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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in.

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 3.

${f 3.}$ IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 5.

REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000006454845

When the battery negative terminal is disconnected, the initialization is necessary.

If any of the following operations are performed, the initialization is necessary as well as when the negative battery terminal is disconnected.

- Power supply to the power window switch or power window motor is cut off by removal of battery terminal or if the battery fuse is blown.
- Disconnection and connection of power window switch harness connector.
- Removal and installation of motor from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of door glass or door glass run.

The following specified operations cannot be performed under the non initialized condition.

- Auto-up operation
- Anti-pinch function
- Key cylinder switch power window function
- Automatic window adjusting function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000006454846

INITIALIZATION PROCEDURE

- 1. Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or more.
- 2. Door switch is OFF (close).
- Turn ignition switch ON.
- 4. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open.)
- 5. Continue pulling the power window switch AUTO-UP. Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- Initializing procedure is completed.
- 7. Inspect anti-pinch function.

CAUTION:

When initialization is not complete, power window UP does not operate while door is open.

CHECK ANTI-PINCH FUNCTION

- 1. Fully open the door window.
- 2. Place a piece of wood near the fully closed position.
- Close door glass completely with AUTO-UP.
- Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops.
- Check that glass does not rise when operating the power window main switch while lowering.

CAUTION:

- Never check with hands and other part of body because they may be pinched. Never get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-71, "Fail-Safe"

PWC-5

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be performed.
- 1. Auto-up operation
- 2. Anti-pinch function
- 3. Key cylinder switch power window function
- 4. Automatic window adjusting function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000006454847

When the control unit is replaced, the initialization is necessary.

If any of the following operations are performed, the initialization is necessary and the control unit must be disconnected.

- Power supply to the power window switch or power window motor is cut off by removal of battery terminal or
 if the battery fuse is blown.
- Disconnection and connection of power window switch harness connector.
- Removal and installation of motor from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of door glass or door glass run.

The following specified operations cannot be performed under the non initialized condition.

- Auto-up operation
- Anti-pinch function
- Key cylinder switch power window function
- Automatic window adjusting function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

INITIALIZATION PROCEDURE

- Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or more.
- 2. Door switch is OFF (close).
- 3. Turn ignition switch ON.
- 4. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open.)
- 5. Continue pulling the power window switch AUTO-UP. Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 6. Initializing procedure is completed.
- 7. Inspect anti-pinch function.

CAUTION:

When initialization is not complete, power window UP does not operate while door is open.

CHECK ANTI-PINCH FUNCTION

- 1. Fully open the door window.
- 2. Place a piece of wood near the fully closed position.
- Close door glass completely with AUTO-UP.
- Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops.
- Check that glass does not rise when operating the power window switch while lowering.

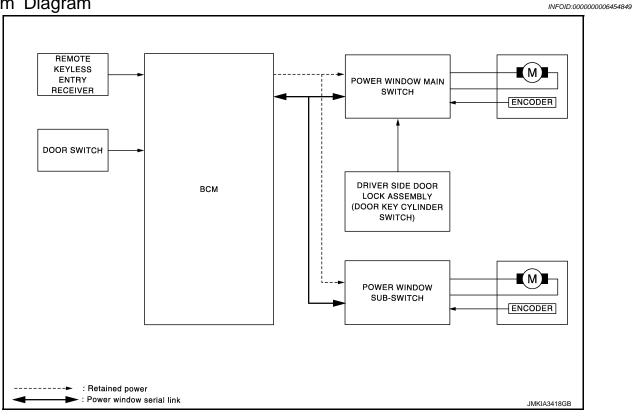
CAUTION:

- Never check with hands and other part of body because they may be pinched. Never get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-71, "Fail-Safe"
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be performed.
- 1. Auto-up operation
- 2. Anti-pinch function
- 3. Key cylinder switch power window function
- 4. Automatic window adjusting function

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:0000000006454850

POWER WINDOW SYSTEM

 Power window system is activated by power window switch operation when ignition switch is turned ON and during the retained power operation, after ignition switch turned OFF.

· Power window main switch can open/close all windows.

- Power window sub-switch can open/close the passenger side windows.
- AUTO operation can be activated by operating the power window switch once.
- It transmits and receives the signal between BCM and power window main switch or power window sub switch, via serial communication.
- When pressing power window lock switch, operation other than power window main switch becomes impos-
- When detecting the pinching resistance of foreign materials, etc. during power window AUTO UP operation, it lowers door glass to the specified value.
- When opening driver side or passenger side door while door glass is being fully closed, it lowers door glass of the door a little from the closed position. When closing the door, it return door glass to the fully closed position.
- All power windows open or close when Intelligent Key unlock button is pressed for 3seconds.
- Hold the door key cylinder to the LOCK or UNLOCK direction for 1 second or more to OPEN or CLOSE all power windows when ignition switch OFF.

POWER WINDOW AUTO-OPERATION

Revision: 2011 December

- AUTO UP/DOWN operation can be performed when power window main switch turns to AUTO.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Power window switch reads the changes of encoder signal and stops AUTO operation when door glass is at the fully open/closed position.
- Auto function is inoperable if encoder is malfunctioning.

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

POWER WINDOW SERIAL LINK

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The under mentioned signal is transmitted from BCM to power window main switch.

- Driver side door switch signal.
- Keyless power window down signal.
- Retained power operation signal.

The under mentioned signal is transmitted from BCM to power window sub-switch.

- · Passenger side door switch signal.
- Keyless power window down signal.
- Retained power operation signal.

The following signal is transmitted from power window main switch to power window sub-switch.

- Passenger side door window operation signal.
- Power window lock signal.
- Power window control by key cylinder switch signal.

RETAINED POWER OPERATION

Retained power operation is an additional power supply function that enables power window system to operate for 45 seconds after ignition switch turns OFF.

RETAINED POWER FUNCTION CANCEL CONDITIONS

- Front door CLOSED (door switch OFF) → OPEN (door switch ON).
- When ignition switch turns ON again.
- When timer times out. (45 seconds)

POWER WINDOW LOCK FUNCTION

Ground circuit inside power window main switch shuts off when power window lock switch is ON. This inhibits power window switch operation except with the power window main switch.

ANTI-PINCH FUNCTION

- The anti-pinch function detects foreign matter being pinched in the door glass, during AUTO-UP operation, and lowers the door glass 150 mm (5.9in).
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Resistance is applied to the power window motor rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window switch controls to lower the door glass for 150 mm (5.9in) after it detects encoder pulse signal frequency change.

OPERATION CONDITION

 When all door glass AUTO-UP operation is performed (anti-pinch function does not operate just before the door glass closes and is fully closed.)

NOTE:

Depending on environment and driving conditions, if a similar impact or load is applied to the door glass, it may lower.

AUTOMATIC WINDOW ADJUSTING FUNCTION

When the driver/passenger door(s) is open, the window of the opened door is lowered approximately 10 mm (0.39 in).

When the door is closed, the window is raised to the fully closed position.

Automatic window adjusting function system (opening operation) does not operate when the following item occurs.

• The window is 10 mm (0.39 in) or more open from the fully closed position.

Automatic window adjusting function system (closing operation) does not operate when the following item occurs.

• The automatic window adjusting function system (opening operation) operation.

DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Hold the door key cylinder to the LOCK or UNLOCK position for 1 second or more to OPEN or CLOSE all power windows when ignition switch is OFF. In addition, it stops when the key position is NEUTRAL when operating.

OPERATION CONDITION

- · Ignition switch OFF.
- Hold door key cylinder to the LOCK position for 1 second or more to perform CLOSE operation of the door glass.

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

 Hold door key cylinder in the UNLOCK position for 1 second or more to perform OPEN operation of the door glass.

KEYLESS POWER WINDOW DOWN FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and pressed and held for more than 3* seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening function stops when the following operations are performed.

- When the unlock button is pressed and held for more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activates, keyless power window down function cannot be operated.

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUP-PORT". Refer to <u>DLK-50</u>, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

NOTE:

Use CONSULT-III to change settings.

MODE 1 (3 sec) / MODE 2 (OFF) / MODE 3 (5 sec)

POWER CONSUMPTION CONTROL SYSTEM

Power window switch incorporates a power consumption control function that reduces the power consumption according the vehicle status.

LOW POWER CONSUMPTION MODE

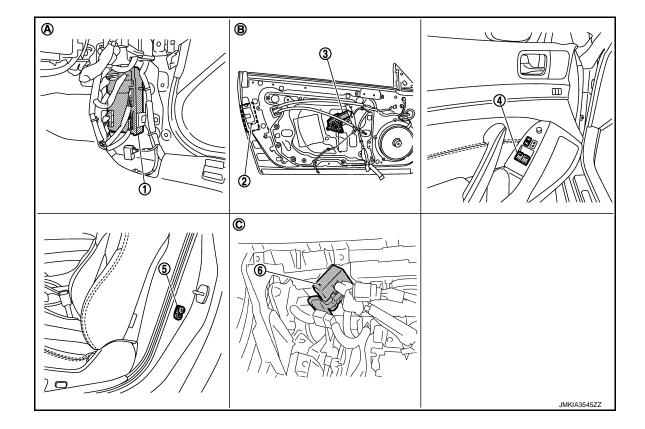
- Ignition switch OFF.
- Power window main switch and power window sub-switch do not receive a signal from serial link.
- · Power window motor does not move.

If any of the following conditions are satisfied, the low power consumption mode is released.

- Ignition switch ON.
- When key cylinder switch signal is received.
- When door lock signal is received.
- When the signal is received from serial link.

Component Parts Location

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

- 1. BCM M118,M119,M122,M123
- Driver side door lock assembly (door 3. key cylinder switch) D15
- Driver side power window motor D10

- 4. Power window main switch D8
- View with dash side lower (passenger side)
- 5. Driver side door switch B16

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- 6. Remote keyless entry receiver emoved C. View with instrument lower pan
- View with door finisher removed
- View with instrument lower panel (passenger side) removed

Component Description

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Component	Function		
BCM	Supplies power supply to power window switches.Controls retained power.		
Power window main switch	 Directly controls all power window motor of all doors. Controls anti-pinch operation of power window. 		
Power window sub-switch	Controls anti-pinch operation of power window.Controls power window motor of passenger door.		
Power window motor	 Integrates the ENCODER and WINDOW MOTOR. Starts operating with signals from each power window switch. Transmits power window motor rotation as a pulse signal to power window switch. 		
Driver side door lock assembly (door key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.		
Door switch	Detects door open/close condition and transmits to BCM.		
Remote keyless entry receiver	Receives lock/unlock signal from the intelligent Key, and then transmits to BCM.		

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
Work Support	Changes the setting for each system function.		
Self Diagnostic Result	Displays the diagnosis results judged by BCM.		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.		
Data Monitor	The BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Ecu Identification	The BCM part number is displayed.		
Configuration	This function is not used even though it is displayed.		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub avatam calcation 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 systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	всм	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	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-III.

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description			
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected			
Odo/Trip Meter	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 "O			
	OFF>LOCK	Power supply position status of the moment a particular DTC is detected*	While turning power supply position from "OFF" to "LOCK"*		
Vehicle Condition	OFF>ACC				
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"		
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode		
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)*		
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)		
	ACC		Power supply position is "ACC" (Ignition switch ACC)		
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)		
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)		
	CRANKING		Power supply position is "CRANKING" (At engine cranking)		
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:

RETAIND PWR

RETAIND PWR: CONSULT-III Function (BCM - RETAINED PWR)

INFOID:0000000006454854

Data monitor

Monitor Item	Description
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.

^{*:} For models without steering lock unit, power supply position changes from "OFF" to "LOCK" when steering lock conditions are satisfied.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

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1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Rattory power supply	K (40A)
11	Battery power supply	10 (10A)

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

(+) BCM		(-)	Voltage (Approx.)	
Connector	Terminal		(r pprox.)	
M118	1	Ground	Pottony voltago	
M119	11	Ground	Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

>> Repair harness or connector. NO

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

1.CHECK POWER SUPPLY CIRCUIT 1

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Turn ignition switch ON.

Revision: 2011 December

Check voltage between power window main switch harness connector and ground.

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2011 G Coupe

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+) Power window main switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,	
D8	1 10	Ground	Battery voltage	

Is the measurement value within the specification?

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

2.CHECK POWER SUPPLY CIRCUIT $_{ m 2}$

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM harness connector and power window main switch harness connector.

В	СМ	Power window main switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M118	2	D8	1	Existed
IVITIO	3	D6	10	Existed

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	2	Not exist	Not existed
IVITIO	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Exploded View"

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between power window main switch harness connector and ground.

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	15		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH: Diagnosis Procedure

INFOID:0000000006454857

1. CHECK POWER SUPPLY CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- 3. Check voltage between power window sub-switch harness connector and ground.

(+)			Voltage (V)
Power window Connector	Power window sub-switch Connector Terminal		(Approx.)
Connector			
D38	10	Ground	Battery voltage

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT 2

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM harness connector and power window sub-switch harness connector.

В	ВСМ		Power window sub-switch	
Connector	Terminal	Connector	Terminal	Continuity
M118	2	D38	10	Existed

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Exploded View"

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between power window sub-switch harness connector and ground.

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	11		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000006454858

Door glass moves UP/DOWN by receiving the signal from power window main switch.

DRIVER SIDE : Component Function Check

INFOID:0000000006454859

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check driver side power window motor operation with power window main switch.

Is the inspection result normal?

YES >> Driver side power window motor is OK.

NO >> Refer to PWC-16, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006454860

1. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect driver side power window motor connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between driver side power window motor harness connector and ground.

(+) Driver side power window motor		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(/ (pprox.)
	D10 3	Ground	Power window main switch	UP	Battery voltage
D10				DOWN	0
DIO				UP	0
				DOWN	Battery voltage

Is the measurement value within the specification?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK POWER WINDOW MOTOR

Check driver side power window motor.

Refer to PWC-17, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver side power window motor. Refer to <u>GW-21, "Removal and Installation"</u>.

3. CHECK POWER WINDOW MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- Check continuity between power window main switch harness connector and driver side power window motor harness connector.

Power windo	w main switch	Driver side power window motor		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
D8	8	D10	6	Existed	
	11	010	3	LXISIEU	

4. Check continuity between power window main switch harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Power windo	Power window main switch		Continuity
Connector	Terminal	Ground	Continuity
D8	8		Not existed
50	11		NOT GYISTER

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-97, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

COMPONENT INSPECTION

1. CHECK DRIVER SIDE POWER WINDOW MOTOR

- Turn ignition switch OFF.
- Disconnect driver side power window motor connector.
- Check motor operation by connecting the battery voltage directly to driver side power window motor connector.

Driver side power window mo-	Teri	Motor operation	
tor connector	(+)	(–)	Motor operation
D10	3	6	DOWN
	6	3	UP

Is the inspection result normal?

YES >> Driver side power window motor is OK.

NO >> Replace driver side power window motor. Refer to GW-21, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

Door glass moves UP/DOWN by receiving the signal power window main switch or power window sub-switch.

PASSENGER SIDE: Component Function Check

CHECK POWER WINDOW MOTOR CIRCUIT

Check passenger side power window motor operation with power window main switch or power window sub switch.

Is the inspection result normal?

YES >> Passenger side power window motor is OK.

>> Refer to PWC-17, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect passenger side power window motor connector.
- 3. Turn ignition switch ON.
- Check voltage between passenger side power window motor harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

(+) Passenger side power window motor		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				()
	6	Ground		UP	Battery voltage
D40	0		Power window sub-	DOWN	0
D40	3		switch	UP	0
			DOWN	Battery voltage	

Is the measurement value within the specification?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-18, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace passenger side power window motor. Refer to <u>GW-21</u>, "Removal and Installation".

3.check power window motor circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power wind	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	9	D40	3	Existed
D30	8	D40	6	Existed

4. Check continuity between power window sub-switch connector and ground.

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	8	Ground	Not existed
	9		

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-97, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000006454865

COMPONENT INSPECTION

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

- Turn ignition switch OFF.
- 2. Disconnect passenger side power window motor connector.
- Check motor operation by connecting the battery voltage directly to passenger side power window motor connector.

< DTC/CIRCUIT DIAGNOSIS >

Passenger side power window	Terr	minal	Motor condition
motor connector	(+)	(-)	Wotor Condition
D40	3	6	DOWN
	6	3	UP

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Is the inspection result normal?

YES >> Passenger side power window motor is OK.

NO >> Replace passenger side power window motor. Refer to <u>GW-21</u>, "<u>Removal and Installation</u>".

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< DTC/CIRCUIT DIAGNOSIS >

ENCODER

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000006454866

Detects condition of the driver side power window motor operation and transmits to power window main switch as the pulse signal.

DRIVER SIDE: Component Function Check

INFOID:0000000006454867

1. CHECK ENCODER OPERATION

Check that driver side door glass performs AUTO open/close operation normally with power window main switch.

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-20, "DRIVER SIDE : Diagnosis Procedure".

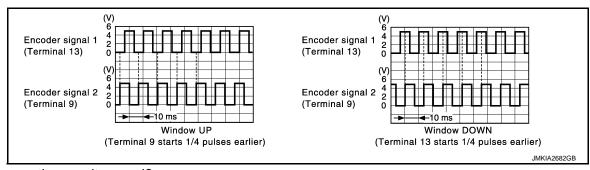
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006454868

1. CHECK ENCODER OPERATION

- Turn ignition switch ON.
- 2. Check signal between power window main switch harness connector and ground with oscilloscope.

(+) Power window main switch		(-)	Signal (Reference value)	
Connector	Terminal		(Italiana valua)	
D0	9	Cround	Defer to the following signal	
D8	13	Ground	Refer to the following signal	



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-97, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector and driver side power window motor connector.
- Check continuity between power window main switch harness connector and driver side power window motor harness connector.

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	9	D10	5	Existed
Do	13	010	2	LXISIGU

4. Check continuity between power window main switch harness connector and ground.

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Power wind	Power window main switch		Continuity
Connector	Terminal	Ground	Continuity
D8	9	Ground	Not existed
Do	13		NOT EXISTEN

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3.}$ CHECK ENCODER POWER SUPPLY CIRCUIT 1

- Connect power window main switch connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between driver side power window motor harness connector and ground.

(+) Driver side power window motor			Voltage (V)	
		(–)	(Approx.)	
Connector	Terminal		(11 - 7	
D10	4	Ground	Battery voltage	

Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check continuity between power window main switch harness connector and driver side power window motor harness connector.

Power windo	Power window main switch		Driver side power window motor	
Connector	Terminal	Connector	Terminal	Continuity
D8	5	D10	4	Existed

Check continuity between power window main switch harness connector and ground.

Power windo	w main switch		Continuity
Connector	Connector Terminal		Continuity
D8	5		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-97, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT $^{\scriptscriptstyle 1}$

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check continuity between power window main switch harness connector and driver side power window motor harness connector.

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	14	D10	1	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK GROUND CIRCUIT 2

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- Connect power window main switch connector.
- Check continuity between power window main switch harness connector and ground.

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D8	14		Existed

Is the inspection result normal?

YES >> Replace driver side power window motor. Refer to GW-21, "Removal and Installation".

NO >> Replace power window main switch. Refer to PWC-97, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000006454869

Detects condition of the passenger side power window motor operation and transmits to power window subswitch as the pulse signal.

PASSENGER SIDE: Component Function Check

INFOID:0000000006454870

1. CHECK ENCODER OPERATION

Check that passenger side door glass performs AUTO open operation normally with power window main switch or power window sub-switch.

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-22, "PASSENGER SIDE : Diagnosis Procedure".

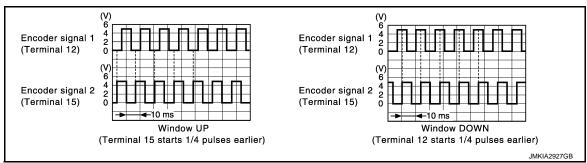
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000006454871

1. CHECK ENCODER SIGNAL

- Turn ignition switch ON.
- 2. Check signal between power window sub-switch harness connector and ground with oscilloscope.

(+) Power window sub-switch		(-)	Signal (Reference value)	
Connector	Terminal	(recipione va		
D38	12	Ground	Pofor to the following signal	
D36	15	Ground	Refer to the following signal	



Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-97, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect power window sub-switch connector and passenger side power window motor connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

< DTC/CIRCUIT DIAGNOSIS >

Power wind	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
D38	12	D40	2	Existed
D38	15	J40	5	Existed

4. Check continuity between power window sub-switch connector and ground.

Power window sub-switch			Continuity
Connector	Connector Terminal		Continuity
	12	Ground	Not existed
D30	15		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK ENCODER POWER SUPPLY CIRCUIT 1

- 1. Connect power window sub-switch connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between passenger side power window motor harness connector and ground.

(+)			Voltage (V) (Approx.)	
Passenger side power window motor		(–)		
Connector	Terminal		() 1 - 7	
D40	4	Ground	Battery voltage	

Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

- Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- 3. Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power windo	Power window sub-switch		Passenger side power window motor	
Connector	Terminal	Connector Terminal		Continuity
D38	4	D40	4	Existed

4. Check continuity between power window sub-switch harness connector and ground.

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	4		Not existed

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-97, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK GROUND CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

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Power window sub-switch		Passenger side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
D38	3	D40	1	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

- Connect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and ground.

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	3		Existed

Is the inspection result normal?

>> Replace passenger side power window motor. Refer to <u>GW-21, "Removal and Installation"</u>. >> Replace power window sub-switch. Refer to <u>PWC-97, "Removal and Installation"</u>. YES

NO

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

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POWER WINDOW MAIN SWITCH: Description

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, power window subswitch.

Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to power window sub-switch.

- Front passenger side door window operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

POWER WINDOW MAIN SWITCH: Component Function Check

INFOID:0000000006454873

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(III) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to BCS-15, "COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDE UNLOCK SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-25, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000006454874

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.

2. Check signal between power window main switch harness connector and ground.

(+) Power window Connector	main switch Terminal	(-)	Signal (Reference value)
D8	12	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB

Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK SIGNAL

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< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect power window main switch connector.
- Turn ignition switch ON.
- 4. Check voltage between power window main switch harness connector and ground.

(+) Power window main switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(* FF. 5)	
D8	12	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-97, "Removal and Installation".

NO >> GO TO 3.

3.check power window serial link circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM connector and power window main switch connector.

В	ВСМ		Power window main switch	
Connector	Terminal	Connector Terminal		Continuity
M123	132	D8	12	Existed

4. Check continuity between BCM connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH: Description

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, power window subswitch.

Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to power window sub-switch.

- Front passenger side door window operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

POWER WINDOW SUB-SWITCH: Component Function Check

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1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT-III

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Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to BCS-15, "COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

Monitor item	(Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK 3VV	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-27, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure".

POWER WINDOW SUB-SWITCH: Diagnosis Procedure

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between power window sub-switch harness connector and ground.

(+) Power window	Power window sub-switch		Signal (Reference value)	
Connector	Terminal		,	
D38	16	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB	

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-97, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- Turn ignition switch ON.
- 4. Check voltage between power window sub-switch harness connector and ground.

	+) ow sub-switch	(–)	(-) Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
D38	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-97, "Removal and Installation".

NO >> GO TO 3.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector and power window sub-switch connector.
- Check continuity between BCM connector and power window sub-switch connector.

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< DTC/CIRCUIT DIAGNOSIS >

ВСМ		Power window sub-switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	132	D38	16	Existed

4. Check continuity between BCM connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Exploded View".

NO >> Repair or replace harness.

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WIII LIXIII	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
I K WIF LIX LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi- tion
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
LILDEANA CIA/	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COINIC CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LICUIT CW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED FOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOR SW AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

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Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
CDL LOCK 3VV	Power door lock switch LOCK	On
CDL LINI OCK CW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEN CALLK CM	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYLLIN CW	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD CM	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TD CANCEL SW	Trunk lid opener cancel switch OFF	Off
TR CANCEL SW	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
IIVBB OF LIN SW	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
TININGTIAL WINTER	Trunk lid opened	On
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
KKL-LOCK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
INC-ONLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
IXXL-11/DD	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
ICICL-I ANIO	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
KKL-F/W OF LIN	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OI HOAL GLINGON	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
INEW OWY -DIN	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEW OW -AO	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	- A
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off	_ _ В
KEQ SW -BD/TR	Trunk lid opener request switch is pressed	On	_ D
DUCU CW	Push-button ignition switch (push switch) is not pressed	Off	-
PUSH SW	Push-button ignition switch (push switch) is pressed	On	С
ICN DIVO E/D	Ignition switch in OFF or ACC position	Off	_
GN RLY2 -F/B	Ignition switch in ON position	On	_
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	– D
CLUCUCW	The clutch pedal is not depressed	Off	
CLUCH SW	The clutch pedal is depressed	On	
	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	F
DDAKE SW 2	The brake pedal is not depressed	Off	_
BRAKE SW 2	The brake pedal is depressed	On	G
DETE/CANCL SW	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off	_
DETE/CANCL SW	Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models)	On	Н
SFT PN/N SW	Selector lever in any position other than P and N	Off	_
SET PIN/IN SVV	Selector lever in P or N position	On	
S/L -LOCK	Steering is unlocked	Off	_
NOTE: For models without steering lock unit, this tem is not monitored.	Steering is locked	On	J
S/L -UNLOCK	Steering is locked	Off	PV
NOTE: For models without steering lock unit, this tem is not monitored.	Steering is unlocked	On	L
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off	_
NOTE: For models without steering lock unit, this tem is not monitored.	Ignition switch in ON position	On	M
JNLK SEN -DR	Driver door is unlocked	Off	_ N
JINER JEIN -DR	Driver door is locked	On	- 11
	Push-button ignition switch (push-switch) is not pressed	Off	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	0
CN DIV1 F/D	Ignition switch in OFF or ACC position	Off	
GN RLY1 -F/B	Ignition switch in ON position	On	_
NETE ON IDDA	Selector lever in any position other than P	Off	– P
DETE SW -IPDM	Selector lever in P position	On	_
OFT DN 100M	Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models)	Off	_
SFT PN -IPDM	Selector lever in P or N position The clutch pedal is depressed	On	_

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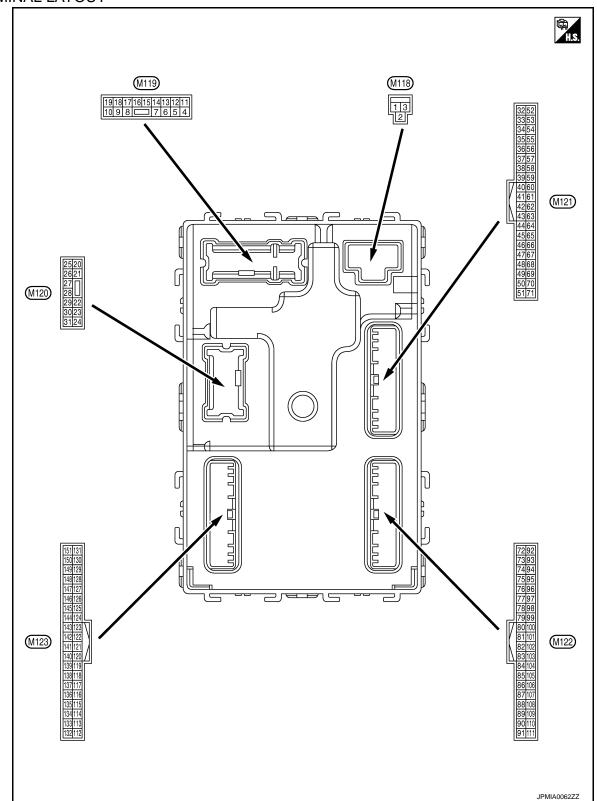
Monitor Item	Condition	Value/Status
OFT D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
CET N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
For models without steering lock unit, this item is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch is ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
PRIMITENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEN SM SLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
OONFRIVI ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
001151514154	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
IF 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
1173	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
1 P Z	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
iri	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
DICEOSTILI	ID of front LH tire transmitter is not registered	Yet
D REGST FR1	ID of front RH tire transmitter is registered	Done
D REGOTTINI	ID of front RH tire transmitter is not registered	Yet
D REGST RR1	ID of rear RH tire transmitter is registered	Done
DICEGUIANI	ID of rear RH tire transmitter is not registered	Yet
D DECST DL4	ID of rear LH tire transmitter is registered	Done
D REGST RL1	ID of rear LH tire transmitter is not registered	Yet
A/A DAIINIO I ARAD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
(Wire color) + -		Signal name	Input/ Output	Condition		(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V	
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V	
	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V	
4 (LG)				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V	
5 (P)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V	
					Other than UNLOCK (Actuator is not activated)	0 V	
7	Ground	Step lamp	Output	Step lamp	ON	0 V	
(SB)	Oroana	Ctop tamp	Output	Ctop tamp	OFF	12 V	
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V	
					Other than LOCK (Actuator is not activated)	0 V	
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V	
					Other than UNLOCK (Actuator is not activated)	0 V	
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V	
14 (W)	Ground	Push-button ignition switch illumination ground	Output		OFF	0 V	
				Tail lamp		NOTE: When the illumination brightening/dimming level is in the neutral position.	
					ON	(V) 10 0 2 ms JSNIA0010GB	
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(66)					ACC	0 V	

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Terminal No. (Wire color)		Description				Value	
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 5 11 1 s PKID0926E 6.5 V	
					Turn signal switch OFF	0 V	
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V	
					ON	0 V	
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V	
					Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
23 (LG)	Ground	Trunk lid open	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V	
					Other than OPEN (Trunk lid opener actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
30 (P)		Trunk room lamp	Output	Trunk room lamp	ON	0 V	
	Ground				OFF	12 V	

	nal No. color)	Description			O Bit	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	, (
34		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(SB)	Ground	(-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1	E
35	Crowd	Trunk room antenna	Outout	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(V)	Ground	(+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J PW
				When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
38 (B)	Ground	Rear bumper antenna (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	O

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
39	When the trunk lid opener re-		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB		
(W)	Ground	na (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(Y)	Ground	E/R) control	Output	ignition switch	ON	0 V
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Trunk lid is opened)	0 V
		Starter relay control	Output	Ignition switch ON (A/T mod- els)	When selector lever is in P or N position	12 V
52	Ground				When selector lever is not in P or N position	0 V
(R)	Ground			Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60* ³	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	Orodria	switch (Push switch)	mput	(Push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
		Intelligent Key warn-		Intelligent Key	Sounding	0 V
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V

	nal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Pressed Not pressed	(V) 15 10 5 0
72	Ground	Room antenna 2 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	JPMIA0011GB 11.8 V (V) 15 10 5 0 JMKIA0062GB
(R) Grou	Siduria	(Center console)	Сири	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
73	0	Room antenna 2 (+)	Out	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
74	When the passenger door an-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
(SB)	Ground	tenna (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(BR)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
76	Ground	Driver door antenna (−)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No. color)	Description			O Province	Value	
+	–	Signal name	Input/ Output		Condition	(Approx.)	
77		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)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
78	0	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
78 (Y)	Ground	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	F
79	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(BR)	Citodid	(Instrument panel)	Culput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent 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 Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 1 ms
(Y)	Glound	tion	Output	When operating either button on the Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB
		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (Y)	Ground				Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0036GB 1.3 V
(BG) Ground	Glound	INPUT 3	mput	switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89* ⁴		Push-button ignition		Push-button ig-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output			_
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
						6.5 V
					ON	12 V

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(011)					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Giodila	ACC relay control	Output	ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97* ⁴	Ground	Steering lock condi-	Innut	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	Input	Steering lock	UNLOCK status	12 V
98*4	0	Steering lock condi-	lt	Ota a sia a la ala	LOCK status	12 V
(P)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V
		Selector lever P posi-		O a la atau la can	P position	0 V
99 (R)* ¹ Ground (BR)* ²		ASCD clutch switch (M/T models without		Selector lever	Any position other than P	12 V
			Input	ASCD clutch switch	OFF (Clutch pedal is depressed)	0 V
	Ground				ON (Clutch pedal is not depressed)	12 V
		ICC clutch switch (M/		ICC clutch	OFF (Clutch pedal is depressed)	0 V
		T models with ICC)		switch	ON (Clutch pedal is not depressed)	12 V
					ON (Pressed)	0 V
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016G
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GI
102 (BG)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch C		12 V
106* ⁴ Cro		Steering lock unit			OFF or ACC	12 V
(SB)	Ground	power supply	Output	Ignition switch	ON	0 V

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

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	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)	Sissand				Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	(V) 15 10 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

	nal No.	Description	1			Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* ⁴ (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V
113	113 (BG) Ground	Optical sensor	lanut	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
(BG)			Input		When dark outside of the vehicle	Close to 0 V
114	Ground	Clutch interlock	Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	Input	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	Input	switch	ON (Brake pedal is depressed)	Battery voltage
(BR)	3.04.14	Stop lamp switch 2			h OFF (Brake pedal is not ICC brake hold relay OFF	0 V
		(With ICC)			h ON (Brake pedal is de- brake hold relay ON	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (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

Α

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	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
121	Ground	Key slot switch	Input	When the Intellig	gent Key is inserted into key	12 V
(SB)		,		When the Intelliq	gent Key is not inserted into	0 V
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close) ON (Door open)	Battery voltage (V) 15 10 5 0 JPMIA0011GB 11.8 V 0 V
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 JPMIA0012GB 1.1 V
					ON	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
				3	ON (Tail lamps OFF)	9.5 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	put LOCKindicator OFF ON		Battery voltage 0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V

	nal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)	Ground	power supply	Output	ignition switch	ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0
(L)		er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(B)	Ground	position (A/T models)	iliput	Selector level	Except P and N positions	0 V
					ON	0 V
141 (W)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(BR)	Ciouna	OUTPUT 5	Guiput	(Wiper volume dial 4)	Turn signal switch RH	0 2 ms 2 ms 10.7 V
					All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	(<u>V</u>)
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description	ı		0 111	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	10 5 0 DPMIA0033GB
					All switches OFF	0 V
				.	Front wiper switch INT/ AUTO	(V)
145		Combination switch		Combination switch	Front wiper switch LO	15
(L)	Ground	OUTPUT 3	Output	(Wiper volume dial 4)	Lighting switch AUTO	2 ms JPMIA0034GB
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V) 15
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)		OUTPUT 4	·	(Wiper volume dial 4)	Turn signal switch LH	0
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	Cround	ger relay control	Caiput	defogger	Not activated	Battery voltage

^{• *1:} A/T models

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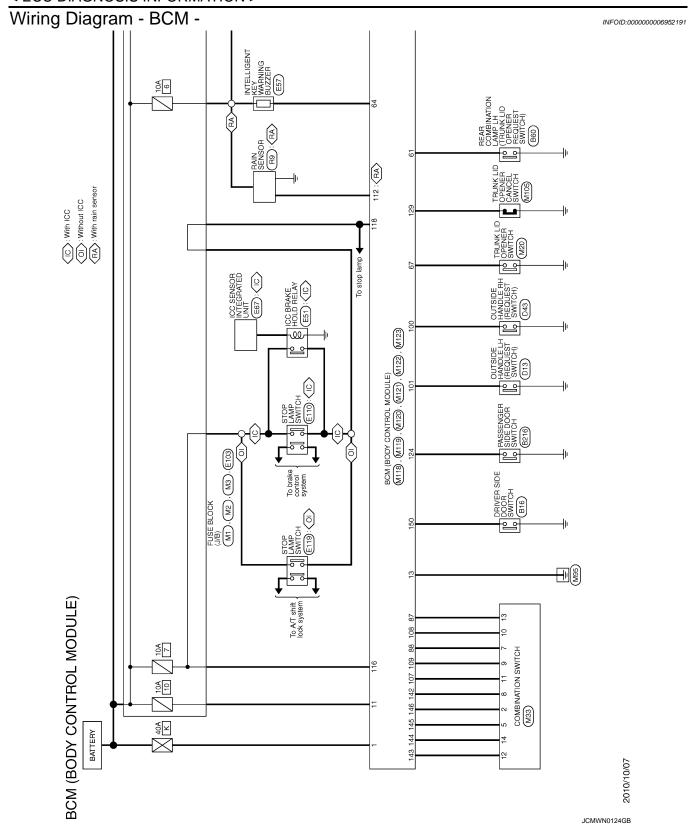
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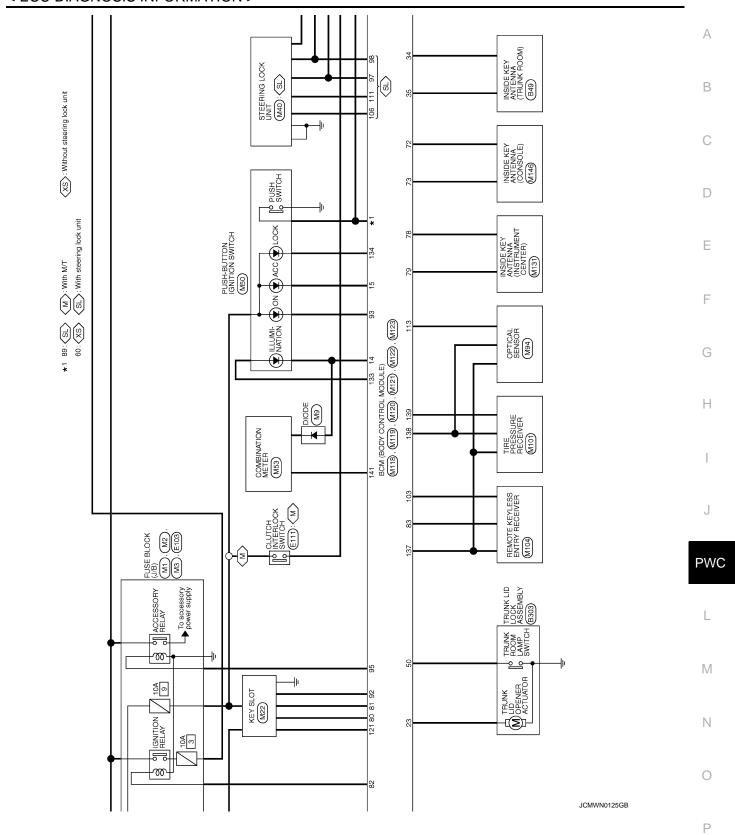
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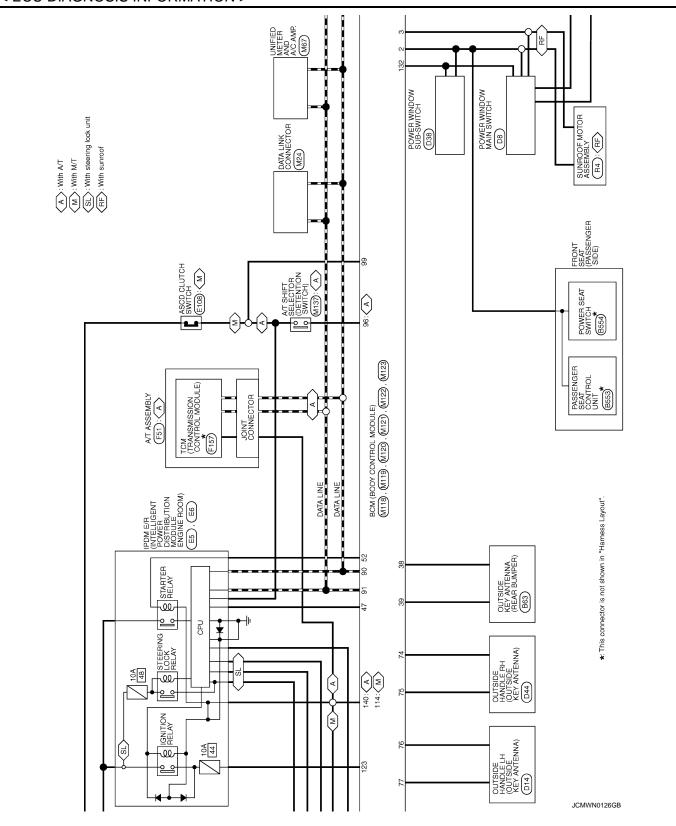
^{• *2:} M/T models

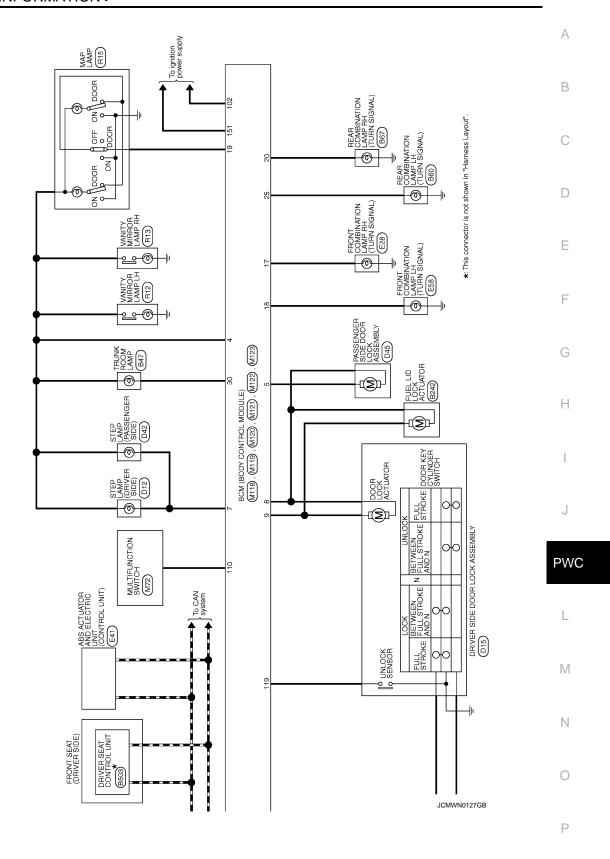
^{• *3:} Without steering lock unit

^{• *4:} With steering lock unit









Y KEYLESS ENTRY RECEIVER COMM	Y COMBI SW INPUT 5	BG COMBI SW INPUT 3	BR PUSH SW	P CAN-L	L CAN-H	LG KEY SLOT ILL		BG ACC RELAY CONT	GR A/T SHIFT SELECTOR POWER SUPPLY	L S/L CONDITION 1	P S/L CONDITION 2	R SHIFT P [With A/T]	BR ASCD CLUTCH SW [With M/T]	Y PASSENGER DOOR REQUEST SW	4	BG BLOWER FAN MOTOR RELAY CONT	KEYLESS	I/S			W COMBI SW INPUT 2	G HAZARD SW	Y S/L UNIT COMM																					
83	87	88	68	06	16	H	H	H	96	6	86	66	66	100	\dashv	4	+	+	107	4	109	110	111																					
M121	BCM (BODY CONTEOL MODILIE)	BOW (BOD) CONTROL MODOLE)	TH40FGY-NH				IV 1	8 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32	20 00 00 00 00 00 00 00 00 00 00 00 00 0			Cimpal Money Consists		TRUNK ROOM ANT-	TRUNK ROOM ANT+	REAR BUMPER ANT-	REAR BUMPER ANT+	IGN RELAY (IPDM E/R) CONT	TRUNK ROOM LAMP SW	STARTER RELAY CONT	PUSH SW	TRUNK LID OPENER REQUEST SW	I-KEY WARN BUZZER (ENG ROOM)	TRUNK LID OPENER SW		M122	BCM (BODY CONTROL MODILLE)		I H40FB-NH			88 87 86 85 84 83 82 81 80 79 73 77 76 75 74 73 72 72 10 10 10 10 10 10 10 10 10 10 10 10 10		Signal Name [Snecification]		ROOM ANT 2-	RUOM ANT 24	DASSENGED DOOD ANT+	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT 1-	ROOM ANT 1+	NATS ANT AMP.	NATS ANT AMP.
Connector No.	Omena Mama	scror Name	Connector Type		_	<u>ر</u>]	51 50 49 4	3			Ferminal Color	No. of Wire	34 SB	35 V	38 B	39 W	+	1	+	60 BR	61 SB	64 G	67 GR		Connector No.	Connector Name	1	Connector Type		S.	91 90 89 8		-B	ъ Б	+	74 SB	+	╀	77 LG	78 Y	Н	+	81 W
Connector No. M119	O Section Nome (BODY CONTROL MODILE)	BOIM (BOD) CONTROL MODOLE)	Connector Type NS16FW-CS C				4 5 6 7 6 9 10	11 12 13 14 15 16 17 18 19	21			Terminal Color Simple Name Consideration T	No. of Wire Signal Ivalie [Specification]	4 LG INTERIOR ROOM LAMP POWER SUPPLY	PASSEN	7 SB STEP LAMP OUTPUT	>	G DRIVER DOOR,	R BA	В	14 W PUSH-BUTTON IGNITION SWILL GND	15 BG ACC IND	17 W TURN SIGNAL RH (FRONT)	BG 1	19 V INT ROOM LAMP CONT	<u></u>	Connector No. M120	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS12FW-CS	1	Arth	20 21 0 22 23	[25 26 27 28 29 30 31]		la	ot Wire	20 V IURN SIGNAL RH (REAR)	3 >	- 0		1			
Connector No. M33	HOTING NOTION COMPINATION		Connector Type TH16FW-NH	¢	唐	<u> </u>]	ج 4	7 8 9 10 11 12 13 14			la.	No. of Wire Signar Marine [Specification]	1 GR FR WASHER (-)	2 SB 0UTPUT 4	5 L OUTPUT 3		BG		м	10 R INPUT 4	11 LG INPUT 1	12 P OUTPUT 1	> 4	14 G OUTPUT 2		Connector No. M118	Connector Name BCM (BODY CONTROL MODULE)	Connector Type M03FB-LC	1					Terminal Color Signal Name [Specification]		2 V POWER WINDOW POWER SLIBBLY (RAT)	2 BOWER WINDOW BOWED STIEDT V (BAB)	200					

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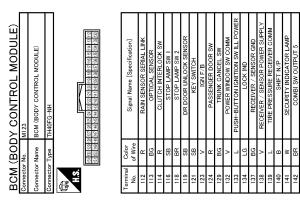
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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are ful- filled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (12 V) • Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (12 V) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (12 V) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (12 V) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (12 V) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (12 V)

DTC Inspection Priority Chart

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

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM 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	P

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	 ■ B2013: ID DISCORD BCM-S/L ■ B2014: CHAIN OF S/L-BCM ■ B2555: IGNITION RELAY ■ B2555: STOP LAMP ■ B2555: YUEHICLE SPEED ■ B2560: STARTER CONT RELAY ■ B2601: SHIFT POSITION ■ B2602: SHIFT POSITION ■ B2603: SHIFT POSI STATUS ■ B2604: PNP/CLUTCH SW ■ B2605: PNP/CLUTCH SW ■ B2606: S/L RELAY ■ B2607: S/L RELAY ■ B2608: STARTER RELAY ■ B2609: S/L STATUS ■ B2609: S/L STATUS ■ B2600: STEERING LOCK UNIT ■ B2600: STEERING LOCK UNIT ■ B2600: STEERING LOCK UNIT ■ B2607: ENG STATE SIG LOST ■ B2612: S/L STATUS ■ B2614: BCM ■ B2615: BCM ■ B2616: BCM ■ B2617: BCM ■ B2618: BCM ■ B2619: S/L STATUS ■ B26219: JHCL SPEED SIG ERR ■ U0415: VEHICLE SPEED
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] 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-15. "COM-MON ITEM":</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page	1
No DTC is detected. further testing may be required.	_	-	_	_	_	
U1000: CAN COMM	_	_	_	_	BCS-34	(
J1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-35	
U0415: VEHICLE SPEED	_	_	_	_	BCS-36	
B2013: ID DISCORD BCM-S/L*	×	×	_	_	<u>SEC-57</u>	
B2014: CHAIN OF S/L-BCM*	×	×	_	_	<u>SEC-58</u>	
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-49	
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-52</u>	
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-53	
B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-55</u>	
B2195: ANTI-SCANNING	×	_	_		SEC-56	
B2553: IGNITION RELAY	_	×	_		PCS-51	
B2555: STOP LAMP	_	×	_	_	SEC-61	
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-63	
B2557: VEHICLE SPEED	X	×	×	_	SEC-65	
B2560: STARTER CONT RELAY	X	×	×	_	SEC-66	
B2562: LOW VOLTAGE	_	×	_	_	BCS-37	
32601: SHIFT POSITION	×	×	×	_	SEC-67	
B2602: SHIFT POSITION	X	×	×	_	SEC-70	
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-72	
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-75	_
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-77	F
B2606: S/L RELAY*	×	×	×	_	SEC-79	P
B2607: S/L RELAY*	X	×	×	_	SEC-80	
B2608: STARTER RELAY	X	×	×	_	SEC-82	
B2609: S/L STATUS*	X	×	×	_	SEC-84	
B260A: IGNITION RELAY	X	×	×	_	PCS-53	
B260B: STEERING LOCK UNIT*		×	×	_	SEC-88	
B260C: STEERING LOCK UNIT*		×	×	_	SEC-89	
B260D: STEERING LOCK UNIT*		×	×	_	SEC-90	
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-91	
B2612: S/L STATUS*	×	×	×	_	SEC-96	
B2614: BCM		×	×	_	PCS-55	
32615: BCM		×	×		PCS-57	
B2616: BCM		×	×		PCS-59	
32617: BCM	×	×	×		SEC-100	
B2618: BCM		×	×		PCS-61	
B2619: BCM*	^ ×	×	×	<u> </u>	SEC-102	
B261A: PUSH-BTN IGN SW		×	×	<u> </u>	PCS-62	
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)		SEC-103	

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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	Refer- ence page
B2621: INSIDE ANTENNA	_	×	_	_	DLK-56
B2622: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E8: CLUTCH SW	×	×	×	_	SEC-92
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-94</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-95</u>
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT 04
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT oc
C1710: [NO DATA] RR	_	_	_	×	<u>WT-26</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT 20
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-29</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-30
C1734: CONTROL UNIT	_	_	_	×	<u>WT-31</u>

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

< ECU DIAGNOSIS INFORMATION >

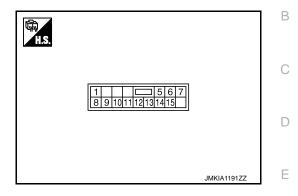
POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT

PHYSICAL VALUES

Revision: 2011 December



POWER WINDOW MAIN SWITCH

	nal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
1 (Y)	Ground	Battery power supply	Input	_	Battery voltage
5 (O)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window adjusting operates	Battery voltage
8 LHD (L) RHD (GR)	Ground	Driver side power window motor UP signal	Output	When power window main switch (Driver side) is op- erated UP	Battery voltage
9 LHD (LG) RHD (W)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms
10	Ground	Ignition switch power signal	Input	IGN SW ON	Battery voltage
(SB)	Ground	ignition switch power signal	Прис	IGN SW OFF	0
11 LHD (BR) RHD (P)	Ground	Driver side power window motor DOWN signal	Output	When power window main switch (Driver side) is op- erated DOWN	Battery voltage
12 (V)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 0 10 ms

PWC-63 2011 G Coupe

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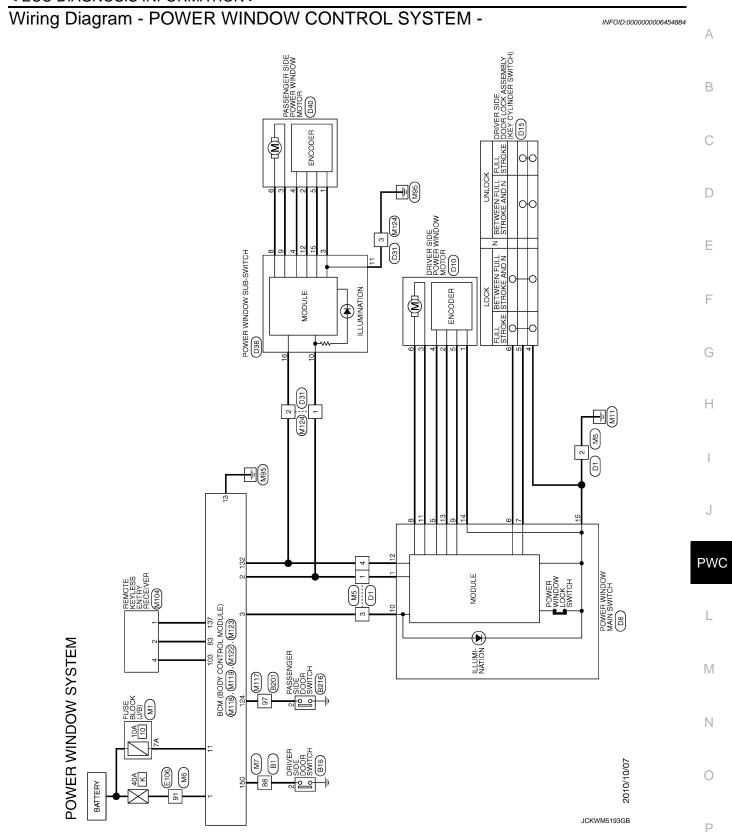
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	nal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
13 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB
14 (G)	Ground	Encoder ground	_	_	0
15 (B)	Ground	Ground	_	_	0



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Connector No.	. No. B1		28	+	1	Connector No.		B201	97 BR –
Connector Name	Name WIRE TO WIRE		60	2 H		Connector Name		WIRE TO WIRE	
Connector Type	Type TH80FW-CS16-TM4		19	Н	1	Connector Type	П	TH80FW-CS16-TM4	Connector No. B216
4			62	4	I	4			Connector Name PASSENGER SIDE DOOR SWITCH
#			63	+		季		L	Т
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91			91	\dashv	1	30	В	1	
11			92	_	1	31	٦	1	
18	. W		96	æ	1	32	۵	1	
20			90	>	1	33	SB	1	
21						34	>	1	
22			L			40	æ	1	
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33	SHIELD -				٥	20	Ь	-	
34					1 0	59	BG		
35					m	7.1	٣	1	
36						72	>	1	
Г	SHIELD		Terminal		2	80	>	1	
Г			No.	of Wire		81	SHIELD	1	
39	- FG		2	Т	1	82	>	1	
40						83	æ	1	
41	-					84	0	1	
H	SHIELD -					82	SHIELD	1	
t						98	g	1	
44						87	œ	1	
Г	SHIELD					88	Α	ı	
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99						92	9	ı	

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Ock ASSEMBLY Specification Specification Specification	Е
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B B B B B B B B B B B B B B B B B B B	28	o > 82 > 8 >	4 C -[With automatic drive positioner] 44 L -[Without automatic drive positioner] 47 L -[Without automatic drive positioner] 48 GP -	49 SB				
Connector No. MI Connector Name FUSE BLOCK (J/B) Connector Type NSOBFW-M2	3A <u>2A 1A</u> 8A 7A6A5A4A	of O	5A L	Gomector No. Mis Connector Name WIRE TO WIRE Connector Type TH40MW-CS15		Terminal Color Signal Name [Specification] 1		W W W W W W W W W W W W W W W W W W W
BG GR LG R R BG	++++	8 B B S	45 BG	9 8 8 8 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9		87 Y CR	- - ±	۵
POWER WINDOW SYSTEM Connector No. 040 Connector Name PASSENGER SIDE POWER WINDOW MOTOR Connector Type FHB09FCV-Z	456	Signal Name [Specification]		J WIFE	Signal Name (Specification)		- [With daytime running light] - [Without daytime running light] - [With daytime running light] - [Without daytime running light]	R P P · · · · · · · · · · · · · · · · ·

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< ECU DIAGNOSIS INFORMATION >

RECEIVER PUT	А
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TO WIRE TO WINE Signal Mane [Specification] Signal Mane [Specificatione] - [Without automatic drive positioner] - [Without automatic drive positioner] - [Without automatic drive positioner]	I
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WIRE CSI F-TM4 CSI F-	M
MWS WORLD WIRE TO WIRE THROWN CSIG-TMA Signal Name Signa	N
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< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM Connector No. M117	97 R -	Connector No.	M122	Connector No.	or No.	M123
Connector Name WIRE TO WIRE		Connector Name	BCM (BODY CONTROL MODULE)	Connec	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type TH80MW-CS16-TM4	Connector No. M118	Connector Type	TH40FB-NH	Connec	Connector Type	TH40FG-NH
	Connector Name BCM (BODY CONTROL MODULE) Connector Type M03FB-LC	E.S.H		康		
	HS.	91 90 88 111 110 103	28 627 665 64 64 63 63 61 60 70 70 70 70 70 70 72 73 73 73 70 70 70 70 70 70 70 70 70 70 70 70 70		131 130 125 12	য় সাক্ষা করে জিলা করে বিজ্ঞান করে বিজ্ঞান করে করে জিলা জিলা জিলা জিলা জিলা জিলা জিলা জিলা
Terminal Color Signal Name [Specification]	7	Terminal Color No. of Wire	Signal Name [Specification]	Terminal No.	I Color of Wire	Signal Name [Specification]
1 LG -		72 R	ROOM ANT 2-	112	۳	RAIN SENSOR SERIAL LINK
d. 0	Terminal Color Signal Name [Specification]	73 G	ROOM ANT 2+	113	BG a	OPTICAL SENSOR
╀	t	╀	PASSENGER DOOR ANT+	911	SB	STOP LAMP SW 1
- FG - 6	H	H	DRIVER DOOR ANT-	118	BR	STOP LAMP SW 2
10 L –	3 BG POWER WINDOW POWER SUPPLY (RAP)	77 LG	DRIVER DOOR ANT+	119	SB	DR DOOR UNLOCK SENSOR
+		+	ROOM ANT 1-	121	SB :	KEY SWITCH
+		+	ROOM ANT 1+	123	>	IGN F/B
32 LG	┰	80 80 80	NATS ANT AMP.	124	œ 8	PASSENGER DOOR SW
+	Connector Name BCM (BODY CONTROL MODULE)	H	IGN RELAY (F/B) CONT	132	3 >	POWER WINDOW SW COMM
H	Connector Type NS16FW-CS	H	KEYLESS ENTRY RECEIVER COMM	133	٦	PUSH-BUTTON IGNITION SW ILL POWER
	á	¥ 78	COMBI SW INPUT 5	134	FG	LOCK IND
H	图	Н	COMBI SW INPUT 3	137	BG	RECEIVER / SENSOR GND
+		7	PUSH SW	138	>	RECEIVER / SENSOR POWER SUPPLY
†	8] / 9	90 b	CAN-L	139	١,	TIRE PRESSURE RECEIVER COMM
46 SHIELD -	11 12 13 14 15 16 17 18 19	1 6	CAN-H	94	a 3	SHIFT N/P
4,4		93 GR	ON IND	142	# ##	COMBLSW OUTPUT 5
49 SHIELD –		H	ACC RELAY CONT	143	۵	COMBI SW OUTPUT 1
- A 06	lal	96 GR	A/T SHIFT SELECTOR POWER SUPPLY	144	ŋ	COMBI SW OUTPUT 2
+	e.	+	S/L CONDITION 1	145	_	COMBI SW OUTPUT 3
71 R =	4 LG INTERIOR ROOM LAMP POWER SUPPLY 5 D DASSENCED DOOD HIN OCK CHITCHIT	86 6	S/L CONDITION 2	146	88	COMBI SW OUTPUT 4
- M 08	SB	F	ASCD CLUTCH SW [With M/T]	121	5 0	REAR WINDOW DEFOGGER RELAY CONT
81 SHIELD –	H	L	PASSENGER DOOR REQUEST SW			
82 P –	G DRIVER DOOR,	\dashv	DRIVER DOOR REQUEST SW			
+	BA.	7	BLOWER FAN MOTOR RELAY CONT			
	14 W PIISH-RITTON IGNITION SWILL GND	20 90 B. S.	SAL HNIT POWER SUPPLY			
t	BG	╀	COMBI SW INPUT 1			
87 B –		Н	COMBI SW INPUT 4			
+	BG	4	COMBI SW INPUT 2			
D 3	19 V INT ROOM LAMP CONT	01 ;	HAZARD SW			
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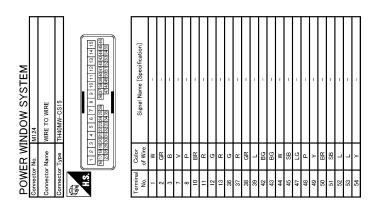
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FAIL-SAFE CONTROL

Fail-Safe

Switches to fail-safe control when malfunction is detected in encoder signal that detects up/down speed and direction of door glass. Switches to fail-safe control when a signal that is out of the specified value is detected between the fully closed position and the actual position of the glass.

< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunction condition
Pulse sensor malfunction	When one pulse signal that is the specified value or more is detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Both pulse sensor mal- function	When both pulse signal are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse indicating that the window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of the specified value is detected compared to the door glass fully closed position memorized in module, while door is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP and DOWN for the specified value or more without fully closing door glass (approximately 10 times or more).

In fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

- AUTO UP operation
- Anti-pinch function
- Automatic window adjusting function
- Door key cylinder switch power window function

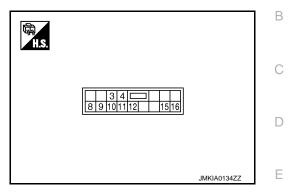
When fail-safe control is activated, perform initializing operation to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SUB-SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
3 (G)	Ground	Encoder ground	_	_	0
4 (O)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window operates adjusting	Battery voltage
8 LHD (L) RHD (GR)	Ground	Power window motor UP signal	Output	When power window motor is operated UP	Battery voltage
9 LHD (BR) RHD (P)	Ground	Power window motor DOWN signal	Output	When power window motor is operated DOWN	Battery voltage
10 (SB)	Ground	Battery power supply	Input	_	Battery voltage
11 (B)	Ground	Ground	_	_	0
12 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms

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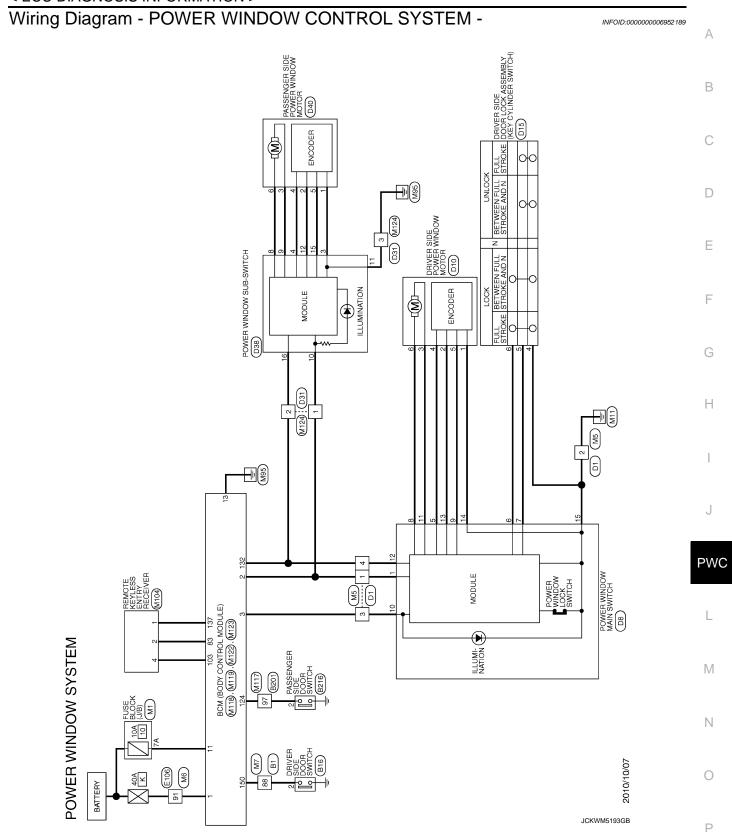
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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		- Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
15 LHD (LG) RHD (SB)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 0 10 ms JPMIA0013GB



Signaturation Signaturatio	10 65 10 10 10 10 10 10 10 1	POWER WINDOW SYSTEM Connector No. B1	28 V		Connec		B201	97 BR –
Fig. 18 Fig.	Size No.	WIRE TO WIRE	Н		Connec		WIRE TO WIRE	
Size of Name (Specification) 1	Signatur Name Colorector N	TH80FW-CS16-TM4	+		Connec	7	FH80FW-CS16-TM4	Т
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1	Signat Name (Specification) Sign	2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	t				7 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 3 3 3	
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Signal Name [Specification] Sign	91 V	1	\vdash		9	ď	1	
Signal Name [Specification] Sign	Signal Name Specification	1	91	1	30	8	1	
100 V	100 V	1	H		31	7	1	
Commetter No. Bi 6 24 24 40 CR Commetter Type Author Campeting Campe	Connector No. Signal Name [Specification] Signal Name Specification] Signal Name	1	_		32	В	1	
Connector Name DRIVER SIDE DOOR SWITCH 40 CR	Connector No. 616 41 CGR	1	L	-	33	SB	-	
Connector Name DRIVER SIDE DOOR SWITCH 440 GCR	Connector Name DRIVER SIDE DOOR SWITCH 41 LC	1			34	>	1	
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Connector Name DRIVER SIDE DOOR SWITCH 442 BG	Connector Name DRIVER SIDE DOOR SWITCH 43 BG 44 BG 4	1	Connector No.	B16	14	PC	I	
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Connec	Connector No.	D40	18	BG	-	Connector No. MI	Н	ı	
Connec	Connector Name	PASSENGER SIDE POWER WINDOW MOTOR	19	R C	1 1	Connector Name FUSE BLOCK (J/B)	20 P	1 1	
Connec	Connector Type	FHB06FGY-Z	30	~	T	Connector Type NS06FW-M2	25 Y	1	
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7	57	- [Without daytime running light]	92	>	1	- ^ 4			
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< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM Connector No. M117	97 R -	Connector No.	M122	Connector No.	or No.	M123
Connector Name WIRE TO WIRE		Connector Name	BCM (BODY CONTROL MODULE)	Connec	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type TH80MW-CS16-TM4	Connector No. M118	Connector Type	TH40FB-NH	Connec	Connector Type	TH40FG-NH
	Connector Name BCM (BODY CONTROL MODULE) Connector Type M03FB-LC	(B)		康		V.
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Terminal Color Signal Name [Specification]	7	Terminal Color No. of Wire	Signal Name [Specification]	Terminal No.	I Color of Wire	Signal Name [Specification]
1 LG -		72 R	ROOM ANT 2-	112	æ	RAIN SENSOR SERIAL LINK
	Terminal Color Signal Name [Specification]	73 G	BASSENGED DOOD ANT-	113	BG	OPTICAL SENSOR
╀	t	╀	PASSENGER DOOR ANT+	911	SB	STOP LAMP SW 1
- FG - 6	H	H	DRIVER DOOR ANT-	118	BR	STOP LAMP SW 2
10 L –	3 BG POWER WINDOW POWER SUPPLY (RAP)	77 LG	DRIVER DOOR ANT+	119	SB	DR DOOR UNLOCK SENSOR
+		+	ROOM ANT 1-	121	SB :	KEY SWITCH
+		+	ROOM ANT 1+	123	> (IGN F/B
32 LG =	┰	80 GR	NATS ANT AMP.	124	۳ S	PASSENGER DOOR SW TRINK CANCEL SW
╁	Connector Name BCM (BODY CONTROL MODULE)	H	IGN RELAY (F/B) CONT	132	>	POWER WINDOW SW COMM
40 Y –	Connector Type NS16FW-CS	83 Y	KEYLESS ENTRY RECEIVER COMM	133	7	PUSH-BUTTON IGNITION SW ILL POWER
41 G	q	¥ 78	COMBI SW INPUT 5	134	ΡΠ	LOCK IND
-	that	\dashv	COMBI SW INPUT 3	137	BG	RECEIVER / SENSOR GND
+		7	PUSH SW	138	>	RECEIVER / SENSOR POWER SUPPLY
†	8] / 9	90 s	CAN-L	139	_	TIRE PRESSURE RECEIVER COMM
46 SHIELD -	11 12 13 14 15 16 17 18 19	16	CAN-H	94	a 3	SHIFT N/P
4,4		92 LG	ON IND	142	# E	COMBLSW OUTPUT 5
49 SHIELD –		H	ACC RELAY CONT	143	۵	COMBI SW OUTPUT 1
- A 06	lal	96 GR	A/T SHIFT SELECTOR POWER SUPPLY	144	9	COMBI SW OUTPUT 2
+	e,	+	S/L CONDITION 1	145	_	COMBI SW OUTPUT 3
71 R =	4 LG INTERIOR ROOM LAMP POWER SUPPLY 5 D DASSENCED DOOD HIN OCK OUTDIT	86 86	S/L CONDITION 2	146	88 8	COMBI SW OUTPUT 4
- M 08	SB	F	ASCD CLUTCH SW [With M/T]	121	<u></u> 0	REAR WINDOW DEFOGGER RELAY CONT
81 SHIELD -	H	L	PASSENGER DOOR REQUEST SW			
82 P –	G DRIVER DOOR,	\dashv	DRIVER DOOR REQUEST SW			
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87 B –		Н	COMBI SW INPUT 4			
+	BG	4	COMBI SW INPUT 2			
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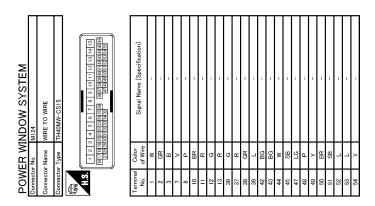
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FAIL-SAFE CONTROL

Fail-Safe

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< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunction condition
Pulse sensor malfunction	When one pulse signal that is the specified value or more is detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Both pulse sensor mal- function	When both pulse signal are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse indicating that the window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of the specified value is detected compared to the door glass fully closed position memorized in module, while door is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP and DOWN for the specified value or more without fully closing door glass (approximately 10 times or more).

In fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

- AUTO UP operation
- Anti-pinch function
- Automatic window adjusting function
- Door key cylinder switch power window function

When fail-safe control is activated, perform initializing operation to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCH-

< SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW **SWITCHES** В Description INFOID:0000000006454889 All power windows do not operate via power window main switch and power window sub-switch. Diagnosis Procedure INFOID:0000000006454890 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT D Check BCM power supply and ground circuit. Refer to PWC-13, "BCM: Diagnosis Procedure". Е Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. F 2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer toGI-43, "Intermittent Incident" NO >> GO TO 1. Н J **PWC**

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description INFOID:000000006454891

Driver side power window does not operate using power window main switch.

Diagnosis Procedure

INFOID:0000000006454892

1. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window main switch power supply and ground circuit.

Refer to PWC-13, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DRIVER SIDE POWER WINDOW MOTOR

Check driver side power window motor.

Refer to PWC-16, "DRIVER SIDE: Component Function Check".

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE WHEN POWER WINDOW MAIN SWITCH IS OPERATED
WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Description INFOID:000000006454893
Passenger side power window operates using power window sub-switch but does not operate using power window main switch.
WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure
1. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT
Check power window sub-switch power supply and ground circuit. Refer to PWC-14, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.
2.CHECK POWER WINDOW SUB-SWITCH SERIAL LINK CIRCUIT
Check power window sub-switch serial link circuit. Refer to PWC-26, "POWER WINDOW SUB-SWITCH: Component Function Check". Is the inspection result normal?
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.
3.CONFIRM THE OPERATION
Confirm the operation again.
Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1. WHEN POWER WINDOW SUB-SWITCH IS OPERATED
WHEN POWER WINDOW SUB-SWITCH IS OPERATED: Description INFOID-000000006454895
Passenger side power window operates using power window main switch but not using power window subswitch.
WHEN POWER WINDOW SUB-SWITCH IS OPERATED : Diagnosis Procedure
1. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT
Check power window sub-switch power supply and ground circuit. Refer to PWC-14, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure".
Is the inspection result normal?
YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.
2.CONFIRM THE OPERATION Confirm the operation again
Confirm the operation again. Is the result normal?
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1. WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB- SWITCH

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WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SWITCH: Description

NFOID:000000000645489

Passenger side power window operates using power window main switch and power window sub-switch.

WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-

SWITCH: Diagnosis Procedure

INFOID:0000000006454898

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-17, "PASSENGER SIDE: Component Function Check".

Is the measurement value within the specification?

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-43, "Intermittent Incident".

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

ANTI-PINCH FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS > ANTI-PINCH FUNCTION DOES NOT OPERATE	
DRIVER SIDE	Α
DRIVER SIDE : Description	
·	В
Anti-pinch function does not operate when power window up operated.	
DRIVER SIDE : Diagnosis Procedure	С
1.CHECK AUTO UP OPERATION	
Check AUTO UP operation.	D
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to PWC-88, "DRIVER SIDE : Diagnosis Procedure".	Е
2.CONFIRM THE OPERATION	
Confirm the operation again. Is the result normal?	F
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1. PASSENGER SIDE	G
PASSENGER SIDE: Description	Н
Anit-pinch function does not operate when power window up operated.	
PASSENGER SIDE : Diagnosis Procedure	I
1. CHECK AUTO UP OPERATION	
Check AUTO UP operation.	J
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to PWC-88, "PASSENGER SIDE : Diagnosis Procedure".	ΡW
2.CONFIRM THE OPERATION	
Confirm the operation again.	L
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43</u> , " <u>Intermittent Incident</u> ".	
NO >> GO TO 1.	M
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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006454903

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-20, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000006454904

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-5</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-22, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-MALLY

< SYMPTOM DIAGNOSIS >		
POWER WINDOW RETAINED POWER FUNCTION DOES NORMALLY	OT OPERATE	Α
Description	INFOID:000000006454905	В
Retained power function does not operate after ignition switch turns OFF.		
Diagnosis Procedure	INFOID:0000000006454906	С
1.check door switch		
Check door switch. Refer to DLK-63, "Component Function Check". Is the inspection result normal? YES >> GO TO 2.		D E
NO >> Repair or replace the malfunctioning parts.		
2.CONFIRM THE OPERATION Confirm the operation again.		F
Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.		G
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DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Description INFOID:000000006454907

Power window does not operate when locking or unlocking a door using door key cylinder.

Diagnosis Procedure

INFOID:0000000006454908

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

$2. \mathsf{CHECK}\ \mathsf{DRIVER}\ \mathsf{SIDE}\ \mathsf{DOOR}\ \mathsf{LOCK}\ \mathsf{ASSEMBLY}\ (\mathsf{DOOR}\ \mathsf{KEY}\ \mathsf{CYLINDER}\ \mathsf{SWITCH})$

Check driver side door lock assembly (door key cylinder switch).

Refer to DLK-74, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure 1. CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174. "Description". 2. CHECK POWER WINDOW OPERATION Check power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174. "Diagnosis Procedure". 3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT". Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50. "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	< SYMPTOM DIAGNOSIS >	
Power window down does not operate when pressing unlock button on Intelligent Key. Diagnosis Procedure 1. CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174. "Description". 2. CHECK POWER WINDOW OPERATION Check power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174. "Diagnosis Procedure". 3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT". Check "PW DOWN SET" setting in "WORK SUPPORT". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	KEYLESS POWER WINDOW DOWN DOES NOT OPERATE	
Diagnosis Procedure 1. CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174. "Description". 2. CHECK POWER WINDOW OPERATION Check power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174. "Diagnosis Procedure". 3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT". Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50. "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	Description	•
1.CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174. "Description". 2.CHECK POWER WINDOW OPERATION Check power window operation. Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174. "Diagnosis Procedure". 3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50. "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	Power window down does not operate when pressing unlock button on Intelligent Key.	E
Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174, "Description". 2.CHECK POWER WINDOW OPERATION Check power window operation. Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174, "Diagnosis Procedure". 3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	Diagnosis Procedure	INFOID:0000000006454910
Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174, "Description". 2. CHECK POWER WINDOW OPERATION Check power window operation. Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174, "Diagnosis Procedure". 3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	1. CHECK REMOTE KEYLESS ENTRY FUNCTION	(
Check power window operation. Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174. "Diagnosis Procedure". 3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-174, "Description".	[
Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174. "Diagnosis Procedure". 3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.		E
Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-50, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-174, "Diagnosis Procedure".	F
YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	Check "PW DOWN SET" setting in "WORK SUPPORT".	(
Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1.	YES >> GO TO 4.	ŀ
Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.		
	Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	,
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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000006454911

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-97, "Removal and Installation".

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >	
POWER WINDOW SWITCH ILLUMINATION DOES NOT DRIVER SIDE	IOT ILLUMINATE
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006454912
1.REPLACE POWER WINDOW MAIN SWITCH	В
Replace power window main switch.	C
>> Refer to PWC-97, "Removal and Installation". PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006454913
1.REPLACE POWER WINDOW SUB-SWITCH	E
Replace power window sub-switch.	
>> Refer to PWC-97, "Removal and Installation".	F
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AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000006454914

1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-88, "DRIVER SIDE : Diagnosis Procedure".

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-63, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check power window serial link (power window main switch)

Check power window serial link (power window main switch)

Refer to PWC-25, "POWER WINDOW MAIN SWITCH: Component Function Check"

Is the result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006454915

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-5</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-63, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK POWER WINDOW SERIAL LINK (POWER WINDOW SUB-SWITCH)

Check power window serial link (power window sub-switch)

Refer to PWC-26, "POWER WINDOW SUB-SWITCH: Component Function Check"

Is the result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

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AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

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PRECAUTIONS

< PRECAUTION >

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.

INFOID:0000000006454917

Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

REMOVAL

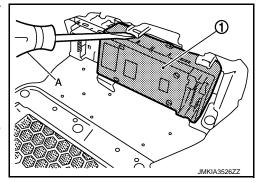
- Remove the door finisher. Refer to <u>INT-12</u>, "<u>Removal and Installation</u>".
- 2. Power window main switch (1) is removed from door finisher using flat-bladed screw driver (A) etc.



CAUTION:

Do not fold the pawl of power window main switch finisher.

The same procedure is also performed for power window subswitch.



INSTALLATION

Install in the reverse order of removal.

NOTE:

Power window main switch is exchanged or is detached it is necessary to do the initialization procedure. Refer to PWC-6, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

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INFOID:0000000006454918

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