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#### **PRECAUTIONS**

#### < PRECAUTION >

# **PRECAUTION**

#### **PRECAUTIONS**

Precaution for Technicians Using Medical Electric

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#### OPERATION PROHIBITION

#### WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

#### NORMAL CHARGE PRECAUTION

#### **WARNING:**

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment (including luggage room) during normal charge operation.

Precaution at telematics system operation

#### WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator(ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

Precaution at intelligent key system operation

#### WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of intelligent key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of intelligent key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before intelligent key use.

Point to Be Checked Before Starting Maintenance Work

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work. NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000006923038

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

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#### **PRECAUTIONS**

#### < PRECAUTION >

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 power switch ON, 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 power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.

Precaution for Removing 12V Battery

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When removing the 12V battery, turn ON/OFF the power switch and check that the charging status indicator does not blink. The 12V battery must be removed within one hour after checking the indicator lamp.

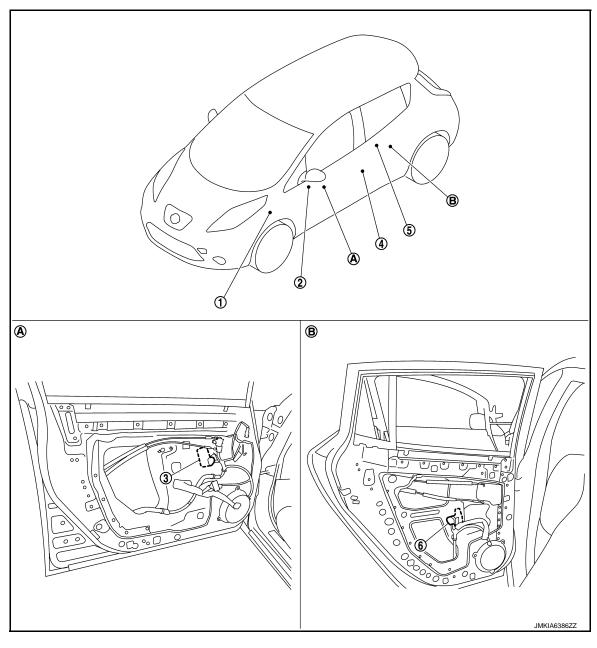
NOTE:

- The automatic 12V battery charge control may start even when the power switch is in OFF state.
- The automatic 12V battery charge control does not start within approximately one hour when the power switch is turned ON/OFF.

# SYSTEM DESCRIPTION

# **COMPONENT PARTS**

Component Parts Location



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

No.	No. Component parts Function		
1.	ВСМ	Supplies power supply to power window switch     Controls retained power     Refer to BCS-5, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location	
2.	Power window main switch	Directly controls all power window motor of all doors     Controls anti-pinch operation of power window	

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## **COMPONENT PARTS**

# < SYSTEM DESCRIPTION >

No.	Component parts	Function		
3.	Front power window motor (driver side)	Integrates the encoder and power window motor     Starts operating with signals from power window main switch     Transmits front power window motor (driver side) rotation as a pulse sign to power window main switch		
4.	Front door switch (driver side)	Inputs door open/close condition to BCM		
5.	Rear power window switch LH	Controls power window motor of rear door LH		
6.	Rear power window motor LH	Starts operating with signals from power window main switch & rear power window switch LH		

#### **SYSTEM**

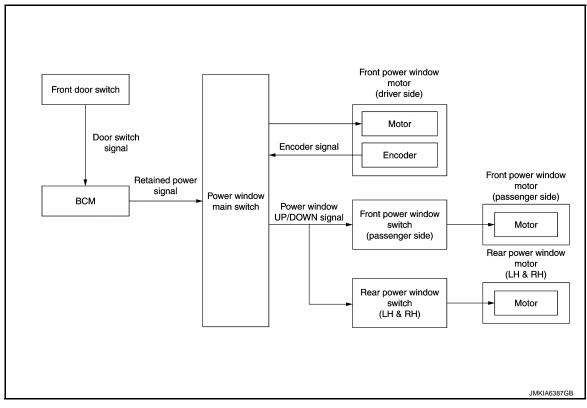
# System Description

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#### SYSTEM DIAGRAM



#### POWER WINDOW OPERATION

- Power window main switch can open/close all windows.
- Front & rear power window switch can open/close the corresponding windows.

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

- 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 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 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 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.
- Encoder continues detecting the movement of front power window motor (driver side) and transmits to power window main switch as the encoder pulse signal while front power window motor (driver side) is operating.

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#### **SYSTEM**

#### < SYSTEM DESCRIPTION >

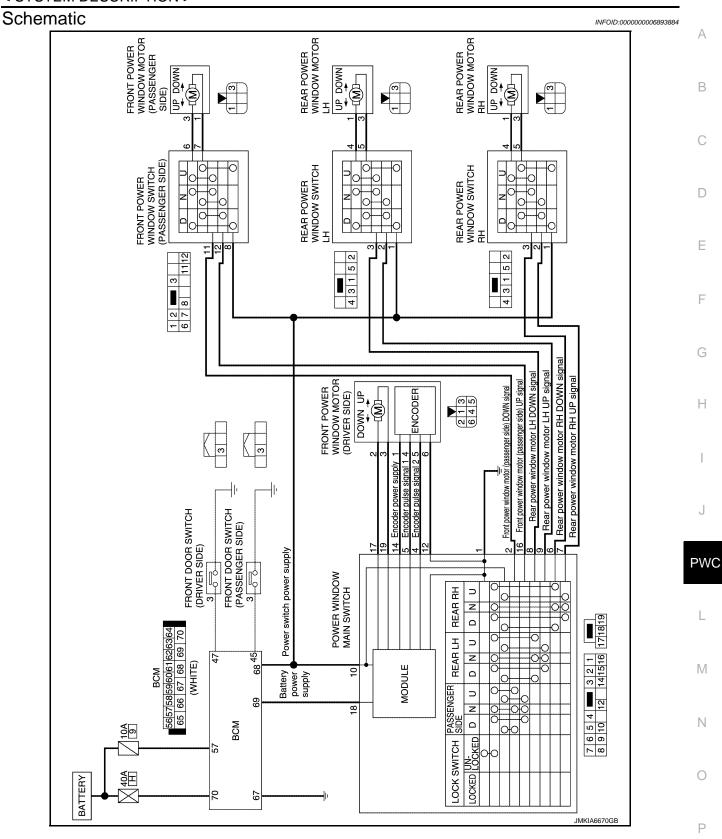
- Resistance is applied to the front power window motor (driver side) rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window main switch controls to lower the window glass for 150 mm (5.9 in) after it detects encoder pulse signal frequency 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.

#### **SYSTEM**

#### < SYSTEM DESCRIPTION >

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 fail-safe control.

- Auto-up operation
- Anti-pinch 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 main switch or front power window motor (driver side).

### **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	<ul><li>Read and save the vehicle specification.</li><li>Write the vehicle specification when replacing BCM.</li></ul>		

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

<sup>\*:</sup> This item is displayed, but not used.

#### 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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## **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 OFF (LOCK)]	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]	
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC	
	ACC>ON		While turning power supply position from ACC to ON	
	RUN>ACC		While turning power supply position from READY (RUN) to ACC (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from READY (CRANK) to READY (RUN)	
	RUN>URGENT	Power supply position status of the moment a particular DTC is detected*	While turning power supply position from READY (RUN) to ACC (Emergency stop operation)	
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)	
Vehicle Condition	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)	
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC	
	ON>CRANK		While turning power supply position from ON to READY (CRANK)	
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode	
	LOCK		Power supply position is OFF (LOCK)	
	OFF		Power supply position is OFF (OFF)	
	ACC		Power supply position is ACC	
	ON		Power supply position is ON	
	ENGINE RUN		Power supply position is READY (RUN)	
	CRANKING		Power supply position is READY (CRANK)	
IGN Counter	0 - 39	<ul> <li>The number of times that power switch is turned ON after DTC is detected</li> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever power switch OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>		

#### NOTE:

- \*: Refer to the following for details of the power supply position.
- OFF (OFF, LOCK): Power switch OFF
- ACC: Power switch ACC
- ON: Power switch ON
- READY (CRANK): Shifting to vehicle condition READY (Transmitting the READY signal from BCM to VCM)
- READY (RUN): Vehicle condition READY

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when power switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

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

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

#### **RETAIND PWR**

# **DIAGNOSIS SYSTEM (BCM)**

#### < SYSTEM DESCRIPTION >

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

#### INFOID:0000000006952200

#### DATA MONITOR

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

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# **ECU DIAGNOSIS INFORMATION**

# **BCM**

# List of ECU Reference

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ECU	Reference	
	BCS-32, "Reference Value"	
BCM	BCS-52, "Fail-safe"	
	BCS-53, "DTC Inspection Priority Chart"	
	BCS-54, "DTC Index"	

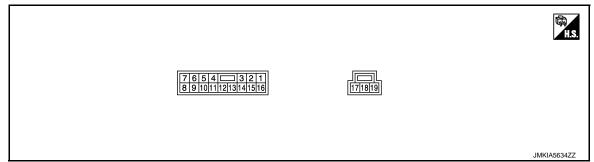
#### **POWER WINDOW MAIN SWITCH**

#### < ECU DIAGNOSIS INFORMATION >

## POWER WINDOW MAIN SWITCH

Reference Value

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

#### POWER WINDOW MAIN SWITCH

	nal No. color)	Description		Condition	Voltage (V)	
+	-	Signal name	Input/ Output	Condition	Voltage (V)	
1 (B)	Ground	Ground	_	_	0 - 1	
2 (SB)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front RH switch in power window main switch is DOWN at operated.	9 – 16	
4 (W)	Ground	Encoder pulse signal 2	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms	
5 (Y)	Ground	Encoder pulse signal 1	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms	
6 (Y)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is DOWN at operated.	9 – 16	
7 (LG)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is UP at operated.	9 – 16	
8 (BR)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is DOWN at operated.	9 – 16	
9 (P)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is UP at operated.	9 – 16	

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Revision: 2010 November

#### **POWER WINDOW MAIN SWITCH**

#### < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
10	Ground	Power switch power supply	Innut	Power switch ON	9 – 16
(V)	Ground	Fower switch power supply	Input	Other than above	0 - 1
12 (R)	Ground	Encoder ground	_	_	0 – 1
14 (G)	Ground	Encoder power supply	Output	Power switch ON	9 – 16
16 (W)	Ground	Front power window motor (passenger side) UP signal	Output	When front RH switch in power window main switch is UP at operated.	9 – 16
17 (R)	Ground	Front power window motor (driver side) UP signal	Output	When front LH switch in power window main switch is UP at operated.	9 – 16
18 (R)	Ground	Battery power supply	Input	Power switch OFF	9 – 16
19 (GR)	Ground	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is DOWN at operated.	9 – 16

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.
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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

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 main switch or front power window motor (driver side).

# **WIRING DIAGRAM**

# POWER WINDOW SYSTEM

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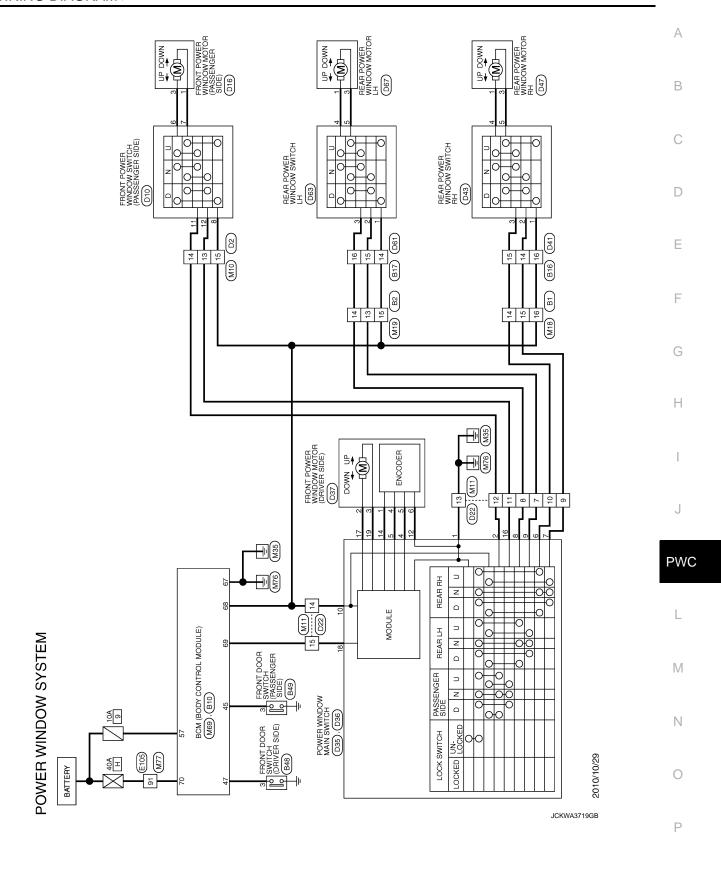
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Wiring Diagram



POWER WINDOW SYSTEM Connector No.   B1	Connector No. B10	Connector No. 817	-
Connector Name WIRE TO WIRE Connector Type NS:16MW-CS	Connector Name BCM (BODY CONTROL MODULE) Connector Type FFA09ER-FH46-SA	Connector Name WIRE TO WIRE Connector Type TK/IFW-MS8	No. of Wire
Œ	1	1	Connector No.   D2
H.S.	H.S. 142 43 44 45 46 47 48 49	H.S. 100878 54321	Connector Name WIRE TO WIRE
10 11 12 13 14	50 51 52 53 54 55	17 16 15 14 13 12	Connector Type TH40FW-CS15
			<b>医</b>
Terminal Color Signal Name [Specification]	le l	Ta Ta	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
	ot Wire	No. of Wire	5554 53 52 51 50 43 48 47
7 BR –	LG RE	2 LG -	
W	BR	$\dashv$	L
- II	46 R REAR RH DOOR SW	12 V	Terminal Color Signal Name [Specification]
+	g ×	۷ >	$^{+}$
Α.	ר	16 GR –	2 R –
Н	<u>а</u> :		> :
	53 GR BK DOOR OPEN OUTPUT	Connection No D40	- V 4
	GR	П	+
Connector No. B2		Connector Name FRON   DOOR SWITCH (DRIVER SIDE)	12 B –
Connector Name WIRE TO WIRE		Connector Type TH04FW-NH	+
F	Connector No. B16	<b>1</b>	+
Connector Lype INS16MW-US	Connector Name WIRE TO WIRE		24 Y
修	Connector Type TK10FW-NS8		П
	4	n	ψ
2 3 • 4 5 6	italia		36 B
8 9 10 11 12 13 14 15 16	10 6 7 6 7 8 9 11		+
	3 17 16 15 14 13 12	le	39 LG –
Ŀ		9	$\dashv$
Terminal Color Signal Name [Specification]		3 SB -	45 W
╈	Terminal Color		┨
- V 7		Connector No. B49	
Ф	FG -	Connector Name FRONT DOOR SWITCH (PASSENGER SIDE)	
+	+	F	
98 > 21	12 R	1	
FG	Н	<b></b>	
+	- 15 Y	T <sub>S</sub>	
14 GR =			
- Le C			

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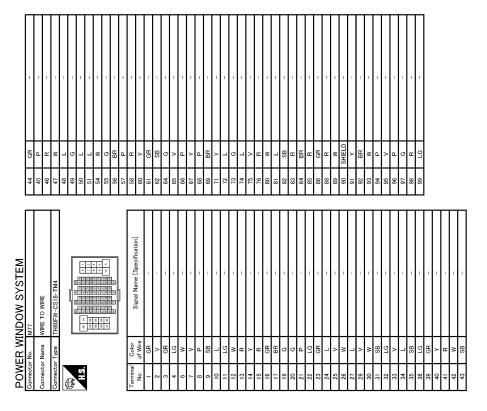
VER SIDE)	(ken)   18   19   19   19   19   19   19   19		А
PROMIT FOWER WINDOW MOTOR (DRIVER SIDE) RSG06-TG RSG1   3	Signal Name [Specification]		В
	1   1   1   1   1   1   1   1   1   1		С
Connector No. Connector Name Connector Type	Connector No.   Connector No		D
SWITCH 2 1 1 15 16	SWTCH Switch		Е
D35 NS16FW-C5    NS16FW-C5    S   4	Signal Name (Specification)		F
Connector No. D35 Connector Type NS16 Connector Type NS16 H3.	1		G
Comm	Terminal   No.		Н
No. D22  Type TH40FW-CS15  Type TH40FW-CS15  TS141:312:1110[9.8.7   5.1.3 2.1]  RESHREGISTERS STREET  RESHREGI	Signal Name [Specification]		I
D22 WIRE TO WIRE TH40FW-CS15  TH40FW-CS15  S12[11] 10 [   8   7]  S2[14] 10 [   8   7]  S2[14] 10 [   8   7]	Z (1.09)		J
	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PWC
Connecto Connecto	7 erminal  No. 1  1		
(30)	titon]		L
3 1112	Signal Name [Specification]		M
NDOW SYSTEM D10 FRONT POWER WALDOW SWITCH PASSENGER SIDE INSIZEW-GS  1 2   1112   1112			N
M			
POWER Connector No. Connector Na. Connector Tyr	Terminal   Colc	JCKWA3721GB	0
		55((1)(0) 21(0)	Р

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	Connector Type	Of Wire of Wire BR	<del></del>	21 P	36 BR
Terminal   Odor   Signal Name [Specification]   1	2 LG	Connector No.  Connector Type  Connector Type  MS08FW-CS  HS3  HS4  1 3 1 5 2	Signal Name	2 0	Terminal   Odor   Signal Name [Specification]   Of Wire   Signal Name [Specification]
POWER WINDOW SYSTEM Connector Na. B43 Connector Name REAR POWER WINDOW SWITCH RH	Connector Type INSOBFW-CS  H.S.  4.3 152	Terminal Color   Signal Name [Specification]   1	Connector Name REAR POWER WINDOW MOTOR RH Connector Type RS06FG  M.S.	Terminal   Color   Signal Mame [Specification]   Color   Comector Name   Comector Type   TKTOMW-NSB   TKTOM	112345 678910 1112131415161718

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	POWE	ER WIN	POWER WINDOW SYSTEM	[	-			L		ŀ			ſ
	Connector No.	Т	OIW	2 4	5 >	1 1		9	1	+	ā	W PWR SPLY (ON)	
	Connector Name		WIRE TO WIRE	7	. B					G 69	PV	PW PWR SPLY (BAT)	
	Connector Type		TH40MW-CS15	8	≻	-		Connector No.	M19	70 Y		BAT (F/L)	
	Q.			6	ΓC	ı		Connector Name	WIRE TO WIRE				
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	2	1 2 3 4	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	= =	≥ 8	11 1		7	NSI6FW-CS				
		19171919202	1617181920212223242526 3637383940414243444546	2 6	3 "			C C					
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	£ 4	2 8		Connect	nector Type	NS16FW-CS	Ī	Connector Type	FFA09FW-FHA6-SA				
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	H.S.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Terminal	al Color	or Signal Name [Specification]	tion]	Terminal Golor	Signal Name [Specification]				
		16171819202		ν. Θ	N >			1	INT ROOM LAMP PWR SPLY				
		272829300	31(32)33(34)35) 47(48)49(50)51(52)53(54)59		۵			57 P	BAT (FUSE)				
				2 ;	≥ 5			+	PASS DOOR UNLK OUTPUT				
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	No.	of Wire	Signal Name [Specification]	13 2	5 ≥			63 W	INT ROOM LAMP CONT				
				14	>			65 V	ALL DOOR LOCK OUTPUT				
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#### **DIAGNOSIS AND REPAIR WORK FLOW**

### < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW WorkFlow INFOID:0000000006825049 **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. D >> GO TO 2. $2.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Е Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. F >> GO TO 3. ${f 3.}$ IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS" Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms. Н >> GO TO 4. f 4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 5. J ${f 5}$ . REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. **PWC** >> 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? M YES >> INSPECTION END NO >> GO TO 3. N

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# ADDITIONAL SERVICE WHEN REMOVING 12V BATTERY NEGATIVE TERMINAL

#### < BASIC INSPECTION >

# ADDITIONAL SERVICE WHEN REMOVING 12V BATTERY NEGATIVE TERMINAL

Description INFOID:0000000000825050

When the 12V battery negative terminal is disconnected, the initialization is necessary for normal operation of power window system.

#### **CAUTION:**

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

- Auto-up operation
- Anti-pinch function

Work Procedure

# 1.SYSTEM INITIALIZATION

Perform system initialization. Refer to PWC-28, "Work Procedure".

>> GO TO 2.

# 2. CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to PWC-29, "Work Procedure".

>> END

#### ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN SWITCH

< BASIC INSPECTION >

# ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN **SWITCH**

Description INFOID:0000000006825052

When the power window main switch replaced, the initialization in necessary for normal operation of power window system.

#### **CAUTION:**

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

- Auto-up operation
- Anti-pinch function

Work Procedure INFOID:0000000006825053

# 1. SYSTEM INITIALIZATION

Perform system initialization. Refer to PWC-28, "Work Procedure".

>> GO TO 2.

# 2. CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to PWC-29, "Work Procedure".

>> END

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#### SYSTEM INITIALIZATION

#### < BASIC INSPECTION >

#### SYSTEM INITIALIZATION

**Description** 

If any of the following operations are performed, the initialization is necessary for normal operation of power window system.

- Disconnection and connection of 12V battery cable from negative terminal.
- When power window main switch replaced.
- Electric power supply to power window main switch or power window motor (driver side) is interrupted by blown fuse or disconnection and connection of the negative terminal of 12V battery, etc.
- Disconnection and connection of power window main switch harness connector.
- Removal of power window motor (driver side) from regulator assembly.
- Operation of regulator assembly as an independent unit.
- · Removal and installation of glass.
- · Removal and installation of door glass run.

#### **CAUTION:**

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

- Auto-up operation
- Anti-pinch function

Work Procedure

### **1.**STEP 1

- 1. Turn power switch ON.
- 2. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
- 3. 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.
- 4. Check that AUTO-UP function operates normally.

>> GO TO 2.

#### 2.STEP 2

Check anti-pinch function. Refer to PWC-29, "Work Procedure".

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#### CHECK ANTI-PINCH FUNCTION

#### < BASIC INSPECTION >

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

Description INFOID:0000000006825056

If any of the following operations are performed, the initialization is necessary for normal operation of anti-

- Disconnection and connection of 12V battery cable from negative terminal.
- When power window main switch replaced.
- Electric power supply to power window main switch or power window motor (driver side) is interrupted by blown fuse or disconnection and connection of the negative terminal of 12V battery, etc.
- Disconnection and connection of power window main switch harness connector.
- Removal of power window motor (driver side) from regulator assembly.
- Operation of regulator assembly as an independent unit.
- · Removal and installation of glass.
- Removal and installation of door glass run.

Work Procedure INFOID:0000000006825057

# 1. CHECK ANTI-PINCH FUNCTION

- Fully open the door window.
- Place a piece of wood near fully closed position.
- Close door glass completely with AUTO-UP.
- Check the following conditions
- Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops.
- Check that glass does not rise not when operating the power window main 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.
  - To prevent injury, do not check with hands and other body parts because they may be pinched. Do not get pinched.

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT POWER WINDOW MAIN SWITCH

### POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000006825058

# 1. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY

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

(+) Power window m	nain switch	(-)	Condition	Condition	
Connector	Terminal				Voltage (V) (Approx.)
D35	10	Ground	Power switch	ON	9 – 16
D36	18	Glound	Fower Switch	OFF	9-10

#### Is the inspection result normal?

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

# 2. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector.
- 2. 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
M69	68	D35	10	Existed
10109	69	D36	18	LAISIEU

3. Check continuity between BCM harness connector and ground.

E	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	68	Ground	Not existed
MOS	69		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-76, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK POWER WINDOW MAIN SWITCH GROUND CIRCUIT

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

Power windo	w main switch		Continuity	
Connector	Connector Terminal		Continuity	
D35	1		Existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

### FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

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

INFOID:0000000006825059

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# 1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY

- Turn power switch OFF.
- Disconnect front power window switch (passenger side) connector.
- Turn power switch ON.
- 4. Check voltage between front power window switch (passenger side) harness connector and ground.

Front power window s	+) witch (passenger side)	(-)	Voltage (V) (Approx.)
Connector	Terminal		(, 44, 2, 11)
D10	8	Ground	9 – 16

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

# 2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY CIRCUIT

- Turn power switch OFF.
- Disconnect BCM connector.
- 3. Check continuity between BCM harness connector and front power window switch (passenger side) harness connector.

В	CM	Front power window switch (passenger side)		Continuity	
Connector	Terminal	Connector Terminal		Goriandity	
M69	68	D10	8	Existed	

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	68		Not existed

#### Is the inspection result normal?

>> Replace BCM. Refer to BCS-76, "Removal and Installation". YES

>> Repair or replace harness.

#### REAR POWER WINDOW SWITCH

# REAR POWER WINDOW SWITCH: Diagnosis Procedure

# 1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY

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

(+) Rear power window switch			(-)	Voltage (V) (Approx.)	
·		Terminal	(-)	(Approx.)	
LH	D63	1	Ground	9 – 16	
RH	D43	, I	Giouria	9-10	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# $\overline{2.}$ CHECK REAR POWER WINDOW SWITCH POWER SUPPLY CIRCUIT

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

В	CM	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
Meo	Meo eo		D63	1	Existed
WOS	M69 68	RH	D43	<b>1</b>	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	68		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-76. "Removal and Installation".

NO >> Repair or replace harness.

### FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

#### < DTC/CIRCUIT DIAGNOSIS >

# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

# Diagnosis Procedure

#### INFOID:0000000006825061

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# 1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) INPUT SIGNAL

- 1. Turn power switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Turn power switch ON.
- 4. Check voltage between front power window switch (passenger side) harness connector and ground.

(+) Front power window switch (passenger side)		(-)	Condit	ion	Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
	11			NEUTRAL	0 – 1
D10	11	Ground	Power window main switch	DOWN	9 – 16
D10	12	Giouna	(passenger side)	NEUTRAL	0 – 1
	12		, ,		9 – 16

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check front window switch (passenger side) circuit

- 1. Turn power switch OFF.
- 2. Disconnect power window main switch connector.
- Check continuity between power window main switch harness connector and front power window switch (passenger side) harness connector.

Power windo	Power window main switch		Front power window switch (passenger side)		
Connector	Terminal	Connector	Terminal	Continuity	
D35	2	D10	11	Existed	
D33	16	DIO	12	Existed	

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

Power windo	w main switch	Ground	Continuity
Connector	Terminal		Continuity
D35	2	Giodila	Not existed
	16		ivoi existed

#### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-56, "Removal and Installation".

NO >> Repair or replace harness.

# 3.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-34, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-56">PWC-56</a>, "Removal and Installation".

### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

#### >> INSPECTION END

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### FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

#### < DTC/CIRCUIT DIAGNOSIS >

### Component Inspection

INFOID:0000000006825062

# 1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

- Turn power switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check front power window switch (passenger side) terminals under the following conditions.

Front power window s	Front power window switch (passenger side)		Continuity
Terr	Terminal		Continuity
8	7	UP	
11	6	Ur Ur	
11	6	- NEUTRAL	Existed
12	7	NEOTIVAL	LXISIGU
8	6	DOWN	
12	7	DOWN	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-56">PWC-56</a>, "Removal and Installation".

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

#### < DTC/CIRCUIT DIAGNOSIS >

# **REAR POWER WINDOW SWITCH**

# Diagnosis Procedure

#### INFOID:0000000006825063

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# 1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

Rear	(+) Rear power window switch		(-) Condi		lition	Voltage (V) (Approx.)
Conr	nector	Terminal				
		2			NEUTRAL	0 – 1
LH	Dea	2		Power window main switch (rear LH)	UP	9 – 16
LΠ	LH D63	3			NEUTRAL	0 – 1
			0		DOWN	9 – 16
	RH D43 3		Ground	Power window main switch (rear RH)	NEUTRAL	0 – 1
					UP	9 – 16
RH		2			NEUTRAL	0 – 1
		3			DOWN	9 – 16

#### Is the inspection result normal?

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

# 2.CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

Power windo	w main switch	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
	9	LH	D63	2	
D35	8	ЦΠ	D03	3	Existed
D35	7	DII	D40	2	
	6	RH	D43	3	

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

Power windo	w main switch		Continuity	
Connector	Terminal		Continuity	
	9	Ground		
D25	8	Ground	Not existed	
D35	7		Not existed	
	6			

#### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-56, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

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

#### < DTC/CIRCUIT DIAGNOSIS >

Refer to PWC-36, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to <a href="PWC-56">PWC-56</a>, "Removal and Installation".

# 4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

#### >> INSPECTION END

### Component Inspection

INFOID:0000000006825064

# 1. CHECK REAR POWER WINDOW SWITCH

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

Rear power window switch Terminal		- Condition	Continuity
1	5	- UP	Existed
3	4		
3	4	- NEUTRAL	
2	5		
1	4	DOWN	
2	5		

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window switch. Refer to PWC-56, "Removal and Installation".

#### < DTC/CIRCUIT DIAGNOSIS >

## POWER WINDOW MOTOR

#### **DRIVER SIDE**

## DRIVER SIDE : Diagnosis Procedure

#### INFOID:0000000006825065

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## $1.\mathsf{CHECK}$ FRONT POWER WINDOW MOTOR (DRIVER SIDE) INPUT SIGNAL

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

(+) Front power window motor (driver side)		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
	2			NEUTRAL	0 – 1
D27	D37 3	- Ground	Power window main switch	UP	9 – 16
DST				NEUTRAL	0 – 1
				DOWN	9 – 16

#### Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-21, "Removal and Installation"</u>.

NO >> GO TO 2.

## 2.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) CIRCUIT

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

Power windo	w main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D36	17	D37	2	Existed
D30	19	D31	3	LAISIEU

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

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D36	17	Giodila	Not existed
D30	19		Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

#### PASSENGER SIDE

## PASSENGER SIDE : Diagnosis Procedure

#### INFOID:0000000006825066

## $1. {\sf CHECK} \ {\sf FRONT} \ {\sf POWER} \ {\sf WINDOW} \ {\sf MOTOR} \ ({\sf PASSENGER} \ {\sf SIDE}) \ {\sf INPUT} \ {\sf SIGNAL}$

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

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#### < DTC/CIRCUIT DIAGNOSIS >

(+)		(-) Cond		.:	Voltage (V)
Front power window r	Front power window motor (passenger side)		Condition		(Approx.)
Connector	Terminal				
		- Ground	Front power window switch	NEUTRAL	0 – 1
D16	1			UP	9 – 16
D10	3		(passenger side)	NEUTRAL	0 – 1
				DOWN	9 – 16

#### Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to <u>GW-21, "Removal and Installation"</u>. NO >> GO TO 2.

## 2.CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE) CIRCUIT

- 1. Turn power switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- Check continuity between front power window switch (passenger side) harness connector and front power window motor (passenger side) harness connector.

Front power window s	switch (passenger side)	Front power window r	notor (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D10	6	D16	3	Existed
סום	7	510	1	LAISIGU

4. Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window s	switch (passenger side)		Continuity
Connector	Terminal	Ground	Continuity
D10	6	Ground	Not existed
	7		INOL GXISIGU

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

REAR LH

## REAR LH: Diagnosis Procedure

INFOID:0000000006825067

- 1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL
- 1. Turn power switch OFF.
- 2. Disconnect rear power window motor LH connector.
- 3. Turn power switch ON.
- 4. Check voltage between rear power window motor LH harness connector and ground.

(+) Rear power window motor LH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
	D67 3	Ground	Rear power win- dow switch LH	NEUTRAL	0 – 1
D67				DOWN	9 – 16
D01				NEUTRAL	0 – 1
				UP	9 – 16

#### Is the inspection result normal?

YES >> Replace rear power window motor LH. Refer to <u>GW-21, "Removal and Installation"</u>.

NO >> GO TO 2.

#### < DTC/CIRCUIT DIAGNOSIS >

## $\overline{2}$ .check rear power window motor LH circuit

- 1. Turn power 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
D63	4	D67	1	Existed
Ъ03	5	507	3	LAISIEU

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

Rear power wi	ndow switch LH		Continuity
Connector	Terminal	Ground	Continuity
D63	4	Ground	Not existed
D03	5		Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

REAR RH

## REAR RH: Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+) Rear power window motor RH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
	1		Rear power window switch RH	NEUTRAL	0 – 1
D47	D47 Ground	Ground		DOWN	9 – 16
D41		Giodila		NEUTRAL	0 – 1
				UP	9 – 16

#### Is the inspection result normal?

YES >> Replace rear power window motor RH. Refer to <u>GW-25, "Removal and Installation"</u>.

NO >> GO TO 2.

## 2.check rear power window motor rh circuit

- 1. Turn power 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 wi	Rear power window switch RH		ndow motor RH	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
D43	4	D47	1	Existed	
D40	5	D41	3	LXISIEU	

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

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#### < DTC/CIRCUIT DIAGNOSIS >

Rear power wi	Rear power window switch RH		Continuity
Connector	Terminal	Ground	Continuity
D43	4	Ground	Not existed
D43	5		Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

#### **ENCODER CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

#### **ENCODER CIRCUIT**

## Diagnosis Procedure

#### INFOID:0000000006825069

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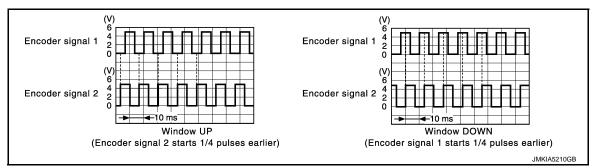
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## 1. CHECK ENCODER PULSE SIGNAL

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

Power windo	(+) Power window main switch		Signal (Reference value)	
Connector	Terminal		(.15.5.565 value)	
D35	4	- Ground	Refer to following signal	
D33	5			



#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

## 2. CHECK ENCODER SIGNAL CIRCUIT

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

Power window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D35		D37	5	Existed
D33	5	D31	4	LXISIEU

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

Power window main switch			Continuity	
Connector	Terminal	Ground	Continuity	
D35	4		Not existed	
D00	5		NOT CAISTED	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK ENCODER POWER SUPPLY

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

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#### **ENCODER CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

(+)			V 16 0.0	
Front power window	Front power window motor (driver side)		Voltage (V) (Approx.)	
Connector	Terminal		, , , ,	
D37	1	Ground	9 – 16	

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

## 4. CHECK ENCODER POWER SUPPLY CIRCUIT

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

Power windo	w main switch	Front power window motor (driver side)  Connector Terminal		Continuity
Connector	Terminal			Continuity
D35	14	D37	1	Existed

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

Power window main switch			Continuity
Connector Terminal		Ground	Continuity
D35	14		Not existed

#### Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

## 5. CHECK ENCODER GROUND CIRCUIT

- 1. Turn power switch OFF.
- 2. Check continuity between front power window motor (driver side) harness connector and ground.

Front power window motor (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D37	6		Existed

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

#### **6.**CHECK ENCODER GROUND CIRCUIT

- 1. Disconnect power window main switch connector.
- Check continuity between power window main switch harness connector and front power window motor (driver side) harness connector.

Power windo	Power window main switch		Front power window motor (driver side)	
Connector	Terminal	Connector Terminal		Continuity
D35	12	D37	6	Existed

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

Power window main switch			Continuity
Connector	Connector Terminal		Continuity
D35	12		Not existed

#### Is the inspection result normal?

YES >> Replace front power window motor (driver side).

# **ENCODER CIRCUIT** < DTC/CIRCUIT DIAGNOSIS > >> Repair or replace harness. NO 7. CHECK INTERMITTENT INCIDENT Α Refer to GI-51, "Intermittent Incident". В >> INSPECTION END С D Е F Н J PWC L M Ν

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#### POWER WINDOWS DO NOT OPERATE WITH POWER WINDOW MAIN SWITCH

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

# POWER WINDOWS DO NOT OPERATE WITH POWER WINDOW MAIN SWITCH

#### **Diagnosis Procedure**

INFOID:0000000006825070

## 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to BCS-70, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window main 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. REPLACE POWER WINDOW MAIN SWITCH

- · Replace power window main switch.
- · Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

#### DRIVER SIDE POWER WINDOW DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS > DRIVER SIDE POWER WINDOW DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000006825071 1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) В Check front power window motor (driver side). Refer to PWC-37, "DRIVER SIDE: Diagnosis Procedure". C Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. D 2.replace power window main switch • Replace power window main switch. Confirm the operation after replacement. Е Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-51, "Intermittent Incident". NO F Н J **PWC** L M Ν

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#### FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED

WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED: Diagnosis Procedure

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-33, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

Check front power window motor (passenger side).

Refer to PWC-37, "PASSENGER SIDE: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

## 3.REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

# WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED :

Diagnosis Procedure

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY AND GROUND CIR-

**CUIT** 

Check front power window switch (passenger side) power supply and ground circuit.

Refer to PWC-31, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-33, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

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## FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >
WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure
INFOID:000000000682
1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Check front power window switch (passenger side).  Refer to <a href="PWC-33">PWC-33</a> , "Diagnosis Procedure".
Is the inspection result normal?
YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.  2.REPLACE POWER WINDOW MAIN SWITCH
Replace power window main switch.
Confirm the operation after replacement.
<u>Is the result normal?</u>
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".
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#### REAR LH SIDE POWER WINDOW DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

# REAR LH SIDE POWER WINDOW DOES NOT OPERATE WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED: Diagnosis Procedure

## 1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to PWC-35, "Diagnosis Procedure".

#### 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-38, "REAR LH: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

#### WHEN REAR POWER WINDOW SWITCH LH IS OPERATED

#### WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure

INFOID:00000000006825076

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

Check rear power window switch LH power supply and ground circuit.

Refer to PWC-31, "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 LH

Check rear power window switch LH.

Refer to PWC-35, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

#### WHEN POWER WINDOW MAIN SWITCH IS OPERATED

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

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Proce	<del></del> dure
INFO	DID:0000000006825077
1.CHECK REAR POWER WINDOW SWITCH LH	
Check rear power window switch LH. Refer to PWC-35, "Diagnosis Procedure".	
Is the inspection result normal?	
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	
2.REPLACE POWER WINDOW MAIN SWITCH	
<ul><li>Replace power window main switch.</li><li>Confirm the operation after replacement.</li></ul>	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".	
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#### REAR RH SIDE POWER WINDOW DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

# REAR RH SIDE POWER WINDOW DOES NOT OPERATE WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH ARE OPERATED

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH ARE OPERATED: Diagnosis Procedure

## 1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to PWC-35, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-39, "REAR RH: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

#### WHEN REAR POWER WINDOW SWITCH RH IS OPERATED

## WHEN REAR POWER WINDOW SWITCH RH IS OPERATED: Diagnosis Procedure

#### INFOID:0000000006825079

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

Check rear power winodw switch RH power supply and ground circuit.

Refer to PWC-31, "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 RH $\,$

Check rear power window switch RH.

Refer to PWC-35, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

#### WHEN POWER WINDOW MAIN SWITCH IS OPERATED

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

## < SYMPTOM DIAGNOSIS > WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure 1. CHECK REAR POWER WINDOW SWITCH RH В Check rear power window switch RH. Refer to PWC-35, "Diagnosis Procedure". Is the inspection result normal? C YES >> GO TO 2. >> Repair or replace the malfunctioning parts. NO 2. REPLACE POWER WINDOW MAIN SWITCH D • Replace power window main switch. Confirm the operation after replacement. Is the result normal? Е YES >> INSPECTION END >> Check intermittent incident. Refer to GI-51, "Intermittent Incident". NO F Н **PWC** M Ν

**PWC-51** Revision: 2010 November **LEAF** 

## 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:0000000006825081

## 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed. Refer to <a href="PWC-28">PWC-28</a>, "Work Procedure".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

## 2. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to PWC-41, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.REPLACE POWER WINDOW MAIN SWITCH

- · Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

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

## < SYMPTOM DIAGNOSIS > ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE) Α Diagnosis Procedure INFOID:0000000006825082 1. CHECK POWER WINDOW AUTO OPERATION В Check AUTO operation when anti-pinch function does not operate. Refer to PWC-52, "Diagnosis Procedure". C Is the inspection result normal? YES >> INSPECTION END NO >> GO TO 2. D 2.replace power window main switch • Replace power window main switch. Confirm the operation after replacement. Е Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-51, "Intermittent Incident". NO F Н J **PWC** M Ν

**PWC-53** Revision: 2010 November **LEAF** 

#### POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

#### < SYMPTOM DIAGNOSIS >

## POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

## Diagnosis Procedure

INFOID:0000000006825083

## 1. REPLACE POWER WINDOW MAIN SWITCH

- Replace power window main switch.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

#### POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE **PROPERLY**

#### < SYMPTOM DIAGNOSIS >

## POWER WINDOW RETAINED POWER OPERATION DOES NOT OPER-ATE PROPERLY Diagnosis Procedure INFOID:0000000006825597

## 1. CHECK FRONT DOOR SWITCH

Check front door switch. Refer to DLK-92, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.REPLACE BCM

- Replace BCM. Refer to BCS-76, "Removal and Installation".
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

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#### **POWER WINDOW MAIN SWITCH**

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

## POWER WINDOW MAIN SWITCH

#### Removal and Installation

#### **REMOVAL**

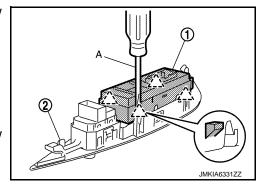
- 1. Remove power window main switch finisher. Refer to INT-13, "Removal and Installation".
- 2. Remove power window main switch (1) from power window main switch finisher (2) using flat-head screw driver (A).



#### **CAUTION:**

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

The same procedure is also performed for front power window switch (passenger side) and rear power window switch (LH & RH).



INFOID:0000000006825084

#### **INSTALLATION**

Install in the reverse order of removal.

#### NOTE:

If power window main switch is replaced or is removed, it is necessary to perform the initialization procedure. Refer to <a href="https://example.com/PWC-28">PWC-28</a>, "Work Procedure".