POWER CONTROL SYSTEM

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[IPDM E/R]

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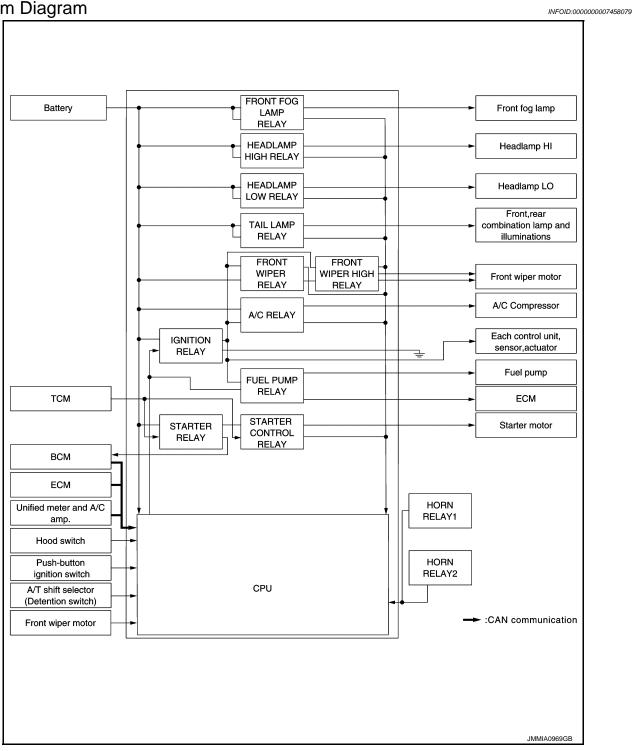
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INFOID:0000000007458080

SYSTEM DESCRIPTION

RELAY CONTROL SYSTEM

System Diagram



System Description

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

IPDM E/R integrated relays cannot be removed.

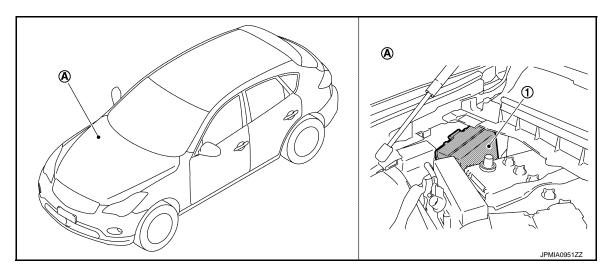
Control relay	Input/output	Transmit unit	Control part	Reference page	
Headlamp low relay Headlamp high relay	Low beam request signal High beam request signal	BCM (CAN)	Headlamp low Headlamp high	• EXL-12 (Xenon headlamp) • EXL-229 (Halogen headlamp)	
Front fog lamp relay	Front fog light request signal	BCM (CAN)	Front fog lamp	• EXL-25 (Xenon headlamp) • EXL-229 (Halogen headlamp)	
Tail lamp relay	Position light request signal	BCM (CAN)	Parking lamp Side marker lamp License plate lamp Tail lamp	• EXL-29 (Xenon headlamp) • EXL-242 (Halogen headlamp)	
			Illuminations	INL-13	
Front wiper relay	Front wiper request signal	BCM (CAN)	Front win or	MANAL C	
 Front wiper high relay 	Front wiper stop position signal Front wiper motor		Front wiper	<u>WW-6</u>	
Horn relay 1 Horn relay 2	Theft warning horn request signal Horn reminder signal	BCM (CAN)	Horn (low) Horn (high)	SEC-18	
NOTE	Starter control relay signal	BCM (CAN)			
 Starter relay^{NOTE} Starter control relay 	Steering lock unit condition signal	Steering lock unit	Starter motor	<u>SEC-79,</u> SEC-77	
Starter control relay	Starter relay control signal	TCM		02011	
A/C relay	A/C compressor request signal	ECM (CAN)	A/C compressor (magnet clutch)	HAC-42	
Ignition relay	Ignition switch ON signal	BCM (CAN)		PCS-15	
	Vehicle speed signal	Unified meter and A/C amp. (CAN)	Ignition relay		
	Push-button ignition switch signal	Push-button ignition switch			

NOTE:

BCM controls the starter relay.

Component Parts Location

INFOID:0000000007458081



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

POWER CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[IPDM E/R]

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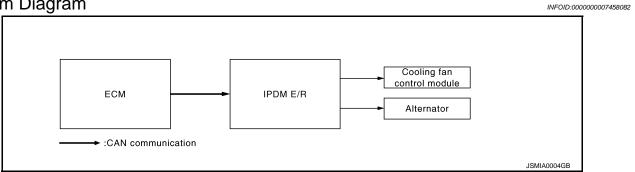
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POWER CONTROL SYSTEM

System Diagram



System Description

INFOID:0000000007458083

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-12, <a href="System Diagram".

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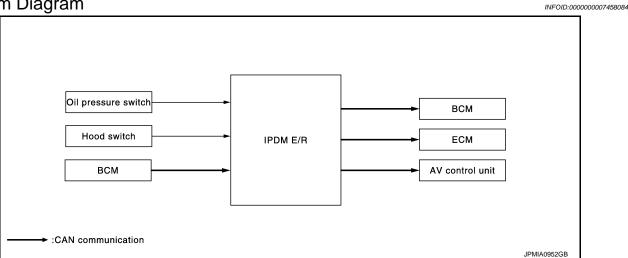
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[IPDM E/R]

SIGNAL BUFFER SYSTEM

System Diagram



System Description

INFOID:0000000007458085

- 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.mwiscontrolorgram.
- IPDM E/R reads the status of the hood switch and transmits the hood switch signal to BCM via CAN communication. Refer to SEC-88, "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 <u>DEF-4</u>, "System Diagram".

[IPDM E/R]

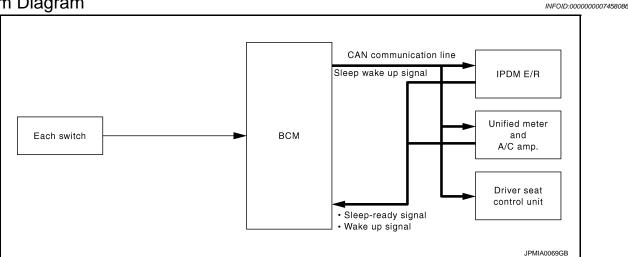
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POWER CONSUMPTION CONTROL SYSTEM

System Diagram



System Description

INFOID:0000000007458087

OUTLINE

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

Normal mode (wake-up)

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

Low power consumption mode (sleep)

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

SLEEP MODE ACTIVATION

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

WAKE-UP OPERATION

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

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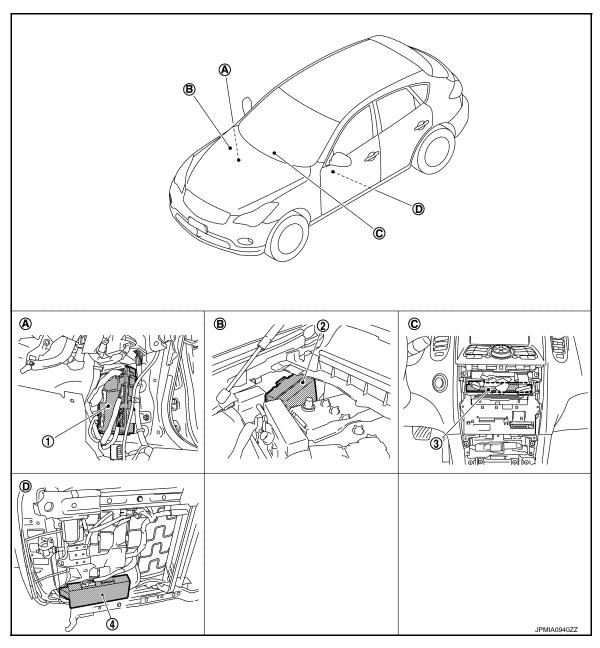
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Component Parts Location

INFOID:0000000007458088



- 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

< SYSTEM DESCRIPTION >

[IPDM E/R]

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000007458089

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AUTO ACTIVE TEST

Description

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

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

Operation Procedure

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

NOTE:

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

- 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.
- 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-67</u>, <u>"Component Function Check"</u>.
- Do not start the engine.

Inspection in Auto Active Test Mode

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

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

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

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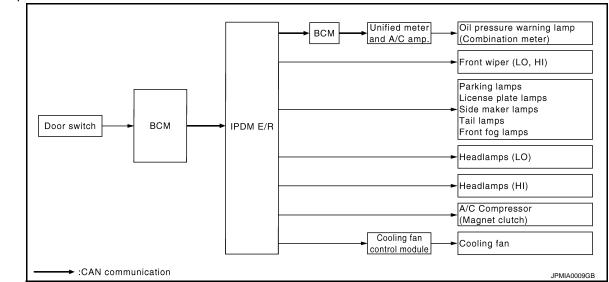
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[IPDM E/R]

Concept of auto active test



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

Diagnosis chart in auto active test mode

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

< SYSTEM DESCRIPTION >

[IPDM E/R]

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

CONSULT Function (IPDM E/R)

INFOID:0000000007458090

APPLICATION ITEM

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

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

SELF DIAGNOSTIC RESULT

Refer to PCS-30, "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.

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< SYSTEM DESCRIPTION >

[IPDM E/R]

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.	

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

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[IPDM E/R]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000007458091

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

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000007458093

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".

B2098 IGNITION RELAY ON STUCK

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

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B2098 IGNITION RELAY ON STUCK

Description INFOID:0000000007458094

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

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

NOTE

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

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible causes
B2098	IGN RELAY ON	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:0000000007458096

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".

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B2099 IGNITION RELAY OFF STUCK

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

B2099 IGNITION RELAY OFF STUCK

Description INFOID:000000007458097

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

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

NOTE:

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

DTC Logic

DTC DETECTION LOGIC

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

NOTE:

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

Diagnosis Procedure

INFOID:0000000007458099

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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".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[IPDM E/R]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

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1. CHECK FUSES AND FUSIBLE LINK

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

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

Is the fuse fusing?

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

'				
(+)	(-)	Voltage	
IPDI	Л E/R	(-)	(Approx.)	
Connector	Connector Terminal			
E4	E4 1		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		
E5	12	Ground	Existed	
E6	41		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

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

Reference Value INFOID:0000000007458101

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		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 OCLD DEC	Lighting switch OFF		Off	
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On	
III I O DEO	Lighting switch OFF		Off	
HL LO REQ	Lighting switch 2ND HI or AUTO) (Light is illuminated)	On	
DEO	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	
		Front wiper switch OFF	Stop	
ED WID DEO	Ignition switch ON	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	
IGN RLY1 -REQ	Ignition switch OFF or ACC		Off	
IGN KLI I -KEQ	Ignition switch ON		On	
IGN RLY	Ignition switch OFF or ACC		Off	
IGN KLI	Ignition switch ON	On		
PUSH SW	Release the push-button ignition	n switch	Off	
FUSH 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	
ST RLY CONT	Ignition switch ON		Off	
OT INET COINT	At engine cranking		On	
IHRT DIV DEO	Ignition switch ON		Off	
IHBT RLY -REQ	At engine cranking		On	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status					
	Ignition switch ON	Off					
	At engine cranking		INHI ON \rightarrow ST ON				
ST/INHI RLY	The status of starter relay or starter control re the battery voltage malfunction, etc. when the starter control relay is OFF		UNKWN				
DETENT SW	lanition switch ON lecto	s the selector button with ser or lever in P position ctor lever in any position oth- an P	Off				
	Release the selector button with selector lev	er in P position	On				
S/L RLY -REQ	NOTE: The item is indicated, but not monitored.		Off				
S/L STATE	NOTE: The item is indicated, but not monitored.	UNLOCK					
DTRL REQ	NOTE: The item is indicated, but not monitored.	Off					
OIL DOW	Ignition switch OFF, ACC or engine running	Open					
OIL P SW	Ignition switch ON	Close					
HOOD CW	Close the hood	Off					
HOOD SW	Open the hood	On					
HL WASHER REQ	NOTE: The item is indicated, but not monitored.		Off				
	Not operation	Off					
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE SECURIT TEM	On					
HORN CHIRP	Not operating	Off					
HOKN CHIKP	Door locking with Intelligent Key (horn chirp	Door locking with Intelligent Key (horn chirp mode)				ocking with Intelligent Key (horn chirp mode) On	
CRNRNG LMP REQ	NOTE: The item is indicated, but not monitored.		Off				

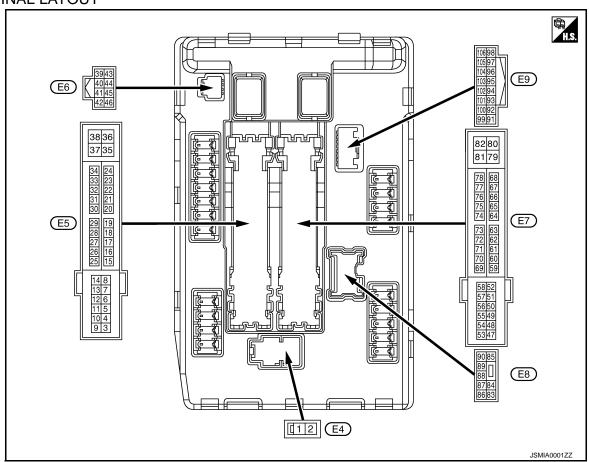
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< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description	Description			Value	
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage	
2 (L)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage	
4	Craund	Frant winer I O	Outrout	Ignition	Front wiper switch OFF	0 V	
(V)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage	
5	Cround	Front winer III	Output	Ignition	Front wiper switch OFF	0 V	
(L)	Ground	Front wiper HI	Output	switch ON	Front wiper switch HI	Battery voltage	
7	0	Tail, license plate lamps &	0	Ignition	Lighting switch OFF	0 V	
(R)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage	
12 (B/W)	Ground	Ground	_	Ignition swi	itch ON	0 V	
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	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Val.
(Wire	e color)	Signal name	Input/ Output	1	Condition	Value (Approx.)
 19			Ignition switch OFF		tch OFF	0 V
(W)	Ground	Ignition relay power supply	Output	out -		Battery voltage
25				Ignition swi		0 V
(G)	Ground	Ignition relay power supply	Output	Ignition swi		Battery voltage
26*			•	Ignition swi	tch OFF	0 V
(R)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
27	Crawad	Invition valous manitar	laaut	Ignition swi	tch OFF or ACC	Battery voltage
(BG)	Ground	Ignition relay monitor	Input	Ignition swi	tch ON	0 V
28	Ground	Push-button ignition	Input	Press the p	oush-button ignition switch	0 V
(L)	Ground	switch	IIIput	Release the	e push-button ignition switch	Battery voltage
30 (GR)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V
(OIV)				SWILCH OIV	Selector lever P or N	Battery voltage
36 (G)	Ground	Battery power supply	Input	Ignition swi	tch OFF	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 relay control	Input	Ignition switch OFF or ACC		0 V
(Y)	Giodila	Cooling fair relay control	IIIput	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 but- ton (selector lever P)	0 V
44	Ground	Horn relay control	Input	The horn is	deactivated	Battery voltage
(BR)	Ground	Hom relay control	при	The horn is	activated	0 V
45	Ground	Anti theft horn relay control	Input	The horn is	deactivated	Battery voltage
(G)	Cround	Talla alor Homitolay control	трис	The horn is	activated	0 V
46 (R)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V
(11)				SWILOIT 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
40				Ignition swi (More than ignition swi	a few seconds after turning	0 V
49 (BG)	Ground	ECM relay power supply	Output	Ignition s Ignition s (For a few tion switch)	witch OFF w seconds after turning igni-	Battery voltage

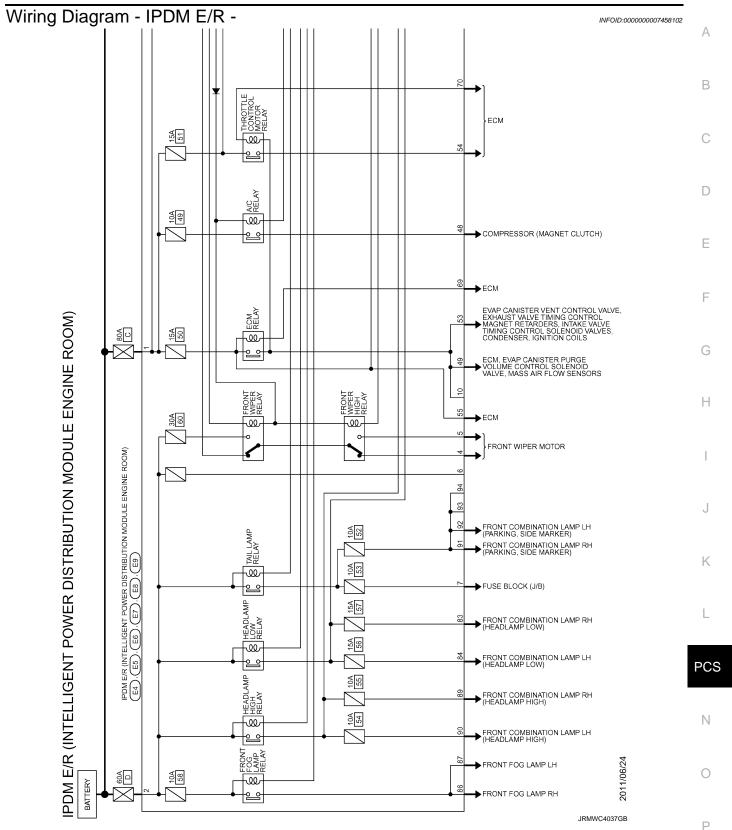
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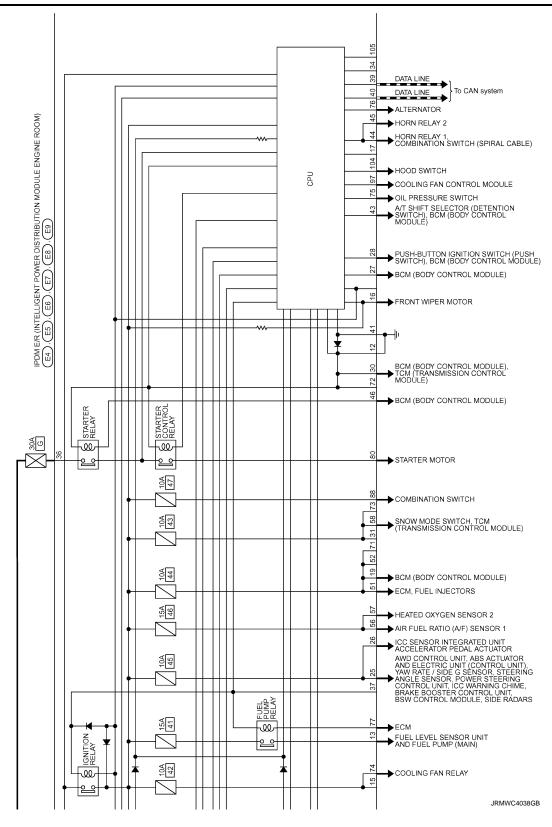
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
51	0	Innition volume	Outrass	Ignition switch OFF		0 V
(Y)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
FO				Ignition swi (More than ignition swi	a few seconds after turning	0 V
53 (W)	Ground	ECM relay power supply	Output	Ignition s	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
54 (P)	Ground	lay power supply	Output	Ignition s Ignition s (For a fe tion switch)	witch OFF w seconds after turning igni-	Battery voltage
55 (SB)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage
56	Ground	Ignition relay power supply	Output	Ignition switch OFF		0 V
(LG)	Ground	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
57	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V
(G)	Oloulia	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
58	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V
(V)	Oloulia	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
69				Ignition swi (More than ignition swi	a few seconds after turning	Battery voltage
(BR)	Ground	ECM relay control	Output	 Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) 		0 – 1.5 V
70 (BG)	Ground	Throttle control motor re- lay control	Output	Ignition switch ON $ ightarrow$ OFF		0 − 1.0 V ↓ Battery voltage ↓ 0 V
				Ignition switch ON		0 – 1.0 V
74	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V
(P)	Giouria	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
75	Ground	Oil pressure switch	Input	Ignition	Engine stopped	0 V
(SB)	Ground Oil pressure switch Input switch ON Engi		Engine running	Battery voltage		

	inal No.	Description		Condition		Value	۸	
+ (Wire	e color)	Signal name	Input/ Output			(Approx.)	А	
				Ignition sw	itch ON	(V) 6 4 2 0 2 2 2 ms JPMIA0001GB 6.3 V	ВС	
76 (Y)	Ground	Power generation command signal			40% is set on "ACTIVE TEST", "Output TERNATOR DUTY" of "ENGINE		(V) 6 4 2 0 2 2ms JPMIA0002GB 3.8 V	E
				80% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2 2ms JPMIA0003GB	G H	
77 (R)	Ground	Fuel pump relay control	Output	the igniti • Engine r Approxima	tely 1 second or more after	1.4 V 0 – 1.0 V Battery voltage	J	
80				turning the	ignition switch ON		K	
(W)	Ground	Starter motor	Output	At engine of	cranking	Battery voltage		
83	Ground	Headlamp LO (RH)	Output	Ignition	Lighting switch OFF	0 V	L	
(BG)		, ,		switch ON	Lighting switch 2ND	Battery voltage		
84 (V)	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V	PCS	
				SWILCH OIL	Lighting switch 2ND	Battery voltage 0 V		
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) 	Battery voltage	N	
					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	Р	
88 (GR)	Ground	Washer pump power supply	Output	Ignition sw	itch ON	Battery voltage		

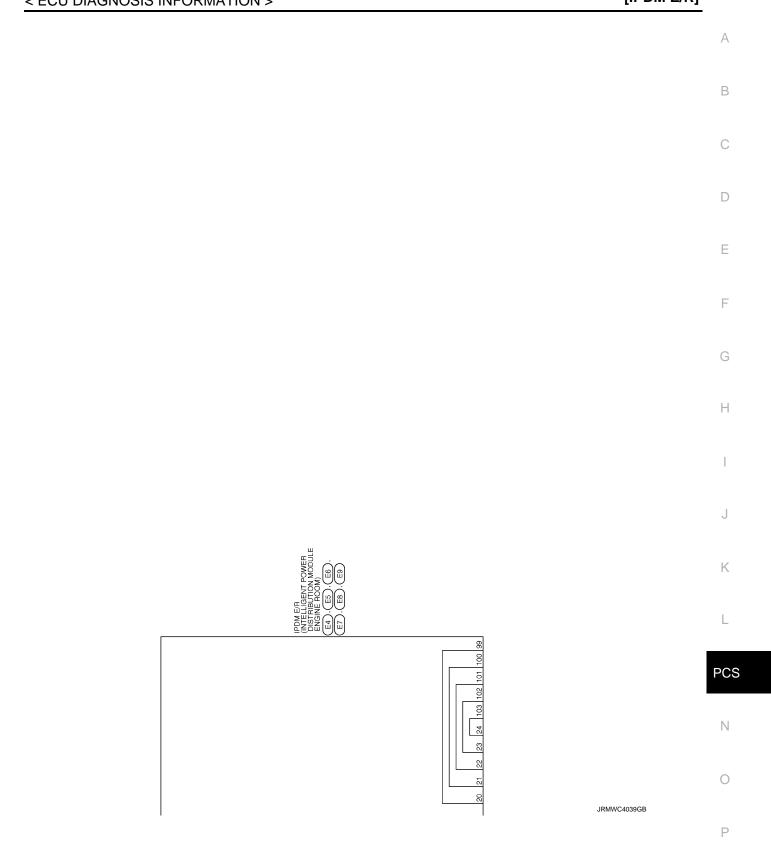
	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
89				Ignition	Lighting switch OFF	0 V
(BR)	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch HILighting switch PASS	Battery voltage
90				Ignition	Lighting switch OFF	0 V
(P)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HILighting switch PASS	Battery voltage
91	Ground	Parking lamp (RH)	Output	Ignition	Lighting switch OFF	0 V
(P)	Giodila	Faiking lamp (KH)	Output	switch ON	Lighting switch 1ST	Battery voltage
92	Ground	Parking lamp (LH)	Output	Ignition	Lighting switch OFF	0 V
(BG)	Giodila	Faiking lamp (LH)	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)	Giodila	11000 SWILOIT	input	Open the h	ood	0 V

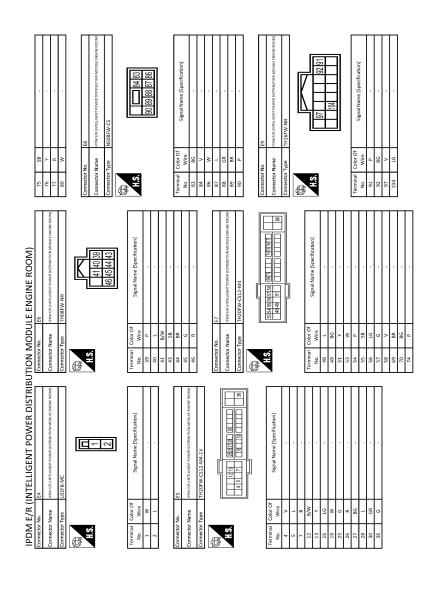
^{*:} Only for the models with ICC system





IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS INFORMATION > [IPDM E/R]





JRMWG8116GB

Fail-safe INFOID:0000000007458103

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

< ECU DIAGNOSIS INFORMATION >

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

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If No CAN Communication Is Available With BCM

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

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

Voltage judgment				
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.

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

< ECU DIAGNOSIS INFORMATION >

NOTE:

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

STARTER MOTOR PROTECTION FUNCTION

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

DTC Index INFOID:0000000007458104

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.

x: Applicable

	x. Applicable		
CONSULT display	Fail-safe	Reference	
No DTC is detected. further testing may be required.	_	_	
U1000: CAN COMM CIRCUIT	×	PCS-14	
B2098: IGN RELAY ON	×	PCS-15	
B2099: IGN RELAY OFF	_	PCS-16	
B210B: START CONT RLY ON	_	<u>SEC-77</u>	
B210C: START CONT RLY OFF	_	<u>SEC-78</u>	
B210D: STARTER RELAY ON	_	<u>SEC-79</u>	
B210E: STARTER RELAY OFF	_	SEC-80	
B210F: INTRLCK/PNP SW ON	_	SEC-82	
B2110: INTRLCK/PNP SW OFF	_	<u>SEC-84</u>	

< PRECAUTION > [IPDM E/R]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

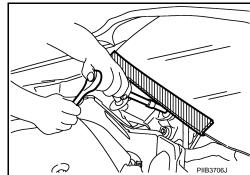
WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Procedure without Cowl Top Cover

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



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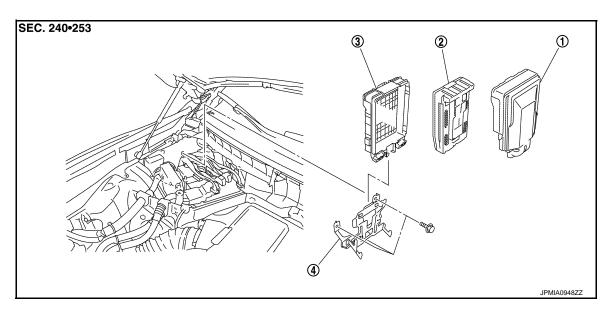
Revision: 2014 October PCS-31 2012 EX

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

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

Exploded View INFOID:0000000007458107



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

3. IPDM E/R cover B

4. Bracket

Removal and Installation

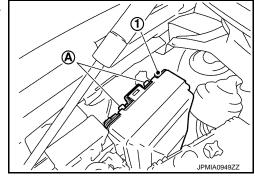
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CAUTION:

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

REMOVAL

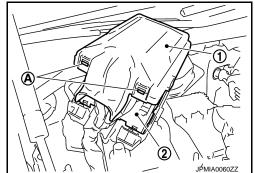
- Disconnect the battery cable from the negative terminal.
- 2. Remove the cowl top cover (RH). Refer to EXT-22, "Exploded View".
- Pull up the IPDM E/R assembly while pressing the pawls (A) on the back of the IPDM E/R cover B (1).



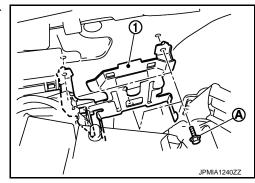
< REMOVAL AND INSTALLATION >

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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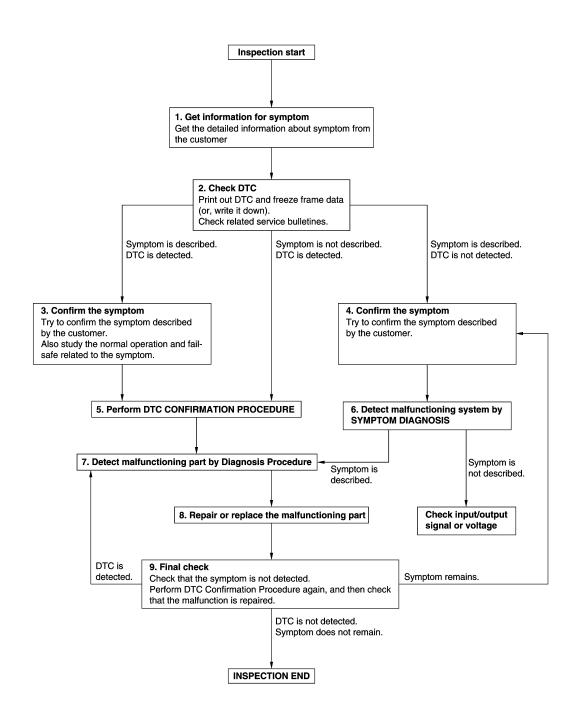
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[POWER DISTRIBUTION SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to BCS-85, "DTC Inspection Priority Chart" (BCM) or PCS-30, "DTC Index" (IPDM E/R), and determine trouble diagnosis order.

NOTE:

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

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-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.

Is the symptom described?

YES >> GO TO 7.

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

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[POWER DISTRIBUTION SYSTEM]

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-42, "Intermittent Incident".

8.repair or replace the malfunctioning part

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

POWER DISTRIBUTION SYSTEM

< 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.

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

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

NOTE:

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

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

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< SYSTEM DESCRIPTION >

Dower aupply position	Engine sta	Push-button ignition switch	
Power supply position -	Selector lever position	Selector lever position Brake pedal operation condition	
$LOCK \to ACC$	_	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

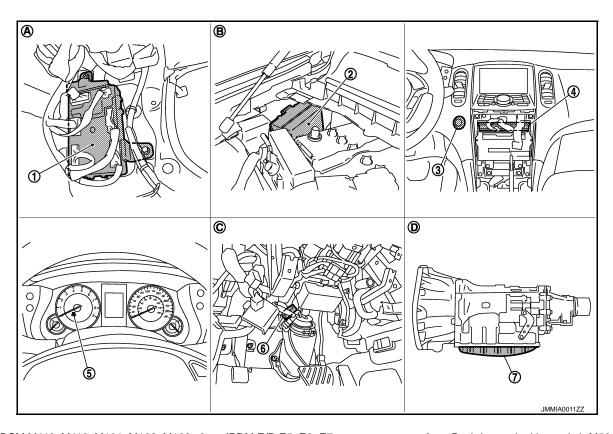
Power supply position	Engine start/stop condition		Push-button ignition switch	
rower supply position	Selector lever position	Brake pedal operation condition	operation frequency	
Engine is running → ACC	_	_	Emergency stop operation	
Engine stall return operation while driving	N position	Not depressed	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:0000000007458111



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

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

POWER DISTRIBUTION SYSTEM

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

A. Dash side lower (passenger side)

B. Engine room dash panel (RH)

C. Behind the instrument driver lower panel

D. A/T assembly

Component Description

INFOID:0000000007458112

Component	Reference
IPDM E/R	PCS-5
Ignition relay (Built-in IPDM E/R)	PCS-50
Ignition relay (Built-in fuse block)	PCS-48
Accessory relay	PCS-52
Blower relay	PCS-55
Stop lamp switch	<u>SEC-47</u>
Transmission range switch	<u>SEC-62</u>
Push-button ignition switch	PCS-65

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COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000007582805

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System	Sub system selection item	Diagnosis mode		
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 system Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
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	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.

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

[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		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK	Power supply position status of the moment a particular DTC is de- tected*	While turning power supply position from "OFF" to "LOCK"*	
Vehicle 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"*	
	OFF		Power supply position is "OFF" (Ignition switch OFF)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

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

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

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WORK SUPPORT

[POWER DISTRIBUTION SYSTEM]

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 fro 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 no 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	

[POWER DISTRIBUTION SYSTEM]

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< SYSTEM DESCRIPTION >

SELF-DIAG RESULT

Refer to BCS-86, "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	NOTE: This item is displayed, but cannot be monitored.	
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored.	
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored.	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.	
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.	
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.	
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.	
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.	
SFT P -MET	Indicates [ON/OFF] condition of P position.	
SFT N -MET	Indicates [ON/OFF] condition of N position.	
ENGINE STATE	Indicates [STOP/START/CRANK/RUN] condition of engine states.	
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored.	
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored.	
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored.	
VEH SPEED 1	Display the vehicle speed signal received from unified meter and A/C amp. by numerical value [Km/h].	
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].	
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.	
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.	
ID OK FLAG	Indicates [SET/RESET] condition of key ID.	
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.	
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.	

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< SYSTEM DESCRIPTION >

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

ACTIVE TEST

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

< SYSTEM DESCRIPTION >

[POWER DISTRIBUTION SYSTEM]

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

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[POWER DISTRIBUTION SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:000000007458115

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

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000007458117

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 INFOID:0000000007458118

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000007458119

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-92. "Exploded View".

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B2553 IGNITION RELAY

Description INFOID:000000007458120

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

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

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to PCS-48, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007458122

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-30, "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		(-)	Con	dition	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-32, "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:000000007458123

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

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

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B260A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-46, "DTC Logic".
- If DTC B260A is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>PCS-47, "DTC Logic"</u>.
- If DTC B260A is displayed with DTC B261A, first perform the trouble diagnosis for DTC B261A. Refer to <u>PCS-62, "DTC Logic"</u>.

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007458125

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-30. "DTC Index".

Is DTC detected?

YES >> Repair or replace the malfunctioning parts.

NO >> GO TO 2.

2. CHECK IGNITION RELAY INPUT SIGNAL

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

	+) CM	(-)	Voltage (V) (Approx.)	
Connector Terminal			(11, -)	
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

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

IPDM E/R		BCM		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?

YES >> Replace IPDM E/R. Refer to <u>PCS-32</u>, "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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B2614 ACC RELAY

Description INFOID:000000007458126

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:000000007458127

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

${f 1}$.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.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007458128

1. CHECK ACCESSORY RELAY POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK ACCESSORY RELAY POWER SUPPLY CIRCUIT

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

Accessory relay BCM			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]

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B2614 ACC RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

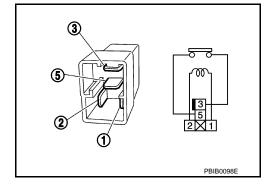
3. Check the continuity between accessory relay terminals.

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:0000000007458130

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:0000000007458131

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.

Is DTC detected?

YES >> Go to PCS-55, "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				(41)
1	Ground	Ignition switch	OFF or ACC	0
1		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	BCM Connector Terminal		Continuity
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	Ground	Continuity
Terminal		Continuity
1		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "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	y 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-56, "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:0000000007458133

1. CHECK BLOWER RELAY

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

B2615 BLOWER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

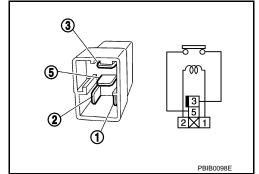
[POWER DISTRIBUTION SYSTEM]

3. Check the continuity between blower relay terminals.

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

Is the inspection result normal?

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



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B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

B2616 IGNITION RELAY CIRCUIT

Description INFOID:000000007458134

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:000000007458135

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

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007458136

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				(.pp. 3)
1	Cround	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	Continuity	
1	M122	82	Existed

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 3.CHECK IGNITION RELAY GROUN 1. Turn ignition switch OFF.		nd.	С
Ignition relay		Continuity	
Terminal	Ground		Е
ls the inspection result normal?		Existed	
NO >> Repair ignition relay group 4. CHECK IGNITION RELAY POWER 1. Turn ignition switch ON. 2. Check voltage between ignition relay group 1. Turn ignition switch on.			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	attery.	J K
Refer to PCS-59, "Component Inspect Is the inspection result normal? YES >> GO TO 6. NO >> Replace ignition relay. 6.CHECK INTERMITTENT INCIDENT.			L
Refer to GI-42, "Intermittent Incident".			PCS
>> INSPECTION END Component Inspection		INFOID:000000007458137	N
 CHECK IGNITION RELAY Turn ignition switch OFF. Remove ignition relay. 			O P

B2616 IGNITION RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

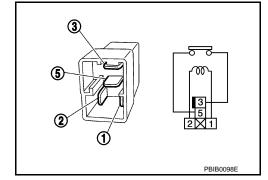
[POWER DISTRIBUTION SYSTEM]

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.



[POWER DISTRIBUTION SYSTEM]

B2618 BCM

Description INFOID:0000000007458138

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:0000000007458139

DTC DETECTION LOGIC

NOTE:

- If DTC B2618 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-46, "DTC Logic".
- If DTC B2618 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to PCS-47, "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	ВСМ

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1.INSPECTION START

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

See PCS-61, "DTC Logic".

Is the 1st trip DTC B2618 displayed again?

YES >> Replace BCM. Refer to BCS-92, "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:000000007458141

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.

Is DTC detected?

YES >> Go to PCS-62, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007458143

1. CHECK BCM OUTPUT

- Turn ignition switch OFF.
- 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-32, "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	DM E/R Push-button ignition switch Continuity		Push-button ignition switch	
Connector	Terminal	Connector	Terminal	Continuity
E5	28	M50	4	Existed

3. 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-92, "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:0000000007585261

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 cumbly	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.

BCM			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 INFOID:0000000007458145

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.
- 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 0311 3 W	Push-button ignition switch is not pressed	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Go to PCS-65, "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.

(+)		(-)	Voltage (V) (Approx.)
Push-button ignition switch			
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	stee	ering	lock	unit	

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

Push-button ignition switch

3. 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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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-92, "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	Terminal	Ground	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-66, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace push-button ignition switch. Refer to PCS-123, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007458148

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	Con	dition	Continuity
Terr	minal	COIL	uition	Continuity
1	4	Push-button ignition	Pressed	Existed
ı	4	switch	Not pressed	Not existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace push-button ignition switch. Refer to PCS-123, "Removal and Installation".

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER DISTRIBUTION SYSTEM]

PUSH-BUTTON IGNITION SWITCH POSITION INDICATOR

Description

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.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PCS-67, "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

- 1. 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-92, "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	ВС	СМ	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.

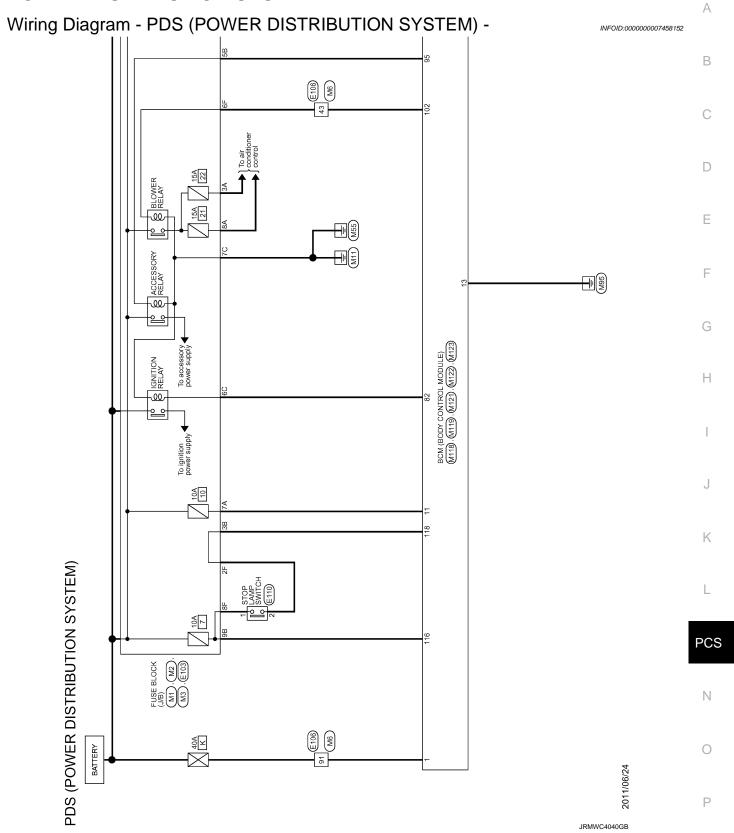
Indicator	В	CM		Continuity
indicator	Connector	Terminal		Continuity
LOCK	M123	134	Ground	
ACC	M119	15		Not existed
ON	M122	93		

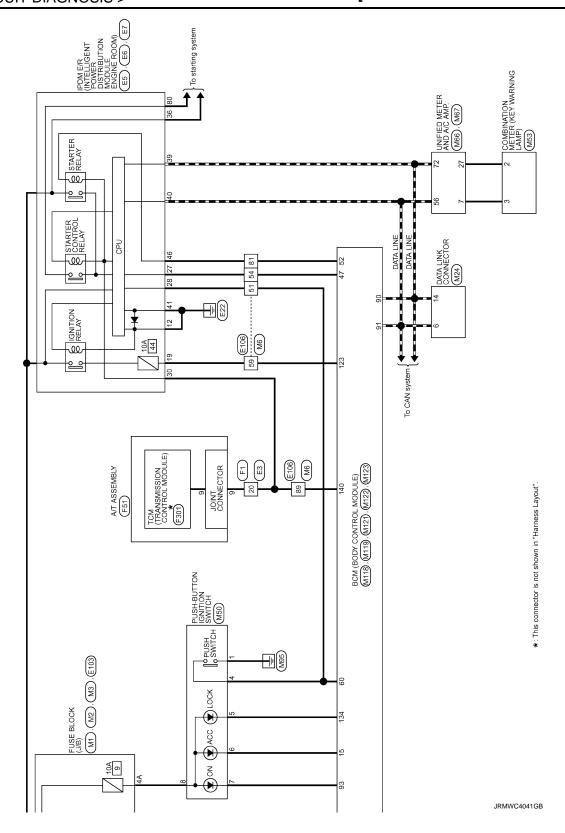
Is the inspection normal?

YES >> Replace push-button ignition switch. Refer to PCS-123, "Removal and Installation".

NO >> Repair or replace harness.

POWER DISTRIBUTION SYSTEM





POWER DISTRIBUTION SYSTEM

[POWER DISTRIBUTION SYSTEM]

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 | B/W | B/W

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Wire Signal Name (Specification) 8 GR Vire - - - P - - - L - - - B/W - - - R - - - R - - - R - - - R - - - R - - - R - - - R - - -

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Wire Signal Name [Specification] 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 12 86 13 86 BR - 14 8 14 8

 | Color Of
Wree Signal Name [Specification] 8 GR V - 9 87 P - 11 86 B/W - 11 58 BR - 13 86 BR - R R | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 B/W - 13 86 BR - 13 1 BR - 8 1 | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 B/W - 13 86 BR - 13 1 BR - 8 1 | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 B/W - 13 86 BR - 13 1 BR - 8 1
 | Color Of
Wire Signal Name (Specification) 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 13 86 13 86 B/R - 8 14 8 14 8 | Color Of
Wire Signal Name (Specification) 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 13 86 13 86 B/R - 8 14 8 14 8 | Color Of
Wire Signal Name (Specification) 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 13 86 13 86 B/R - 8 14 8 14 8 | Color Of
Wire Signal Name (Specification) 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 13 86 13 86 B/R - 8 14 8 14 8 | Color Of
Wire Signal Name (Specification) 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 13 86 13 86 B/R - 8 14 8 14 8
 | Color Of
Wire Signal Name [Specification] 8 GR V 7 8 8 L 1 10 86 L 1 86 11 58 B/W - 12 86 13 86 BR - 14 8 14 8 | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 SB - 13 86 BR - 14 8 I 8 8 14
 | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 SB - 13 86 BR - 14 8 I 8 8 14 | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 SB - 13 86 BR - 14 8 I 8 8 14
 | Color Of
Wree Signal Name [Specification] 8 GR V - 9 87 P - 11 86 B/W - 11 58 BR - 13 86 BR - R R | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 B/W - 13 86 BR - 13 1 BR - 8 1 | Color Of
Wire Signal Name [Specification] 8 GR V - 9 87 P - 10 86 I - 11 58 B/W - 13 86 BR - 13 1 BR - 8 1 |
| Color Of
Wire Signal Name [specification] 6 GR Wire 9 8R Y L - 11 58 RG SR - 12 8G RG SR - 8G RG RG RG SR - 8G R RG RG SR - RG R R R GR - RG R R R | Color Of
Wire Signal Name [specification] 8 7 Wire - 9 6R P - 10 86G L - 11 5B SB - 12 8G SB - 12 8G SB - 14 R SB - 14 R SB - 15 P | Color Of Wire Signal Name [specification] 8 GR V - 9 68 F - 11 58 B/W - 11 58 B/B - 13 86 B/B - 13 86 G - 14 8 IS P 14 8

 | Color Of Vire Signal Name [specification] 8 GR Wree - 9 68 P - 10 86 II - 11 58 BR - 13 16 G - 13 1 G - 14 R IS P 15 P

 | Color Of Vire Signal Name [specification] 8 GR Wree - 9 68 P - 10 86 II - 11 58 BR - 13 16 G - 13 1 G - 14 R IS P 15 P

 | Color Of Name [specification] Signal Name [specification] 8 7 Write - 9 68 7 P - 10 86 11 86 SB - 12 86 13 8 SB - 14 8 14 8 G - 15 P 15 P | Color Of Wree Signal Name (Specification) Wree Signal Name (Specification) 85 GR 87 GR 100 Bod 100 Bo | Color Of Wire Signal Name (Specification) 8 GR Wire Wire 8 RR I 10 8G RR I 10 8G RR I 11 SB RR I 12 RG RR I 14 R R I 14 R R I 15 P R

 | Color Of Vire Signal Name (Specification) 6 GR Wree - 9 87 P - 10 86 E/W - 11 56 B/N - 13 86 B/R - 14 R G - 14 R | Color Of Vire Signal Name (Specification) 8 GR Wree 10 8 7 P 10 80 10 L 11 86 11 B/W 13 86 13 BR 14 8 14 G 12 8 14

 | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/W - 12 8G B/R - 13 8G G - 14 8 I.3 R R R G - 12 R T - 15 P

 | Color Of Nore Signal Name [specification] 8 7 Wreal Name [specification] 9 68 F - 10 86 L - 11 58 SR - 13 86 R - 13 1 G - 14 R 15 P 15 P

 | Color Of
Wire Signal Name [specification] 8 7 Wire 9 8R Y P - 9 8R L - 11 5R SB - 12 8G SB - 13 8 SB - 14 R
 | Color Of
Wire Signal Name (Specification) 8 GR Wire 10 87 L 11 58 S/W 11 58 S/B 12 13 14 BR 15 P BR 15 P 15 P P
 | Color Of
Wree Signal Name (Specification) 6 GR V - - - P - - - B/N - - - BR - - - | Color Of
Wree Signal Name (Specification) 6 GR V - - - P - - - B/N - - - BR - - - | Color Of
Wire Signal Name [Specification] 8 GR V - - - - - - - - - - - - - - - - - - -
 -
 | Color Of Wree Signal Name [specification] 8 GR Wree 10 8 7 P 10 80 10 L 11 58 86 B/W 13 86 86 B/B 13 14 8 14 8 14 8
 | Color Of Wire Signal Name [specification] 8 GR Wre- - 9 88 P - 11 56 IN - 11 56 IN - 11 56 IN - 12 86 IN - 13 16 IN - 14 8 IN - 14 8

 | Color Of Wire Signal Name [specification] 8 GR V - | Color Of Wire Signal Name [specification] 6 GR V - - - F - - - L - - - BW - - - BR - - - BR - - - 14 R R | Color Of Wire Signal Name [specification] 6 GR V - - - F - - - L - - - BW - - - BR - - - BR - - - 14 R R | Color Of Wire Signal Name [specification] 6 GR V - - - F - - - L - - - BW - - - BR - - - BR - - - 14 R R | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 86 L - 11 58 BW - 13 8G BR - 13 8 BR - 8 14
 | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/B - 11 56 B/B - 13 16 B/B - 14 8 B/B - 8 14 | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/B - 11 56 B/B - 13 16 B/B - 14 8 B/B - 8 14 | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/B - 11 56 B/B - 13 16 B/B - 14 8 B/B - 8 14 | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/B - 11 56 B/B - 13 16 B/B - 14 8 B/B - 8 14 | Color Of Wire Signal Name [specification] 8 GR Wre- - 9 88 P - 11 56 IN - 11 56 IN - 11 56 IN - 12 86 IN - 13 16 IN - 14 8 IN - 14 8
 | Color Of Wire Signal Name [specification] 8 GR V -
 | Color Of Wire Signal Name [specification] 8 GR V - | Color Of Wire Signal Name [specification] 8 GR V -
 | Color Of Wire Signal Name [specification] 8 GR V - | Color Of Wire Signal Name [specification] 6 GR V - - - F - - - L - - - BW - - - BR - - - BR - - - 14 R R | Color Of Wire Signal Name [specification] 6 GR V - - - F - - - L - - - BW - - - BR - - - BR - - - 14 R R |
| Color Of
Wire Signal Name [specification] 5 GR Wire 9 6R L 11 58 B/W 12 8G SB 12 8G SB 12 8G SB 12 8G SB 13 R SB 14 R SB 14 R SB 15 P | Color Of
Wire Signal Name (Specification) 6 GR Wire - 9 6R P - 10 86 L - 11 5R SB - 12 86 SB - 12 86 SB - 13 8 SB - 14 R SB - 14 R SB - 15 P | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 L - 11 58 B/W - 11 58 BR - 13 16 G - 13 1 G - 14 R F - 15 P

 | Color Of
Wire Signal Name [specification] 6 GR V -

 | Color Of
Wire Signal Name [specification] 6 GR V -

 | Color Of
Wire Signal Name [Specification] 6 R 6 R Wire - 9 BG 9 BG P - 11 SB 11 SB SB - 12 BG 13 BG BB - 14 R 1 G - 15 P P | Color Of
Wire Signal Name (Specification) 6 GR Wire 9 8R 9 8R P - - 11 5B 8G BW - - 12 8G - SB - - 13 8 - SB - - 13 R - G - - - 15 P
 | Color Of Wire Signal Name (Specification) 6 R 6 R Wire 10 80 80 I P 11 58 80 S M 13 80 13 80 B R 14 8 8 G 14 8 8

 | Color Of Vire Signal Name [Specification] 6 R 6 R Vire 10 B 10 B 11 SB E IV 11 SB 11 SB 11 SB E IV 12 B 12 B 12 B E IV 12 B 12 B 12 B E IV 12 B 14 B 14 B | Color Of Vera Signal Name (Specification) Were

 | Color Of Wire Signal Name [specification] 6 RR 6 RR V - </td <td>Color Of
Wire Signal Name [specification] 6 GR V - 9 68 P - 10 86 L - 11 56 SB - 13 16 R - 14 R G - 15 P T - 14 R</td> <td>Color Of
Wire Signal Name [specification] 5 GR Wire 9 8R P 11 8G L - 11 5B SB - 12 8G SB - 13 8G SB - 13 R G - 15 P</td> <td>Color Of Wree Signal Name (Specification) 6 GR Wree 10 80 I P 11 58 Signal Name (Specification) 10 80 I P 11 58 Signal Name (Specification) 11 58 Signal Name (Specification) 11 58 Signal Name (Specification) 12 80 Signal Name (Specification) 13 14 8 Signal Name (Specification) 15 9 8</td> <td>Color Of Viral Signal Name [Specification] 6 GR Viral 10 8 7 P 10 80 10 El/V 11 58 80 B/N 12 86 80 B/R 13 14 8 G 15 9 8 B/N 15 9 8</td> <td>Color Of Vir. Signal Name [Specification] 6 GR Vir. 10 8 7 P 10 80 10 E/N 11 86 11 B/N 12 86 86 B/N 13 14 8 G 15 9 8</td> <td>Color Of Nure Signal Name [Specification] 6 GR V -</td> <td>Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/B - 13 8G B/B - 13 8 B/B - 14 8</td> <td>Color Of
Wire Signal Name [specification] 8 GR V -</td> <td>Color Of
Wire Signal Name [specification] 8 GR P - 9 68 L - 10 86 B/W - 86 13 86 BR - 14 R R</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R</td> <td>Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14</td> <td>Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14</td> <td>Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14</td> <td>Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14</td> <td>Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14</td> <td>Color Of
Wire Signal Name [specification] 8 GR V -
 - -</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 I - 11 58 B/W - 13 16 BR - 13 1 BR - 8</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 I - 11 58 B/W - 13 16 BR - 13 1 BR - 8</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 I - 11 58 B/W - 13 16 BR - 13 1 BR - 8</td> <td>Color Of
Wire Signal Name [specification] 8 GR P - 9 68 L - 10 86 B/W - 86 13 86 BR - 14 R R</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R</td> <td>Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R</td>

 | Color Of
Wire Signal Name [specification] 6 GR V - 9 68 P - 10 86 L - 11 56 SB - 13 16 R - 14 R G - 15 P T - 14 R

 | Color Of
Wire Signal Name [specification] 5 GR Wire 9 8R P 11 8G L - 11 5B SB - 12 8G SB - 13 8G SB - 13 R G - 15 P

 | Color Of Wree Signal Name (Specification) 6 GR Wree 10 80 I P 11 58 Signal Name (Specification) 10 80 I P 11 58 Signal Name (Specification) 11 58 Signal Name (Specification) 11 58 Signal Name (Specification) 12 80 Signal Name (Specification) 13 14 8 Signal Name (Specification) 15 9 8 | Color Of Viral Signal Name [Specification] 6 GR Viral 10 8 7 P 10 80 10 El/V 11 58 80 B/N 12 86 80 B/R 13 14 8 G 15 9 8 B/N 15 9 8
 | Color Of Vir. Signal Name [Specification] 6 GR Vir. 10 8 7 P 10 80 10 E/N 11 86 11 B/N 12 86 86 B/N 13 14 8 G 15 9 8 | Color Of Nure Signal Name [Specification] 6 GR V -

 | Color Of Wire Signal Name [specification] 8 GR Wre - 9 89 F - 11 56 B/W - 11 56 B/B - 13 8G B/B - 13 8 B/B - 14 8 | Color Of
Wire Signal Name [specification] 8 GR V -

 | Color Of
Wire Signal Name [specification] 8 GR P - 9 68 L - 10 86 B/W - 86 13 86 BR - 14 R R | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R
 | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R | Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14 | Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14 | Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14 | Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14
 | Color Of Wire Signal Name [Specification] 8 GR Wree 9 68 9 P - 11 56 B/W - 11 58 B/B - 13 8G B/B - 13 8 B/B - 8 14 | Color Of
Wire Signal Name [specification] 8 GR V -
 | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 I - 11 58 B/W - 13 16 BR - 13 1 BR - 8 | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 I - 11 58 B/W - 13 16 BR - 13 1 BR - 8
 | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 I - 11 58 B/W - 13 16 BR - 13 1 BR - 8 | Color Of
Wire Signal Name [specification] 8 GR P - 9 68 L - 10 86 B/W - 86 13 86 BR - 14 R R | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R | Color Of
Wire Signal Name [specification] 8 GR V - 9 68 P - 10 86 L - 11 56 R/W - 66 13 BR - 14 R 14 R R |
| Color Of
Wire Signal Name [specification] S GR V - | Color Of
Whre
Whre
L Signal Name [specification] S GR V 9 6R L 11 58 SB 12 8G SB 12 8G SB 13 8 SB 13 R SB 14 R SB 15 P SB 14 R SB 15 P | Color Of
Wire Signal Name (Specification) S GR V - 9 68 P - 10 86 L - 11 56 SR - 13 86 BR - 13 1 G - 8 1 A - 8 1 BR - 8 8

 | Color Of Wire Signal Name (Specification) 6 GR Wire 9 88 9 86 P - 11 56 7 SB - 11 56 7 BR - 12 86 13 1 BR - 14 8 1 G - 9 8 7

 | Color Of Wire Signal Name (Specification) 6 GR Wire 9 88 9 86 P - 11 56 7 SB - 11 56 7 BR - 12 86 13 1 BR - 14 8 1 G - 9 8 7

 | Color Of
Whree Signal Name [Specification] 5 GR Whee - 9 8R P - 11 2R BA - 12 8G SB - 12 8G SB - 12 8G SB - 14 R G - 15 P T - 14 R T - 15 P | Color Of
Whre
Whre
I Signal Name [specification] S GR P -
 | Color Of Variety Signal Name [Specification] 8 GR Wree 10 8 8 L 10 8 8 L 10 8 8 L 11 86 8 BR 12 13 1 G 12 8 1 T 14 8 1 T 15 8 1 G 12 8 1

 | Color Of Wire Signal Name [specification] 6 R 6 R Wire -< | Color Of
Wire Signal Name [Specification] 6 R 7 V -
 -

 | Color Of
Wire Signal Name (Specification) 6 V V -

 | Color Of Wire Signal Name (Specification) S GR Wire - 9 8R P - 11 8G L B/W - 12 8G RR - 12 8G RR - 13 R G - 14 R T - 15 P

 | Color Of
Whre
Whre
I Signal Name [specification] S GR V GR S GR L - BR BR L - - BG SR - - BG SR - - BG SR - - BG A - - BG B - - BG B - - - B - - - B - - - B - - - B - - - B - - - B - - - B - - - B - - - B - - - B - - - B - - -

 | Color Of
Wree Signal Name [Specification] 8 GR V 1 8 8 L 10 8 8 L 10 86 11 56 B - 13 1 1 B - 12 8 1 B - 9 8 8 B - 9 8 8 | Color Of
Wire Signal Name [Specification] 8 GR Wre-
Wire 1 8 Y P 1 8 Y L 1 11 SB L 1 11 SB B 1 1 BG B 1 B B B 1 B B B 1 B B B 1 B B B 1 B B
 | Color Of
Wire Signal Name [Specification] 8 GR Wre-
Wire 1 8 Y P 1 8 Y L 1 11 SB L 1 11 SB B 1 1 BG B 1 B B B 1 B B B 1 B B B 1 B B B 1 B B | Color Of
Wire Signal Name [Specification] 8 GR V

 | Color Of
Wire Signal Name [Specification] 8 9 6R P . 9 6B 9 6B P . 11 5B 11 5B B/W . B/G 13 B/G B/B . B/G 13 B/G B/B . B/G 14 B/G | Color Of
Wire Signal Name (Specification) 8 VR V -

 | Color Of
Wire Signal Name [Specification] S GR V 9 8R Y P 11 8G R FW - 8G R FR - 11 8G FR - 13 1 8G FR - R R R | Color Of
Whre
P Signal Name [Specification] S GR P - 9 8R P - 11 8G R/W - 8G 12 BR - 12 8G BR - 13 R BR R R R | Color Of
Whre
P Signal Name [Specification] S GR P - 9 8R P - 11 8G R/W - 8G 12 BR - 12 8G BR - 13 R BR R R R
 | Color Of
Whre
P Signal Name [Specification] S GR P - 9 8R P - 11 8G R/W - 8G 12 BR - 12 8G BR - 13 R BR R R R | Color Of
Wire Signal Name [Specification] 6 Y F - 9 66 F - 10 86 F - 11 58 B/W - 86 86 BR - 13 16 BR - 8 6 | Color Of
Wire Signal Name [Specification] 6 Y F - 9 66 F - 10 86 F - 11 58 B/W - 86 86 BR - 13 16 BR - 8 6 | Color Of
Wire Signal Name [Specification] 6 Y F - 9 66 F - 10 86 F - 11 58 B/W - 86 86 BR - 13 16 BR - 8 6 | Color Of
Wire Signal Name [Specification] 6 Y F - 9 66 F - 10 86 F - 11 58 B/W - 86 86 BR - 13 16 BR - 8 6
 | Color Of
Wire Signal Name [Specification] 6 Y F - 9 66 F - 10 86 F - 11 58 B/W - 86 86 BR - 13 16 BR - 8 6 | Color Of
Wire Signal Name (Specification) 8 VR V -
 | Color Of
Wire Signal Name (Specification) 8 GR V 9 8 Y P 1 86 Y I - 11 58 B/W - 86 86 BR - 13 L BR - 8 8 | Color Of
Wire Signal Name (Specification) 8 GR V 9 8 Y P 1 86 Y I - 11 58 B/W - 86 86 BR - 13 L BR - 8 8
 | Color Of
Wire Signal Name (Specification) 8 GR V 9 8 Y P 1 86 Y I - 11 58 B/W - 86 86 BR - 13 L BR - 8 8 | Color Of
Wire Signal Name [Specification] S GR V 9 8R Y P 11 8G R FW - 8G R FR - 11 8G FR - 13 1 8G FR - R R R | Color Of
Whre
P Signal Name [Specification] S GR P - 9 8R P - 11 8G R/W - 8G 12 BR - 12 8G BR - 13 R BR R R R | Color Of
Whre
P Signal Name [Specification] S GR P - 9 8R P - 11 8G R/W - 8G 12 BR - 12 8G BR - 13 R BR R R R |
| Color Of
Wire Signal Name [specification] S GR V - - - L - - - B/W - - - SB - - - B/W - - - SB - - - BG - - - C - - - C - - - T - - - T - - - T - - - T - - - T - - - T - - - T - - - T - - - T - - - T - - - T - - - | Color Of
Whree Signal Name [specification] S GR VMre P Y Y L - BR BR E/W - BG BG SB - BG B TA B B | Color Of
Whree Signal Name [Specification] S GR P - 9 8R P - 11 5B SR - 11 5B SR - 13 16 BR - 14 R G - 15 P TA - 14 R

 | Color Of
Whree Signal Name [Specification] S GR P - 9 8R P - 11 5B ERW - 12 8G SR - 12 8G SR - 14 R G - 14 R F - 14 R

 | Color Of
Whree Signal Name [Specification] S GR P - 9 8R P - 11 5B ERW - 12 8G SR - 12 8G SR - 14 R G - 14 R F - 14 R

 | Color Of
Whre
Whre
I Signal Name [specification] S GR P - | Color Of
Wire Signal Name [specification] S GR V - - - L - - - B/W - - - SB - - - | Color Of Work Signal Name [Specification] 6 R 7 R Work 10 BR 10 BR 11 SF EM 11 SF 13 R 15 R BR 12 R 14 R 14 R G 12 R 14 R 15 R

 | Color Of
Wire Signal Name [Specification] 6 R R V - | Color Of
Wire Signal Name (Specification) 6 GR V -

 | Color Of
Whree Signal Name (Specification) S GR V 9 88 V 11 58 B/W - 11 58 B/R - 13 86 B/R - 13 86 B/R - 14 8 G - 14 8 Is P 14 8 Is P 15 P

 | Color Of
Whree Signal Name [specification] S GR P - 9 8R P - 11 5R BW - 12 8G SB - 12 8G BR - 12 8G G - 14 R T - 14 R

 | Color Of
Whree Signal Name [specification] S GR V -

 | Color Of
Whre Signal Name [Specification] S GR CR P 10 BR 10 BR B/W 11 BG 11 BG S/B 12 BG 12 BG S/B 13 L 13 L G 15 P R | Color Of
Ware Signal Name [Specification] 8 GR V | Color Of
Ware Signal Name [Specification] 8 GR V
 | Color Of
Wire Signal Name [Specification] 6 7 R P -

 | Color Of
Wire Signal Name (Specification) S GR P - | Color Of
Whree Signal Name (Specification) S GR P -

 | Color Of
Whre
P Signal Name [Specification] S GR p 9 8R 9 8R p 11 5B 8G 11 5B kW - - 12 8G 12 8G BR - - 12 12 8G 12 8G | Color Of
Whree Signal Name [specification] S GR P - 9 8R P - 11 5B BW - 12 8G BR - 12 8G BR - 14 R | Color Of
Whree Signal Name [specification] S GR P - 9 8R P - 11 5B BW - 12 8G BR - 12 8G BR - 14 R | Color Of
Whree Signal Name [specification] S GR P - 9 8R P - 11 5B BW - 12 8G BR - 12 8G BR - 13 R BR - 14 R
 | Color Of
Wire Signal Name (Specification) S GR P - | Color Of
Wire Signal Name (Specification) S GR P - | Color Of
Wire Signal Name (Specification) S GR P - | Color Of
Wire Signal Name [Specification] S GR P - | Color Of
Wire Signal Name [Specification] S GR P -
- - - - - - - - | Color Of
Whree Signal Name (Specification) S GR P - | Color Of
Whre
P Signal Name [Specification] S GR P 1 88 86 P 11 86 11 B/W - 86 13 86 BR - 13 16 86 BR - 88 14 8
 | Color Of
Whre
P Signal Name [Specification] S GR P 1 88 86 P 11 86 11 B/W - 86 13 86 BR - 13 16 86 BR - 88 14 8 | Color Of
Whre
P Signal Name [Specification] S GR P 1 88 86 P 11 86 11 B/W - 86 13 86 BR - 13 16 86 BR - 88 14 8
 | Color Of
Whre
P Signal Name [Specification] S GR p 9 8R 9 8R p 11 5B 8G 11 5B kW - - 12 8G 12 8G BR - - 12 12 8G 12 8G | Color Of
Whree Signal Name [specification] S GR P - 9 8R P - 11 5B BW - 12 8G BR - 12 8G BR - 13 R BR - 14 R | Color Of
Whree Signal Name [specification] S GR P - 9 8R P - 11 5B BW - 12 8G BR - 12 8G BR - 13 R BR - 14 R |
| Color Of
Wire Signal Name (Specification) S GR CR P 10 8G Y PR | Color Of
Wire Signal Name [Specification] S CR CR V - | Color Of
Wire Signal Name [specification] S CBA V -

 | Color Of
Wire Signal Name [specification] S CB CB P -

 | Color Of
Wire Signal Name [specification] S CB CB P -

 | Color Of
Wire Signal Name [Specification] S CR CR V - | Color Of
Wire Signal Name [Specification] S GR CR P 10 BR 9 BR E/W 10 BG 11 BG SR 12 BG 12 BG SR 13 R R GR 15 P P | Color Of
Wire Signal Name (Specification) S GR S GR P . . 9 BR B/W . 11 8G SB . 12 8G SB . 13 L G . 14 RG G . 14 R G . 15 P

 | Color Of Ware Signal Name (Specification) S CR | Color Of
Wire Signal Name [specification] S CR V COLOR Signal Name [specification] S CR P C S S S R S S S S B C S S S B C S S S C C S S S T T R R R T T C F F

 | Color Of
Wire Signal Name [specification] 6 CBA VM -

 | Color Of
Wire Signal Name [specification] S CB Y P 1 9 8R L - 11 5B SB - 11 5B SB - 12 8C SB - 12 8C SB - 14 R G - 15 P

 | Color Of
Wire Signal Name (Specification) S GR CR I 1 9 BR I 1 10 BG B/W - 12 BG SR - 12 BG SR - BG 1 G - R R I 14 R R I 15 P P
 | Color Of
Wire Signal Name [specification] S GR CR P -
 - | Color Of
Wire Signal Name [Specification] S GR CR P . 10 8R 10 8R I . . 12 8G 12 8G SB . . 13 12 8G 13 14 8G 12 14 12 14 14 14 14 14 15 P< | Color Of
Wire Signal Name [Specification] S GR CR P . 10 8R 10 8R I . . 12 8G 12 8G SB . . 13 12 8G 13 14 8G 12 14 12 14 14 14 14 14 15 P
P P< | Color Of
Ware Signal Name [specification] 6 GR P P 9 8R P 11 5B 8G B/W - 11 5B B/R - 13 16 B/R - 14 R B/R - 14 R

 | Color Of
Wire Signal Name [specification] S CR V F Y Y P F BR BR I I BG BW - BG BR - BG | Color Of
Whree Signal Name [Specification] 6 GR P P 10 88 P 11 58 86 B/W - 11 58 SS - 12 86 BR - 13 1 14 8 1 1 14 8 1 1

 | Color Of
Wire Signal Name [Specification] S CBA P | Color Of
Wire Signal Name [specification] S CBA P | Color Of
Wire Signal Name [specification] S CBA P | Color Of
Wire Signal Name [specification] S CBA P | Color Of
Whree Signal Name [specification] S CR P 1 9 8R P 11 5B 8B B/W - 11 5B SB -
 13 16 BR - 13 1 14 R R | Color Of
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Wire Signal Name [Specification] S GAB P - - - L - - - LB/W - - - SB - - - BB - - - BB - - - G - - - BB - - - TS - - -

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Wire Signal Name [Specification] S GR S GR S GR P

 | Color Of Signal Name (Specification)

 | Color Of Verent Signal Mane [Specification] 6 R 7 6 R 7 7 6 R 7 7 8 R 7 8 R 7 8 R 7 8 R 7 8 R 7 8 R 7 8 R 9 R | Color Of Language Signal Manne [Specification] S GR S GR P - - 10 8G P - - 11 8G SB - - 12 8G SB - - 13 1 BR - - - - BR - - - - 15 P P -
 | Color Of Language Signal Manne [Specification] S GR S GR P - - 10 8G P - - 11 8G SB - - 12 8G SB - - 13 1 BR - - - - BR - - - - 15 P P - | Color Of Virtue Signal Name [specification]

 | Color Of
Wire Signal Name [Specification] 6 R
8 R
8 R P 11 28 B
11 BW 28 B
11 28 B
11 BR 11 28 B
11 BR 12 86 B
13 BR 13 8 B
13 BR 14 8 B
14 | Color Of
Wire Signal Name [Specification] 6 R
8 R
9 R P 11 SB E WW 11 SB BR 13 BC BR 14 R

 | Color Of
Wire Signal Name (Specification) S GR S GR Y P P S | Color Of
Wire Signal Name (Specification) 5 GR 5 GR P - - 9 BR P - - 11 SB BM - 11 SB BM - 12 BG BR - 12 BG BR R R R | Color Of
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| Color Of Wire Signal Mane [Specification] 5 4 GR | Color Of Market Signal Name (Specification) 5 GR Wire 10 86 7 P 10 86 88 L 10 86 11 B/W 12 86 SB 12 86 SB 12 86 SB 12 86 SB 13 8 SB 13 8 SB 14 8 SB 14 8 SB 14 8 | Color Of Variety Signal Name (Specification)

 | Color Of Signal Name [specification] Color Of Signal Name [specification] Signal Name [specificatio

 | Color Of Signal Name [specification] Color Of Signal Name [specification] Signal Name [specificatio

 | Color Of Signal Name [Specification] | Color Of Signal Name [Specification] | Color Of Vertex Signal Name [specification] S 6 G 7 P - </td <td> Color Of Signal Name [Specification] Signal Name [Specificat</td> <td> Color Of Wire Signal Name [Specification] Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Signal Name </td> <td>Color Of Value Signal Name (Specification) 5 GR 5 GR 5 GR 7 7 7 7 7 7 8 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 9 8 9 8 8 9<td>Color Of Signal Mane [Specification] 5 GR 5 GR 7 GR 7 GR 7 GR 7 GR 7 GR 7 GR</td><td>Color Of Signal Name [Specification]</td><td> Color Of Signal Manne [Specification] Signal Manne [Spec</td><td> Color Of Wire Signal Name [Specification] Signal Name [Speci</td><td> Color Of Wire Signal Name [Specification] Signal Name [Speci</td><td> Color Of Signal Name [specification] Signal Name [specificat</td><td> Color Of Whre Signal Name Specification Signal Name Si</td><td>Color Of
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 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R</td><td>Color Of
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Wire Signal Name (Specification) 5 GR 5 GR P P S</td><td>Color Of
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Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R</td><td>Color Of
Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R</td></td> | Color Of Signal Name [Specification] Signal Name [Specificat | Color Of Wire Signal Name [Specification] Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name

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Wire Signal Name (Specification) 6 R
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Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R</td> <td>Color Of
Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R</td> | Color Of Signal Mane [Specification] 5 GR 5 GR 7 GR 7 GR 7 GR 7 GR 7 GR 7 GR

 | Color Of Signal Name [Specification]

 | Color Of Signal Manne [Specification] Signal Manne [Spec | Color Of Wire Signal Name [Specification] Signal Name [Speci
 | Color Of Wire Signal Name [Specification] Signal Name [Speci | Color Of Signal Name [specification] Signal Name [specificat
 | Color Of Whre Signal Name Specification Signal Name Si
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Wire Signal Name (Specification) 5 GR 5 GR P P S F
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Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R
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Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R | Color Of
Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R | Color Of Wire Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Si | Color Of Wire Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Si | Color Of Wire Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Si | Color Of Wire Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Si | Color Of Wire Signal Name [Specification] Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Si | Color Of
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 | Color Of
Ware Signal Name [Specification] 5 GR 5 GR P P 9 BR 9 BR L - - 11 SB SB/W - 12 BG BR - 12 BG BR - 14 R |
| Color Of Verent Value Signal Manne [Specification] 5 GR Verent Value 10 88 11 88 F | Color Of Value Signal Mane [Spacification] 5 GR Wire 10 80 8 P 10 80 8 B/W 11 80 11 B/W 12 86 12 B/W 12 86 12 B/W 13 8 14 B/W 14 8 14 B/W 15 8 14 B/W 14 8 14 B/W 15 8 14 B/W 16 16 16 | Color Of Signal Name (Specification)

 | Color Of Market Signal Name (Specification) 6 K 5 G K Wree 1 C 9 BK 9 BK EW 11 BG 11 BG SB 12 BG 12 BG SB 13 BG 13 BG SB 13 BG 15 BG SB 13 BG 15 BG SB 14 BG 15 BG SB 15 BG 15 BG

 | Color Of Market Signal Name (Specification) 6 K 5 G K Wree 1 C 9 BK 9 BK EW 11 BG 11 BG SB 12 BG 12 BG SB 13 BG 13 BG SB 13 BG 15 BG SB 13 BG 15 BG SB 14 BG 15 BG SB 15 BG 15 BG

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 | Color Of Signal Name [specification] Signal Name [specificat | Color Of Wire Signal Name [specification] S GR F -

 | Color Of Color Of Signal Name (Specification)

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 | Color Of Signal Name [specification] Signal Name [specificat | Color Of Wire Signal Name [specification] Signal Name [speci | Color Of Wire Signal Name [specification] Signal Name [speci | Color Of Signal Name [specification] 5 GR 5 GR 7 GR 7 GR 7 GR 7 GR 7 GR 7 GR

 | Color Of Signal Name [specification] S G R
 | Color Of
Wire Signal Name (Specification) 6 K 6 K P P 9 BK 9 BK P - - 11 58 BW - - 11 58 BW - - 12 8G BR - - 12 8G BR - - - -

 | Color Of
Wire Signal Name [Specification] 5 GR 5 GR 6 7 6 8 7 7 6 8 8 8 8 8 8 8 9 8 9 8 9 9 8 9 9 8 9 | Color Of Virginal Name (Specification) Signal Name (Specification) | Color Of Virginal Name (Specification) Signal Name (Specification) | Color Of Virginal Name (Specification) Signal Name (Specification) | Color Of
Wire Signal Name (Specification) 6 K P P 8 BK P - 11 58 R/W - 11 58 BK - 11 58 BK - 12 80 BK - 13 1 BK - 14 8 BK - 8 14 | Color Of
Wire Signal Name (Specification) 6 K P P 8 BK P - 11 58 R/W - 11 58 BK - 11 58 BK - 12 80 BK - 13 1 BK - 14 8 BK - 8 14 | Color Of
Wire Signal Name (Specification) 6 K P P 8 BK P - 11 58 R/W - 11 58 BK - 11 58 BK - 12 80 BK - 13 1 BK - 14 8 BK - 8 14
 | Color Of
Wire Signal Name (Specification) 6 K P P 8 BK P - 11 58 R/W - 11 58 BK - 11 58 BK - 12 80 BK - 13 1 BK - 14 8 BK - 8 14 | Color Of
Wire Signal Name (Specification) 6 K P P 8 BK P - 11 58 R/W - 11 58 BK - 11 58 BK - 12 80 BK - 13 1 BK - 14 8 BK - 8 14 | Color Of
Wire Signal Name (Specification) 6 K 6 K P P 9 BK 9 BK P - - 11 58 BW - - 11 58 BW - - 12 8G BR - - 12 8G BR - - - -
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Ware Signal Name [Specification] 5 GR 5 GR 6 6 6 7 6 7 7 6 7 7 9 8F 9F | Color Of
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Ware Signal Name [Specification] 5 GR 5 GR 6 6 6 7 6 7 7 6 7 7 9 8F 9F | Color Of
Wire Signal Name [Specification] 5 GR 5 GR 6 7 6 8 7 7 6 8 8 8 8 8 8 8 9 8 9 8 9 9 8 9 9 8 9 | Color Of Virginal Name [specification] Signal Name [specification] | Color Of Virginal Name [specification] Signal Name [specification] |
| Color Of Signal Name [Specification] 5 GR 5 G | Color Of Vir. Signal Manne [Specification] 5 GR 5 GR 5 GR 7 7 GR 7 7 9 BR 7 7 9 BR 7 8 7 8 7 8 7 8< | Color Of Signal Name (Specification) 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7

 | Color Of Signal Name [Specification]

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 | Color Of Signal Name (Specification)

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 | Color Of
Whee Signal Name [specification] 6 R
S GR P 10 88 B/W 12 86 B/W 12 86 B/W 12 86 B/W 13 86 B/W 14 86 B/W 14 86 B/W 14 87 B/W 15 87
 | Color Of Wire Signal Name [Specification] Signal Name [Speci | Color Of Signal Name [specification] Signal Name [specificat
 | Color Of Signal Name [specification] Signal Name [specificat | Color Of Nume [specification] Signal Name [specification] 5 GR Vine 10 8 Y L 10 8G B/N 11 5G SB 13 L R 14 R R 14 R

 | Color Of Signal Name [specification] Signal Name [specificat | Color Of Variety Signal Name (Specification) S 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 6 8 6 6 6 8 6

 | Color Of Virginal Name (Spicification) Signal Name (Spicification) | Color Of Signal Name (Specification) 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 | Color Of Signal Name (Specification) 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 | Color Of Signal Name (Specification) 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 | Color Of Wire Signal Name [specification] 5 GR Vir. 1 8 Y L - 10 86 L - 11 58 B/W - 11 58 B/B - 11 58 B/B - 13 14 86 B/B - 13 14 8
 | Color Of Wire Signal Name [specification] 5 GR Vir. 1 8 Y L - 10 86 L - 11 58 B/W - 11 58 B/B - 11 58 B/B - 13 14 86 B/B - 13 14 8 | Color Of Wire Signal Name [specification] 5 GR Vir. 1 8 Y L - 10 86 L - 11 58 B/W - 11 58 B/B - 11 58 B/B - 13 14 86 B/B - 13 14 8 | Color Of Wire Signal Name [specification] 5 GR Vir. 1 8 Y L - 10 86 L - 11 58 B/W - 11 58 B/B - 11 58 B/B - 13 14 86 B/B - 13 14 8 | Color Of Wire Signal Name [specification] 5 GR Vire Vignal Name [specification] 8 Y L - 10 86 L - 11 58 B/W - 11 58 B/B - 13 16 B/B - 13 14 B/B - 14 8 | Color Of Variety Signal Name (Specification) S 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 6 8 6 6 6 8 6
 | Color Of
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| Collect of Signal Name [Specification] | Color Of Value Signal Name [specification] 5 GR 5 GR 5 GR 7 7 GR 7 7 9 89 7 7 10 80 7 80 8 8 8 11 12 86 8 8 8 8 12 86 8 | Color Of Signal Name [Specification]

 | Color Of Signal Name [Specification]

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 | Color Of Wire Signal Name [specification] 5 GR Wire - - - Wire - - - L - - - SB - - - SB - - - BB - - - G - - - 13 L R G - - - 15 P -
 | Color Of Wire Signal Name [specification] 5 GR 5 GR 5 GR 5 GR 6 7 7 6 R 7 7 8 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 9 <td>Color Of Signal Name (Specification)</td> <td>Color Of Signal Name [Specification] Signal Name [Specification]</td> <td>Color Of Value Signal Name [Specification] 6 / 6 / 8 Very Color Of Value 10 / 80 / 80 / 80 / 80 / 80 / 80 / 80 /</td> <td> Color Of Signal Name [specification] Signal Name [specificat</td> <td> Color Of Signal Name (Specification) S G R </td> <td> Color Of Signal Name (Specification) S G R </td> <td>Color Of Wire Signal Name [specification] 5 GR Vire Vignal Name [specification] 8 Y L . 10 86 L . 11 56 SB . 12 86 SB . 13 1 R . 14 R R . 14 R</td> <td> Color Of Signal Name [specification] S G R </td> <td>Color Of Wire Signal Name [specification] 5 GR Vire 10 8 Y V 10 86 Y E 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 12 86 Y B/N 13 14 8 B/N 14 8 Y</td> <td>Color Of Language Signal Name (Specification) S</td> <td>Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S</td> <td>Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S</td> <td>Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S</td> <td> Color Of Signal Name [specification] 5 GR 5</td> <td> Color Of Signal Name [specification] 5 GR 5</td> <td> Color Of Signal Name [specification] 5 GR 5</td> <td> Color Of Signal Name [specification] 5 GR 5</td> <td> Color Of Signal Name [specification] 5 GR 5</td> <td>Color Of Wire Signal Name [specification] 5 GR Vire 10 8 Y V 10 86 Y E 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 12 86 Y B/N 13 14 8 B/N 14 8 Y</td> <td>Color Of Language Signal Name (Specification) S GR S GR VP L 9 8R L - 11 58 B/W - 11 58 B/W - 12 56 B/W - 13 58 B/W - 14 8</td> <td>Color Of Language Signal Name (Specification) S GR S GR VP L 9 8R L - 11 58 B/W - 11 58 B/W - 12 56 B/W - 13 58 B/W - 14 8</td> <td>Color Of Language Signal Name (Specification) S GR S GR VP L 9 8R L - 11 58 B/W - 11 58 B/W - 12 56 B/W - 13 58 B/W - 14 8</td> <td>Color Of Language Signal Name (Specification) S</td> <td>Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S</td> <td>Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S</td> | Color Of Signal Name (Specification)

 | Color Of Signal Name [Specification]

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 | Color Of Signal Name [specification] Signal Name [specificat | Color Of Signal Name (Specification) S G R
 | Color Of Signal Name (Specification) S G R | Color Of Wire Signal Name [specification] 5 GR Vire Vignal Name [specification] 8 Y L . 10 86 L . 11 56 SB . 12 86 SB . 13 1 R . 14 R R . 14 R

 | Color Of Signal Name [specification] S G R
 | Color Of Wire Signal Name [specification] 5 GR Vire 10 8 Y V 10 86 Y E 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 12 86 Y B/N 13 14 8 B/N 14 8 Y
 | Color Of Language Signal Name (Specification) S
 | Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S | Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S | Color Of Virginia Manne (Sproiffication) Signal Manne (Sproiffication) S | Color Of Signal Name [specification] 5 GR 5 | Color Of Signal Name [specification] 5 GR 5 | Color Of Signal Name [specification] 5 GR 5 | Color Of Signal Name [specification] 5 GR 5 | Color Of Signal Name [specification] 5 GR 5 | Color Of Wire Signal Name [specification] 5 GR Vire 10 8 Y V 10 86 Y E 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 11 58 Y B/N 12 86 Y B/N 13 14 8 B/N 14 8 Y
 | Color Of Language Signal Name (Specification) S GR S GR VP L 9 8R L - 11 58 B/W - 11 58 B/W - 12 56 B/W - 13 58 B/W - 14 8
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| Color Of Signal Name [Specification] Signal Name [Specificat | Color Of Signal Name [specification] | Color Of Value Signal Name [Specification] 5 GR 5 GR 5 GR 7 GR A C

 | Color Of Signal Name [specification]

 | Color Of Signal Name [specification]

 | Color of Language Signal Name [specification] S 6 R S 6 R S 6 R S 7 GR S | Color Of Signal Name [Specification] Signal Name [Specificat | Color Of Signal Name [specification] 5 6 8 9 9 9 9 9 9 9 9 9

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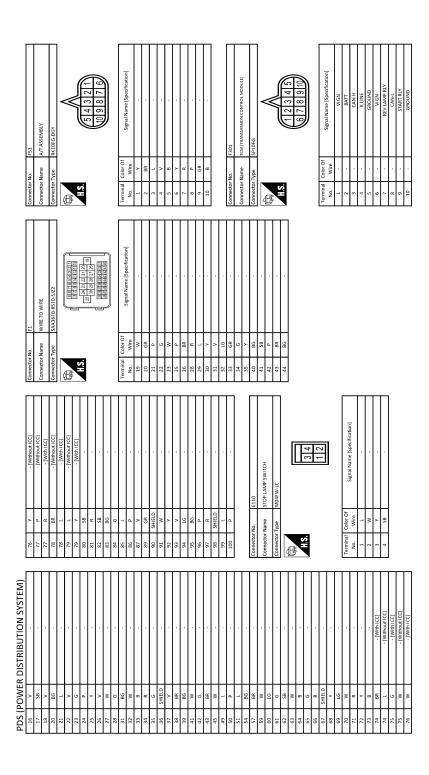
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POWER DISTRIBUTION SYSTEM

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PDS (PC	POWER	PDS (POWER DISTRIBUTION SYSTEM)	:		CIVITOUS	Commonter	1000	[Connector		7440	
Connecto	No.	150	22		GROUND	Connector No.	M6/	1	Connector N		1118	
Connector Name		PUSH-BUTTON IGNITION SWITCH	25	# ×	COMMUNICATION SIGNAL (LCD->AMP.) COMMUNICATION SIGNAL (AMP>LCD)	Connector Name	UNIFIED METER AND A/C AMP.		Connector Name		BCM (BODY CONTROL MODULE)	
Connector Type	Ĺ	TKOSFBR	26	æ	VEHICLE SPEED SIGNAL (8-PULSE)	Connector Type	TH32FW-NH		Connector Type		M03FB-LC	
Q.			27	> 3	PARKING BRAKE SWITCH SIGNAL	Œ]	1			
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			37	88	ENTER SWITCH SIGNAL	- 1	-	[ŀ			
Terminal	_	Signal Name (Specification)	38	-	TRIP A/B RESET SWITCH SIGNAL	lal	r Of Signal Name [Specification]		leu	Color Of	Signal Name [Specification]	
No.	Wire		39	۵	ILLUMINATION CONTROL SWITCH SIGNAL (-)	No. Wire			No.	Wire		
1	В		40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)	41	ACC POWER SUPPLY		1	Μ	BAT (F/L)	
2	W					42	FUEL LEVEL SENSOR SIGNAL		2	W	POWER WINDOW POWER SUPPLY(BAT)	
8	W					43	R INTAKE SENSOR SIGNAL		3	٨	POWER WINDOW POWER SUPPLY(RAP)	
4	BR		Connector No.		99W	44	LG IN-VEHICLE SENSOR SIGNAL					
2	GR		Consocious Manage		CAAA 2/ A GIAA GETTEN ACTION IN	45	P AMBIENT SENSOR SIGNAL					
9	¥	•				46 B	BG SUNLOAD SENSOR SIGNAL		Connector No.		M119	
7	>		Connector Type		TH40FW-NH	47 (G EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNA	DR SIGNAL	Connector Name		GHIGOW FOOLNOO AGOO, MADO	
8	Ь		ľ			23	G IGNITION POWER SUPPLY		on linearing		CONTROL MODEL	
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Connector No.		M53	?	L		26	CAN-H		Œ			
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1			Terminal	Color Of	3	61 B	BR AMBIENT SENSOR GROUND					
			No.	Wire	Signal Name [Specification]	┝	SB SUNLOAD SENSOR GROUND					
Ż.		100	s		MANUAL MODE SHIFT UP SIGNAL	63			Terminal	Color Of	5	
	- 2	2 3 5 6 7 10 10 15 16 18 20	7	g.	COMMUNICATION SIGNAL (AMP>METER)	65 B	BG ECV SIGNAL		No.	Wire	ognal Name [opecification]	
	17	00 10 00 10 10 10 10 10 10 10 10 10 10 1	00	-	VEHICLE SPEED SIGNAL (2-PULSE)	69	A/C LAN SIGNAL		4	97	INTERIOR ROOM LAMP POWER SUPPLY	
			6	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	20	R EACH DOOR MOTOR POWER SUPPLY	PLY	2	7	PASSENGER DOOR UNLOCK OUTPUT	
			10	W	MANUAL MODE SIGNAL	7.1	B GROUND		7	٨	STEP LAMP CONT	
Terminal	Terminal Color Of	Simpl Name (Specification)	11	9	NON-MANUAL MODE SIGNAL	7.2	P CAN-L		80	۸	ALL DOOR, FUEL LID LOCK OUTPUT	
No.	Wire		14	BR	COMMUNICATION SIGNAL (LCD->AMP.)				6	9	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	
1	-	BATTERY POWER SUPPLY	20		ION ON/OFF SIGNAL				10	BR	REAR DOOR UNLOCK OUTPUT	
2	91	COMMUNICATION SIGNAL (METER->AMP.)	23	>	AT SNOW SWITCH SIGNAL				11	R	BAT (FUSE)	
~	⊦	COMMUNICATION SIGNAL (AMP>METER)	52	>	MANUAL MODE SHIFT DOWN SIGNAL				13	8	GROUND	
2	8	GROUND	27	91	COMMUNICATION SIGNAL (METER->AMP.)				14	×	PUSH-BUTTON IGNITION SWILL GND	
9	۵	ALTERNATOR SIGNAL	28	œ	VEHICLE SPEED SIGNAL (8-PULSE)				15	>	ACCIND	
7	BR	AIR BAG SIGNAL	30	>	PARKING BRAKE SWITCH SIGNAL				17	*	TURN SIGNAL RH (FRONT)	
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q q	ه ه	METER CONTROL SWITCH GROUND										
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PDS (Z	PDS (POWER DISTRIBUTION SYSTEM)						
Connector No.	r No.	M121	78	>	ROOM ANT1-	137	BG	RECEIVER/SENSOR GND
Connector Name	r Name	RCM (RODY CONTROL MODILIE)	79	BR	ROOM ANT1+	138	٨	RECEIVER/SENSOR POWER SUPPLY
		Con (SOC) CON INCO INCO INCO	80	GR	NATS ANT AMP.	139	1	TIRE PRESSURE RECEIVER COMM
Connector Type	r Type	TH40FGY-NH	81	Μ	NATS ANT AMP.	140	GR	SHIFT N/P
(82	R	IGN RELAY (F/B) CONT	141	9	SECURITY IND LAMP CONT
			83	٨	KEYLESS ENTRY RECEIVER COMM	142	98	COMBI SW OUTPUT 5
			87	H8	COMBI SW INPUT 5	143	۵	COMBI SW OUTPUT 1
2			88	^	COMBI SW INPUT 3	144	9	COMBI SW OUTPUT 2
		39 38 38 38 38 38 38 38 38 38 38 38 38 38	96	۵	CAN-L	145	_	COMBI SW OUTPUT 3
		00 07 00 00 00 00	91	L	CAN-H	146	SB	COMBI SW OUTPUT 4
			95	97	KEY SLOT ILL CONT	150	91	DRIVER DOOR SW
			66	>	DNINO	151	U	REAR WINDOW DEFOGGER RELAY CONT
Terminal	Color Of		94	>	PUDDLE LAMP CONT			
No.		Signal Name [Specification]	95	BG	ACC RELAY CONT			
34	88	LUGGAGE ROOM ANT-	96	GR	A/T SHIFT SELECTOR POWER SUPPLY			
32	>	LUGGAGE ROOM ANT+	66	æ	SHIFTP			
38	8	BACK DOOR ANT-	100	9	PASSENGER DOOR REQUEST SW			
39	>	BACK DOOR ANT+	101	SB	DRIVER DOOR REQUEST SW			
47	>	IGN RELAY (IPDM E/R) CONT	102	BG	BLOWER FAN MOTOR RELAY CONT			
52	88	STARTER RELAY CONT	103	97	KEYLESS ENTRY RECEIVER POWER SUPPLY			
09	BR	PUSHSW	107	97	COMBI SW INPUT 1			
61	*	BACK DOOR OPENER REQUEST SW	108	æ	COMBI SW INPUT 4			
99	>	I-KEY WARN BUZZER (ENG ROOM)	109	>	COMBI SW INPUT 2			
9	98	REAR WIPER STOP POSITION	110	U	HAZARD SW			
99	~	BACK DOOR SW						
- 67	g	BACK DOOR OPENER SW						
89	BR	REAR RH DOOR SW	Connector No.		M123			
69	~	REAR LH DOOR SW			Carriedore contract sacra			
			Connector Name	_ Name	BCM (BODY CONTROL MODULE)			
			Connector Type	r Type	TH40FG-NH			
Connector No.	r No.	M122	٥					
Connector Name	r Name	BCM (BODY CONTROL MODULE)	F					
			Š					
Connector Type	r Type	TH40FB-NH			E11 B11 B11 B1 B12 B12 B12 B12 B12 B12 B1			
€					छ। छ। 🌎 🙀 महाच्या व्यवस्था प्राची महाच्या है।			
	_	91 90 88 87 82 82 81 80 79 78 77 78 75 74 73 72		- 1-				
		111 [112] 110 [111] 110 [111] 111 [111] 111 [111] 111 [111] 111 [111] 111 [111] 111 [111] 111 [111] 111 [111]	No	Color Of Wire	Signal Name [Specification]			
			113	۵	OPLICAL SENSOR			
			116	SB	STOP LAMP SW 1			
Terminal	Color Of		118	۵	STOP LAMP SW 2			
No.		Signal Name (Specification)	119	SB	DR DOOR UNLOCK SENSOR			
72	~	ROOM ANT2-	121	88	KEY SLOT SW			
73	ی	ROOM ANT2+	123	Μ	IGN F/R			
74	9	PASSENGER DOOR ANT.	124	<u>_</u>	PASSENGER DOOR SW			
7	8	PASSENGER DOOR ANT+	132	8	POWER WINDOW SW COMM			
92	>	DRIVER DOOR ANT-	133	*	PUSH-BUTTON IGNITION SW ILL POWER			
12	. 9	DRIVER DOOR ANT+	134	: B	LOCK IND			

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

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 OW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED MUDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED STOD	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 WAGUED OW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
DD WIDED OTOD	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TURN CIONAL R	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN CIONAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAND OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
LU DE AM CVA	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OW A	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COING OW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT CVA	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOO 0141	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOD CW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
2000 014/ 40	Passenger door closed	Off
OOOR SW-AS	Passenger door opened	On
	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
2000 0141 01	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
	Back door closed	Off
DOOR SW-BK	Back door opened	On
201.1001.014	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
(E)(O)(1 1 (O)(1	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
147400 014	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
IN/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the key is not pressed	Off
KKE-LOCK	LOCK button of the key is pressed	On
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off
ANC-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
	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

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Monitor Item	Condition	Value/Status
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OF FIGAL SENSOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
KEQ OW DIK	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEQ OW -AO	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
REQ SW -BD/TR	Back door request switch is not pressed	Off
(LQ OW -DD/TI	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
703H 3W	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
710 III C	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
72 1 2/0/ ((402 0VV	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
51 1 1 14/14 OVV	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
JNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
OR INCIT TO	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
ALIE OVV II DIVI	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
I FIN TIF DIVI	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
JIIF =IVI⊏ I	Selector lever in P position	On

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

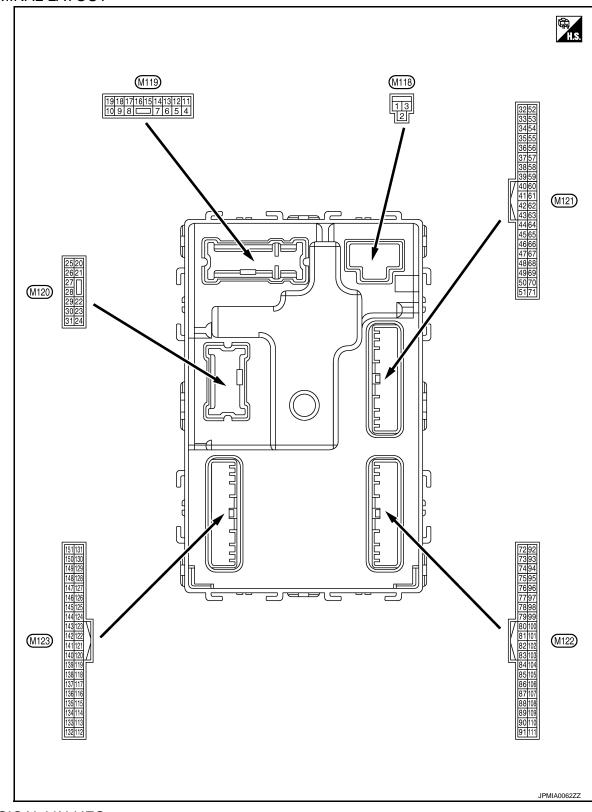
Monitor Item	Condition	Value/Status
SFT N -MET	Selector lever in any position other than N	Off
PET IN -IVIET	Selector lever in N position	On
	Engine stopped	Stop
NOINE OTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated,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

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Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
CONFIRM IDT	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TD 4	The ID of fourth key is not registered to BCM	Yet
TP 4	The ID of fourth key is registered to BCM	Done
TD 0	The ID of third key is not registered to BCM	Yet
TP 3	The ID of third key is registered to BCM	Done
TD 0	The ID of second key is not registered to BCM	Yet
TP 2	The ID of second key is registered to BCM	Done
TD 4	The ID of first key is not registered to BCM	Yet
TP 1	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID DECCT EL 4	ID of front LH tire transmitter is registered	Done
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet
ID DECCT ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID DECOT DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECOT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
VAVA DANINIO I AAAD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

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	inal No.	Description				1/41
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (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 room lown			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	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	r asseriger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(Y)					OFF	Battery voltage
8	Ground	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	O. Gaina	LOCK	o alpai	7 333.3	Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid	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)	Giouna	LOCK	Output	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 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	When the illumination brightening/dimming level is in the neutral position (V) 10 2 ms JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage
(Y)	Giound	Acc indicator famp	Output	ignition switch	ACC	0 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value			
(Wire	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			
			Output		Turn signal switch OFF	6.5 V 0 V			
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKID0926E			
19	Ground	Room lamp timer	Output	Interior room	OFF	6.5 V Battery voltage			
(V)	2.04114	control	Jaspat	lamp	ON Turn signal switch OFF	0 V 0 V			
20 (V)	Ground	Turn signal RH (Rear)	Output	Output	Output	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23			0	5	OPEN (Back door opener actuator is activated)	Battery voltage			
(G)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V			
					Turn signal switch OFF	0 V			
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V			
26					OFF (Stopped)	0 V			
(G)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage			

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
34	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(SB)	Clound	na (–)	Сири	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
35 (V)	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
	Giodile	na (+)	Сигри	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	Back door antenna (–	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Giodila)	Cutput	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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
39		Back door antenna		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(W)	Ground	(+)	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 JMKIA0063GB	E F
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage	G
(Y)	0.000	E/R) control	o anpan	·g······	ON	0 V	
52	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	Battery voltage	Н
(SB)	Giodila	Starter relay control	Output	ON	When selector lever is not in P or N position	0 V	
60		Push-button ignition		Push-button igni-	Pressed	0 V	ı
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage	
					ON (Pressed)	0 V	J
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	K L
						1.0 V	PCS
64 (V)	Ground	Intelligent Key warn- ing buzzer (Engine	Output	Intelligent Key warning buzzer	Sounding	0 V	
(V)		room)		(Engine room)	Not sounding	Battery voltage	Ν
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 10 ms JPMIA0016GB	O P
						1.0 V	
					Not in stop position	0 V	

< ECU DIAGNOSIS INFORMATION >

	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
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					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
					ON (Door open)	0 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	۸
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
72		Room antenna 2 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	B C D
(R)	Ground	(Center console)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E F
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB	G H I
(G)	Clound	(Center console)	Cutput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 U 1 s JMKIA0063GB	J K L
74	Cround	Passenger door an-	Outout	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	PCS N
(SB)	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	Р

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(GR)	Clound	tenna (+)	Cuipui	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
76	Ground	Driver door antenna	Output	When the driver	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Glound	(-)	Guipur	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
77	Ground	Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Giodila	(+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

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	inal No. e color)	Description	las (/		Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
78 (X) Groun	Ground	Room antenna 1 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB
(Y)	Clound	(Instrument panel)	Output	off OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+)	1 (4) loni	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)		(Instrument panel)	o aspail		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
(K)		DIOCK (J/D)] COULIUI		-3	ON	Battery voltage

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y)	tion	Output	When operating either button on the key		(V) 15 10 5 0 1 ms JMKIA0065GB	
		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87	Ground				Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB 1.3 V
(BR)	Clound				Rear wiper 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 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	٨
(Wire	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 D
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 2 ms 1.3 V	G H I
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0039GB 1.3 V	J K L
					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	PCS N
90 (P)	Ground	CAN-L	Input/ Output	_		_	0
91 (L)	Ground	CAN-H	Input/ Output	_			Р

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
-					OFF	Battery voltage
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON	0 V
93	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
(V)	Ground	ON malcator lamp	Output	ignition switch	ON	0 V
94	Ground	Puddle lamp control	Output	Puddle lamp	OFF	Battery voltage
(Y)	Ground	r dudie lamp control	Output	Fudule lamp	ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground	7.00 Tolay control	Odiput	ignition switch	ACC or ON	Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	_		Battery voltage
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)	Ground	tion switch	Input	Selector level	Any position other than P	Battery voltage
					ON (Pressed)	0 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
102		Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(BG)	Ground	lay control	Output	ignition switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

	inal No.	Description				Value	^
+	e color) –	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	С
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K L
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	PCS N

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< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C D
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	E F G
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	Н
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB	PCS N
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Р

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
113	Crownd	Ontical consor	lanut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
116 (SB)	Ground	Stop lamp switch 1	Input	_		Battery voltage
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	Input	Stop famp switch	ON (Brake pedal is depressed)	Battery voltage
(P)	Ground	Stop lamp switch 2	IIIput		OFF (Brake pedal is not de- brake hold relay OFF	0 V
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (BR)	Ground	Key slot switch	Input		nserted into key slot ot inserted into key slot	Battery voltage 0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)				J	ON	Battery voltage
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
				Ignition quital OF	F or ACC	10.2 V
				Ignition switch OF	F OF ACC	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)
					ON (Tail lamps OFF)	9.5 V
						NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (W)	Ground	Push-button ignition switch illumination Output Push-button ignition tion switch illumination Push-button ignition nation	und switch illumination Output tion switch illumi- ON (Tail lamps ON)	ON (Tail lamps ON)	(V) 15 10 5 0	
					OFF	0 V
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
(GR)	Glodila	LOCK indicator lamp	Output	lamp	ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(Y)	2.34114	power supply	- Sipat	-3	ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/		Standby state	(V) 6 4 2 0
(L)		er communication	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 + + 0.2s OCC3880D
140 (GR)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	Battery voltage
(511)		Pooliion			Except P and N positions	0 V
					ON	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0
						JPMIA0014GB 11.3 V
					OFF	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Lighting switch 1ST	
		Combination switch OUTPUT 5	Output	Combination switch	Lighting switch HI	(V)
142	Ground				Lighting switch 2ND	10
(BG)	0.00			(Wiper intermit- tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
143 (P)	Ground	Combination switch	Outtood	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15
		OUTPUT 1	Output	switch	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	5 0 2 ms 10.7 V
144 (G)	Ground	Combination switch OUTPUT 2		utput Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
			Output		Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15
					Rear washer switch ON (Wiper intermittent dial 4)	10 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
145 (L)	Ground	d Combination switch Output		Combination	All switches OFF	0 V
					Front wiper switch INT	(10)
					Front wiper switch LO	(V) 15
			switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB 10.7 V	

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Terminal No.		Description				Value	
(Wir	e color)	Signal name	Input/ Output	Condition		(Approx.)	
					All switches OFF	0 V	
					Front fog lamp switch ON		E
				Combination	Lighting switch 2ND	(V)	
146 (SB)	Ground	Combination switch	Output	ewitch	Lighting switch PASS	10	
	Ground	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	0	
						(V)	Е
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	15 10 5 0	F
					JPMIA0011GB 11.8 V	C	
				ON (Door open)	0 V		
151	Cround	Rear window defog-	Outrout	Rear window de-	Active	0 V	H
(G) Ground		ger relay control	Output	fogger	Not activated	Battery voltage	

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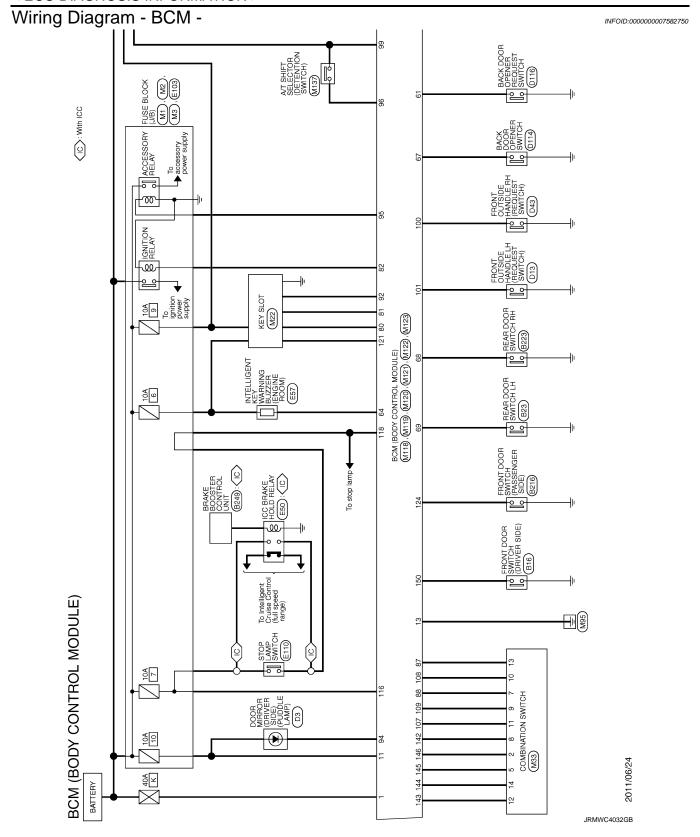
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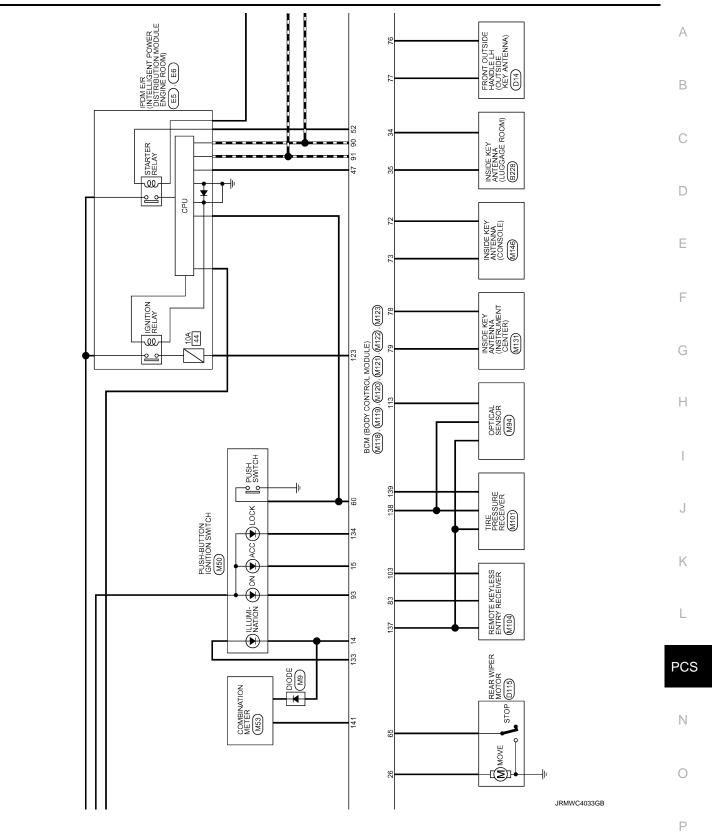
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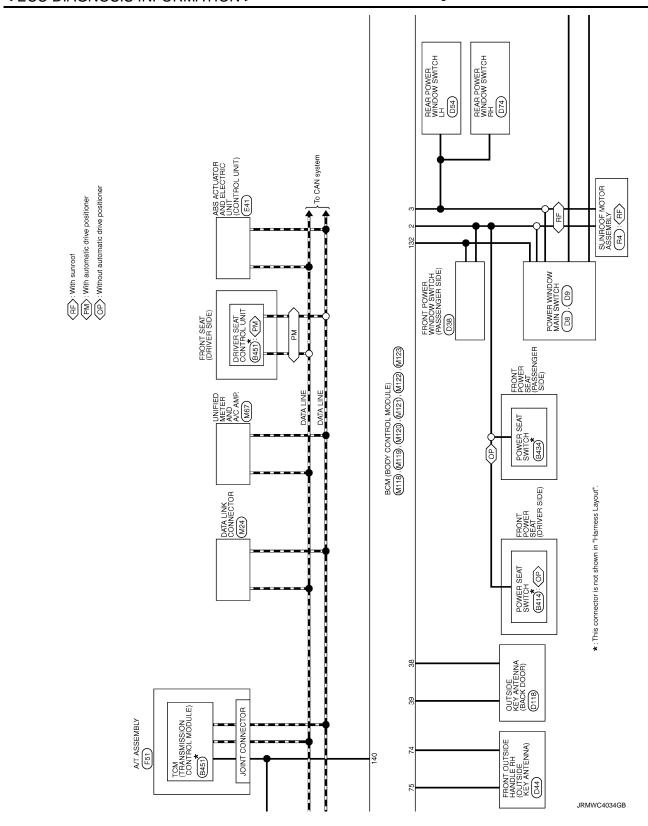
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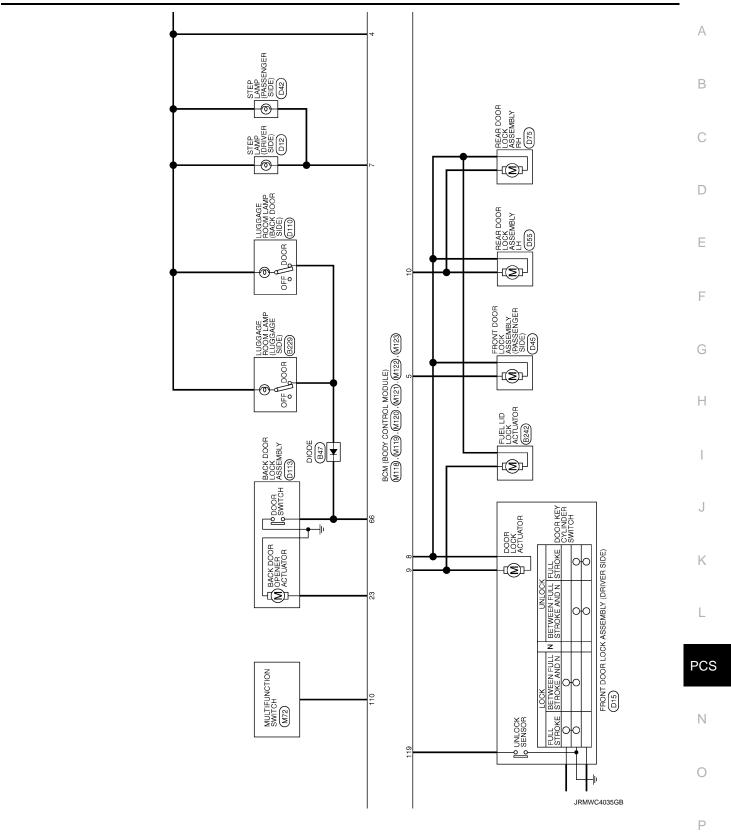
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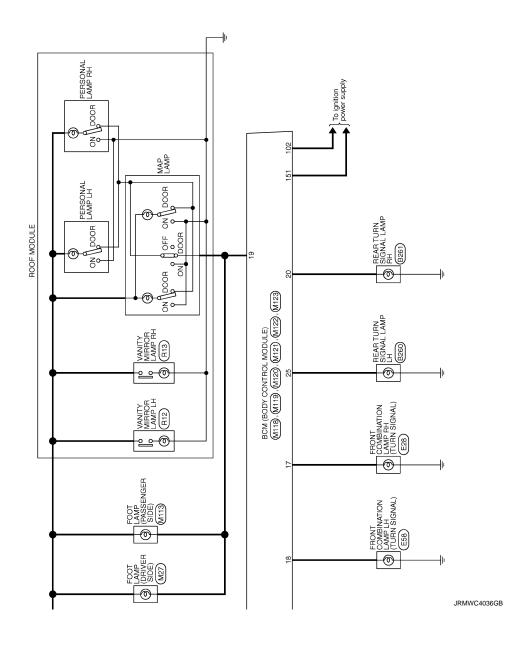
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Signal Name Signal Name Specification	
Connector No. 8128 Connector Name Record Event Material Library Connector Type Record Signal Name Specification Terminal Color Of Signal Name Specification Wife Signal Name Specification Connector Name Wideled Book Library Connector Name Library Terminal Color Of No. 8129 Connector Name Signal Name Specification Terminal Color Of Signal Name Specification To Grant Color Of Signal Name Specification Aft.S. To Grant Color Of Signal Name Specification To Grant	
Terminal Color Of Signal Name [Specification] 1	
BCM (BODY CONTROL MODULE) Commercor Name Revolute Supply (Brown 2008 SWITCH (DRIVER SUE) Commercor Type A0319W Commercor Name Read DOOR SWITCH (HAS SUE) Commercor Name Read DOOR SWITCH (HAS SUPPLY SUPP	
	JRMWG8098GB

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á								
Connector No. B260	Connector No. B414	14	Connector No.	B451		Connector No.	r No.	D3
Connector Name REAR TURN SIGNAL LAMP LH	Connector Name PO	POWER SEAT SWITCH	Connector Name		DRIVER SEAT CONTROL UNIT	Connector Name	r Name	DOOR MIRROR (DRIVER SIDE)
Connector Type HS02FG-W	Connector Type NS:	NS10FW-CS	Connector Type	ie TH32FW	P.W.	Connector Type	r Type	TH24MW-NH
	Œ		匮			Œ		
	S S	2 1 1 8 7 4 3 6 5 10 9	S.	1 1	3	S.	_	12[11] 10 7 6 5 3 2 24 23 22 21 19 18 17 14
Te .	la l	Signal Name (Specification)	let	Color Of	Signal Name [Specification]	Terminal		Signal Name (Specification)
No. Wire	No. Wire		o H	Mire L/W	2	2	Wire	
2 8	2 B		8	R/Y	CAN-H	m	8	SIDE CAMERA LH COMM
	3 6/7		Н	M/G	PULSE (RECLINING)	S	٨	SIDE CAMERA LH IMAGE SIGNAL
	+		+	8/8	PULSE (RR LIFTING)	9 1	w j	SIDE CAMERA LH POWER SUPPLY
Connector No. B261	+		= 5	H S	SUDING SW (BACKWARD)	\ ;	× (
Connector Name REAR TURN SIGNAL LAMP RH	2 <		12	88	EPOLITING SW (BACKWARD)	10	9 0	
Connector Type HS02FG-W	$^{+}$		$^{+}$	1/0 1/8	REAR LIFTING SW (DOWNWARD)	12	. 0	
1	9 F/N		H		, ACC	14	97	
	10 G/W		17	Y/R	¥	17	g	SIDE CAMERA LH IMAGE GND
•			19	>	CAN-L	18	Α	SIDE CAMERA LH GND
			21	Γ/A	P RANGE SW	19	8	
((1 2))	Connector No. B434	34	24	æ	PULSE (SLIDING)	21	GR	
)	Connector Name PO	POWER SEAT SWITCH	Н	Y/B	PULSE (FR LIFTING.)	22	BR	
		5	56	>-	SLIDING SW (FORWARD)	23	>	
	Connector Type NS:	NS10FW-CS	\dashv	R/G	RECLINING SW (FORWARD)	24	>	
e	ģ		\dashv	W/B	FRONT LIFTING SW (UPWARD)			
60	臣		\dashv	P/L	REAR LIFTING SW (UPWARD)			
1 v	Ě	2 0 1 1 2	\dashv	GR	SENSOR GND	Connector No.	r No.	D8
2 8 -] {	32	B/W	GND (SIGNAL)	Connector Name	r Name	POWER WINDOW MAIN SWITCH
		0 2 9 10 3 4				Connector Type	r Type	NS16FW-CS
						€	_	
	Transfer of Colors Of					季		
		Signal Name [Specification]				H.S.		1234 0 567
	1 R							8 9 10 11 13 14 15
	2 B							
	3 6/√							
	+							
	A >					lermina No	Color UT	Signal Name [Specification]
	f					<u> </u>	3	
						2	BR	
	9 L/R					3	GR	
	10 G/W					4	^	

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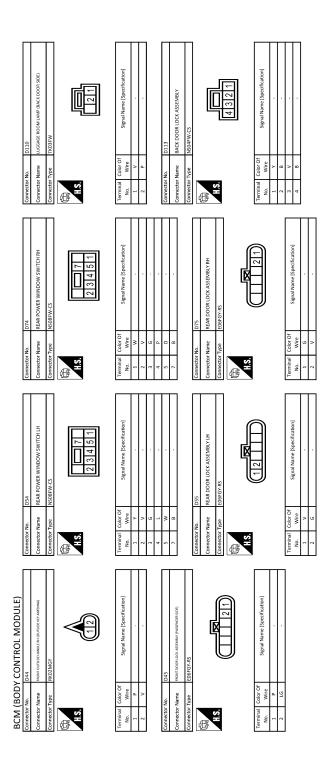
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Connector No. Dd2 Connector Name STEP LAMP (PASSENGER SIDE) Connector Type TR02PW TR02PW	Terminal Color Of Signal Name (Specification) No. Wire 2 S9 Connector No. D03 Connector Name Record Ourside Habite Brought Switch Connector Name Record Ourside Signal Name (Specification) No. Wire Signal Name (Specification) 1 W Color Of Signal Name (Specification) 2 B Signal Name (Specification)		
Connector No. 015 Connector Name inour tooks cock Assawal (Dinivity SDE) Connector Type (EOH GOT AS) (123456)	Terminal Color Of Signal Name Specification No. Wive		
Connector No. D13 Connector Name Inour Outsign HAROLE IN (REQUEST SWITCH) Connector Type REQ2)4.	Terminal Color Of Signal Name [Specification] 1		
BCM (BODY CONTROL MODULE) 5 0 0 6 0 0 7 88 1 9 0 0 110 0 0 131 0 0 143 0 0 15 0	Connector Name POWER WINDOW MAIN SWITCH Connector Type NSQ13W-CS Terminal Cohor Of Signal Name (Specification) Wife Signal Name (Specification) Connector Name STEP LAMP (DRIVER SIDE) Connector Name STEP LAMP (DRIVER SIDE)		F
		JRMWG8100GB	

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JRMWG8101GB

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

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Hall (41 00)	ification)		В
FRONT COMBINATION LAMP BH ISOSPE-PR	Signal Name Specification		С
Connector No. Connector Name FI Connector Type RE	Terminal Color Of No. Wire P. S. B.W.		D
THZDRYV.CS12.Md-1V	Signal Name [Specification] Hobsev.NH 41 40 33 46 44 43		E F
			G
Connector No. Connector Name Connector Type	Terminal Color Of No. Wide Of St.		Н
TKOZIMBR-P	Signal Name [Specification] OUISIDE EEVANTENAN (BACK DOOR) ROOZEGY ROOZEGY Signal Name [Specification]		I
	NOUTSIDE K		J
Connector No. Connector Name Connector Type	Terminal Color Of No. Wife 2 B W 2 B Connector No. Connect		K
BCM (BODY CONTROL MODULE) Connector No. D114 Connector Name BACK DOOR OPENER SWITCH BACK DOOR OPENER SWITCH CONNECTOR TYPE TYGZNABR-P TYGZNABR-P TYGZNABR-P	Signal Name (Specification) PUSS REAR WIPER MOTOR CIDAFW-LIV Signal Name (Specification)	F	PCS
BCM (BODY CON Connector No. D1142 Connector Name BACK DO CONNECTOR Type TROZM)	No. Wire No.		Ν
		JRMWG8102GB	0
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Connector No. M1	Γ	Connector Name FUSE BLOCK (J/B)	Connector Type NS06FW-M2	1		H.S. 3A2A1A	8A 7A 6A 5A 4A	TO LOCAL TO		Terminal Color Of Signal Name (Specification)	╁	2A G	3A L	- AA P	. V S	7A R		-		Connector No. M2	Connector Name FUSE BLOCK (J/B)	Connector Type NS10FW-C3					T	Je C	Wire	38 P	+	╁	78 Р .	Н	- 88 88 86
Connector No. E110	Γ	Connector Name STOP LAMP SWITCH	Connector Type M04FW-LC	1		H.S.	+ C	7		Terminal Color Of Signal Name [Specification]	╁	2 W ·	з ү	4 SB .		Connector No.		Connector Name A/1 ASSEMBLY	Connector Type RK10FG-DGY	4	(Triple)	F 1 1 2 2 1 1	oα	·II	Terminal Color Of	No. Wire Signal Name [specification]	1 y :	Н	+	9 >	+		9 GR	10 B -	
Connector No. E58	Γ	Connector Name FRONT COMBINATION LAMP LH	Connector Type RS08FB-PR	1		H.S.	0 2 3			Terminal Color Of Signal Name [Specification]	t	3 8/√	4 B/W			28	ł		Connector No. E103	Connector Name FUSE BLOCK (J/B)	Connector Type NS16FW-CS			64 44	1 1 1 1 1 1 1 1 1 1		Terminal Color Of	1	+	2F W	+	╁	9F R		
BCM (BODY CONTROL MODULE)	1G DS RR	SB BLS	R VDC OFF SW	L CAN-H	B BUS-H		. E50	ICC BRAKE HOLD RELAY	be M06FGY-R-US		2 1 1	7 3	_	4]	Color Of	Wire Signal Name [Specification]				S8	Я		. E57	me INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)	oe RKO3FBR	<	«	1)		olor Of Signal Name (Specification)	allian Mallia	
BCM (B	29	3 8	31	32	45		Connector No.	Connector Name	Connector Type	4		ġ				Terminal Co	No.	1	2	+	4 9	7		Connector No.	Connector Name	Connector Type	€						e	\top	1

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Connector No. M50 Connector Type Push-Button (GNITON SWITCH Connector Type TX08189 HS 1	Ferminal Color Of Signal Name [Specification] 1	
Connector No. Mu27 Connector Name FOOT LAMP (DRIVER SIDE) Connector Type A021W THS.	Terminal Color Of Signal Name Specification	
Соппести No. M22 Соппести Name (EV'SLOT) Соппести Туре Н1121W-WH М.S. 1123 5 6	Terminal Color Of Signal Name Specification No. Wire Color Of Signal Name Specification No. Wire Color Of Signal Name Specification Signal Name	
BCM (BODY CONTROL MODULE) Connector No. M3 Connector Nype Connector Type M3.5 PACS (1/8) Connector Type M1.5 PACS (1/8) M1.5 PACS (1/8)	Terminal Coff Of Signal Name Specification No. Wire Signal Name Specification Signal Name Specification Signal Name Specification No. Wire Signal Name Specification No. No.	
		JRMWG8104GB

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	Т	Connector Name FOOT LAMP (PASSENGER SIDE)	Connector Type A02FW	4	AHT	\$2 \$2					Ja.	a	2 BR .	7			Connector Name BCIM (BODY CON I ROL MODULE)	Connector Type M03FB-LC	1	[E	F	<u> </u>]		lal	es.	2 W POWER WINDOW POWER SUPPLY (BAT)	>													
	Т	Connector Name TIRE PRESSURE RECEIVER	Connector Type TK04FW	4	AHITA		1 2 4				lal		1 BG GROUND 2 L SIGNAL	4 Y BATTERY		Connector No. M104	Connector Name DEMOTE KEYI ESS ENTRY DECEIVED		Connector Type JAB04FB	á	图		1 2 4				Terminal Color Of Signal Name [Specification]	+	SIG	4 LG BATTERY												
-	69 L A/CLAN SIGNAL	c 00	72 P CAN-L		- North - Nort	Τ	Connector Name MULTIFUNCTION SWITCH	Connector Type TH16FW-NH	4			4 6 8 14 16	1 3 5 9		ŀ	Terminal Color Of Signal Name [Specification] No. Wire	1 B GROUND	3 V ACC	Ж	*	SB	8 LG AV COMM (L)	333	- 0			Connector No. M94	Connector Name OPTICAL SENSOR	Connector Type TK03FW	ą.	匿	S	6 6 7	C 7			Terminal Color Of Circul Name (Specification)	No. Wire Signal value [Specification]	> 1	2 P OUTPUT	- -	
BCM (BODY CONTROL MODULE)	B GROUND RP COMMITMICATION SIGNAL (CD-SAMB)	Y COMMUNICATION SIGNAL (AMP>LCD)	R VEHICLE SPEED SIGNAL (8-PULSE)	V PARKING BRAKE SWITCH SIGNAL	W BRAKE FLUID LEVEL SWITCH SIGNAL	+	WASHER LEVE	B ILLUMINATION CONTROL SIGNAL	LG SELECT SWITCH SIGNAL	SB ENTER SWITCH SIGNAL	+	P ILLUMINATION CONTROL SWITCH SIGNAL (-)	BG ILLUMINATION CONTROL SWITCH SIGNAL (+)		. M67	me UNIFIED METER AND A/C AMP.	pe TH32FW-NH				41 42 43 44 45 46 47 53 54 55 56	57 58 59 60 61 62 63 65 69 70 71 72			Color Of Signal Name (Specification)		V ACC POWER SUPPLY	R INTAKE SENSOR SIGNAL			+	G EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL		B GROUND		W BRAKE FLUID LEVEL SWITCH SIGNAL	BR FUEL LEVEL SENSOR GROUND	GR INTAKE SENSOR GROUND	_	BR AMBIENT SENSOR GROUND		BG ECV SIGNAL
BCM (B	+	72	26	27	788	30	31	33	Н	37	38	+	40		Connector No.	Connector Name	Connector Type		厚	Ę					Terminal Co	+	41	42	44	Н	+	47	54	52	29	57	58	Н	+	+	+	65

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Connector No. M119	No	M119	Connector No.	or No.	M121	78	>	ROOM ANT1-	137	98	RECEIVER/SENSOR GND
						79	88	ROOM ANT1+	138	>	RECEIVER/SENSOR POWER SUPPLY
Connector Name	Name	BCM (BODY CONTROL MODULE)	Connects	Connector Name	BCM (BODY CONTROL MODULE)	80	g	NATS ANT AMP.	139	_	TIRE PRESSURE RECEIVER COMM
Connector Type	Type	NS16FW-CS	Connector Type	or Type	TH40FGY-NH	81	3	NATS ANT AMP.	140	GR	SHIFT N/P
				-		82	œ	IGN RELAY (F/B) CONT	141	U	SECURITY IND LAMP CONT
E			E			83	>	KEYLESS ENTRY RECEIVER COMM	142	BG	COMBI SW OUTPUT 5
Į		֭֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֟֟֝֟֟֟֝֟֟֟֟֟֟֟֟֟֟֟֟֟֟				87	HB	COMBI SW INPUT 5	143	۵	COMBI SW OUTPUT 1
2		4 5 / 8 9 10	Ĉ.			88	>	COMBI SW INPUT 3	144	9	COMBI SW OUTPUT 2
		11 13 14 15 17 18 10			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	06	۵	CAN-L	145	[-	COMBI SW OUTPUT 3
					70 00 00 00 00 00 00 00 00 00 00 00 00 0	91	_	CAN-H	146	SB	COMBI SW OUTPUT 4
						92	91	KEY SLOT ILL CONT	150	91	DRIVER DOOR SW
						83	>	ONIND	151	U	REAR WINDOW DEFOGGER RELAY CONT
Terminal	Color Of		Terminal	Color Of		94	>	PUDDLE LAMP CONT			
N	Wire	Signal Name [Specification]	Ñ.		Signal Name [Specification]	95	BG	ACC RELAY CONT			
4	97	INTERIOR ROOM LAMP POWER SUPPLY	34	88	LUGGAGE ROOM ANT-	96	SR	A/T SHIFT SELECTOR POWER SUPPLY	Connector No.		M131
2	_	PASSENGER DOOR UNLOCK OUTPUT	35	>	LUGGAGE ROOM ANT+	66	æ	SHIFTP		Γ	Contract the second of the sec
7	٨	STEP LAMP CONT	38	8	BACK DOOR ANT-	100	9	PASSENGER DOOR REQUEST SW			INSIDE NEL MALENIAN (INSI NOMENI CENTEN)
8	>	ALL DOOR, FUEL LID LOCK OUTPUT	39	Μ	BACK DOOR ANT+	101	SB	DRIVER DOOR REQUEST SW	Connector Type	Type	RKO2FGY
6	9	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47	>	IGN RELAY (IPDM E/R) CONT	102	BG	BLOWER FAN MOTOR RELAY CONT	٥		
10	BR	REAR DOOR UNLOCK OUTPUT	25	SB	STARTER RELAY CONT	103	PI	KEYLESS ENTRY RECEIVER POWER SUPPLY	F		<
11	œ	BAT (FUSE)	09	BR	PUSH SW	107	ΓG	COMBI SW INPUT 1	¥.		«
13	8	GROUND	61	≯	BACK DOOR OPENER REQUEST SW	108	œ	COMBI SW INPUT 4	Ę		{
14	≥	PUSH-BUTTON IGNITION SWILL GND	64	>	I-KEY WARN BUZZER (ENG ROOM)	109	>	COMBI SW INPUT 2			((1 2))
15	>	ACC IND	65	BG	REAR WIPER STOP POSITION	110	9	HAZARD SW			
17	≥		99	~	BACK DOOR SW						
18	BG	TURN SIGNAL LH (FRONT)	67	GR	BACK DOOR OPENER SW						
19	>	INT ROOM LAMP CONT	89	æ	REAR RH DOOR SW	Connector No.	-	M123	Terminal	Color Of	Signal Name (Specification)
			69	œ	REAR LH DOOR SW	Connector Name	r Name	BCM (BODY CONTROL MODULE)	No.	Wire	
Connector No.	.No.	M120				Connector Type	r Type	TH40FG-NH	7	<u>د</u>	
		Talling Control of Manager Control of State Control of St	Connector No.	or No.	M122		_				
Connector Name	Name	BUM (BODY CONTROL MODULE)	Connect	Constant Name	CHILDON LOGINGO MOG	13					
Connector Type	- Type	NS12FW-CS	Colliect	all Mallie	BCIM (BOD) CONTROL MICHOLE)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Connector No.		M137
			Connector Type	or Type	TH40F8-NH	2	_	534 534 534 534 F135	Connector Name	omeN	BOTTHE THE TAKE
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					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Terminal No.	Color Of Wire	Signal Name [Specification]	H.S.		/ ¥ / E / E
		-				113	а	OPLICAL SENSOR			τ : ο (
Terminal	Color Of Wire	Signal Name [Specification]	Terminal	Color Of		116	88 a	STOP LAMP SW 1			7 8 9 10 11
20	>	TURN SIGNAL RH (REAR)	No.		Signal Name [Specification]	119	. gs	DR DOOR UNLOCK SENSOR			
23	U	BACK DOOR OPEN OUTPUT	72	~	ROOM ANT2-	121	BR	KEY SLOT SW	Terminal	Color Of	Constant Name Constitution
25	ŋ		73	9	ROOM ANT2+	123	W	IGN F/B	No.	Wire	ognanivanie (specification)
56	9	REAR WIPER OUTPUT	74	SB	PASSENGER DOOR ANT:	124	91	PASSENGER DOOR SW	1	Μ	
			75	S.	PASSENGER DOOR ANT+	132	æ	POWER WINDOW SW COMM	2	>	
			76	>	DRIVER DOOR ANT-	133	>	PUSH-BUTTON IGNITION SWILL POWER	e	_	
			111	-	Donner DOOD ANT.	124		- INCKIND			

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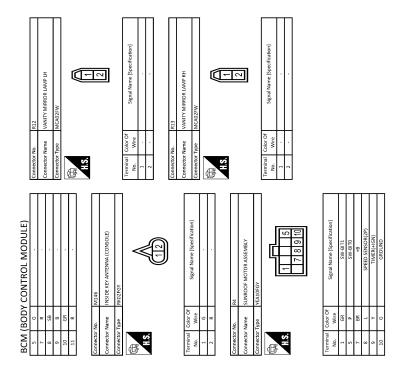
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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

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

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.

- Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000007582752

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

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

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< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Priority	DTC
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2605: PNP SW B2608: STARTER RELAY B2607: ENG STATE SIG LOST B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2618: PUSH-BTN IGN SW B2616: VEHICLE TYPE B2616: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
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] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL 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.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-18</u>, "COM-MON ITEM: CONSULT 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
No DTC is detected. further testing may be required.	_	_		_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-37
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-38
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-39

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

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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
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-44</u>
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-45
B2195: ANTI SCANNING	×	_	_	_	SEC-46
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	SEC-47
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-49
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-51</u>
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-52</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-40
B2601: SHIFT POSITION	×	×	×	_	SEC-53
B2602: SHIFT POSITION	×	×	×	_	SEC-56
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-59</u>
B2604: PNP SW	×	×	×	_	SEC-62
B2605: PNP SW	×	×	×	_	<u>SEC-64</u>
B2608: STARTER RELAY	×	×	×	_	<u>SEC-66</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-68
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-71
B2618: BCM	×	×	×	_	PCS-61
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-73
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-76
B2621: INSIDE ANTENNA	_	×	_	_	DLK-60
B2622: INSIDE ANTENNA	_	×	_	_	DLK-62
B2623: INSIDE ANTENNA	_	×	_	_	DLK-64
B26E1: ENG STATE NO RES	×	×	×	_	SEC-69
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-70
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	<u>WT-23</u>
C1706: LOW PRESSURE RR	_	_	_	×	<u>vv 1-23</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT 25
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>
C1711: [NO DATA] RL	_	_	_	×	

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[POWER DISTRIBUTION SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-28
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-32</u>

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

INFOID:0000000007458159

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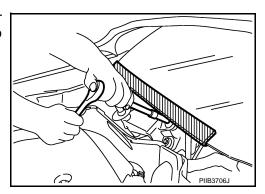
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- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel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

INFOID:0000000007458160

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

[POWER DISTRIBUTION SYSTEM] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α PUSH-BUTTON IGNITION SWITCH DOES NOT OPERATE Description INFOID:0000000007458161 В Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom. NOTE: The engine start function, door lock function, power distribution system, and NATS-IVIS/NVIS in the Intelligent Key system are closely related to each other regarding control. The vehicle security function can operate only when the door lock and power distribution system are operating normally. D Conditions of Vehicle (Operating Conditions) "ENGINE START BY I-KEY" in "WORK SUPPORT" is ON when setting on CONSULT. • Intelligent Key is not inserted in key slot. Е One or more of Intelligent Keys with registered Intelligent Key ID is in the vehicle. Diagnosis Procedure INFOID:0000000007458162 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 DLK-186, "ALL DOOR: Diagnosis Pro-2.PERFORM WORK SUPPORT Perform "INSIDE ANT DIAGNOSIS" on Work Support of "INTELLIGENT KEY". Refer to DLK-53, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)". >> GO TO 3. ${f 3.}$ PERFORM SELF-DIAGNOSTIC RESULT Perform Self-Diagnostic Result of "BCM". Is DTC detected? YES >> Refer to DLK-60, "DTC Logic" (instrument center), DLK-62, "DTC Logic" (console) or DLK-64.

"DTC Logic" (trunk room).

NO >> GO TO 4.

4. CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to PCS-65, "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

Description INFOID:000000007458163

- Before performing the diagnosis in the following table, check "Work Flow". Refer to PCS-34, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

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

Diagnosis Procedure

INFOID:0000000007458164

1. CHECK PUSH-BUTTON IGNITION SWITCH INDICATOR

Check push-button ignition switch indicator.

Refer to PCS-67, "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]

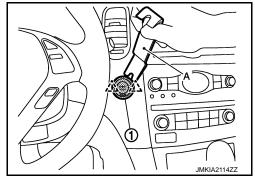
REMOVAL AND INSTALLATION

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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