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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.

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 "DTC/CIRCUIT DIAGNOSIS"

Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system.

>> GO TO 5.

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:0000000007473566

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:0000000007473567

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-63, "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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000007473568

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.

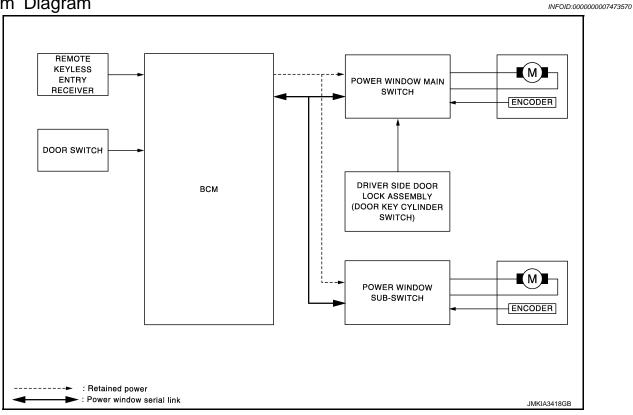
CAUTION:

- · 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-63, "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:0000000007473571

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

- 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-49</u>, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

NOTE:

Use CONSULT 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

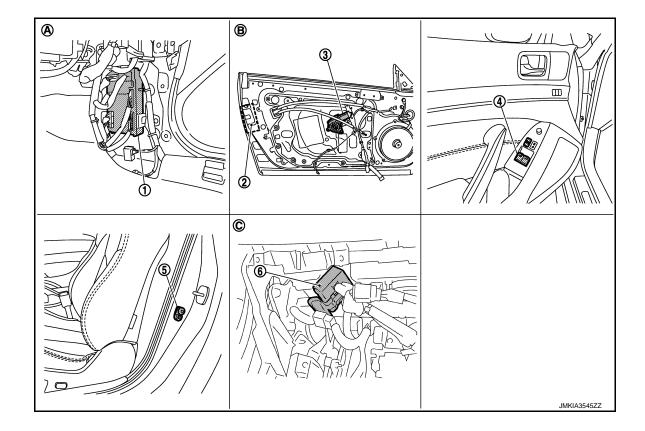
- Ignition switch OFF.
- Power window main switch and power window sub-switch do not receive a signal from serial link.
- · Power window motor does not move.

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
 - 9,M122,M123 2. 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
- 6. Remote keyless entry receiver
- B. View with door finisher removed
- C. View with instrument lower panel (passenger side) removed

Component Description

INFOID:0000000007473573

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 Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

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

NOTE:

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

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

RETAIND PWR

RETAIND PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000007473575

Data monitor

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000007473576

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

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

(+) BCM		(-)	Voltage (Approx.)
Connector	Terminal		(Approx.)
M118	1	Ground	Battery voltage
M119	11	Giound	

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

NO >> Repair harness or connector.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000007473577

1. CHECK POWER SUPPLY CIRCUIT 1

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

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 $_{2}$

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

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

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	2	Ground	Not existed
WITO	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-78, "Exploded View"

>> Repair or replace harness. NO

3. CHECK GROUND CIRCUIT

Turn ignition switch OFF.

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

1. CHECK POWER SUPPLY CIRCUIT 1

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

(+) Power window sub-switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(, (pp. 0)	
D38	10	Ground	Battery voltage	

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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	BCM		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	Connector Terminal		Continuity	
M118	2		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-78, "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.

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Component Function Check

INFOID:0000000007473580

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-17, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000007473581

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				(* .pp. 5/)	
	6	Cround		UP	Battery voltage	
D10	б		Cround	Ground Power wil	Power window	DOWN
DIO	2	Ground	main switch	UP	0	
	3			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-18, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

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

3.check power window motor circuit

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	8	D10	6	Existed		
	11	010	3	LXISIEU		

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

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< DTC/CIRCUIT DIAGNOSIS >

Power window main switch			Continuity	
Connector	Terminal	Ground	Continuity	
	8	Giodila	Not existed	
Бо	11		NOT EXISTED	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-83, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000007473582

COMPONENT INSPECTION

1. CHECK DRIVER SIDE POWER WINDOW MOTOR

- 1. 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-	Terminal		Motor operation
tor connector	(+)	(+) (-)	
D10	3	6	DOWN
D10	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 <u>GW-21</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007473583

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

PASSENGER SIDE: Component Function Check

INFOID:0000000007473584

1. 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.

NO >> Refer to PWC-18, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000007473585

1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

< DTC/CIRCUIT DIAGNOSIS >

Passenger side pov	(+) ide power window motor (–) Condition		dition	Voltage (V) (Approx.)	
Connector	Terminal				(
	6	- Ground Power window su		UP	Battery voltage
D40	6		Power window sub-	DOWN	0
3	Giouria	switch	UP	0	
	3			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-19, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

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

3.check power window motor circuit

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

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

Power windo	ow sub-switch		Continuity
Connector	Terminal	Ground	Continuity
D38	8	Giodila	Not existed
	9	_	NOT EXISTED

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-83, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

>> INSPECTION END

Refer to GI-43, "Intermittent Incident".

PASSENGER SIDE : Component Inspection

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.

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< DTC/CIRCUIT DIAGNOSIS >

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

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, "Removal and Installation"</u>.

DRIVER SIDE

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DRIVER SIDE : Description

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:0000000007473588

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-21, "DRIVER SIDE : Diagnosis Procedure".

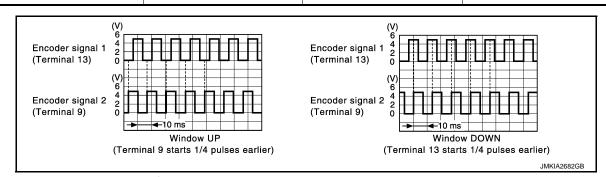
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000007473589

1. CHECK ENCODER OPERATION

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

(+)			Signal (Reference value)
Power window main switch		(–)	
Connector	Terminal		,
	9 Ground		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-83, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

- Disconnect power window main switch connector and driver side power window motor 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	9	D10	5	Existed
50	13	510	2	LAISIGU

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

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< DTC/CIRCUIT DIAGNOSIS >

Power windo	Power window main switch		Continuity
Connector	Terminal	Ground	Continuity
	9	Ground	Not existed
Бо	13		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

(+) Driver side power window motor		(–)	Voltage (V)	
Connector	,		(Approx.)	
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

- 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	5	D10	4	Existed

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

Power window 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-83, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK GROUND 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	Power window main switch		Driver side power window motor	
Connector	Terminal	Connector	Terminal	Continuity
D8	14	D10	1	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

< DTC/CIRCUIT DIAGNOSIS >

- 1. Connect power window main switch connector.
- 2. 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 <u>GW-21, "Removal and Installation"</u>.

NO >> Replace power window main switch. Refer to PWC-83, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

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

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.

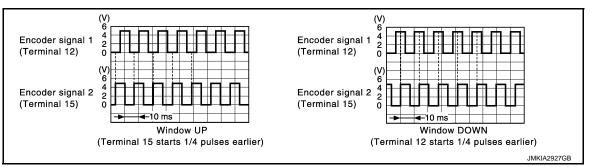
NO >> Refer to PWC-23, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK ENCODER SIGNAL

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

(+)			Oimmal.	
Power window sub-switch		(–)	Signal (Reference value)	
Connector	Terminal		(
D38	12	Ground	Refer to the following signal	
	15	Ground		



Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-83, "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.

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Power wind	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
D38	12	D40	2	Existed
D36	15	D40	5	Existed

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

Power window sub-switch			Continuity	
Connector	Terminal	Ground	Continuity	
D38	12	Giodila	Not existed	
D38	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.

(+) Passenger side power window motor		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(47)	
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

- 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 windo	ow sub-switch	Passenger side power window motor		Continuity
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-83, "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.

< DTC/CIRCUIT DIAGNOSIS >

Power windo	ow 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	Connector Terminal		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-83, "Removal and Installation"</u>. YES

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< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

INFOID:0000000007473593

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:0000000007473594

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(II) With CONSULT

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to <a href="https://example.com/BCM-com

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-26, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000007473595

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

$2.\mathsf{CHECK}$ POWER WINDOW SERIAL LINK SIGNAL

Turn ignition switch OFF.

< DTC/CIRCUIT DIAGNOSIS >

- Disconnect power window main switch connector.
- Turn ignition switch ON. 3.
- Check voltage between power window main switch harness connector and ground.

(+)			Voltoro (V)	
Power wind	Power window main switch		Voltage (V) (Approx.)	
Connector	Terminal		, , ,	
D8	12	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-83, "Removal and Installation".

NO >> GO TO 3.

3.check power window serial link circuit

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

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

Check continuity between BCM connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M123	132		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-78, "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

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYS-TEM" with CONSULT. Refer to BCS-16, "COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-28, "POWER WINDOW SUB-SWITCH : Diagnosis Procedure".

POWER WINDOW SUB-SWITCH: Diagnosis Procedure

INFOID:0000000007473598

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 sub-switch Connector Terminal		(-)	Signal (Reference value)
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-83, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-83, "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.
- 3. Check continuity between BCM connector and power window sub-switch connector.

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

< DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between BCM connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M123	132		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-78, "Exploded View".

NO >> Repair or replace harness.

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FR WIFER FI	Front wiper switch HI	On
ED WIDED LOW	Other than front wiper switch LO	Off
FR WIPER 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 IN	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 CIONIAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI GIONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAND OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
LU DE AM OVA	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OWA	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DAGGING OW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOO 0W	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
DOOD SW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD CW AC	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	
001 1 001 011	Other than power door lock switch LOCK	Off	
CDL LOCK SW	Power door lock switch LOCK	On	
CDL LINI OCK SW	Other than power door lock switch UNLOCK	Off	
CDL UNLOCK SW	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	
RETUTE LR-SW	Driver door key cylinder LOCK position	On	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off	
KET CTE ON-3W	Driver door key cylinder UNLOCK position	On	
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	
HAZARD SW	Hazard switch is OFF	Off	
I IAZAKU 3VV	Hazard switch is ON	On	
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	
TR 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	
IN/BD OPEN 3W	While the trunk lid opener switch is turned ON	On	
TRNK/HAT MNTR	Trunk lid closed	Off	
I KINN/HAT WINTK	Trunk lid opened	On	
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off	
DKE I OOK	LOCK button of the Intelligent Key is not pressed	Off	_ [
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off	_
INNL-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On	
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off	
ICICE-TIT/DD	TRUNK OPEN button of the Intelligent Key is pressed	On	
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off	
ICICE 1700	PANIC button of the Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off	
ICICE 1700 OF EIG	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	
OF HUAL SENSUR	Dark outside of the vehicle	Close to 0 V	
REQ SW -DR	Driver door request switch is not pressed	Off	_
NEW OW -DK	Driver door request switch is pressed	On	
REQ SW -AS	Passenger door request switch is not pressed	Off	
NEW OW -MO	Passenger door request switch is pressed	On	
REQ SW -RR	NOTE:	Off	

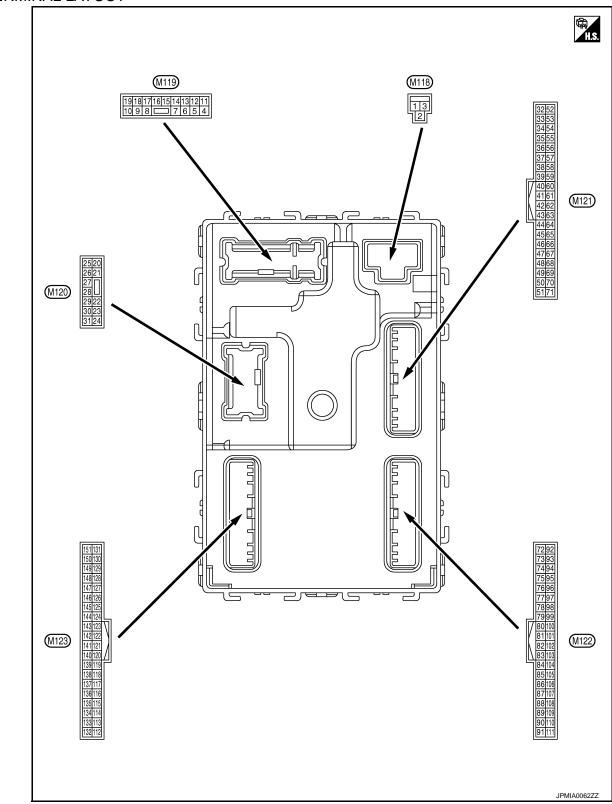
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Monitor Item	Condition	Value/Status		
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off		
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off		
	Trunk lid opener request switch is pressed	On		
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off		
-03H 3W	Push-button ignition switch (push switch) is pressed	On		
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off		
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off		
CLUCH SW	The clutch pedal is not depressed	Off		
LUCH 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		
BRAKE SW 2	The brake pedal is not depressed	Off		
DRANE SW 2	The brake pedal is depressed	On		
DETE/CANCL SW	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off		
DETE/CANCE SW	 Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models) 	On		
SFT PN/N SW	Selector lever in any position other than P and N	Off		
OF I PIN/IN SVV	Selector lever in P or N position	On		
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off		
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.			
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off		
INI K SEN DD	Driver door is unlocked	Off		
JNLK SEN -DR	Driver door is locked	On		
	Push-button ignition switch (push-switch) is not pressed	Off		
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On		
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off		
JIN NLI I -F/D	Ignition switch in ON position	On		
NETE SIM IDDM	Selector lever in any position other than P	Off		
DETE SW -IPDM	Selector lever in P position	On		
SFT PN -IPDM	Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models)	Off		
DI I FIN TEUIVI	Selector lever in P or N position The clutch pedal is depressed	On		
SFT P -MET	Selector lever in any position other than P	Off		
DIIF-WEI	Selector lever in P position	On		
CET NI MET	Selector lever in any position other than N	Off		
SFT N -MET	Selector lever in N position	On		

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (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
DDMT ENC STDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
KET 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
CONTRIVID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
OOM IINWIID4	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
CON INWI IDS	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

Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM IDT	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
1P 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
172	The ID of second Intelligent Key is registered to BCM	Done
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	R PRESS FL Ignition switch ON (Only when the signal from the transmitter is received)	
AIR PRESS FR	IR PRESS FR Ignition switch ON (Only when the signal from the transmitter is received)	
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID DECCT ELA	ID of front LH tire transmitter is registered	Done
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet
ID DECCT ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID DECCE DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECCE DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
MADNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

PWC-35 2012 G Coupe

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Revision: 2013 February

	nal No.	Description		Condition		Value					
+ (Wire	color)	Signal name	Input/ Output			(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					
					mp battery saver is activated. or room lamp power supply)	0 V					
4 (LG)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V					
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V					
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V					
7 (SB)	Ground	Step lamp	Output	Step lamp	ON	0 V					
(56)					OFF LOCK	12 V					
8	Ground	All doors, fuel lid LOCK	Output	All doors, fuel	(Actuator is activated)	12 V					
(V)	Cround		LOCK	LOCK	LOCK	LOCK	LOCK	LOCK		lid	Other than LOCK (Actuator is not activated)
9	Cround	round Driver door, fuel lid UNLOCK	Output	Driver door,	UNLOCK (Actuator is activated)	12 V					
(G)	Ground		f	fuel lid	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					
-					OFF	0 V					
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position.					
						0 2 ms JSNIA0010GB					
15 (BC)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage					
(BG)		7.00 maioator iamp		•	•	ACC	0 V				

Signal name		nal No.	Description			Cara distan	Value
Ground Turn signal RH Ground Ground Turn signal Switch Ground Turn signal RH Ground Turn signal Switch Turn signal Switch Ground Turn signal Switch Ground Turn signal Switch Turn signal Switch Ground Turn signal Switch Turn sig	-		Signal name	Input/ Output		Condition	
18 Ground Turn signal LH (Front) Output Ignition switch ON Turn signal switch OFF OV		Ground		Output			(V) 15 10
18 (BG) Ground Turn signal LH (Front) Output Ignition switch ON Turn signal switch LH 15 Fredboomse 6.5 v 19 (V) Ground Interior room lamp (V) Ground (V) Gro						Turn signal switch OFF	PKID0926E 6.5 V
Company Control Cont		Ground	Turn signal LH (Front)	Output		Turn signal switch LH	15 10 5 0 1 s PKID0926E
Turn signal switch OFF 0 V Continue Con		Ground		Output			
23 (LG) Ground Trunk lid open Trunk lid Open Trunk lid Trunk lid Output Trunk lid Other than OPEN (Trunk lid opener actuator is not activated) Turn signal switch OFF Ov Turn signal LH (Rear) Output Ignition switch ON Turn signal switch LH On On On On On On On On On O		Ground	Turn signal RH (Rear)	Output		Turn signal switch RH	(V) 15 10 5 1
Ground Turn signal LH (Rear) Output Ignition switch ON Turn signal switch LH Turn signal switch LH Ground Trunk room lamp Output Trunk room ON ON ON OV		Ground	Trunk lid open	Output	Trunk lid	(Trunk lid opener actuator is activated) Other than OPEN (Trunk lid opener actuator	
Ground Trunk room lamp Output		Ground	Turn signal LH (Rear)	Output			(V) 15 10 5 0 1 s
(D)	30 (P)	Ground	Trunk room lamp	Output	Trunk room lamp	ON OFF	0 V 12 V

	nal No.	Description				Value
+ (Wire	color)	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
(SB)	Ground	(-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
35	Ground	Trunk room antenna (+)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(V)	Sissand		Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
38	Ground	Rear bumper antenna (–)	Output	When the trunk lid opener re- quest switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(B)	Sidurid				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No.	Description				Value	А
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	A
				When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	В
39 (W)	Ground	Rear bumper antenna (+)	Output	lid opener request 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	D E F
47		Ignition relay (IPDM			OFF or ACC	12 V	G
(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	H
						11.8 V	J
					ON (Trunk lid is opened)	0 V	
				Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V	PWC
52	Ground	Starter relay control	Output	els)	When selector lever is not in P or N position	0 V	L
(R)	Ground	Clarter relay control	Output	Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage	
				els)	When the clutch pedal is not depressed	0 V	M
60	0	Push-button ignition	land	Push-button ig-	Pressed	0 V	
(BR)	Ground	switch (Push switch)	Input	nition switch (Push switch)	Not pressed	Battery voltage	Ν
					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	O P
		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
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Pressed Not pressed	0 V (V) 15 10 5 0 JPMIA0011GB
72	Ground	Room antenna 2 (–)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	11.8 V (V) 15 10 1
(R)	Siguria	(Center console)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
73	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(G)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No.	Description	T.			Value	А
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	~
74	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Glound	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 1 s JMKIA0063GB	E F
75	Ground	Passenger door an-	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H	
(BR)	Clound	tenna (+) tenna (+) duiput quest switch is operated with	operated with ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	PW(
76	Constant	Driver door antenna	0.4-14	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(V)	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	O P

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
77	Ground	Driver door antenna	Output	When the driv- er door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Clound	(+)	Сири	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	Ground	Room antenna 1 (–) (Instrument panel)		Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)	J. G.		Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(BR)					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.)
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
		Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 1 ms JMKIA0064GB
83 (Y) Gi	Ground	tion	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB
87 (Y) Ground		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4 V
	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
88	Ground	Combination switch	Input	Combination switch	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
(BG)		INPUT 3			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
90 (P)	Ground	CAN-L	Input/ Output		—	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
(-/			- Carpar		OFF	12 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON OFF (LOCK indicator is	0 V
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	not illuminated)	Battery voltage
					ON	0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground	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
		Selector lever P posi-			P position	0 V
99		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
(R)* ¹ (BR)* ²	Ground	ASCD clutch switch	Input	ASCD clutch	OFF (Clutch pedal is depressed)	0 V
		(M/T models)		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 10 10 ms JPMIA0016GB 1.0 V
					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 JPMIA0016GB
102	0	Blower fan motor re-	Outra 1	Laure Maria and Maria	OFF or ACC	0 V
(BG)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch C	DFF	12 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
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	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	Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 2 ms JPMIA0038GB 1.3 V
(R)	Clound	INPUT 4		switch	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 1.3 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
					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 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 10 ms JPMIA0012GB

Terminal No.		Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V	
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V	
(BG)	2.344	- 1 2 23.000.		ON	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)	Giouna	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)	Giound	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	
121	Ground	Key slot switch	Input	When the Intellig	gent Key is inserted into key	12 V	
(SB)	Ground	TOY SIOL SWILLII	прис	When the Intelliq	gent Key is not inserted into	0 V	
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V	
(V)					ON	Battery voltage	

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C		(V) 15 10 10 ms JPMIA0013GB
				Ignition switch C		12 V
					ON (Tail lamps OFF)	9.5 V
133	Ground	Push-button ignition	Output	Push-button ig- nition switch il-	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15
(L)	S. S	switch illumination	Output	lumination		10 5 0 JPMIA0159GB
					OFF	0 V
134	Ground	LOCK indicator lamp	Output	LOCKindicator	OFF	Battery voltage
(LG)		-		lamp	ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)		power supply		•	ACC or ON	5.0 V

	nal No. color)	Description			0 100	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	Α
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C
(L)	Clound	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	E
140* ¹	0	Selector lever P/N	lament	O-la eta a la con	P or N position	12 V	
(B)	Ground	position	Input	Selector lever	Except P and N positions	0 V	(
					ON	0 V	
141 (W)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 11.3 V	I
					OFF	12 V	
					All switches OFF	0 V	
					Lighting switch 1ST		P۷
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume	Lighting switch HI Lighting switch 2ND	(V) 15 10 5 0	L
				dial 4)	Turn signal switch RH	2 ms JPMIA0031GB	N
					All switches OFF (Wiper volume dial 4)	0 V	1
					Front wiper switch HI (Wiper volume dial 4)	(V) 15	
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	2 ms JPMIA0032GB	F

	nal No.	Description				Value
+	color)	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 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	Front wiper switch LO	15
(L)					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 5 0
(SB)		OUTPUT 4	·	(Wiper volume dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	2.34.14	ger relay control	Japat	defogger	Not activated	Battery voltage

^{• *1:} A/T models

^{• *2:} M/T models

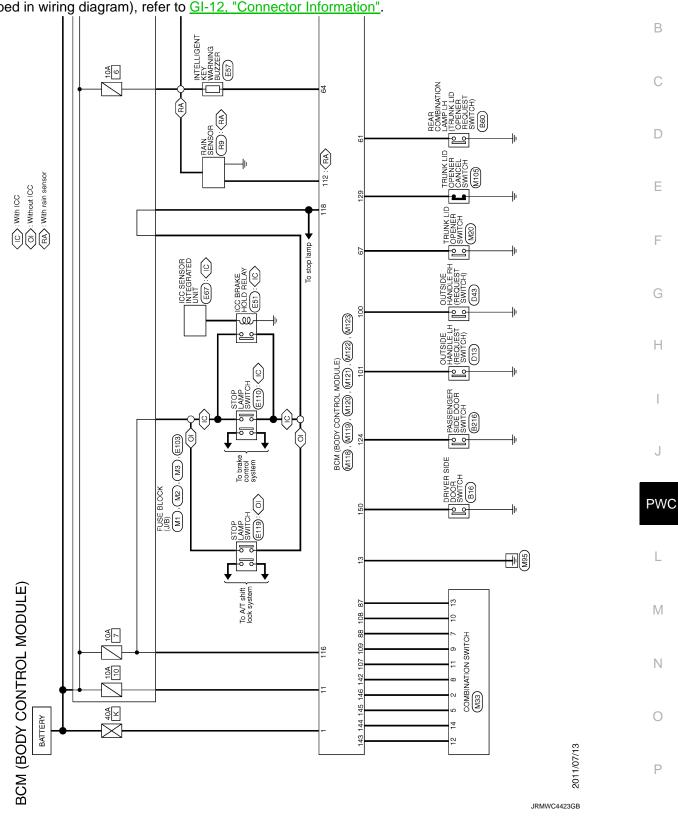
< ECU DIAGNOSIS INFORMATION >

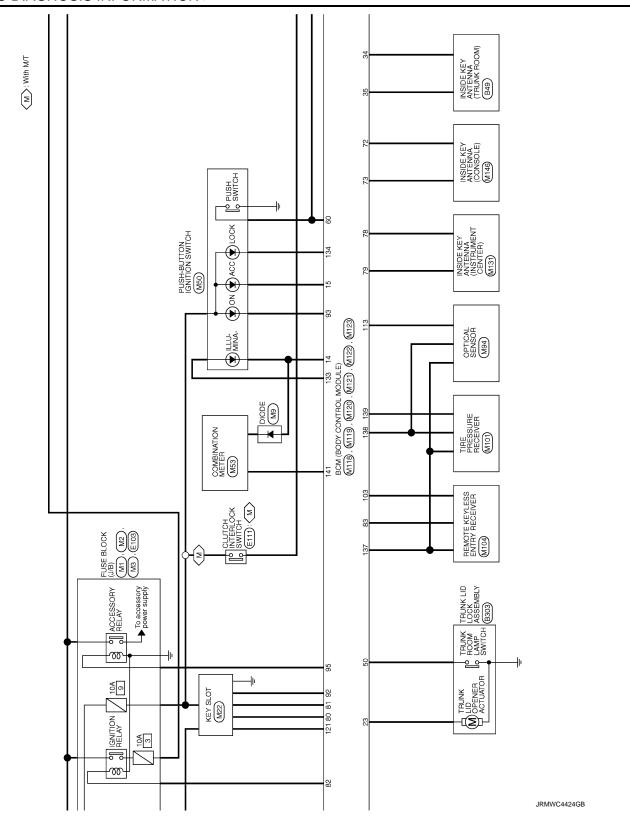
Wiring Diagram - BCM -

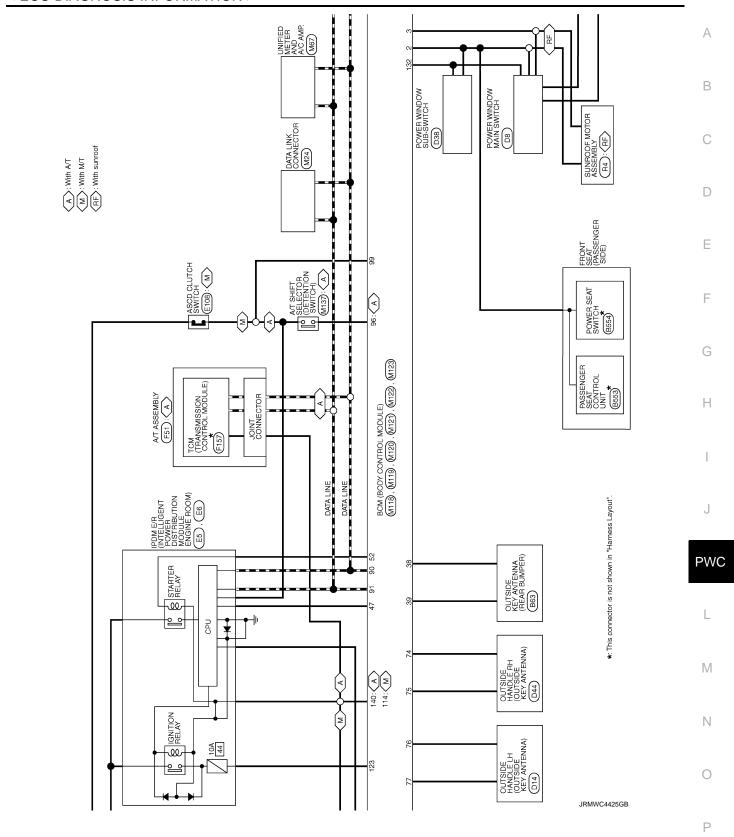
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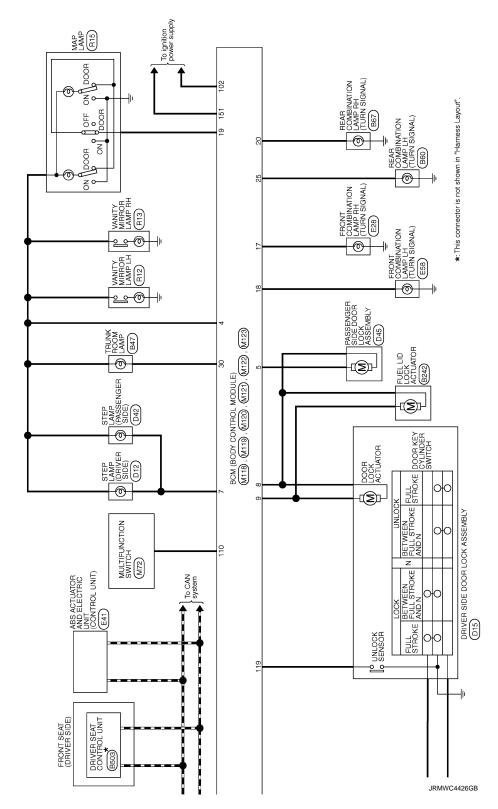
Α

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (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)
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
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)

DTC Inspection Priority Chart

INFOID:0000000007768073

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

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< ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY B2608: STARTER RELAY B2608: GNITION RELAY B2607: ENG STATE SIG LOST B2614: BCM B2616: BCM B2616: BCM B2617: BCM B2618: BCM B2618: BCM B2618: BCM B2618: CLUTCH SW B2618: CLUTCH 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] RR C1734: CONTROL UNIT
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

DTC Index

NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-16. "COM-MON ITEM"</u>.

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-35
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-36
U0415: VEHICLE SPEED	_	_	_	_	BCS-37
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-51

< 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	
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-54</u>	•
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-55</u>	•
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-57	
B2195: ANTI-SCANNING	×	_	_	_	SEC-58	-
B2553: IGNITION RELAY	_	×	_	_	PCS-48	-
B2555: STOP LAMP	_	×	_	_	<u>SEC-59</u>	•
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-61	
B2557: VEHICLE SPEED	×	×	×	_	SEC-63	•
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-64</u>	-
B2562: LOW VOLTAGE	_	×	_	_	BCS-38	-
B2601: SHIFT POSITION	×	×	×	_	SEC-65	-
B2602: SHIFT POSITION	×	×	×	_	SEC-68	
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-70	
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-73	
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-75	
B2608: STARTER RELAY	×	×	×	_	<u>SEC-77</u>	
B260A: IGNITION RELAY	×	×	×	_	PCS-50	
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-79	
B2614: BCM	_	×	×	_	PCS-52	
B2615: BCM	_	×	×	_	PCS-54	
B2616: BCM	_	×	×	_	PCS-56	
B2617: BCM	×	×	×	_	SEC-83	•
B2618: BCM	×	×	×	_	PCS-58	
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-59	-
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	-	<u>SEC-85</u>	•
B2621: INSIDE ANTENNA	_	×	_	_	DLK-55	•
B2622: INSIDE ANTENNA	_	×	_	_	DLK-57	•
B2623: INSIDE ANTENNA	_	×	_	_	DLK-59	•
B26E8: CLUTCH SW	×	×	×	_	SEC-80	
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-82</u>	
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	<u>WT-19</u>	
C1706: LOW PRESSURE RR	_	_	_	×	<u>vv 1-18</u>	
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	VALT 04	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-21</u>	
C1711: [NO DATA] RL	_	_	_	×		

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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
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-24
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-25
C1734: CONTROL UNIT	_	_	_	×	<u>WT-26</u>

POWER WINDOW MAIN SWITCH

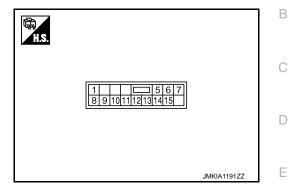
< ECU DIAGNOSIS INFORMATION >

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT

PHYSICAL VALUES



POWER WINDOW MAIN SWITCH

	inal No. e color)	Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
1 (Y)	Ground	Battery power supply	Input	_	Battery voltage	
5 (BG)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window adjusting operates	Battery voltage	
8 (L)	Ground	Driver side power window motor UP signal	Output	When power window main switch (Driver side) is operated UP	Battery voltage	
9 (LG)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms	
10 (SB)	Ground	Ignition switch power signal	Input	IGN SW ON	Battery voltage	
				IGN SW OFF	0	
11 (BR)	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 JPMIA0013GB	

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POWER WINDOW MAIN SWITCH

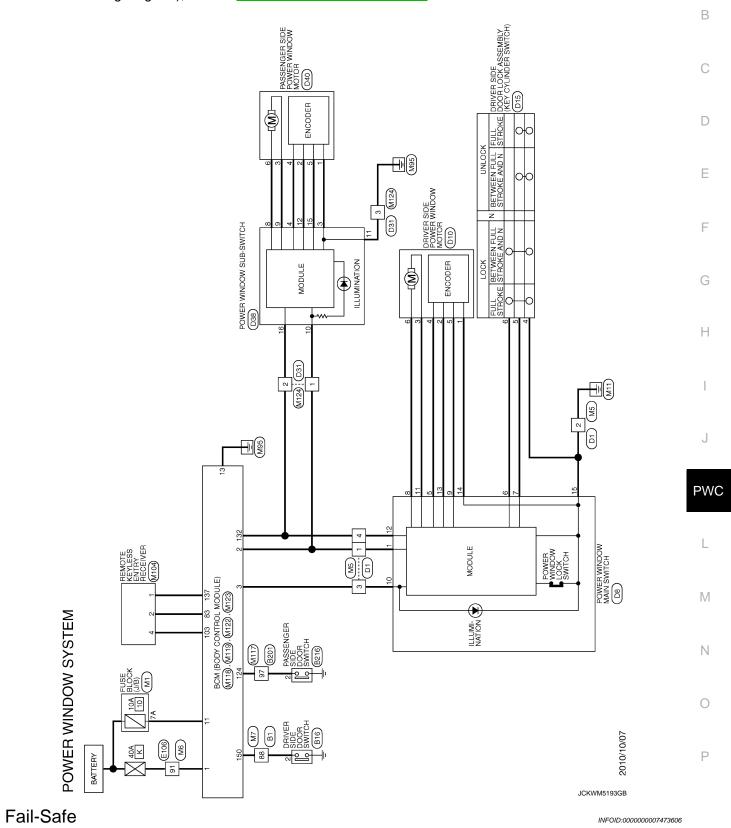
	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
13 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB
14 (G)	Ground	Encoder ground	_	_	0
15 (B)	Ground	Ground	_	_	0

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

INFOID:0000000007473605

Α

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



FAIL-SAFE CONTROL

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

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.

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 DOW		
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.

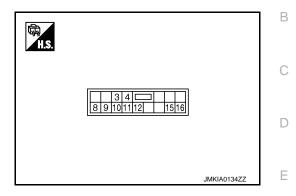
POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SUB-SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
3 (G)	Ground	Encoder ground	_	_	0	
4 (BG)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window operates adjusting	Battery voltage	
8 (L)	Ground	Power window motor UP signal	Output	When power window motor is operated UP	Battery voltage	
9 (BR)	Ground	Power window motor DOWN signal	Output	When power window motor is operated DOWN	Battery voltage	
10 (W)	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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POWER WINDOW SUB-SWITCH

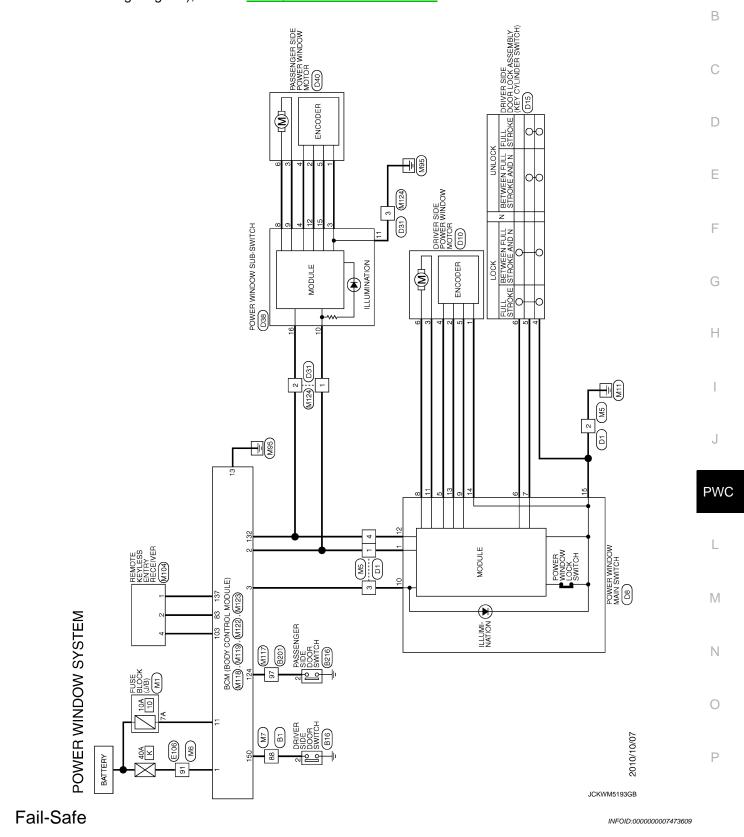
	inal No. e color)	Description		- Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
15 (LG)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 0 10 ms JPMIA0013GB

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

INFOID:0000000007804917

Α

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



FAIL-SAFE CONTROL

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

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.

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 DOW		
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:0000000007473610 All power windows do not operate via power window main switch and power window sub-switch. Diagnosis Procedure INFOID:0000000007473611 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT D Check BCM power supply and ground circuit. Refer to PWC-14, "BCM: Diagnosis Procedure". Е Is the inspection result normal? >> GO TO 2. YES 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 M

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description INFOID:000000007473612

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

Diagnosis Procedure

INFOID:0000000007473613

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

Check power window main switch power supply and ground circuit.

Refer to PWC-14, "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-17, "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:0000000074738
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-15, "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-27, "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:0000000074738
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-15 , "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. 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
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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

INFOID:0000000007473618

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:0000000007473619

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-18, "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	
·	B
Anti-pinch function does not operate when power window up operated.	
DRIVER SIDE: Diagnosis Procedure	i21
1.CHECK AUTO UP OPERATION	_
Check AUTO UP operation. Is the inspection result normal?	D
YES >> GO TO 2.	
NO >> Refer to PWC-74, "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	522
Anti-pinch function does not operate when power window up operated.	Н
PASSENGER SIDE : Diagnosis Procedure	523
1. CHECK AUTO UP OPERATION	
Check AUTO UP operation.	_
Is the inspection result normal?	J
YES >> GO TO 2.	
NO >> Refer to PWC-74 , "PASSENGER SIDE : Diagnosis Procedure". 2. CONFIRM THE OPERATION	PW
Confirm the operation again.	
Is the result normal?	L
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	
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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:0000000007473624

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-21, "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:0000000007473625

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-23, "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 NOT OPER	ATE A
NORMALLY	
Description	00007473626 B
Retained power function does not operate after ignition switch turns OFF.	
Diagnosis Procedure	00007473627
1.check door switch	
Check door switch. Refer to DLK-62, "Component Function Check".	D
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	Е
2.CONFIRM THE OPERATION	
Confirm the operation again.	F
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . 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:000000007473628

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

Diagnosis Procedure

INFOID:0000000007473629

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

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-73, "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

< SYMPTOM DIAGNOSIS >	
KEYLESS POWER WINDOW DOWN DOES NOT OPERATE	А
Description	INFOID:0000000007473630
Power window down does not operate when pressing unlock button on Intelligent Key.	В
Diagnosis Procedure	INFOID:0000000007473631
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	С
Check remote keyless entry function.	
Does door lock/unlock with Intelligent Key button?	D
YES >> GO TO 2. NO >> Refer to <u>DLK-148</u> , " <u>Description</u> ".	
2.CHECK POWER WINDOW OPERATION	
	E
Check power window operation.	
Does power window operate up/down using power window main switch?	F
YES >> GO TO 3. NO >> Refer to <u>DLK-148</u> , " <u>Diagnosis Procedure</u> ".	1
3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"	
Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-49, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".	G
Is the inspection result normal?	Н
YES >> GO TO 4.	11
NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".	
4.CONFIRM THE OPERATION	I
Confirm the operation again.	
Is the result normal?	1
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	
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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000007473632

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-83, "Removal and Installation".

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

PRIVER SIDE : Diagnosis Procedure	INFOID:000000007473633
REPLACE POWER WINDOW MAIN SWITCH	
Replace power window main switch.	
>> Refer to PWC-83, "Removal and Installation". PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000007473634
.REPLACE POWER WINDOW SUB-SWITCH	
Replace power window sub-switch.	
>> Refer to PWC-83, "Removal and Installation".	

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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:0000000007473635

1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-74, "DRIVER SIDE : Diagnosis Procedure".

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-62, "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-26, "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:0000000007473636

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-62, "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-27, "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 >

4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO

В >> GO TO 1. С D Е F Н

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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.

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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

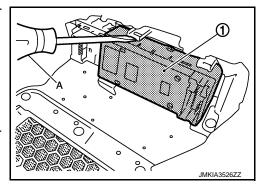
- Remove the door finisher. Refer to <u>INT-12</u>, "<u>Removal and Installation</u>".
- 2. Power window main switch (1) is removed from door finisher using remover tool (A).



CAUTION:

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

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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