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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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the SR section.
- Do not 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:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 three minutes before performing any service.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

# **PREPARATION**

# < PREPARATION >

# **PREPARATION** Α **PREPARATION** Special Service Tool INFOID:0000000010336464 В The actual shape of the tools may differ from those illustrated here. Tool number Description С (TechMate No.) Tool name Removing trim components $\mathsf{D}$ (J-46534) Trim Tool Set Е AWJIA0483ZZ **Commercial Service Tools** INFOID:0000000010335223 (TechMate No.) Description Tool name ( - )Loosening nuts, screws and bolts Н Power tool

PIIB1407E

#### **PWC**

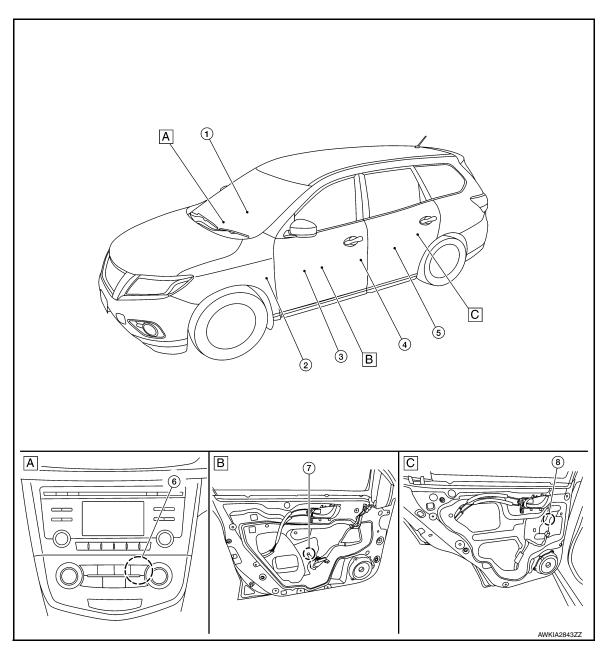
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# SYSTEM DESCRIPTION

# **COMPONENT PARTS**

# Component Parts Location

INFOID:0000000010227738



A. A/C switch assembly

B. View with front door finisher removed C. View with rear door finisher removed

No.	Component parts	Function
1.	Front power window switch	Refer to PWC-7, "Power Window Switch".
2.	ВСМ	Supplies power supply to power window relay.     Controls retained power.     Refer to BCS-7, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location.
3.	Main power window and door lock/unlock switch	Refer to PWC-7, "Power Window Main Switch".

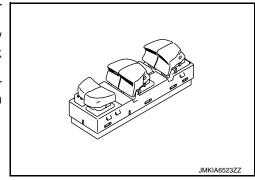
# **COMPONENT PARTS**

### < SYSTEM DESCRIPTION >

No.	Component parts	Function
4.	Front door switch LH (RH similar)	<ul> <li>Inputs door open/close condition to BCM.</li> <li>Refer to <u>DLK-24</u>, "Front Door Switch".</li> </ul>
5.	Rear power window switch LH (RH similar)	Refer to PWC-7, "Power Window Switch".
6.	Power window relay	Operates the power window system with the control signal from the BCM.
7.	Front power window motor LH (RH similar)	Refer to PWC-7, "Power Window Motor".
8.	Rear power window motor LH (RH similar)	Refer to PWC-7, "Power Window Motor".

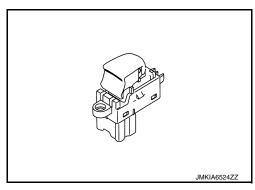
### Power Window Main Switch

- Main power window and door lock/unlock switch controls all power windows.
- Main power window and door lock/unlock switch integrates UP/ DOWN switch, power window lock switch, and door lock/unlock switch
- Main power window and door lock/unlock switch controls power window lock function, AUTO UP/DOWN function, and anti-pinch function.



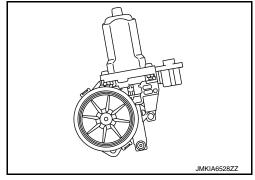
### **Power Window Switch**

- Each power window switch transmits UP/DOWN signal to each motor.
- Each power window switch transmits UP/DOWN signal from power window main switch to each motor.



### **Power Window Motor**

- Integrates the encoder and power window motor (front driver side).
- Starts operation according to signals from main power window and door lock/unlock switch.
- Transmits front power window motor (driver side) rotation as a pulse signal to power window main switch.
- Excepting power window motor for driver door, starts operation according to signals from main power window and door lock/unlock switch or each power window switches.



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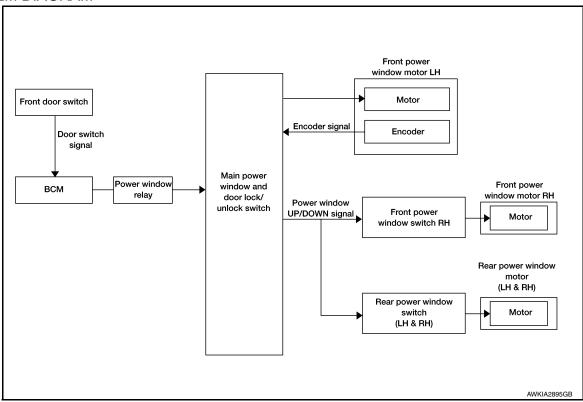
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### SYSTEM

# System Description

INFOID:0000000010227742

#### SYSTEM DIAGRAM



#### POWER WINDOW OPERATION

- Main power window and door lock/unlock switch can open/close all windows.
- Front and rear power window switches can open/close the corresponding windows.

#### POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)

- AUTO UP/DOWN operation can be performed when main power window and door lock/unlock 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 fully opened/closed position.
- Power window motor is operable in case encoder is malfunctioning.

#### RETAINED POWER OPERATION

Retained power operation is an additional power supply function that enables power window system to operate for 45 seconds even when power switch is turned OFF.

#### RETAINED POWER CANCEL CONDITIONS

- Front door CLOSE (door switch OFF) → OPEN (door switch ON).
- When power switch is ON again.
- When timer time passes (45 seconds).

#### POWER WINDOW LOCK

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

#### ANTI-PINCH SYSTEM (FRONT DRIVER SIDE)

 Pinch foreign material in the door glass during AUTO-UP operation, and it is the anti-pinch function that lowers the door glass 150 mm (5.9 in.) when detected.

#### SYSTEM

#### < SYSTEM DESCRIPTION >

- Encoder continues detecting the movement of front power window motor (driver side) and transmits to main power window and door lock/unlock switch as the encoder pulse signal while front power window motor (driver side) is operating.
- Resistance is applied to the front power window motor (driver side) rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Main power window and door lock/unlock switch controls to lower the window glass for 150 mm (5.9 in) after it detects encoder pulse signal frequency change.

#### **OPERATION CONDITION**

• When front door glass (driver side) 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.

Fail Safe

#### FAIL-SAFE CONTROL

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 error beyond regulation value is detected between the fully closed position and the actual position of the glass.

Error	Error condition			
Pulse sensor malfunction	When only one side of pulse signal is being detected for more than the specified value.			
Both pulse sensors mal- function	When both pulse signals have not been detected for more than the specified value during glass open/close operation.			
Pulse direction malfunction	When the pulse signal that is detected during glass open/close operation detects the opposite condition of power window motor operating direction.			
Glass recognition position malfunction 1	When it detects the error between glass fully closed position in power window switch memory and actual fully closed position during glass open/close operation is more than the specified value.			
Glass recognition position malfunction 2	When it detects pulse count more than the value of glass full stroke during glass open/close operation.			

It changes to condition before initialization and the following functions do not operate when switched to failsafe control.

- Auto-up operation
- Anti-pinch function
- Retained power function

Perform initial operation to recover when switched to fail-safe mode. However, it switches back to fail-safe control when malfunction is found in power window switch or in the motor.

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# **DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)**

< SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010288480

### **APPLICATION ITEM**

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

#### SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

**RETAINED PWR** 

# **DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)**

< SYSTEM DESCRIPTION >

# RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

#### INFOID:0000000010288481

### **DATA MONITOR**

Monitor Item [Unit]	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.

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# **DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)**

< SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010288482

#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

#### SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK			×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT					×		
Exterior lamp	HEADLAMP			×	×			
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000010288483

**DATA MONITOR** 

Revision: November 2013 PWC-12 2014 Rogue NAM

# DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

# < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.

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# **BCM (BODY CONTROL MODULE)**

< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

# **BCM (BODY CONTROL MODULE)**

# List of ECU Reference

INFOID:0000000010228070

ECU	Reference
	BCS-28, "Reference Value"
BCM (with Intelligent Key system)	BCS-47, "Fail Safe"
DOM (With Intelligent Key System)	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"
	BCS-96, "Reference Value"
BCM (without Intelligent Key system)	BCS-107, "Fail Safe"
BOW (without intelligent Key system)	BCS-107, "DTC Inspection Priority Chart"
	BCS-108, "DTC Index"

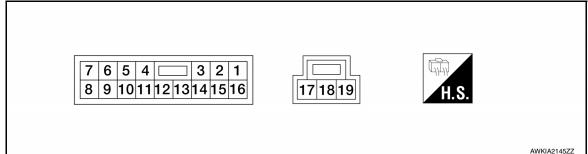
# MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< ECU DIAGNOSIS INFORMATION >

# MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Reference Value

# **TERMINAL LAYOUT**



### PHYSICAL VALUES

-	nal No. color)	Description		Condition	Voltage
+	-	Signal name	Input/ Output	Condition	(Approx.)
1 (B)	Ground	Ground	ĺ		0
2 (LA/GR)	16 (LA/SB)	Front power window motor RH DOWN signal	Output	When front RH switch in power window main switch is operated DOWN.	Battery voltage
4 (R)	12 (Y)	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms  JMKIA0070GB
5 (W)	12 (Y)	Encoder pulse signal 1	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB
6 (P)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is operated DOWN.	Battery voltage
7 (LG)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is operated UP.	Battery voltage
8 (LA/Y)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is operated DOWN.	Battery voltage
9 (LA/W)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is operated UP.	Battery voltage

Revision: November 2013 PWC-15 2014 Rogue NAM

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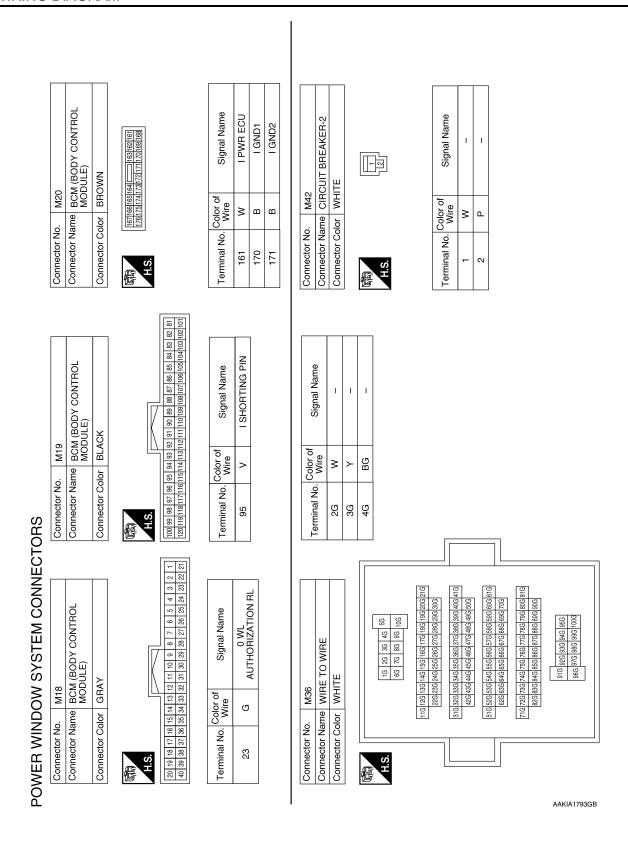
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# MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

# < ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition	Voltage
+	-	Signal name	Input/ Output	Condition	(Approx.)
				IGN SW ON	Battery voltage
10	Ground	RAP signal	Input	Within 45 second after ignition switch is turned to OFF.	Battery voltage
(SB)		o o	•	When driver side or passenger side door is opened during retained power operation.	0
12 (Y)	Ground	Encoder ground	_	_	0
14 (G)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	10
16 (LA/SB)	2 (LA/GR)	Front power window motor RH UP signal	Output	When front RH switch in power window main switch is operated UP.	Battery voltage
17 (LA/L)	19 (LA/BR)	Front power window motor LH UP signal	Output	When front LH switch in power window main switch is operated UP.	Battery voltage
18 (LA/R)	Ground	Battery power supply	Input	_	Battery voltage
19 (LA/BR)	17 (LA/L)	Front power window motor LH DOWN signal	Output	When front LH switch in power window main switch is operated DOWN.	Battery voltage

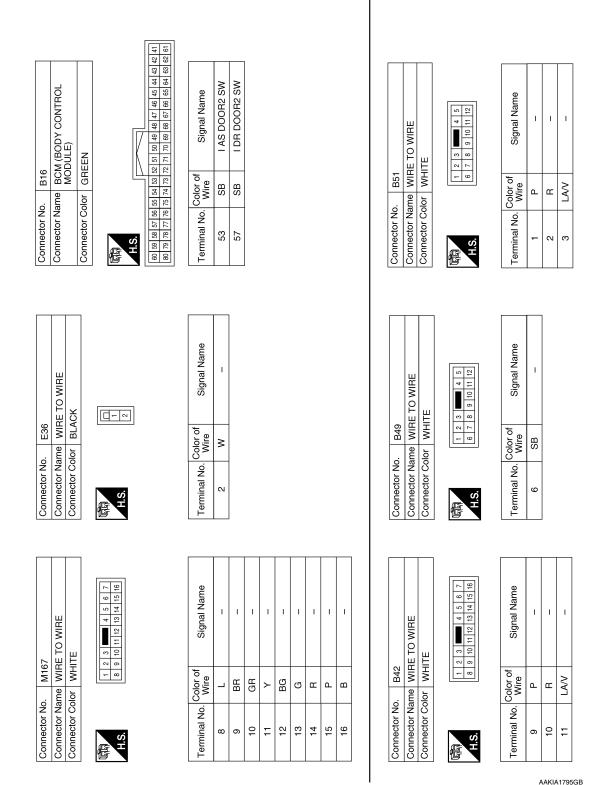
### WIRING DIAGRAM Α POWER WINDOW SYSTEM Wiring Diagram INFOID:0000000009798816 В FRONT POWER WINDOW MOTOR BH (D105) (D105) (M91) REAR POWER WINDOW MOTOR LH (D205) REAR POWER WINDOW MOTOR RH D305 \$ С POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (D112) REAR POWER WINDOW SWITCH LH (D204) D REAR POWER WINDOW SWITCH RH (D304) Е 9 01 F M158 [851] 2G B136 B136 M36 36 B42 M74 Н FRONT POWER WINDOW MOTOR LH DOWN ★ → UP ENCODER J ₿ PWC P L FUSE BLOCK (J/B) (M68) M REAR RH CPU 10A BCM (BODY CONTROL MODULE) (M18) (M19) (M20), (B16) 1 POWER WINDOW SYSTEM REAR LH Ν 5A 14 MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH DE . DB Power window RELAY (MSB) 2 00 1 23 MODU FRONT RH 0 z o M42 M167 ±ğoo Р BATTERY LOCK AAKWA0758GB

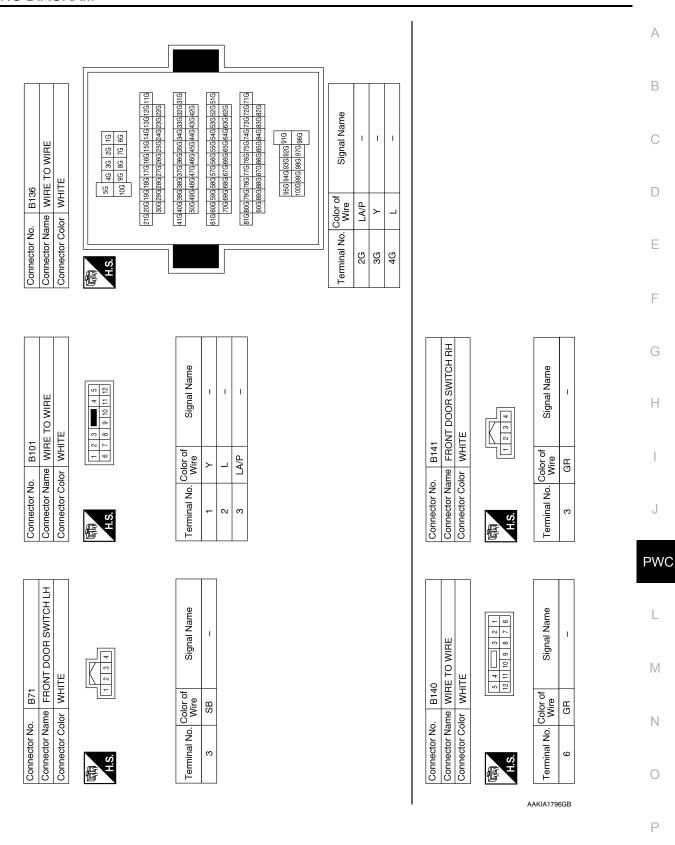


# **POWER WINDOW SYSTEM**

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Name	С
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Connector No.   M74	Е
	F
Name Name	G
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M68   Sh   M68   Sh   M68   Sh   M68   Sh   M68   Sh   M61   M61	I
Connector No.   M68   Connector Name   FUSE BLOCK (Lonnector Color   BROWN	J
	PWC
POWER WINDOW RELAY BLUE  Ir of Signal Name  WA75  WIRE TO WIRE BLACK  Ir of Signal Name  To of Signal Name	L
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ctor Nc late   1	Ν
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AAKIA1794GB	

Revision: November 2013 PWC-19 2014 Rogue NAM





Revision: November 2013 PWC-21 2014 Rogue NAM

Connector No.	). D8	
Connector Name		MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color		WHITE
南 H.S.		18 19
Terminal No. Wire	Color of Wire	Signal Name
17	LA/L	MOTOR DR UP
18	LA/R	B+
19	LA/BR	MOTOR DR DOWN

	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH	WHITE	6 5 4	Signal Name	GND	MOTOR AS DOWN	-	ENCODER SIG-2 (ULP)	ENCODER SIG-1 (DLP)	MOTOR RR DOWN	MOTOR RR UP	MOTOR RL DOWN	MOTOR RL UP	IGN	-	ENCODER GND	ı	ENCODER +	1	MOTOR AS UP
. De		Color WF	8 8	Color of Wire	a	LA/GR	ı	<u>~</u>	>	Ь	ГG	LA/Y	LA/W	SB	ı	Υ	I	9	ı	LA/SB
Connector No.	Connector Name	Connector Co	师 H.S.	Terminal No.	-	2	8	4	5	9	7	8	6	10	11	12	13	14	15	16

_													
	WIRE TO WIRE	WHITE	6 5 4	Signal Name	I	_	-	-	1	1	1	_	-
). D2	_		16	Color of Wire	SB	LA/GR	LA/SB	۵	LG	LA/Y	LA/W	LA/R	В
Connector No.	Connector Name	Connector Color	配 H.S.	Terminal No.	8	6	10	11	12	13	14	15	91

	-	IE TO WIRE	ITE			8 7 6 5 4 3	24 23 22 21 20 19 18 17 16 15	i	Signal N
	). D101	me WIF	olor WH			12 11 10 9 8	4 23 22 21	Color of	Wire
	Connector No.	Connector Name   WIRE TO WIRE	Connector Color WHITE		僵	ν.	_		l erminal No. Wire
	Cignol Mamo		-	1	I	I	ı	I	
	Color of	Wire	LA/BR	В	LA/L	œ	>	<b>&gt;</b>	
	1 -	-				1			

Signal Name

В

	Sia	9						
	Color of	Wire	LA/BR	Э	LA/L	В	M	λ
	Terminal No. Color of		1	2	3	4	2	9
		MOD	:					

Connector Name FRONT POWER WIND MOTOR LH Connector Color GREEN
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Connector No. D102	Connector No.	). D105		Connector No.	). D112	5	
Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name	FRON MOTC FRON	FRONT POWER WINDOW MOTOR RH (WITH LEFT FRONT ONLY AUTO	Connector Name		POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH	
3 2	Connector Color	- 1	(NWC)	Connector Color	lor WHITE	<u></u>	
H.S. [16   15   14   13   12   11   10   9   8 ]	E.S.H	<u> </u>	8 5 1	南 H.S.	6 7	1 2 3 4 5 6 7 8 9 10 11 12	
		IJ					
Terminal No. Color of Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	
8 LA/GR –	-	LA/R	ı	က	В	ı	
9 LA/Y –	2	1	1	9	LA/L	ı	
10 LA/BR –	3	LA/L	1	7	LA/R	ı	
	4	ı	1	8	LA/GR	ı	
	5	-	1	11	LA/Y	-	
	9	1	ı	12	LA/BR	1	
Connector No. D201	Connector No.			Connector No.			
Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name		REAR POWER WINDOW SWITCH LH	Connector Name		REAR POWER WINDOW MOTOR LH	
	Connector Color	lor WHITE	Ш	Connector Color	lor GREEN	EN	
H.S.	H.S.	€ 8	7 6 2 4 1	H.S.		(8) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
Terminal No. Color of Signal Name Wire	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	
1 LA/Y –	-	LA/GR	ı	-	В	ı	
2 LA/BR –	2	LA/BR	ı	2	ı	ı	
3 LA/GR –	ဧ	LAY	ı	က	g	ı	
	4	ŋ	1	4	ı	ı	
	5	æ	ı	5	ı	1	
	9	ı	ı	9	ı	I	
	7	ı	1				
	8	ı	ı				

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15	REAR POWER WINDOW MOTOR RH	GREEN	6 5 4	Signal Name	-	_	_	l	_	-
. D305				Color of Wire	Ж	ı	9	I	ı	I
Connector No.	Connector Name	Connector Color	(中中) H.S.	Terminal No.	1	2	3	4	5	9

Connector No.	D304	94
Connector Name		REAR POWER WINDOW SWITCH RH
Connector Color		WHITE
H.S.		8 3 2 L 4 L 4 L 4 L 4 L 4 L 4 L 4 L 4 L 4 L
nal No.	Terminal No. Wire	Signal Name
_	LA/GR	ı
2	LA/BR	ı
3	LAY	ı
4	G	ı
5	<u>~</u>	ı
9	ı	ı
7	ı	ı
8	1	I

-	WIRE TO WIRE	ITE	5 4 3 2 1 12 11 10 9 8 7 6	Signal Name	ı	-	1
D301		or WHITE		Solor of Wire	LA/Y	LA/BR	LA/GR
Connector No.	Connector Name	Connector Color	赋 H.S.	Terminal No. Wire	-	2	ဇ

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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000010223739 В

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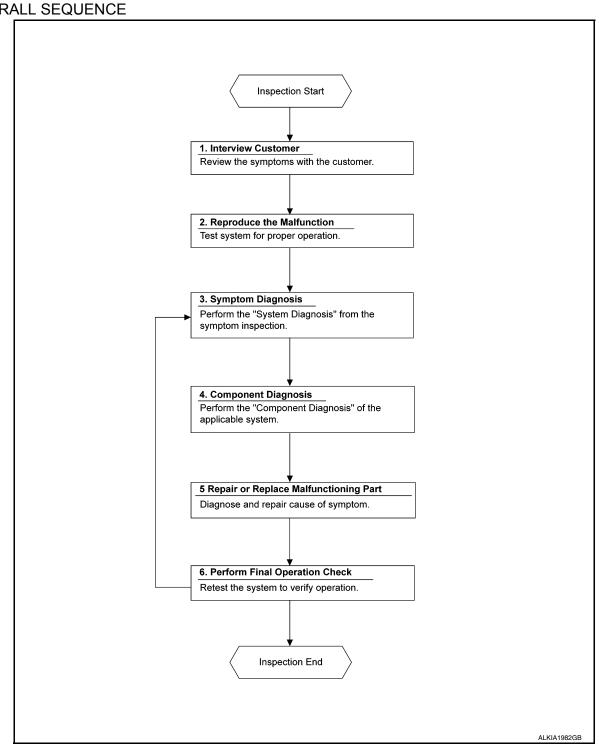
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### **OVERALL SEQUENCE**



### **DETAILED FLOW**

# 1. OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurred.

# **DIAGNOSIS AND REPAIR WORKFLOW**

#### < BASIC INSPECTION >

>> GO TO 2.

# 2. CONFIRM THE SYMPTOM

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. PERFORM THE COMPONENT DIAGNOSIS OF THE OF THE APPLICABLE SYSTEM

Perform the diagnosis with Component diagnosis of the applicable system.

>> GO TO 5.

# REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

### 6. FINAL CHECK

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

### Are the malfunctions corrected?

YES >> Inspection End.

NO >> GO TO 3.

#### INSPECTION AND ADJUSTMENT

#### < BASIC INSPECTION >

# INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000009798769

If any of the following work has been done Initial setting is necessary.

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

The following specified operations can not be performed under the non-initialized condition.

- Auto-up operation
- Anti-pinch function

#### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000009798770

#### INITIALIZATION PROCEDURE

- 1. Disconnect battery minus terminal or main power and window door lock/unlock switch connector. Reconnect it after a minute or more.
- Turn ignition switch ON.
- 3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
- 4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 2 seconds or more.
- Initializing procedure is completely.
- 6. Inspect anti-pinch function.

#### **CHECK ANTI-PINCH FUNCTION**

- 1. Fully open the door window.
- 2. Place a piece of wood near 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 main power and door lock/unlock switch while lowering. **CAUTION:**
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Do not check with hands and other body parts because they may be pinched. Do not get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without full close. Perform initial setting in that situation. Refer to BCS-47, "Fail Safe"
- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

# ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

Refer to PWC-27, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description".

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Re-

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# **INSPECTION AND ADJUSTMENT**

# < BASIC INSPECTION >

quirement INFOID:000000009798772

Refer to <u>PWC-27</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: <u>Special Repair Requirement</u>" for initialization procedure and check anti-pinch function.

#### < DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM): Diagnosis Procedure INFOID:0000000010288550

Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

# 1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

# $2.\,$ CHECK POWER SUPPLY CIRCUIT

- Disconnect BCM connector M20.
- Check voltage between BCM connector M20 and ground.

В	CM	Ground	Voltage	
Connector	Terminal	Ground	(Approx.)	
M20	161	_	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

### $oldsymbol{3}.$ CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

В	CM	Ground	Continuity
Connector	Terminal	Giodila	Continuity
M20	170	_	Yes
IVIZU	171	_	ies

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM): Diagnosis Procedure INFOID:0000000010288551

Regarding Wiring Diagram information, refer to <a href="BCS-110">BCS-110</a>, "Wiring Diagram".

# 1. CHECK FUSE

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#### < DTC/CIRCUIT DIAGNOSIS >

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

# 2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector M20.
- Check voltage between BCM connector M20 and ground.

В	CM	Ground	Voltage	
Connector	Terminal	Ground	(Approx.)	
M20	161	_	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

# 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

В	CM	Ground	Continuity
Connector	Terminal	Ground	Continuity
M20	170		Yes
IVIZO	171	_	165

### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

### POWER WINDOW MAIN SWITCH

# POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000009798779

# 1. CHECK POWER SUPPLY CIRCUIT 1

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

(in Main power window and	+) I door lock/unlock switch	(–)	Voltage (Approx.)
Connector	Terminal		( ) ;
D6	10	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

# 2.CHECK POWER SUPPLY CIRCUIT 2

1. Check voltage between main power window and door lock/unlock switch harness connector and ground.

### < DTC/CIRCUIT DIAGNOSIS >

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Main power window and	d door lock/unlock switch	(–)	Voltage (Approx.)
Connector	Terminal		, , ,
D6	18	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair power supply circuit.

# 3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and o	Main power window and door lock/unlock switch		
Connector	Terminal	Ground	Continuity
D6	1		Yes

### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness.

# 4. CHECK HARNESS CONTINUITY 1

- Turn ignition switch OFF.
- 2. Disconnect power window relay connector.
- Check continuity between power window relay harness connector and main power window and door lock/ unlock switch harness connector.

Power wi	Power window relay		d door lock/unlock switch	Continuity
Connector	Terminal	Connector Terminal		Continuity
M58	3	D6	10	Yes

Check continuity between power window relay harness connector and ground.

Power wi	Power window relay		Continuity
Connector	Terminal	Ground	Continuity
M58	3		No

#### Is the inspection result normal?

>> Refer to PWC-48, "Diagnosis Procedure". YES

>> Repair or replace harness. NO

# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

# FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

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

(	(+) Front power window switch RH		Condition	Voltage
Connector	Terminal	(-)	Condition	(Approx.)
D112	8	Ground	Ignition switch ON	Battery voltage

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#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

# 2.CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- 2. Disconnect power window relay connector.
- Check continuity between power window relay harness connector and front power window switch RH harness connector.

Power wi	Power window relay		Front power window switch RH	
Connector	Terminal	Connector	Terminal	Continuity
M58	3	D112	8	Yes

4. Check continuity between the power window relay harness connector and ground.

Power window relay			Continuity
Connector	Terminal	Ground	Continuity
M58	3		No

### Is the inspection result normal?

YES >> Refer to PWC-48, "Diagnosis Procedure".

NO >> Repair or replace harness.

### REAR POWER WINDOW SWITCH

# REAR POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000009798781

# 1. CHECK POWER SUPPLY CIRCUIT

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

	(+)				Valtage
Rear power window switch		(–)	Condition	Voltage (Approx.)	
Coni	nector	Terminal			( 11 - 7
LH	D204	1	1 Ground		Battery voltage
RH	D304	I	Sibulia	Ignition switch ON	Dattery Voltage

#### Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

# 2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- 2. Disconnect power window relay connector.
- Check continuity between power window relay harness connector and rear power window switch harness connector.

Power wi	ndow relay	Rear power window switch		Rear power window switch	
Connector	Terminal	Coni	nector	Terminal	Continuity
M58	3	LH	D204	1	Yes
WIJO	3	RH	D304	1	163

4. Check continuity between power window relay harness connector and ground.

# < DTC/CIRCUIT DIAGNOSIS >

Power wi	Power window relay		Continuity
Connector	Terminal	Ground	Continuity
M58	3		No

# Is the inspection result normal?

YES >> Refer to PWC-48, "Diagnosis Procedure".

NO >> Repair or replace harness.

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# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

#### < DTC/CIRCUIT DIAGNOSIS >

# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Description INFOID.000000009798782

Front power window motor RH will be operated if front power window switch RH is operated.

# Component Function Check

INFOID:0000000009798783

# 1. CHECK FRONT POWER WINDOW SWITCH RH FUNCTION

Check front power window motor RH operation with front power window switch RH.

#### Is the inspection result normal?

YES >> Front power window switch RH is OK.

NO >> Refer to PWC-34, "Diagnosis Procedure".

# Diagnosis Procedure

INFOID:0000000009798784

# 1. CHECK FRONT POWER WINDOW SWITCH RH INPUT SIGNAL

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

·	(+) Front power window switch RH Connector Terminal		Condition		Voltage (Approx.)	
Connector					(* 155. 5)	
	12			UP	Battery voltage	
D112	12	Cround	Power window Ground main switch		DOWN	0
DTIZ	11	Ground	RH	UP	0	
				DOWN	Battery voltage	

# Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

# 2. CHECK FRONT POWER WINDOW SWITCH RH

Check front power window switch RH.

Refer to PWC-35, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window switch RH. Refer to PWC-65, "Removal and Installation".

# 3. CHECK FRONT POWER WINDOW SWITCH RH CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch connector.
- 3. Check continuity between main power window and door lock/unlock switch harness connector and front power window switch RH harness connector.

Main power window and door lock/unlock switch		Front power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D6	16	D112	12	Yes
	2	DIIZ	11	163

Check continuity between main power window and door lock/unlock switch harness connector and ground.

# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

### < DTC/CIRCUIT DIAGNOSIS >

Main power window and	Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Ground	Continuity
D6	16	Giodila	No
Do	2		INO

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-64">PWC-64</a>, "Removal and Installation".

NO >> Repair or replace harness.

# 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

# Component Inspection

INFOID:0000000009798785

# 1. CHECK FRONT POWER WINDOW SWITCH RH

- 1. Turn ignition OFF.
- 2. Disconnect front power window switch RH connector.
- 3. Check front power window switch RH.

Front power window switch RH	Terminal		Front power window switch condition	Continuity
D112	8	7	DOWN	Yes
	11	6	DOWN	
	11	6	NEUTRAL	
	12	7	NEOTICAL	
	8	6	UP	
	12	7	J. J.	

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front power window switch RH. Refer to <a href="PWC-65">PWC-65</a>, "Removal and Installation".

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#### REAR POWER WINDOW SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

# REAR POWER WINDOW SWITCH

Description INFOID:000000009798786

Rear power window motor will be operated if rear power window switch is operated.

# Component Function Check

INFOID:0000000009798787

# 1. CHECK REAR POWER WINDOW SWITCH FUNCTION

Check rear power window motor operation with rear power window switch.

#### Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Refer to <u>PWC-36</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

INFOID:0000000009798788

# 1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

(+) Rear power window switch		(–)	Condition		Voltage (Approx.)
Connector	Terminal				
LH: D204	2	- Ground	Power window main switch: LH	UP	Battery voltage
				DOWN	0
	3			UP	0
				DOWN	Battery voltage
RH: D304	2		Power window main switch: RH	UP	Battery voltage
				DOWN	0
	3			UP	0
				DOWN	Battery voltage

#### Is the inspection result normal?

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

# 2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-37, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to PWC-65, "Removal and Installation".

# 3.CHECK REAR POWER WINDOW SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.
- 3. Check continuity between main power window and door lock/unlock switch harness connector and rear power window switch harness connector.

#### **REAR POWER WINDOW SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

	and door lock/unlock vitch	Rear power window switch		Rear power window switch		Continuity
Connector	Terminal	Connector Terminal				
9	1 🗆	D204	2			
De	8 LH D204	3	Von			
D6	6	RH	D304	3	Yes	
	7	КП	D304	2		

4. Check continuity between main power and door lock/unlock switch harness connector and ground.

Main power window and	d door lock/unlock switch		Continuity
Connector	Terminal		Continuity
	9	Ground	
D6	8	Ground	No
БО	6		INO
	7		

#### Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch.Refer to <a href="PWC-64">PWC-64</a>, "Removal and Installation".

NO >> Repair or replace harness.

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

## Component Inspection

INFOID:0000000009798789

## 1. CHECK REAR POWER WINDOW SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch connector.
- Check rear power window switch terminals under the following conditions.

Ter	minal	Rear power window switch condition	Continuity
1	5	DOWN	
3	4	DOWN	
3	4	NEUTRAL	Yes
2	5	NEUTIVAL	163
1	4	UP	
2	5	- Or	

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear power window switch. Refer to <a href="PWC-66">PWC-66</a>, "Removal and Installation".

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#### < DTC/CIRCUIT DIAGNOSIS >

## POWER WINDOW MOTOR

**DRIVER SIDE** 

**DRIVER SIDE**: Description

INFOID:0000000009798790

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

DRIVER SIDE : Component Function Check

INFOID:0000000009798791

## ${f 1}$ . CHECK FRONT POWER WINDOW MOTOR LH OPERATION

Check front power window motor LH operation with main power window and door lock/unlock switch.

## Is the inspection result normal?

YES >> Front power window motor LH is OK.

NO >> Refer to PWC-38, "DRIVER SIDE : Diagnosis Procedure".

## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000009798792

## 1. CHECK POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+) Power window motor LH		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(
	2			UP	Battery voltage
D10	D10 1	Ground	Main power win- dow and door lock/ unlock switch	DOWN	0
DIO				UP	0
				DOWN	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2. CHECK POWER WINDOW MOTOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.
- Check continuity between main power window and door lock/unlock switch harness connector and front power window motor LH harness connector.

Main power window a	nd door lock/unlock switch	Front power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	17	D10	3	Yes
D8	19	D10	1	165

 Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and	d door lock/unlock switch		Continuity	
Connector	Connector Terminal		Continuity	
	17	Ground	No	
	19		NO	

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Replace main power window and door lock/unlock switch.Refer to PWC-64, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to PWC-39, "DRIVER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window motor LH. Refer to GW-16, "Removal and Installation".

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

## DRIVER SIDE : Component Inspection

## ${f 1}$ .CHECK FRONT POWER WINDOW MOTOR LH

- Turn ignition switch OFF.
- 2. Disconnect front power window motor LH connector.
- Check motor operate by connecting the battery voltage directly to front power window motor LH connector.

Front power window motor LH	Terr	minal	Motor condition	
connector	(+)	(–)	Wotor condition	
D10	1	3	DOWN	
	3	1	UP	

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front power window motor LH. Refer to GW-16, "Removal and Installation".

#### PASSENGER SIDE

## PASSENGER SIDE: Description

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or front power window switch (passenger side).

## PASSENGER SIDE: Component Function Check

## CHECK FRONT POWER WINDOW MOTOR RH OPERATION

Check front power window motor RH operation with main power window and door lock/unlock switch or front power window switch RH.

#### Is the inspection result normal?

YES >> Front power window motor RH is OK.

>> Refer to PWC-39, "PASSENGER SIDE : Diagnosis Procedure".

## PASSENGER SIDE : Diagnosis Procedure

## ${f 1}$ .CHECK FRONT POWER WINDOW MOTOR RH INPUT SIGNAL

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

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#### **PWC-39**

#### < DTC/CIRCUIT DIAGNOSIS >

(+) Front power window motor RH		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(
	_	Ground	Front power window switch RH	UP	Battery voltage
D405	/			DOWN	0
D 105	D105 6			UP	0
				DOWN	Battery voltage

#### Is the inspection result normal?

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

## 2.check front power window motor rh circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch RH connector.
- Check continuity between front power window switch RH harness connector and front power window motor RH harness connector.

Front power wi	ndow switch RH	Front power wi	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D112	6		3	Yes
DIIZ	7	D105	1	165

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

Front power	vindow switch RH		Continuity	
Connector	Terminal	Ground	Continuity	
D112	6	Ground	No	
D112	7		NO	

#### Is the inspection result normal?

YES >> Replace front power window switch RH. Refer to PWC-65, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK FRONT POWER WINDOW MOTOR RH

#### Check front power window motor RH.

Refer to PWC-40, "PASSENGER SIDE: Component Inspection".

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window motor RH. Refer to GW-16, "Removal and Installation".

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

## PASSENGER SIDE: Component Inspection

INFOID:0000000009798797

## 1. CHECK FRONT POWER WINDOW MOTOR RH

- Turn ignition switch OFF.
- 2. Disconnect front power window motor RH connector.
- Check motor operate by connecting the battery voltage directly to front power window motor RH connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Front power window motor RH connector	Terr	Motor condition	
Tront power window motor Kir connector	(+)	(–)	Wotor condition
D105	1	3	DOWN
D105	3	1	UP

## Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front power window motor RH. Refer to <u>GW-16</u>, "Removal and Installation".

### **REAR LH**

## **REAR LH: Description**

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or rear power window switch LH.

## REAR LH: Component Function Check

## 1. CHECK REAR POWER WINDOW MOTOR LH OPERATION

Check rear power window motor LH operation with main power window and door lock/unlock switch or rear power window switch LH.

#### Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to PWC-41, "REAR LH : Diagnosis Procedure"

## **REAR LH: Diagnosis Procedure**

## 1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+)  Rear power window motor LH		(–) Cond		dition	Voltage (Approx.)
Connector	Terminal				
	1	Ground	Rear power win- dow switch LH	UP	Battery voltage
D205	· ·			DOWN	0
D203	3			UP	0
				DOWN	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH connector.
- 3. Check continuity between rear power window switch LH harness connector and rear power window motor LH harness connector.

Rear power wi	ndow switch LH	Rear power window motor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D204	4	D205	3	Yes
D20 <del>4</del>	5	D203	1	163

<sup>4.</sup> Check continuity between rear power window switch LH connector and ground.

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#### < DTC/CIRCUIT DIAGNOSIS >

Rear power v	Rear power window switch LH		Continuity
Connector	Terminal	Ground	Continuity
D204	4	Ground	No
D20 <del>4</del>	5		INO

#### Is the inspection result normal?

YES >> Replace rear power window switch LH.Refer to PWC-65, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to PWC-42, "REAR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor LH. Refer to <u>GW-22, "Removal and Installation"</u>.

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

## REAR LH: Component Inspection

INFOID:0000000009798801

## **COMPONENT INSPECTION**

## 1. CHECK REAR POWER WINDOW MOTOR LH

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

Rear power window motor LH con-	Ten	minal	Motor condition
nector	(+)	(-)	Wotor condition
D205	3	1	DOWN
D203	1	3	UP

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear power window motor LH. Refer to <u>GW-22, "Removal and Installation"</u>.

#### REAR RH

## **REAR RH**: Description

INFOID:0000000009798802

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or rear power window switch RH.

## **REAR RH: Component Function Check**

INFOID:0000000009798803

## 1. CHECK REAR POWER WINDOW MOTOR RH OPERATION

Check rear power window motor RH operation with main power window and door lock/unlock switch or rear power window switch RH.

#### Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to PWC-43, "REAR RH: Diagnosis Procedure".

#### < DTC/CIRCUIT DIAGNOSIS >

## REAR RH: Diagnosis Procedure

INFOID:0000000009798804

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## 1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+) Rear power window motor RH		(–) Cond		dition	Voltage (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
	D305 3	1	Ground Rear power window switch RH	UP	Battery voltage
D305		Cround		DOWN	0
D303		Ground		UP	0
				DOWN	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH connector.
- 3. Check continuity between rear power window switch RH harness connector and rear power window motor RH harness connector.

Rear power w	indow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D304	4	D305	3	Yes
D304	5	D305	1	165

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

Rear power v	Rear power window switch RH		Continuity
Connector	Terminal	Ground	Continuity
D304	4	Ground	No
D30 <del>4</del>	5		INO

#### Is the inspection result normal?

YES >> Replace rear power window switch RH.Refer to PWC-66, "Removal and Installation".

NO >> Repair or replace harness.

## 3.check rear power window motor RH

Check rear power window motor RH.

Refer to PWC-44, "REAR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor RH. Refer to <u>GW-22, "Removal and Installation"</u>.

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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#### < DTC/CIRCUIT DIAGNOSIS >

## **REAR RH**: Component Inspection

INFOID:0000000009798805

### COMPONENT INSPECTION

## 1. CHECK REAR POWER WINDOW MOTOR RH

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

Rear power window motor RH	Teri	minal	Motor condition
connector	(+)	(–)	Wiotor condition
D305	3	1	DOWN
	1	3	UP

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear power window motor RH. Refer to <u>GW-22, "Removal and Installation"</u>.

#### **ENCODER CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## **ENCODER CIRCUIT**

Description

Detects condition of the front power window motor LH operation and transmits to main power window and door lock/unlock switch as pulse signal.

## Component Function Check

## 1. CHECK ENCODER OPERATION

Check front driver side door glass perform AUTO open/close operation normally when main power window and door lock/unlock switch.

#### Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-45, "Diagnosis Procedure"

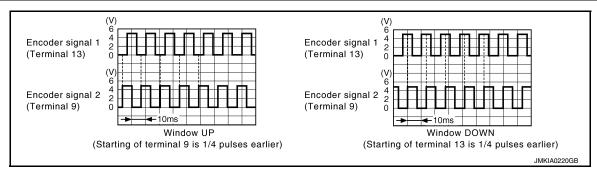
## Diagnosis Procedure

## **Encoder Circuit Check**

## 1. CHECK ENCODER OPERATION

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

(+)  Main power window and door lock/unlock switch		(-)	Signal (Reference value)
Connector	Terminal	(, (5)6) 6)160 .	
De	4	Ground	Defer to following signal
D6	5	Ground	Refer to following signal



#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

## 2.CHECK ENCORDER SIGNAL CIRCUIT

Turn ignition switch OFF.

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- Disconnect main power window and door lock/unlock switch connector and front power window motor LH connector.
- 3. Check continuity between main power window and door lock/unlock switch harness connector and front power window motor LH harness connector.

Main power window and	d door lock/unlock switch	Front power window motor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D6	4	D10	4	Yes
	5	D10	5	163

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#### **ENCODER CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and door lock/unlock switch			Continuity
Connector	Terminal	Ground	Continuity
	4	Ground	No
DO	5		INU

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.check encorder power supply circuit

- 1. Connect main power window and door lock/unlock switch connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between front power window motor LH harness connector and ground.

(+) Front power window motor LH		(-)	Voltage (Approx.)
Connector	Terminal		(, 44,)
D10	2	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

## 4. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between front power window motor LH harness connector and ground.

Front power window motor LH			Continuity
Connector	Terminal	Ground	Continuity
D10	6		Yes

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

## 5. CHECK HARNESS CONTINUITY 1

- 1. Turn ignition switch OFF.
- Check continuity between main power window and door lock/unlock switch harness connector and front power window motor LH harness connector.

Main power window and door lock/unlock switch		Front power window motor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D6	12	D10	6	Yes

3. Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and	d door lock/unlock switch		Continuity
Connector	Connector Terminal		Continuity
D6	12		No

#### Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-65">PWC-65</a>, "Removal and Installation".
- NO >> Repair or replace harness.

## **ENCODER CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## 6. CHECK HARNESS CONTINUITY 2

1. Disconnect main power window and door lock/unlock switch connector.

2. Check continuity between main power window and door lock/unlock switch harness connector and front power window motor LH harness connector.

Main power window and door lock/unlock switch		Front power window motor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D6	14	D10	2	Yes

#### Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to <u>PWC-65</u>, "Removal and Installation".

NO >> Repair or replace harness.

## 7. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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#### **POWER WINDOW RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

## POWER WINDOW RELAY

Description INFOID:000000010288638

Power is supplied to the main power window and door lock/unlock with BCM control.

## Component Function Check

INFOID:0000000010288637

## ${f 1}$ . CHECK POWER WINDOW RELAY POWER SUPPLY CIRCUIT

Check that an operation noise of power window relay [located behind the A/C switch assembly (automatic A/C) or Front air control (manual A/C)] can be heard when turning the main power window and door lock/unlock switch ON.

#### Is the inspection result normal?

YES >> Power window relay power supply circuit is OK.

NO >> Refer to PWC-48, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010288638

Regarding Wiring Diagram information, refer to PWC-17, "Wiring Diagram".

## 1. CHECK POWER WINDOW RELAY CONTROL CIRCUIT

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

(+)		(-)	Voltage (Approx.)
Connector	Terminal	Ground	Battery voltage
M18	23	Giodila	Dattery Voltage

#### Is the inspection result normal?

YES >> Replace the BCM. Refer to <u>BCS-75</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-135</u>, "Removal and Installation" (without Intelligent Key system).

NO >> GO TO 2.

## 2. CHECK HARNESS CONTINUITY

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

ВСМ	Power window relay		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M18	23	M58	1	Yes

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK POWER WINDOW RELAY

Check power window relay.

Refer to PWC-49, "Component Inspection".

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Replace power window relay.

## **POWER WINDOW RELAY**

## < DTC/CIRCUIT DIAGNOSIS >

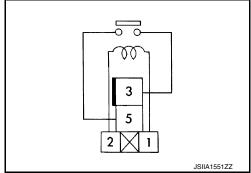
## Component Inspection

#### INFOID:0000000010288639

## 1. CHECK POWER WINDOW RELAY

Check power window relay.

Terminal		Condition	Continuity	
Power wi	ndow relay	Gondinon	Continuity	
3	5	12V direct current supply between terminals 1 and 2.	Yes	
		No current supply	No	



## Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power window relay.

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#### < DTC/CIRCUIT DIAGNOSIS >

## DOOR SWITCH WITH INTELLIGENT KEY

## WITH INTELLIGENT KEY: Component Function Check

INFOID:0000000010310167

## 1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	On
DOOK SW-DK	Driver side door	Closed	Off
DOOR SW-AS	December side dece	Open	On
	Passenger side door	Closed	Off
DOOD CW DI	Rear door LH	Open	On
DOOR SW-RL		Closed	Off
DOOR SW-RR	Rear door RH	Open	On
		Closed	Off

#### Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to PWC-50, "WITH INTELLIGENT KEY: Diagnosis Procedure".

## WITH INTELLIGENT KEY: Diagnosis Procedure

INFOID:0000000010310168

Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

## 1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning door switch connector.
- 3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

	(+) Door switch			6: 1	
			(–)	Signal (Reference value)	
Conne	Connector Terminal			(1.0.0.0.100 value)	
Driver side	B71				
Passenger side	B141			(V) 15	
Rear LH	B70		10 5		
Rear RH	B142	3	Ground	0 + 10ms PKIB4960J 7.0 - 8.0 V	

#### Is the inspection result normal?

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

## 2. CHECK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between door switch harness connector and BCM harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Door switch			ВС	CM	Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
Front LH	B71			57	
Front RH	B141	3	B16	53	Yes
Rear LH	B70		БІО	52	res
Rear RH	B142			50	

Check continuity between door switch harness connector and ground.

Door switch				Continuity
Connector		Terminal		Continuity
Front LH	B71		Ground	
Front RH	B141	3	Ground	No
Rear LH	B70	3		INO
Rear RH	B142			

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

## 3.check door switch

Refer to PWC-51, "WITH INTELLIGENT KEY: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to <u>DLK-269</u>, "Removal and Installation".

#### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

## WITH INTELLIGENT KEY: Component Inspection

1. CHECK DOOR SWITCH

- Turn ignition switch OFF. Disconnect malfunctioning door switch connector. 2.
- Check continuity between door switch terminals.

Door switch		Condition		Continuity
Terminal				Continuity
Ground contact is part of the		Door switch	Pressed	No
3	switch.	Door Switch	Released	Yes

## Is the inspection result normal?

Detects door open/close condition.

YES >> Inspection End.

>> Replace malfunctioning door switch. Refer to <u>DLK-269</u>, "Removal and Installation".

#### WITHOUT INTELLIGENT KEY

WITHOUT INTELLIGENT KEY: Description

WITHOUT INTELLIGENT KEY: Component Function Check

1. CHECK FUNCTION

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INFOID:0000000010310171

#### < DTC/CIRCUIT DIAGNOSIS >

- 1. Select "DOOR LOCK" of BCM using CONSULT.
- 2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", in Data Monitor mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	On
DOOK SW-DK	Driver side door	Closed	Off
DOOR SW-AS	Passenger side door	Open	On
		Closed	Off
DOOR SW-RL	Rear door LH	Open	On
		Closed	Off
DOOR SW-RR	Rear door RH	Open	On
		Closed	Off

## Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-319</u>, "<u>Diagnosis Procedure</u>".

## WITHOUT INTELLIGENT KEY: Diagnosis Procedure

INFOID:0000000010310172

Regarding Wiring Diagram information, refer to <a href="DLK-293">DLK-293</a>, "Wiring Diagram".

## 1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning door switch connector.
- 3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

	(+) Door switch			Signal (Reference value)	
Conne	Connector Terminal			(Noteroniae value)	
Front LH	B71				
Front RH	B141		(V) 15		
Rear LH	B70			10 5	
Rear RH	B142	3	Ground	0 ++ 10ms PKIB4960J 7.0 - 8.0 V	

#### Is the inspection result normal?

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

## 2.check door switch circuit

- Disconnect BCM connector.
- 2. Check continuity between door switch harness connector and BCM harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Door switch			ВСМ		Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
Front LH	B71	3		57	
Front RH	B141		B16	53	Yes
Rear LH	B70		БІО	52	res
Rear RH	B142			50	

3. Check continuity between door switch harness connector and ground.

	Door switch		Continuity	
Conr	nector	Terminal		Continuity
Front LH	B71		Ground	
Front RH	B141	3	Ground	No
Rear LH	B70			INO
Rear RH	B142			

## Is the inspection result normal?

>> Replace BCM. Refer to BCS-135, "Removal and Installation".

NO >> Repair or replace harness.

## 3. CHECK DOOR SWITCH

Refer to DLK-150, "Component Inspection".

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to <u>DLK-385</u>, "Removal and Installation".

#### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

## WITHOUT INTELLIGENT KEY: Component Inspection

1. CHECK DOOR SWITCH

Turn ignition switch OFF.

2. Disconnect door switch connector.

Check door switch.

Terr	ninal	Door switch condition	Continuity	
Door switch		Door switch condition	Continuity	
3	Ground part of	Pressed	No	
3	door switch	Released	Yes	

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to DLK-385, "Removal and Installation". Α

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## POWER WINDOW CONTROL SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

## POWER WINDOW CONTROL SYSTEM SYMPTOMS

Symptom Table

Symptom	Reference page	
None of the power windows can be operated using any switch.	Refer to PWC-55, "Diagnosis Procedure".	
Driver side power window alone does not operate.	Refer to PWC-56, "Diagnosis Procedure".	
Front passenger side power window does not operate (with both power window main switch and front passenger side power window switch).	Refer to PWC-57, "WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH: Diagnosis Procedure".	
Front passenger side power window does not operate (with front power window switch only).	Refer to PWC-57, "WITH FRONT POWER WINDOW SWITCH ONLY: Diagnosis Procedure".	
Rear LH side power window does not operate (with both power window main switch and rear power window switch LH).	Refer to PWC-58, "WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH: Diagnosis Procedure".	
Rear LH side power window does not operate (with rear power window switch LH only).	Refer to PWC-58, "WITH REAR POWER WINDOW SWITCH LH ONLY: Diagnosis Procedure".	
Rear RH side power window does not operate (with both power window main switch and rear power window switch RH).	Refer to PWC-59, "WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH : Diagnosis Procedure".	
Rear RH side power window does not operate (with rear power window switch RH only).	Refer to PWC-59, "WITH REAR POWER WINDOW SWITCH RH ONLY: Diagnosis Procedure".	
Anti-pinch system does not operate normally (drivers side).	Refer to PWC-60, "Diagnosis Procedure".	
Power window retained power operation does not operate properly.	Refer to PWC-61, "Diagnosis Procedure".	
Auto operation does not operate manual operate normally (driver side).	Refer to PWC-62, "Diagnosis Procedure".	
Power window lock switch does not function.	Refer to PWC-63, "Diagnosis Procedure".	

## NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

## NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

INFOID:0000000009798817

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## Diagnosis Procedure

## 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to <u>BCS-68</u>, "<u>Diagnosis Procedure</u>" (with Intelligent Key system) or <u>BCS-128</u>, "<u>Diagnosis Procedure</u>" (without Intelligent Key system).

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check main power window and door lock/unlock switch power supply and ground circuit. Refer to PWC-30, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

#### 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-41, "Intermittent Incident".

NO >> GO TO 1.

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## DRIVER SIDE POWER WINDOW DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

## DRIVER SIDE POWER WINDOW DOES NOT OPERATE

## Diagnosis Procedure

INFOID:0000000009798818

## 1. CHECK FRONT POWER WINDOW MOTOR LH

Check power window motor.

Refer to PWC-38, "DRIVER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.CONFIRM THE OPERATION

Confirm the operation again.

## Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

## FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE	А		
POWER WINDOW SWITCH			
WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH: Diagnosis Procedure			
1. CHECK FRONT POWER WINDOW SWITCH RH	С		
Check front power window switch RH. Refer to <a href="PWC-34">PWC-34</a> , "Component Function Check".  Is the inspection result normal?	D		
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts  2.CHECK FRONT POWER WINDOW MOTOR RH	Е		
Check front power window motor RH.  Refer to PWC-39, "PASSENGER SIDE : Component Function Check".	F		
Is the inspection result normal?  YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	G		
3.CONFIRM THE OPERATION  Confirm the operation again.	Н		
Is the result normal?  YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".  NO >> GO TO 1.	I		
WITH FRONT POWER WINDOW SWITCH ONLY			
WITH FRONT POWER WINDOW SWITCH ONLY: Diagnosis Procedure INFOID:00000009798820	J		
1. CHECK FRONT POWER WINDOW SWITCH RH POWER SUPPLY AND GROUND CIRCUIT			
Refer to PWC-31, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure".	PWC		
Is the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	L		
2.CHECK FRONT POWER WINDOW SWITCH RH	M		
Check front power window switch RH. Refer to PWC-34, "Component Function Check".	IVI		
Is the inspection result normal?  YES >> GO TO 3.	Ν		
NO >> Repair or replace the malfunctioning parts  3.CONFIRM THE OPERATION	0		
Confirm the operation again.			
Is the result normal?	Р		
YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".  NO >> GO TO 1.	Γ		

#### REAR LH SIDE POWER WINDOW DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

# REAR LH SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH I H

## WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH: Diagnosis Procedure

## 1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-36, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to PWC-41, "REAR LH: 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-41, "Intermittent Incident".

NO >> GO TO 1.

## WITH REAR POWER WINDOW SWITCH LH ONLY

## WITH REAR POWER WINDOW SWITCH LH ONLY: Diagnosis Procedure

INFOID:0000000009798822

## 1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check rear power window switch power supply and ground circuit.

Refer to PWC-32, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-36, "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-41, "Intermittent Incident".

NO >> GO TO 1.

## REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW DOES NOT OPERATE	
WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH	Α
WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH: Diagnosis Procedure	В
1. CHECK REAR POWER WINDOW SWITCH	С
Check rear power window switch.  Refer to PWC-36, "Component Function Check".  Is the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	D E
2. CHECK REAR POWER WINDOW MOTOR RH	_
Check rear power window motor RH. Refer to PWC-42, "REAR RH: Component Function Check".  Is the inspection result normal?  YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	F G
3.CONFIRM THE OPERATION	
Confirm the operation again.  Is the result normal?  YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".  NO >> GO TO 1.  WITH REAR POWER WINDOW SWITCH RH ONLY	Н
WITH REAR POWER WINDOW SWITCH RH ONLY: Diagnosis Procedure	J
1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT	PWC
Check rear power window switch power supply and ground circuit.  Refer to PWC-32, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".	
Is the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	L
2.CHECK REAR POWER WINDOW SWITCH Check rear power window switch.	M
Refer to PWC-36, "Component Function Check".  Is the inspection result normal?  YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	N
3. CONFIRM THE OPERATION	0
Confirm the operation again.  Is the result normal?  YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".  NO >> GO TO 1.	Р

## ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

#### < SYMPTOM DIAGNOSIS >

## ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

## Diagnosis Procedure

INFOID:0000000009798825

## 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to <u>PWC-27</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. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to PWC-45, "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-41, "Intermittent Incident".

NO >> GO TO 1.

## POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

## < SYMPTOM DIAGNOSIS >

# POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

## Diagnosis Procedure

## 1. CHECK DOOR SWITCH

Check door switch.

Refer to <u>DLK-149, "Component Function Check"</u> (with Intelligent Key system) or <u>DLK-319, "Component Function Check"</u> (without Intelligent Key system).

## 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-41, "Intermittent Incident".

NO >> GO TO 1.

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## AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMAL-LY (DRIVER SIDE)

## < SYMPTOM DIAGNOSIS >

## AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NOR-MALLY (DRIVER SIDE)

## Diagnosis Procedure

INFOID:0000000009798827

## 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to <u>PWC-27</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. CHECK ENCODER

Check encoder.

Refer to PWC-45, "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-41, "Intermittent Incident".

NO >> GO TO 1.

## POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

## < SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000009798828 $1. \\ \text{REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH}$ В Replace main power window and door lock/unlock switch. С >> Refer to PWC-65, "Removal and Installation". $\mathsf{D}$ Е F Н J PWC L M Ν 0

**PWC-63** Revision: November 2013 2014 Rogue NAM

## MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

## MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

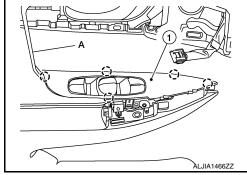
## Removal and Installation

#### INFOID:0000000010331185

#### **REMOVAL**

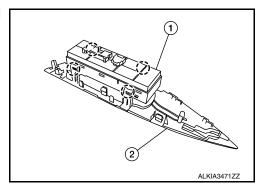
- 1. Remove the front door pull handle bracket (LH). Refer to INT-15, "Removal and Installation".
- 2. Release pawls using a suitable tool (A) and remove main power window and door lock/unlock switch finisher (1).

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- 3. Disconnect the harness connectors from the main power window and door lock/unlock switch.
- 4. Release the pawls, then separate the main power window and door lock/unlock switch (1) from the switch finisher (2).





#### **INSTALLATION**

Installation is in the reverse order of removal.

#### NOTE:

When the main power window and door lock/unlock switch is removed or replaced, it is necessary to perform the initialization procedure. Refer to PWC-25, "Work Flow".

## POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

< REMOVAL AND INSTALLATION >

## POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

#### Removal and Installation

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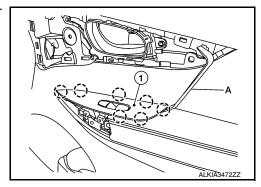
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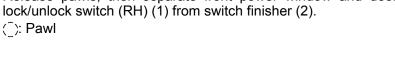
#### **REMOVAL**

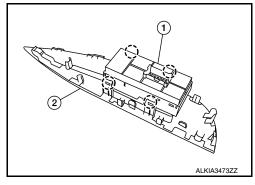
- Remove the front door pull handle bracket (RH). Refer to INT-15, "Removal and Installation".
- 2. Release pawls using a suitable tool (A) and remove front door power window and door lock/unlock switch finisher (RH) (1).

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- 3. Disconnect the harness connector from the front door power window and door lock/unlock switch (RH).
- Release pawls, then separate front power window and door lock/unlock switch (RH) (1) from switch finisher (2).





#### **INSTALLATION**

Installation is in the reverse order of removal.

#### NOTE:

When the front power window and door lock/unlock switch (RH) is removed or replaced, it is necessary to perform the initialization procedure. Refer to PWC-25, "Work Flow".

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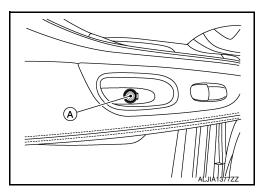
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## **REAR POWER WINDOW SWITCH**

## Removal and Installation

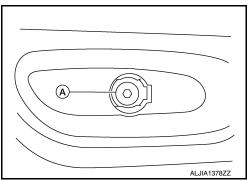
#### **REMOVAL**

1. Remove screw cover (1).



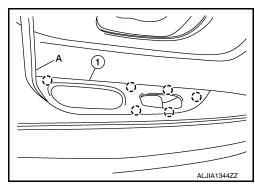
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2. Remove screw (A).



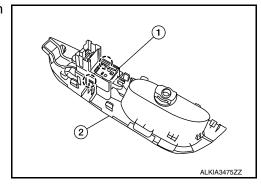
3. Release pawls using a suitable tool (A) and remove rear power window switch finisher (1).

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- 4. Disconnect harness connector from rear power window switch.
- 5. Release the pawls, then separate the rear power window switch (1) from the switch finisher (2).

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#### **INSTALLATION**

Installation is in the reverse order of removal.