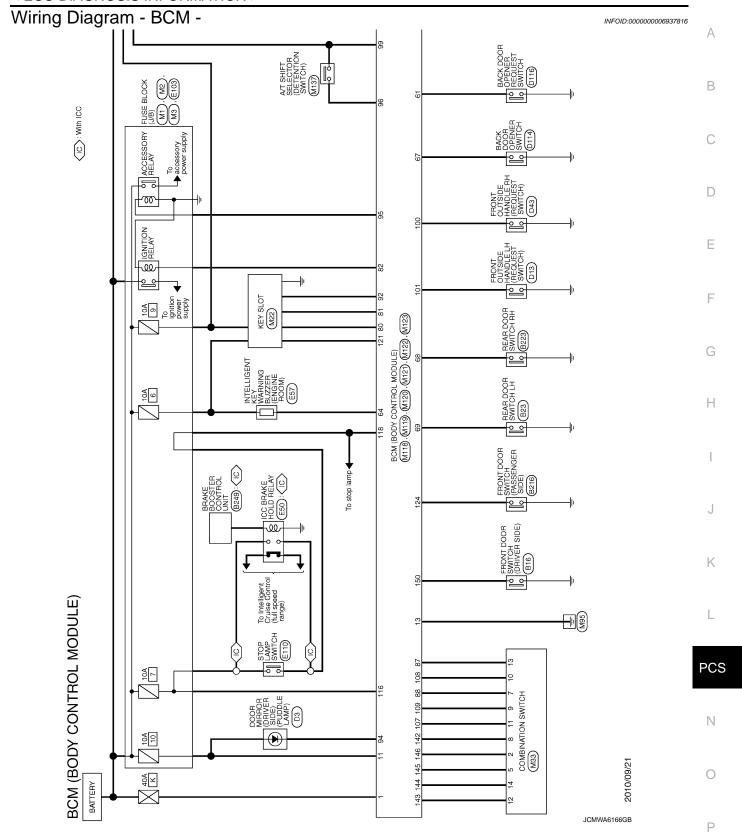
< ECU DIAGNOSIS INFORMATION >

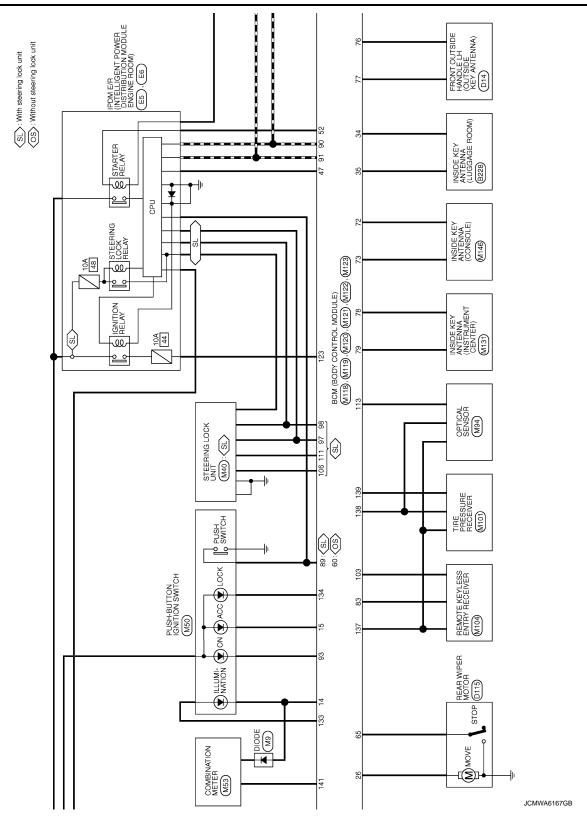
[POWER DISTRIBUTION SYSTEM]

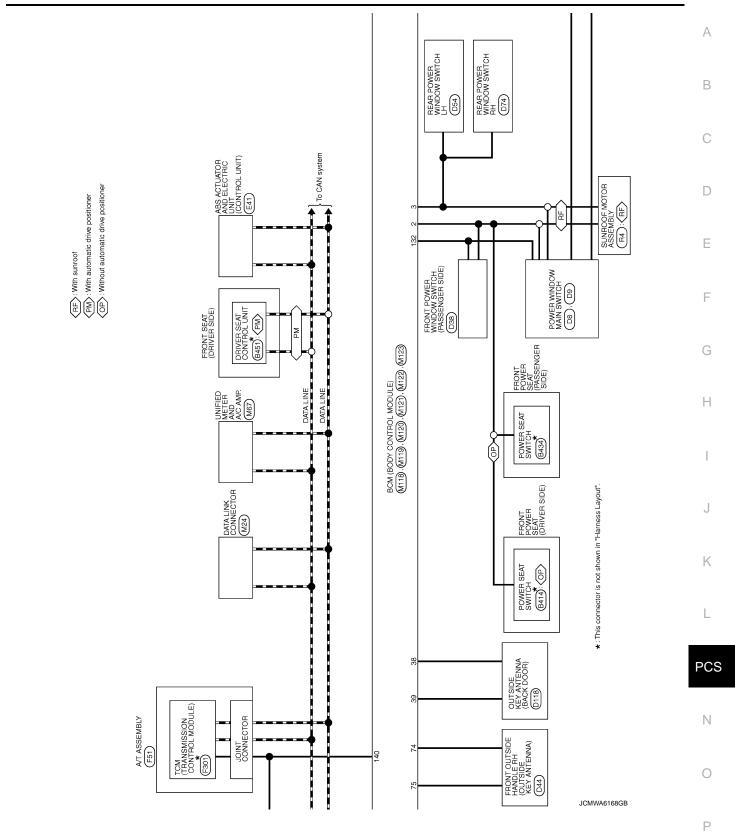
	inal No. e color)	Description			0 10	Value			
+	-	Signal name	Input/ Output		Condition	(Approx.)			
					All switches OFF (Wiper intermittent dial 4)	0 V			
					Front washer switch ON (Wiper intermittent dial 4)				
144	Crownd	Combination switch	Outeur	Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10			
(G)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	5 0			
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB			
					All switches OFF	0 V			
					Front wiper switch INT				
145 (L)	Ground	Combination switch OUTPUT 3		Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO	(V) 15			
			Output		Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB			
						10.7 V			
					All switches OFF	0 V			
					Front fog lamp switch ON Lighting switch 2ND	(V)			
146		Combination switch OUTPUT 4		Combination switch	Lighting switch PASS	15			
(SB)	Ground		Output	(Wiper intermit- tent dial 4)	Lighting switch i AGG	5 0			
				terit diai 4)	Turn signal switch LH	2 ms			
						10.7 V			
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			
151 (G)	Ground	Rear window defog- ger relay control			Active	0 V			
(G)		yei ielay cullilul		fogger	Not activated	Battery voltage			

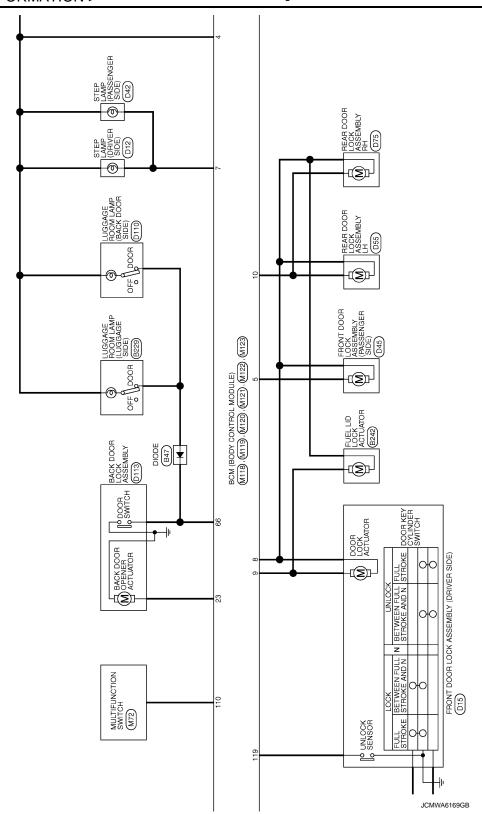
NOTE:

- *1: Without steering lock unit
- *2: With steering lock unit





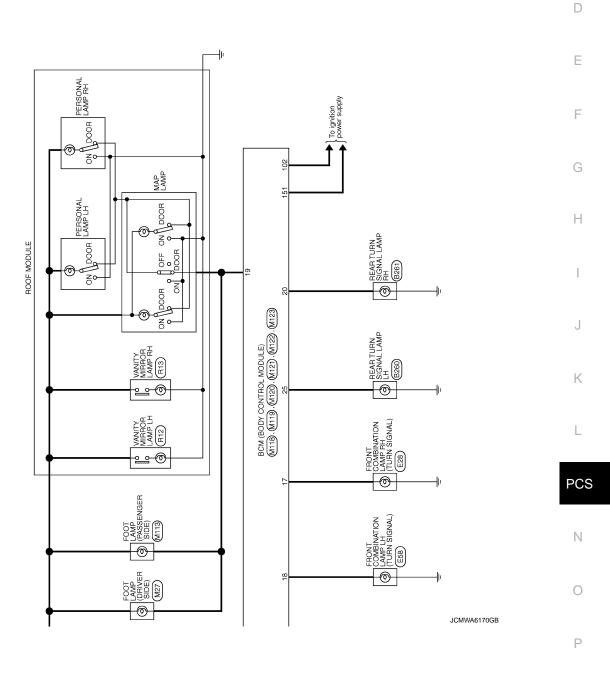




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잉	ſ				ŀ	
Connector No. M33	Connector No. M119	Connector No.	M121	80	æ	NATS ANT AMP.
Connector Name COMBINATION SWITCH	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	- S	≥ 0	NATS ANT AMP.
Connector Type TH16FW-NH	Connector Type NS16FW-CS	Connector Type	TH40FGY-NH	83	۲ >	KEYLESS ENTRY RECEIVER COMM
1	1	֓֞֞֜֞֜֜֞֜֜֞֜֜֓֓֓֓֓֓֟֜֟֜֟֓֓֓֓֟֜֟֓֓֓֟֜֟֜֟֓֓֓֟֜֟֓֓֓֟֜֟֓֓֓֟֜֟֓֓֟֡֟֜֜֟֓֓	1	87	BB	COMBI SW INPUT 5
修	修	修		88	>	COMBI SW INPUT 3
<u> </u>	E S	S		68	BR	PUSH SW [With steering lock unit]
	4 5 6 7 0 8 9 10	_ []	/	90	Ь	CAN-L
3	11 12 13 14 15 16 17 18 19	71 70	49 48 47 46 45 44 43 42 41 40 39 38 37 38 35 34 33 32 69 68 67 66 65 64 63 67 61 60 59 58 57 56 55 54 53 52	91	٦	CAN-H
7 8 9 10 11 12 13 14				92	ΓC	KEY SLOT ILL
				93	>	ON IND
ŀ	Ŀ	Ŀ		94	>	PUDDLE LAMP CONT
Terminal Color Signal Name [Specification]	la	Terminal Color	or Signal Name [Specification]	92	BG	ACC RELAY CONT
or wire	No. of Wife	No. of Wil	I're	96	ğ -	A/T SHIFT SELECTOR POWER SUPPLY
	$^{+}$	╀		688	1 0	S/L CONDITION 2
3 GR FR WASHER(+)	7 Y STEP LAMP OUTPUT	38 B		66	<u>~</u>	SHIFT P
	8 V ALL DOOR, FUEL LID LOCK OUTPUT	┞		100	G	PASSENGER DOOR REQUEST SW
5 L OUTPUT 3	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47 Y	IGN RELAY (IPDM E/R) CONT	101	SB	DRIVER DOOR REQUEST SW
6 B GND	10 BR REAR DOOR UNLOCK OUTPUT	52 SB	STARTER RELAY CONT	102	BG	BLOWER FAN MOTOR RELAY CONT
7 V INPUT 3	11 R BAT (FUSE)	60 BR	Ц	103	LG I	KEYLESS ENTRY RECEIVER POWER SUPPLY
8 BG OUTPUT 5	В	61 W	_	106	Μ	S/L UNIT POWER SUPPLY
>	W PUSH-BUTTO	\dashv	Ì	107	ΓG	COMBI SW INPUT 1
ч	>		REAR	108	α	COMBI SW INPUT 4
11 LG INPUT 1	17 W TURN SIGNAL RH (FRONT)	66 R	BACK DOOR SW	109	٨	COMBI SW INPUT 2
12 P 0UTPUT 1	18 BG TURN SIGNAL LH (FRONT)	67 GR	BACK DOOR OPENER SW	110	9	HAZARD SW
13 BR INPUT 5	19 V ROOM LAMP TIMER CONTROL	68 BR		111	\	S/L UNIT COMM
14 G OUTPUT 2		69 R	REAR LH DOOR SW			
	Γ					
Connector No Mili	т	Connector No	M122			
+	Connector Name BCM (BODY CONTROL MODULE)	Odline Co.	Т			
Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS12FW-CS	Connector Name	BCM (BODY CONTROL MODULE)			
Connector Type M03FB-LC	1	Connector Type	TH40FB-NH			
4	ょ	4	1			
医	HS	唐				
Hs.	21	HS				
13	25 26 27 28 29 30 31	91 90	89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72			
7			194 TO 104 TO 105 TO 107 TO 100 SS SO SY SO SS			
T:	Signal Name [Specification]	F	L			
_	t	_	or Signal Name [Specification]			
1 W BAT (F/L)		72 R	ROOM ANT2-			
POWER WINDO	5 0	╀				
┝	g	H	PASS			
		H				
		76 V	DRIVER DOOR ANT-			
		77 LG	DR			
		+				
		79 BR	ROOM ANT1+			

JCMWA6171GB

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

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BCM (BODY CONTROL MODULE) Connector No. MIZ3 Connector Name BCM (BODY CONTROL MODULE) Connector Type THOFG-NH MAS AND CONTROL MODULE)

Signal Name [Specification]	OPLICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SW ILL POWER	LOCK IND	RECEIVER/SENSOR GND	RECEIVER/SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P	SECURITY INDICATOR OUTPUT	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT
Color of Wire	Ь	SB	Ь	SB	BR	W	ΓC	BR	W	GR	BG	Y	٦	GR	9	BG	Ь	5	٦	SB	ÐΠ	G
Terminal No.	113	116	118	119	121	123	124	132	133	134	137	138	139	140	141	142	143	144	145	146	150	151

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
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 $ON \rightarrow OFF$
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
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
B2601: SHIFT POSITION	Inhibit steering lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition 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)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
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)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
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
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

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

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)

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Priority	DTC
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2602: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2606: SYL RELAY B2606: SYL RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: SYL STATUS B2609: SYL STATUS B2609: SYL STATUS B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: SHORD STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2616: BCM RELAY CIRC B2617: STATTER RELAY CIRC B2618: BCM B2619: BCM B2619: SCH STATUS B2617: STATER RELAY CIRC B2618: BCM B2619: BCM B2619: SCH STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: BCM B2617: STATTUS B2618: BCM B2618: BCM B2619: SCH STATUS B2619: SCH STATUS B2619: SCH STATUS B2611: SCH STATUS
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL 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] RR C1734: CONTROL UNIT
6	B2621: INSIDE ANTENNA B2622: 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.

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to PCS-42, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

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	В
No DTC is detected. further testing may be required.	_	_	_	_	_	
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-38	D
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-39	
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40	Е
B2013: ID DISCORD BCM-S/L*	×	×	_	_	SEC-49	
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-50	
B2190: NATS ANTENNA AMP	×	_	_		SEC-42	F
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45	
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46	G
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-47	O
B2195: ANTI SCANNING	×	_	_	_	SEC-48	
B2553: IGNITION RELAY		×	_	_	PCS-50	Н
B2555: STOP LAMP		×	_	_	SEC-53	
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-55	
B2557: VEHICLE SPEED	×	×	×	_	SEC-57	I
B2560: STARTER CONT RELAY	×	×	×		SEC-58	
B2562: LOW VOLTAGE		×	<u> </u>	_	BCS-41	J
B2601: SHIFT POSITION	×	×	×	_	SEC-59	
B2602: SHIFT POSITION	×	×	×		SEC-62	
B2603: SHIFT POSI STATUS	×	×	×		SEC-64	K
B2604: PNP SW	×	×	×		SEC-67	
B2605: PNP SW	×	×	×		SEC-69	L
B2606: S/L RELAY*	×	×	×		SEC-71	
B2607: S/L RELAY*	×	×	×	_	SEC-72	
B2608: STARTER RELAY	×	×	×		SEC-74	PCS
B2609: S/L STATUS*	×	×	×	_	SEC-76	
B260A: IGNITION RELAY	×	×	×	_	PCS-52	Ν
B260B: STEERING LOCK UNIT*		×	×		SEC-80	14
B260C: STEERING LOCK UNIT*		×	×		SEC-81	
B260D: STEERING LOCK UNIT*		×	×		SEC-82	0
B260F: ENG STATE SIG LOST		×	×		SEC-83	
B2612: S/L STATUS*	^ ×	×	×		SEC-87	
B2614: ACC RELAY CIRC		×	×		PCS-54	Р
B2615: BLOWER RELAY CIRC	<u>_</u>	×	×		PCS-57	
B2616: IGN RELAY CIRC		×	×		PCS-60	
B2617: STARTER RELAY CIRC		×	×		SEC-91	
DZUIT. STAINTLIN NELAT CINC	×	*	*	_	<u>350-81</u>	

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< ECU DIAGNOSIS INFORMATION >

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	
B2619: BCM*	×	×	×	_	SEC-93	
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-94	
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-97</u>	
B2621: INSIDE ANTENNA	_	×	_	_	DLK-59	
B2622: INSIDE ANTENNA	_	×	_	_	DLK-61	
B2623: INSIDE ANTENNA	_	×	_	_	DLK-63	
B26E1: ENG STATE NO RES	×	×	×	_	SEC-84	
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-85</u>	
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-86	
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	<u>WT-23</u>	
C1706: LOW PRESSURE RR	_	_	_	×		
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×	WT-25	
C1709: [NO DATA] FR	_	_	_	×		
C1710: [NO DATA] RR	_	_	_	×		
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×	WT-28	
C1717: [PRESSDATA ERR] FR	_	_	_	×		
C1718: [PRESSDATA ERR] RR	_	_	_	×		
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>	
C1734: CONTROL UNIT	_	_	_	×	<u>WT-32</u>	

^{*:} For models without steering lock unit, this DTC is not applied.

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.

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 Necessary for Steering Wheel Rotation After Battery Disconnection

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CAUTION:

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

- 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.

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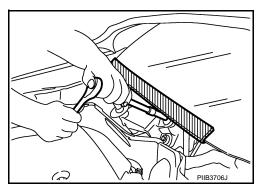
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- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel 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

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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.



PUSH-BUTTON IGNITION SWITCH DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

SYMPTOM DIAGNOSIS

PUSH-BUTTON IGNITION SWITCH DOES NOT OPERATE

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

NOTE:

Description

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-III.
- 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

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-178, "ALL DOOR : Diagnosis Procedure".</u>

2.PERFORM WORK SUPPORT

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

Refer to DLK-52, "INTELLIGENT KEY: CONSULT-III 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-59. "DTC Logic"</u> (instrument center), <u>DLK-61. "DTC Logic"</u> (console) or <u>DLK-63. "DTC Logic"</u> (trunk room).

NO >> GO TO 4.

4. CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to PCS-67, "Component Function Check".

Is the operation normal?

YES >> GO TO 5.

NO >> Repair or replace malfunctioning parts.

${f 5}.$ CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

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PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

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

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- Before performing the diagnosis in the following table, check "Work Flow". Refer to PCS-36, "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-III.
- One or more of Intelligent Keys with registered Intelligent Key ID is in the vehicle.

Diagnosis Procedure

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1. CHECK PUSH-BUTTON IGNITION SWITCH INDICATOR

Check push-button ignition switch indicator.

Refer to PCS-69, "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-42, "Intermittent Incident".

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH

< REMOVAL AND INSTALLATION >

[POWER DISTRIBUTION SYSTEM]

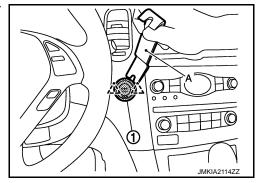
REMOVAL AND INSTALLATION

PUSH-BUTTON IGNITION SWITCH

Removal and Installation

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.

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