

SECTION **PWC**

POWER WINDOW CONTROL SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:000000011325957

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

INFOID:000000011325958

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

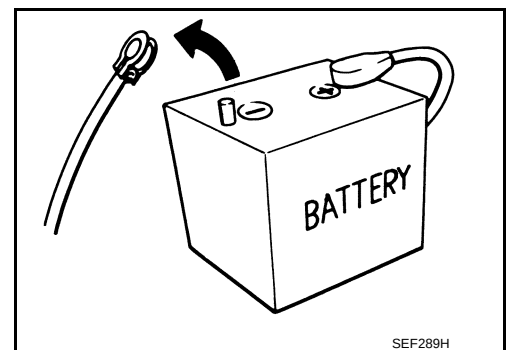
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



COMPONENT PARTS

< SYSTEM DESCRIPTION >

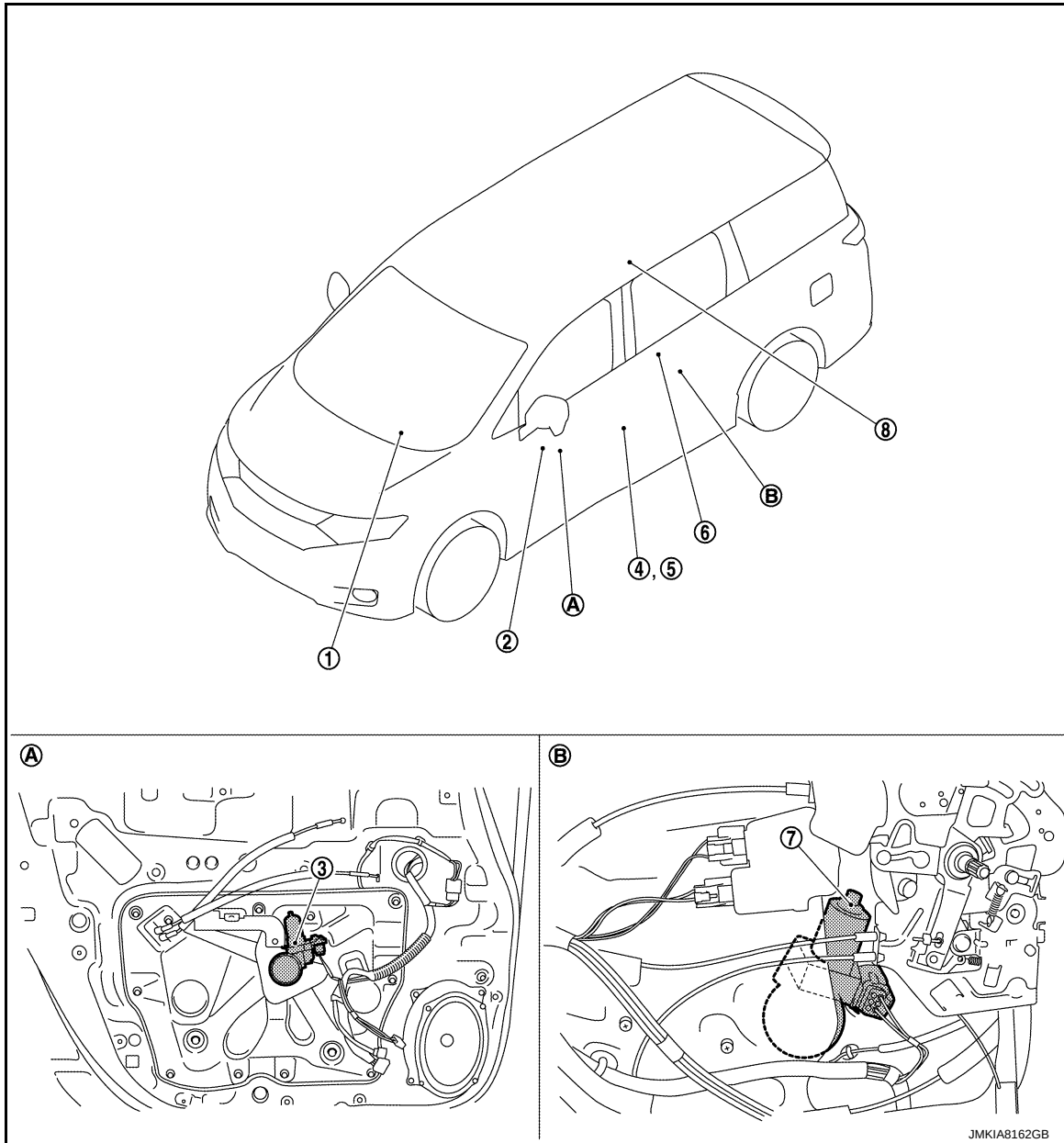
[FRONT WINDOW ANTI-PINCH]

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000011325959



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

No.	Component	Function
1.	BCM	- Supplies power supply to power window switch. - Controls retained power. - Receives key ID signal from remote keyless entry receiver. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
2.	Power window main switch	Refer to PWC-8, "Power Window Main Switch" .
3.	Front power window motor (driver side)	Refer to PWC-8, "Front Power Window Motor (Driver Side)" .

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

No.	Component	Function
4.	Front door switch (driver side)	Detects door open/close condition and transmits to BCM. Refer to DLK-28, "Front Door Switch" .
5.	Front door lock assembly (driver side) (key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch. Refer to DLK-28, "Front Door Lock Assembly (Driver Side)" .
6.	Sliding door power window switch LH	Refer to PWC-8, "Sliding Door Power Window Switch" .
7.	Sliding door power window motor LH	Refer to PWC-8, "Sliding Door Power Window Motor" .
8.	Remote keyless entry receiver	Receives key ID signal from the Intelligent Key, and then transmits to BCM. Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.

Power Window Main Switch

INFOID:0000000011325960

- Directly controls all power window motor of all doors.
- Controls anti-pinch operation of power window.

Front Power Window Motor (Driver Side)

INFOID:0000000011325961

- Integrates the encoder and power window motor.
- Operates with signals from power window main switch.
- Transmits front power window motor (driver side) rotation as a pulse signal to power window main switch.

Sliding Door Power Window Switch

INFOID:0000000011325962

Controls power window motor of sliding door.

Sliding Door Power Window Motor

INFOID:0000000011325963

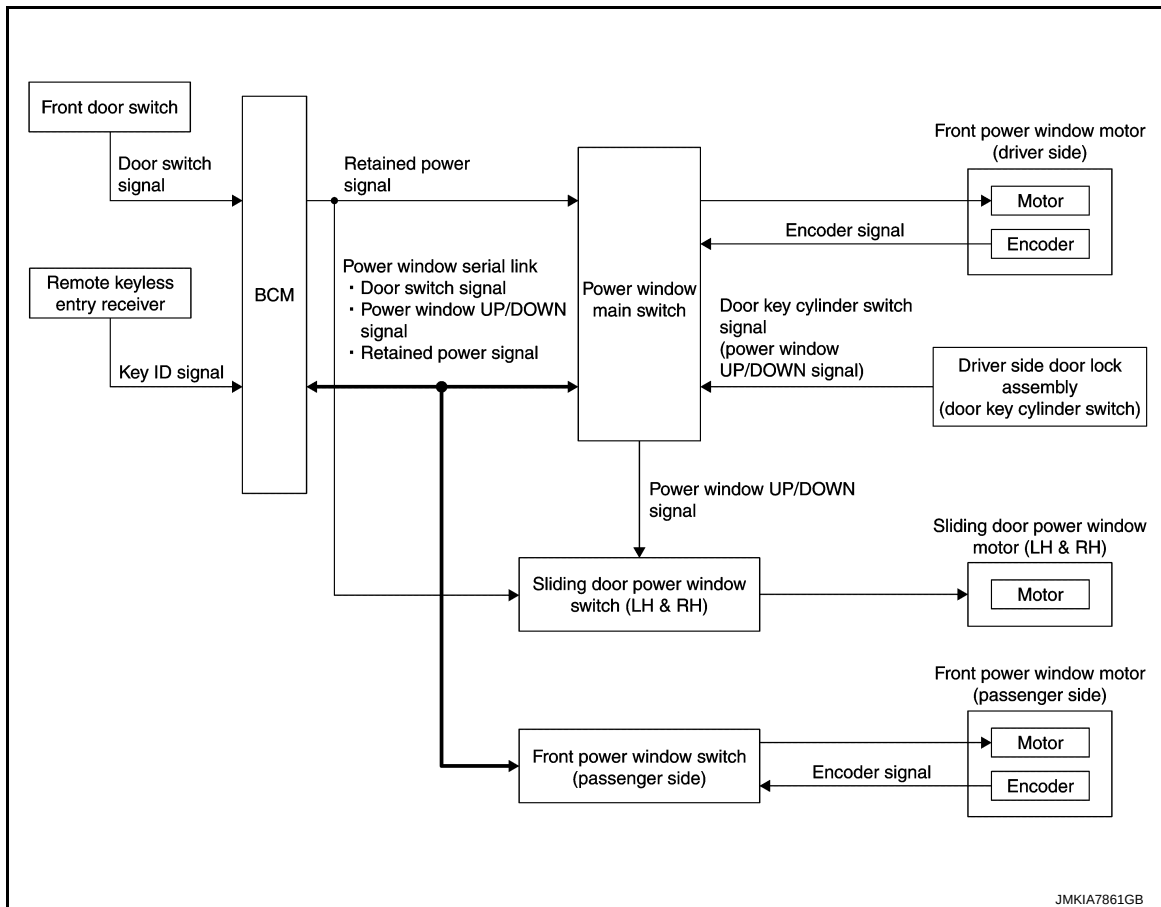
Operates with signals from power window main switch and sliding door power window switch.

SYSTEM

System Description

INFOID:0000000011325964

SYSTEM DIAGRAM



DESCRIPTION

- Power window system is activated by power window switch when ignition switch turns ON, or during the retained power operation after ignition switch turns OFF.
- Power window main switch opens/closes all door glass.
- Front and sliding door power window switch opens/closes the corresponding door glass.
- AUTO UP/DOWN operation can be performed when power window main switch or front power window switch (passenger side) turns to AUTO.
- Power window serial link transmits the signals from power window main switch to front power window switch (passenger side).
- Power window lock switch can lock all power windows other than driver seat.
- If door glass receives resistance that is the specified value or more while power window of front seat is in AUTO-UP operation, power window of front seat operates in the reverse direction.
- Hold the door key cylinder to the LOCK or UNLOCK direction for 1.5 seconds or more to OPEN or CLOSE front power windows when ignition switch OFF.
- Front power windows open when pressing Intelligent Key unlock button for 3 seconds.

Power Window AUTO-Operation

- AUTO UP/DOWN operation can be performed when power window main switch or front power window switch (passenger side) turns to AUTO.
- Encoder continues detecting the movement of power window motor and transmits the encoder pulse signal to power window switch while power window motor is operating.
- Power window switch reads the changes of encoder signal and stops AUTO operation when door glass is at the fully opened/closed position.
- Power window motor is operable if encoder is malfunctioning.

Retained Power Operation

SYSTEM

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

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

Retained Power Cancel Conditions

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

Power Window Lock Function

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

Power Window Serial Link

- Power window main switch, front power window switch (passenger side), and BCM transmit and receive the signal by power window serial link.
- Power window serial link transmits the power window main switch operation signals and retained power signal to power window main switch module and front power window switch (passenger side) module.

Anti-Pinch Operation

- Pinch foreign matter 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) or for 2 seconds when detected.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Resistance is applied to the power window motor rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window switch controls to lower the door glass for 150 mm (5.9 in) after it detects encoder pulse signal frequency change.

Operation Condition

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

NOTE:

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

Door Key Cylinder Switch Operation

Hold the door key cylinder to the LOCK or UNLOCK direction for 1.5 seconds or more to OPEN or CLOSE front power windows when ignition switch is OFF. In addition, it stops when key position is moved to NEUTRAL when operating.

Operation Conditions

- Ignition switch OFF.
- Hold door key cylinder to LOCK position for 1.5 seconds or more to perform CLOSE operation of the door glass.
- Hold door key cylinder to UNLOCK position for 1.5 seconds or more to perform OPEN operation of the door glass.

Keyless Power Window Down Operation

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

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

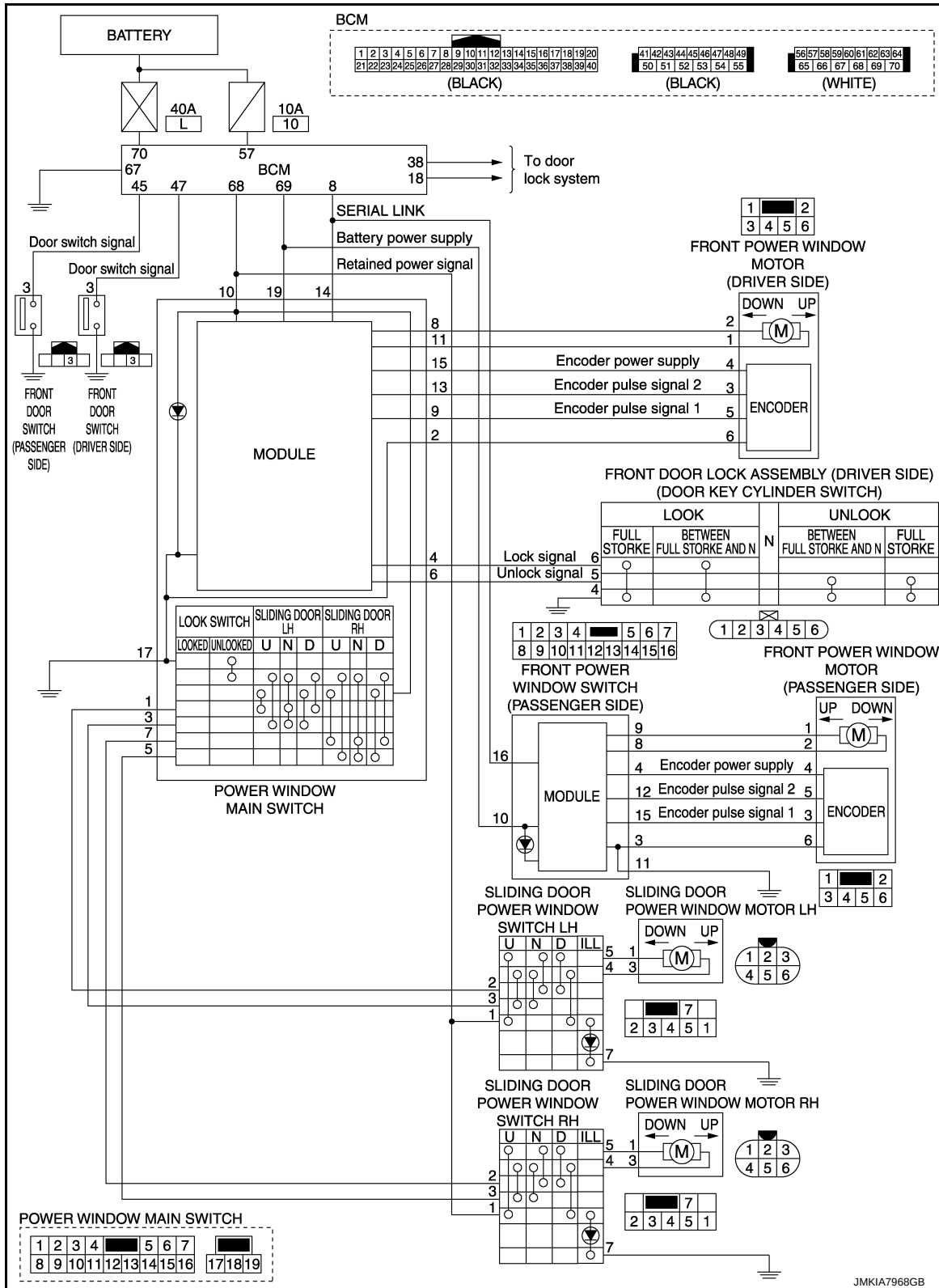
- When the unlock button is kept pressed more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

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

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUPPORT". Refer to [DLK-95. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Circuit Diagram

INFOID:000000011325965



Fail-safe

INFOID:000000011325966

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 >

[FRONT WINDOW ANTI-PINCH]

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 malfunction	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 switch (passenger side) front power window motor (driver side/passenger side).

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011561364

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	AIR CONDITONER		×	×*
- Intelligent Key system - Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS	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	×	×	×

NOTE:

*: For models with automatic air conditioning control system, this diagnosis mode is 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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

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	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	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 RUN to ACC (Except emergency stop operation)
	CRANK>RUN		While turning power supply position from CRANK to RUN
	RUN>URGENT		While turning power supply position from RUN to ACC (Emergency stop operation)
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)
	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 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 RUN
	CRANKING		Power supply position is CRANK
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

NOTE:

*: Refer to the following for details of the power supply position.

- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition 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 push-button ignition switch (push switch) is pushed at "OFF (LOCK)".

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR) (Front Window Anti-

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

pinch)

INFOID:0000000011325968

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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.

A

B

C

D

E

F

G

H

I

J

PWC

L

M

N

O

P

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000011325969

ECU	Reference
BCM	BCS-40, "Reference Value"
	BCS-62, "Fail-safe"
	BCS-62, "DTC Inspection Priority Chart"
	BCS-63, "DTC Index"

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

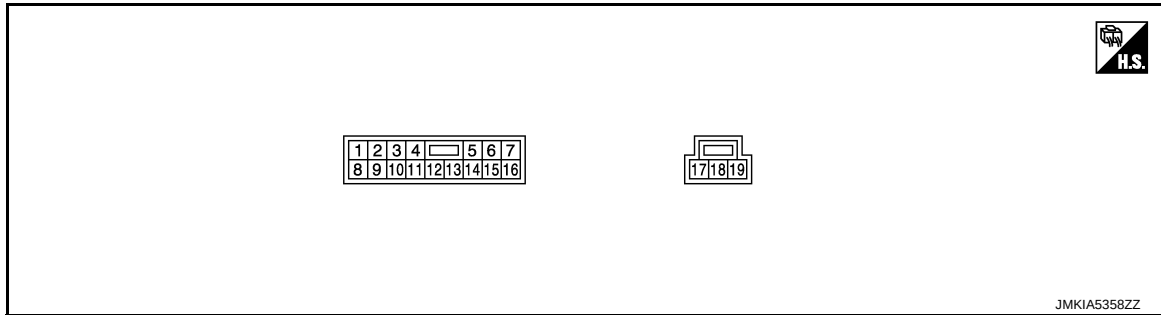
[FRONT WINDOW ANTI-PINCH]

POWER WINDOW MAIN SWITCH

Reference Value

INFOID:0000000011325970

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output		
1 (O)	Ground	Sliding door power window motor LH UP signal	Output	When sliding door LH switch in power window main switch is in UP operation.	9 - 16
2 (W)	Ground	Encoder ground	—	—	0 - 1
3 (BR)	Ground	Sliding door power window motor LH DOWN signal	Output	When sliding door LH switch in power window main switch is in DOWN operation.	9 - 16
4 (P)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral → Locked)	4 - 6 → 0 - 1.5
5 (SB)	Ground	Sliding door power window motor RH DOWN signal	Output	When sliding door RH switch in power window main switch is in DOWN operation.	9 - 16
6 (GR)	Ground	Door key cylinder switch UNLOCK signal	Input	Key position (Neutral → Unlocked)	4 - 6 → 0 - 1.5
7 (P)	Ground	Sliding door power window motor RH UP signal	Output	When sliding door RH switch in power window main switch is in UP operation.	9 - 16
8 (L)	Ground	Front power window motor (driver side) UP signal	Output	When front LH switch in power window main switch is in UP operation.	9 - 16
9 (SB)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	

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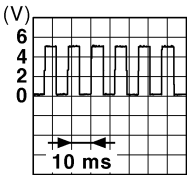
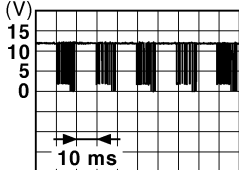
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P

PWC

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Terminal No. (wire color)		Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output		
10 (V)	Ground	Retained power signal	Input	Ignition switch ON	9 – 16
				Within 45 seconds after ignition switch is turned to OFF.	9 – 16
				When driver side or passenger side door is opened during retained power operation.	0 – 1
11 (LG)	Ground	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is in DOWN operation.	9 – 16
13 (Y)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	 JMKIA0070GB
14 (BR)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating.	 JPMIA0013GB
15 (R)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	9 – 16
17 (B)	Ground	Ground	—	—	0 – 1
19 (LG)	Ground	Battery power supply	Input	—	9 – 16

Fail-safe

INFOID:000000011561361

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 malfunction	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.

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

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 switch (passenger side) front power window motor (driver side/passenger side).

A

B

C

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PWC

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FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

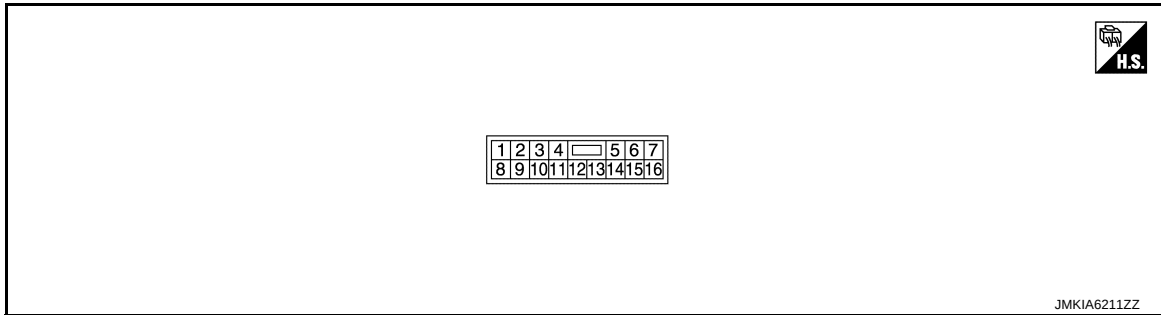
[FRONT WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH

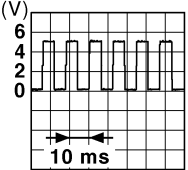
Reference Value

INFOID:000000011325972

TERMINAL LAYOUT



PHYSICAL VALUES

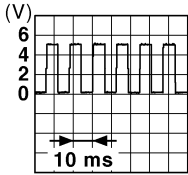
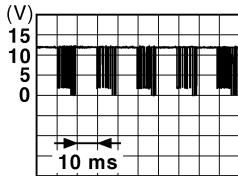
Terminal No. (wire color)		Description		Condition	Voltage (V)
+	–	Signal name	Input/ Output		
3 (BR)	Ground	Encoder ground	—	—	0 – 1
4 (SB)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	9 – 16
8 (Y)	Ground	Front power window motor (passenger side) UP signal	Output	When front power window switch (passenger side) is in UP operation.	9 – 16
9 (G)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front power window switch (passenger side) is in DOWN operation.	9 – 16
10 (V)	Ground	Battery power supply	Input	—	9 – 16
11 (W)	Ground	Ground	—	—	0 – 1
12 (O)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	

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FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Terminal No. (wire color)		Description		Condition	Voltage (V)
+	–	Signal name	Input/ Output		
15 (R)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	
16 (L)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating.	

Fail-safe

INFOID:0000000011561362

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 malfunction	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.

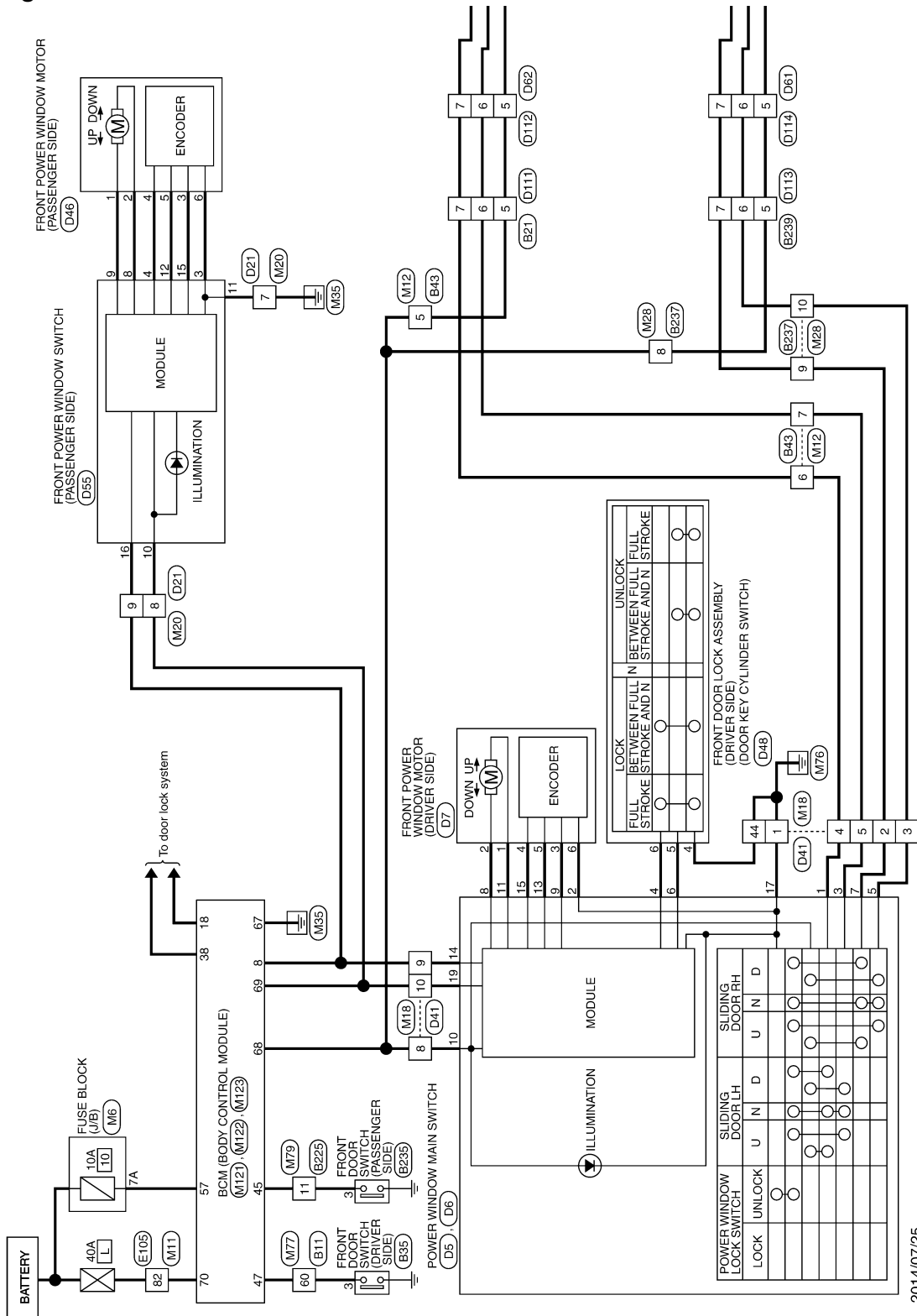
- Auto-up operation
- Anti-pinch function

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 switch (passenger side) front power window motor (driver side/passenger side).

[FRONT WINDOW ANTI-PINCH]

Wiring Diagram

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

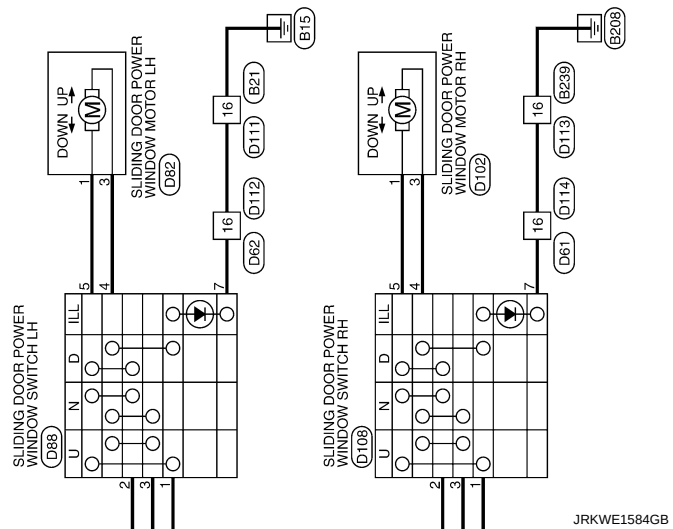


2014/07/25

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]



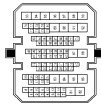
POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



76	G	-
78	CS	-
80	BR	-
81	SB	-
82	V	-
87	G	-
88	V	-
89	G	-
90	Y	-
91	LG	-
92	L	-



Connector No.	B35
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH44FW-NH



Connector No.	B225
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



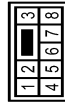
Terminal No.	Color Of Wire	Signal Name [Specification]
12	GR	-
13	P	-
15	L	-
29	GR	-
30	W	-
31	P	-
37	SHIELD	-
38	R	-
39	B	-
40	W	-
51	Y	-
52	B	-
53	G	-
54	P	-
55	L	-
57	Y	-
58	L	-
59	GR	-
60	Y	-
61	Y	-
62	BR	-
63	L	-
64	W	-
65	R	-
66	SHIELD	-
67	B	-
68	W	-
69	SHIELD	-
70	W/R	-
71	B/R	-
72	BR	-
74	L	-
75	SB	-
77	V	-

Connector No.	B21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-

Connector No.	B43
Connector Name	WIRE TO WIRE
Connector Type	NS8BMW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [Without BOSE system]
2	R	- [Without BOSE system]
2	Y	- [Without BOSE system]
5	Y	-
6	BR	-
7	LG	-
8	L	-
9	SB	-
10	Y	-
11	G	-
14	SB	-
15	V	-
16	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-
3	LG	-
4	B	-
5	Y	-
6	LG	-
7	BR	-
8	V	-

Connector No.	B225
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH44FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-

JRKWE1585GB

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

Connector No.	B237
Connector Name	WIRE TO WIRE
Connector Type	NS16MGY-CS



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

9	G	-
8	GB	-
7	R	-
6	G	-
5	O	-
4	L	-
3	P	-
2	LG	-
1	GR	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03PW-CS



17	18	19
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Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS13



15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	GR	-
5	LG	- [With manual A/G]
6	P	- [With auto A/G]
7	G	-
8	Y	-
9	SB	-
10	O	-
11	LG	-
12	P	-
14	R	-
15	W	-
16	G	-



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16PW-CS



1	2	3	4		5	6	7	
8	9	10	11	12	13	14	15	16

Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
18	G	-
19	Y	-

Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	V	-
9	BR	- [With manual A/G]
10	W	- [With auto A/G]
11	LG	-
12	BR	-
14	B	- [Without BOSE system]
14	R	- [With BOSE system]
15	L	- [Without BOSE system]
15	W	- [With BOSE system]
16	P	-
17	GR	-
18	R	-
19	W	-
20	V	-
22	B	-
23	W	-
24	SHIELD	-
25	Y	-
26	L	-
36	P	-
37	G	-
38	W	-
39	LG	-
40	B	-
41	GR	-
42	G	-
43	R	-
44	S	-
46	GR	-
50	W	-
51	R	-
52	G	-
53	SHIELD	-
54	B	-

Connector No.	D7
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	NS06PW-CS



1	2
	6
3	4 5

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	BR	-
4	G	-
5	SB	-
6	GR	-
7	V	-
8	L	-
9	W	-
10	GR	-
11	Y	-
12	LG	-
13	GR	-
14	R	-
15	G	-
16	L	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	Y	- [With manual A/G]
3	L	- [With auto A/G]
4	G	-
5	GR	-
6	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [Without BOSE system]
1	W	- [With BOSE system]
2	B	- [Without BOSE system]
2	Y	- [With BOSE system]
5	Y	-



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Connector No.	B239
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

JRKWE1586GB

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

35	W	-	6	GR	-	61	WIRE TO WIRE	NS16FW-CS	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8
32	G	-				62	WIRE TO WIRE	NS16FW-CS	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8
33	P	-							
34	W	-							
35	G	-							
36	P	-							
37	G	-							
38	W	-							
39	LG	-							
40	GR	-							
41	GR	-							
42	G	-							
43	R	-							
44	B	-							
45	G	-							
46	GR	-							
47	GR	-							
48	B	-							
49	R	-							
50	G	-							
51	P	-							
52	G	-							
53	W	-							
54	B	-							
55	W	-							
56	W	-							
57	R	-							
58	G	-							
59	P	-							
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61	GR	-							
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255	W	-							
256	W	-							
257	W	-							
258	W	-							
259	W	-							
260									

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

7	SB	-	Connector No.	D102	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D111	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D113	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D114	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D115	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D116	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D117	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D118	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D119	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D120	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D121	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D122	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D123	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D124	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D125	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D126	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D127	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D128	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D129	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D130	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D131	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D132	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D133	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D134	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D135	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D136	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D137	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D138	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D139	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D140	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D141	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D142	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D143	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D144	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D145	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D146	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D147	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D148	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D149	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D150	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D151	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D152	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D153	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D154	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D155	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D156	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D157	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D158	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D159	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D160	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D161	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D162	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D163	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D164	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D165	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D166	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D167	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D168	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D169	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D170	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D171	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D172	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D173	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D174	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D175	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D176	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D177	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D178	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D179	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D180	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D181	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D182	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D183	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D184	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D185	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D186	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D187	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D188	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D189	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D190	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D191	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D192	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D193	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D194	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D195	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D196	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D197	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D198	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D199	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D200	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D201	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D202	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D203	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D204	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D205	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D206	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D207	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D208	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D209	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D210	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D211	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D212	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D213	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D214	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D215	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D216	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D217	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D218	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D219	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D220	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D221	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D222	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D223	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D224	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D225	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D226	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D227	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D228	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D229	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D230	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D231	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D232	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D233	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D234	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D235	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D236	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D237	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D238	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D239	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D240	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D241	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D242	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D243	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D244	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D245	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D246	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D247	Signal Name 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[Specification]	Connector No.	D267	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D268	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D269	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D270	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D271	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D272	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D273	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D274	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D275	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D276	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D277	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D278	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D279	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D280	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D281	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D282	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D283	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D284	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D285	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D286	Signal Name 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No.	D296	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D297	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D298	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D299	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D300	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D301	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D302	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D303	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D304	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D305	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D306	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D307	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D308	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D309	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D310	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D311	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D312	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D313	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D314	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D315	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D316	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D317	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D318	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D319	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D320	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D321	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D322	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D323	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D324	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D325	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D326	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D327	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D328	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D329	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D330	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D331	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D332	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D333	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D334	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D335	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D336	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D337	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D338	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D339	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D340	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D341	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D342	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D343	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D344	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D345	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D346	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D347	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D348	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D349	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D350	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D351	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D352	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D353	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D354	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D355	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D356	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D357	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D358	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D359	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D360	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D361	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D362	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D363	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D364	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D365	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D366	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	D367	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
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POWER WINDOW SYSTEM

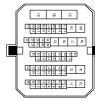
< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
5	BR	-
6	BR	-
7	G	-
8	R	-
9	R	-
10	Y	-
11	Y	-
14	GR	-
15	GR	-
16	P	-

Connector No.	E 103
Connector Name	WIRE TO WIRE
Connector Type	TH7DMW-CS10-M3



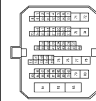
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	B	-
4	R	-
6	LG	-
7	R	-
8	GR	-
9	V	-
10	BR	-
11	Y	-
12	O	-
13	W	-
14	P	-
15	P	-
31	GR	-
32	V	-
37	BR	-
38	G	-
39	V	-
40	P	-



Connector No.	M6
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS50FW-M2

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	GR	-
5A	V	-
6A	R	-
7A	GR	-
8A	L	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH7DFW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	B	-
4	R	-
6	G	-
7	R	-
8	G	-
9	B	-
10	R	-
11	W	-
12	L	-
13	LG	-
14	Y	-
15	L	-
16	R	-
32	LG	-
37	BR	-
38	R	-
39	BE	-
39	Y	-
40	P	-



Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	NS50BFW-CS

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

Terminal No.	Color Of Wire	Signal Name [Specification]
22	G	-
23	G	-
24	B	-
25	W	-
26	W	-
27	Y	-
28	SHIELD	-
29	W	-
30	R	-
31	W	-
32	G	-
33	BE	-
34	P	-
35	W	-
36	LG	-
37	P	-
38	R	-
39	V	-
40	R	-
41	B	-
42	W	-
43	G	-
44	B	-
45	GR	-
46	R	-
47	GR	-
48	GR	-
49	R	-
50	GR	-
51	B	-
52	GR	-
53	P	-
54	W	-
55	B	-

Connector No.	Signal Name [Specification]
M18	-
WIRE TO WIRE	-
TH40MW-CS15	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	V	-
5	SB	-
6	LG	-
7	V	-
8	L	-
9	GR	-
10	Y	-
11	V	-
12	G	-
13	G	-
14	B	-
15	W	-
16	W	-
17	BE	-
18	P	-
19	W	-
20	LG	-
21	P	-

Connector No.	Signal Name [Specification]
M20	-
WIRE TO WIRE	-
TH40MW-CS15	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	Y	-
9	GR	-
10	LG	-
11	SB	-
12	V	-
13	L	-
14	B	-
15	LG	-
16	G	-
17	P	-
18	R	-
19	LG	-
20	B	-
21	W	-
22	SHIELD	-
23	B	-
24	W	-
25	B	-
26	W	-
27	LG	-
28	W	-
29	P	-
30	Y	-
31	B	-
32	BE	-
33	R	-
34	GR	-
35	W	-
36	W	-
37	SHIELD	-
38	P	-
39	W	-
40	B	-
41	GR	-
42	BE	-
43	R	-
44	GR	-
45	W	-
46	W	-
47	SHIELD	-
48	B	-
49	W	-
50	W	-
51	B	-
52	GR	-
53	P	-
54	W	-
55	B	-

Connector No.	Signal Name [Specification]
M28	-
WIRE TO WIRE	-
TH80FY-CS	-

7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8	7	6	5	4	3
2	1	0	9	8	7	6

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	BR	-
4	SB	-
5	R	-
6	L	-
7	G	-
8	L	-
9	R	-
10	W	-
11	G	-
12	V	-
13	BE	-
14	W	-
15	Y	-
16	Y	-

Connector No.	Signal Name [Specification]
M77	-
WIRE TO WIRE	-
TH80FY-CS18	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Terminal No.	Color Of Wire	Signal Name [Specification]
10	P	-
12	BE	-
13	W	-

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH FRONT POWER WINDOW ANTI-PINCH SYSTEM)

Terminal No.	Color	Wire	Signal Name [Specification]
15	R	-	-
20	P	-	-
30	P	-	-
31	BE	-	-
37	SHIELD	-	-
38	B	-	- [Without around view monitor]
38	W	-	- [With around view monitor]
39	B	-	- [Without around view monitor]
39	W	-	- [With around view monitor]
40	R	-	-
51	LG	-	-
52	B	-	-
53	BE	-	-
54	P	-	-
55	Y	-	-
56	Y	-	-
57	Y	-	-
58	L	-	-
59	BE	-	-
60	G	-	-
61	LG	-	-
62	SB	-	-
63	BE	-	-
64	R	-	-
65	G	-	-
66	SHIELD	-	-
67	B	-	-
68	W	-	-
69	W	-	-
70	B	-	-
71	W	-	-
72	G	-	-
74	GR	-	-
75	G	-	-
77	W	-	-
78	R	-	-
79	W	-	-
80	G	-	-
81	L	-	-
82	W	-	-
87	V	-	-
88	LG	-	-
89	GR	-	-
90	Y	-	- [With automatic drive positioner]
90	Y	-	- [Without automatic drive positioner]
91	LG	-	-
92	BR	-	-

Connector No.	Wire	Signal Name [Specification]
M79	WIRE TO WIRE	TH16FW-NH

Terminal No.	Color	Wire	Signal Name [Specification]
8	Y	GR	KEY CYL LOCK SW [With manual A/C]
9	GR	GR	STOP LAMP SW
12	GR	GR	DOOR LK & UNLK SW LOCK
13	BR	BR	DOOR LK & UNLK SW UNLOCK
14	L	L	OPTICAL SENS
15	W	W	REAR WINDOW DEF SW
16	Y	Y	DIMMER
17	O	O	SENSE PWR SPLY
18	GR	GR	RECEIV/SENS GND
21	GR	GR	NATS ANT AMP
23	W	W	SECURITY IND CONT
24	B	B	DONGLE UNLK
25	P	P	NATS ANT AMP
27	G	G	A/C ON
28	GR	GR	BLUETOOTH ON
29	P	P	MAZDA SW
30	L	L	BK DOOR OPNR SW
31	G	G	DR DOOR UNLK SENS
32	R	R	COMBI SW OUTPUT 5
33	W	W	COMBI SW OUTPUT 4
34	P	P	COMBI SW OUTPUT 3
35	GR	GR	COMBI SW OUTPUT 2
36	R	R	COMBI SW OUTPUT 1
37	G	G	DETENT SW
38	BE	BE	RECEIVER COMM
39	L	L	CAN-H
40	P	P	CAN-L

Terminal No.	Color	Wire	Signal Name [Specification]
1	R	-	-
2	B	-	-
3	P	-	-
4	P	-	-
5	BR	-	-
9	L	-	-
10	P	-	-
11	W	-	-
12	R	-	-
13	BE	-	-
14	W	-	-
15	G	-	-
16	P	-	-

Connector No.	Wire	Signal Name [Specification]
M121	BCM (BODY CONTROL MODULE)	TH40FB-NH

Terminal No.	Color	Wire	Signal Name [Specification]
1	R	-	-
2	B	-	-
3	P	-	-
4	P	-	-
5	BR	-	-
9	L	-	-
10	P	-	-
11	W	-	-
12	R	-	-
13	BE	-	-
14	W	-	-
15	G	-	-
16	P	-	-

Terminal No.	Color	Wire	Signal Name [Specification]
1	R	-	-
2	B	-	-
3	P	-	-
4	P	-	-
5	BR	-	-
9	L	-	-
10	P	-	-
11	W	-	-
12	R	-	-
13	BE	-	-
14	W	-	-
15	G	-	-
16	P	-	-

Connector No.	Wire	Signal Name [Specification]
M79	WIRE TO WIRE	TH16FW-NH

Terminal No.	Color	Wire	Signal Name [Specification]
8	Y	GR	KEY CYL LOCK SW [With manual A/C]
9	GR	GR	STOP LAMP SW
12	GR	GR	DOOR LK & UNLK SW LOCK
13	BR	BR	DOOR LK & UNLK SW UNLOCK
14	L	L	OPTICAL SENS
15	W	W	REAR WINDOW DEF SW
16	Y	Y	DIMMER
17	O	O	SENSE PWR SPLY
18	GR	GR	RECEIV/SENS GND
21	GR	GR	NATS ANT AMP
23	W	W	SECURITY IND CONT
24	B	B	DONGLE UNLK
25	P	P	NATS ANT AMP
27	G	G	A/C ON
28	GR	GR	BLUETOOTH ON
29	P	P	MAZDA SW
30	L	L	BK DOOR OPNR SW
31	G	G	DR DOOR UNLK SENS
32	R	R	COMBI SW OUTPUT 5
33	W	W	COMBI SW OUTPUT 4
34	P	P	COMBI SW OUTPUT 3
35	GR	GR	COMBI SW OUTPUT 2
36	R	R	COMBI SW OUTPUT 1
37	G	G	DETENT SW
38	BE	BE	RECEIVER COMM
39	L	L	CAN-H
40	P	P	CAN-L

Connector No.	Wire	Signal Name [Specification]
M122	BCM (BODY CONTROL MODULE)	FEA09FB-FH46-SA

Terminal No.	Color	Wire	Signal Name [Specification]
50	Y	GR	KEY CYL LOCK SW [With manual A/C]
51	GR	GR	STOP LAMP SW
52	GR	GR	DOOR LK & UNLK SW LOCK
53	BR	BR	DOOR LK & UNLK SW UNLOCK
54	L	L	OPTICAL SENS
55	W	W	REAR WINDOW DEF SW
56	Y	Y	DIMMER
57	O	O	SENSE PWR SPLY
58	GR	GR	RECEIV/SENS GND
59	W	W	SECURITY IND CONT
60	B	B	DONGLE UNLK
61	P	P	NATS ANT AMP
62	G	G	A/C ON
63	GR	GR	BLUETOOTH ON
64	P	P	MAZDA SW
65	L	L	BK DOOR OPNR SW
66	G	G	DR DOOR UNLK SENS
67	R	R	COMBI SW OUTPUT 5
68	W	W	COMBI SW OUTPUT 4
69	P	P	COMBI SW OUTPUT 3
70	GR	GR	COMBI SW OUTPUT 2
71	R	R	COMBI SW OUTPUT 1
72	G	G	DETENT SW
73	BE	BE	RECEIVER COMM
74	L	L	CAN-H
75	P	P	CAN-L

Terminal No.	Color	Wire	Signal Name [Specification]
50	Y	GR	KEY CYL LOCK SW [With manual A/C]
51	GR	GR	STOP LAMP SW
52	GR	GR	DOOR LK & UNLK SW LOCK
53	BR	BR	DOOR LK & UNLK SW UNLOCK
54	L	L	OPTICAL SENS
55	W	W	REAR WINDOW DEF SW
56	Y	Y	DIMMER
57	O	O	SENSE PWR SPLY
58	GR	GR	RECEIV/SENS GND
59	W	W	SECURITY IND CONT
60	B	B	DONGLE UNLK
61	P	P	NATS ANT AMP
62	G	G	A/C ON
63	GR	GR	BLUETOOTH ON
64	P	P	MAZDA SW
65	L	L	BK DOOR OPNR SW
66	G	G	DR DOOR UNLK SENS
67	R	R	COMBI SW OUTPUT 5
68	W	W	COMBI SW OUTPUT 4
69	P	P	COMBI SW OUTPUT 3
70	GR	GR	COMBI SW OUTPUT 2
71	R	R	COMBI SW OUTPUT 1
72	G	G	DETENT SW
73	BE	BE	RECEIVER COMM
74	L	L	CAN-H
75	P	P	CAN-L

Terminal No.	Color	Wire	Signal Name [Specification]
50	Y	GR	KEY CYL LOCK SW [With manual A/C]
51	GR	GR	STOP LAMP SW
52	GR	GR	DOOR LK & UNLK SW LOCK
53	BR	BR	DOOR LK & UNLK SW UNLOCK
54	R	R	REAR WIPER OUTPUT
55	G	G	SL DOOR LH UNLK CONT

Connector No.	Wire	Signal Name [Specification]
M123	BCM (BODY CONTROL MODULE)	FEA09FW-FH46-SA

Terminal No.	Color	Wire	Signal Name [Specification]
56	Y	GR	KEY CYL LOCK SW [With manual A/C]
57	GR	GR	STOP LAMP SW
58	GR	GR	DOOR LK & UNLK SW LOCK
59	BR	BR	DOOR LK & UNLK SW UNLOCK
60	R	R	REAR WIPER OUTPUT
61	G	G	SL DOOR LH UNLK CONT

Terminal No.	Color	Wire	Signal Name [Specification]
56	P	P	INT ROOM LAMP PWR SPLY
57	Y	Y	BAT
58	O	O	AIR BAG
59	SB	SB	PASS DOOR UNLK OUTPUT
60	V	V	TURN SIG LH OUTPUT
61	G	G	TURN SIG RH OUTPUT
62	W	W	STEP LAMP CONT
63	W	W	INT ROOM LAMP CONT
64	W	W	GRANK REG
65	V	V	ALL DOOR LOCK OUTPUT
66	G	G	DR DOOR UNLK OUTPUT
67	B	B	GROUND
68	L	L	PW PWR SPLY (IGN)
69	P	P	PW PWR SPLY (BAT)
70	L	L	BAT

JRKWE1591GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011325975

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4.IDENTIFY MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

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PWC

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:0000000011325976

When the 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

INFOID:0000000011325977

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to [PWC-34, "Work Procedure"](#).

>> GO TO 2.

2.CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to [PWC-35, "Work Procedure"](#).

>> END

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW SWITCH

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW SWITCH

Description

INFOID:0000000011325978

When the power window main switch or front power window switch (passenger side) replaced, 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

INFOID:0000000011325979

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to [PWC-34. "Work Procedure"](#).

>> GO TO 2.

2.CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to [PWC-35. "Work Procedure"](#).

>> END

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PWC

SYSTEM INITIALIZATION

Description

INFOID:0000000011325980

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

- Disconnection and connection of battery cable from negative terminal.
- When power window main switch or front power window switch (passenger side) replaced.
- Electric power supply to power window main switch or front power window switch (passenger side) or power window motor (driver side/passenger side) is interrupted by blown fuse or disconnection and connection of the negative terminal of battery, etc.
- Disconnection and connection of power window main switch or front power window switch (passenger side) harness connector.
- Removal of power window motor (driver side/passenger 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

INFOID:0000000011325981

1.STEP 1

-
1. Turn ignition 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-35, "Work Procedure"](#).

>> END

CHECK ANTI-PINCH FUNCTION

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

CHECK ANTI-PINCH FUNCTION

Description

INFOID:0000000011325982

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

- Disconnection and connection of battery cable from negative terminal.
- When power window main switch or front power window switch (passenger side) replaced.
- Electric power supply to power window main switch or front power window switch (passenger side) or power window motor (driver side/passenger side) is interrupted by blown fuse or disconnection and connection of the negative terminal of battery, etc.
- Disconnection and connection of power window main switch or front power window switch (passenger side) harness connector.
- Removal of power window motor (driver side/passenger 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:0000000011325983

1.CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
2. Place a piece of wood near fully closed position.
3. Close door glass completely with AUTO-UP.
4. 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 or front power window switch (passenger side) 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.

>> END

PWC

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000011325984

1.CHECK POWER SUPPLY

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

(+) Power window main switch		(-)	Condition		Voltage (V)
Connector	Terminal				
D5	10	Ground	Ignition switch	ON	9 – 16
D6	19			OFF	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	68	D5	10	Existed
	69	D6	19	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	68		Not existed
	69		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D6	17		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 WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:0000000011325985

1.CHECK POWER SUPPLY

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

(+)		(-)	Voltage (V)
Front power window switch (passenger side)			
Connector	Terminal		
D55	10	Ground	9 – 16

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and front power window switch (passenger side) harness connector.

BCM		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M123	69	D55	10	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	69		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D55	11		Existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace harness.

SLIDING DOOR POWER WINDOW SWITCH

SLIDING DOOR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:0000000011325986

1.CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect sliding door power window switch connectors.
3. Turn ignition switch ON.
4. Check voltage between sliding door power window switch harness connector and ground.

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PWC

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

(+)		Terminal	(-)	Voltage (V)
Sliding door power window switch				
Connector				
LH	D88	1	Ground	9 – 16
RH	D108			

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

BCM		Sliding door power window switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	68	LH	D88	1 Existed
		RH	D108	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	68		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

NO >> Repair or replace harness.

SLIDING DOOR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

SLIDING DOOR POWER WINDOW SWITCH

Component Function Check

INFOID:0000000011325987

1. CHECK FUNCTION

Check sliding door power window motor operation with sliding door power window switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-39, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011325988

1.CHECK SLIDING DOOR POWER WINDOW SWITCH INPUT SIGNAL

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

(+)			(-)	Condition		Voltage (V)
Sliding door power window switch						
Connector		Terminal				
LH	D88	2	Ground	Power window main switch (sliding door LH side)	NEUTRAL	0 – 1
					UP	9 – 16
		3			NEUTRAL	0 – 1
					DOWN	9 – 16
RH	D108	2		Power window main switch (sliding door RH side)	NEUTRAL	0 – 1
					UP	9 – 16
		3			NEUTRAL	0 – 1
					DOWN	9 – 16

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING DOOR POWER WINDOW SWITCH CIRCUIT

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

Sliding door power window switch			Power window main switch		Continuity
Connector		Terminal	Connector	Terminal	
LH	D88	2	D5	1	Existed
		3		3	
RH	D108	2		7	
		3		5	

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

SLIDING DOOR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Sliding door power window switch			Ground	Continuity
Connector		Terminal		
LH	D88	2		Not existed
		3		
RH	D108	2		
		3		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK SLIDING DOOR POWER WINDOW SWITCH

Check sliding door power window switch.

Refer to [PWC-40, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> Replace sliding door power window switch. Refer to [PWC-69, "Removal and Installation"](#).

Component Inspection

INFOID:0000000011325989

1.CHECK SLIDING DOOR POWER WINDOW SWITCH

1. Turn ignition switch OFF.
2. Disconnect sliding door power window switch connector.
3. Check sliding door power window switch terminals under the following conditions.

Sliding door power window switch		Condition	Continuity
Terminal			
1	5	UP	Existed
3	4		
2	5	NEUTRAL	
3	4		
1	4	DOWN	
2	5		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door power window switch. Refer to [PWC-69, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011325990

1. CHECK FUNCTION

Check front power window motor (driver side) operation with power window main switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-41. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011325991

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front power window motor (driver side) connector.
3. Turn ignition 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)
Connector	Terminal				
D7	1	Ground	Power window main switch (driver side)	NEUTRAL	0 – 1
				DOWN	9 – 16
	2			NEUTRAL	0 – 1
				UP	9 – 16

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to [GW-29. "Removal and Installation"](#).

NO >> GO TO 2.

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

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

Front power window motor (driver side)		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D7	1	D5	11	Existed
	2		8	

4. Check continuity between front power window motor (driver side) harness connector and ground.

Front power window motor (driver side)		Ground	Continuity
Connector	Terminal		
D7	1		Not existed
	2		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-68. "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

PASSENGER SIDE : Component Function Check

INFOID:000000011325992

1. CHECK FUNCTION

Check front power window motor (passenger side) operation with power window main switch or front power window switch (passenger side).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-42, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011325993

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

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

(+) Front power window motor (passenger side)		(-)	Condition		Voltage (V)
Connector	Terminal				
D46	1	Ground	Front power window switch (passenger side)	NEUTRAL	0 – 1
				DOWN	9 – 16
	2			NEUTRAL	0 – 1
				UP	9 – 16

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to [GW-29, "Removal and Installation"](#).

NO >> GO TO 2.

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

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

Front power window motor (passenger side)		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D46	1	D55	9	Existed
	2		8	

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

Front power window motor (passenger side)		Ground	Continuity
Connector	Terminal		
D46	1		Not existed
	2		

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to [PWC-68, "Removal and Installation"](#).

NO >> Repair or replace harness.

SLIDING DOOR LH

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

SLIDING DOOR LH : Component Function Check

INFOID:0000000011325994

1.CHECK FUNCTION

Check sliding door power window motor LH operation with power window main switch or sliding door power window switch LH.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-43, "SLIDING DOOR LH : Diagnosis Procedure"](#).

SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011325995

1.CHECK SLIDING DOOR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+) Sliding door power window motor LH		(-)	Condition		Voltage (V)
Connector	Terminal				
D82	1	Ground	Sliding door power window switch LH	NEUTRAL	0 – 1
				UP	9 – 16
	3			NEUTRAL	0 – 1
				DOWN	9 – 16

Is the inspection result normal?

YES >> Replace sliding door power window motor LH.

NO >> GO TO 2.

2.CHECK SLIDING DOOR POWER WINDOW MOTOR LH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sliding door power window switch LH connector.
3. Check continuity between sliding door power window motor LH harness connector and sliding door power window switch LH harness connector.

Sliding door power window motor LH		Sliding door power window switch LH		Continuity
Connector	Terminal	Connector	Terminal	
D82	1	D88	5	Existed
	3		4	

4. Check continuity between sliding door power window motor LH harness connector and ground.

Sliding door power window motor LH		Ground	Continuity
Connector	Terminal		
D82	1		Not existed
	3		

Is the inspection result normal?

YES >> Replace sliding door power window switch LH. Refer to [PWC-69, "Removal and Installation"](#).

NO >> Repair or replace harness.

SLIDING DOOR RH

SLIDING DOOR RH : Component Function Check

INFOID:0000000011325996

1. CHECK FUNCTION

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Check sliding door power window motor RH operation with power window main switch or sliding door power window switch RH.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-44, "SLIDING DOOR RH : Diagnosis Procedure"](#).

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000011325997

1. CHECK SLIDING DOOR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+) Sliding door power window motor RH		(-)	Condition		Voltage (V)
Connector	Terminal				
D102	1	Ground	Sliding door power window switch RH	NEUTRAL	0 – 1
				UP	9 – 16
	3			NEUTRAL	0 – 1
				DOWN	9 – 16

Is the inspection result normal?

YES >> Replace sliding door power window motor RH.

NO >> GO TO 2.

2. CHECK SLIDING DOOR POWER WINDOW MOTOR RH CIRCUIT

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

Sliding door power window motor RH		Sliding door power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	
D102	1	D108	5	Existed
	3		4	

4. Check continuity between sliding door power window motor RH harness connector and ground.

Sliding door power window motor RH		Ground	Continuity
Connector	Terminal		
D102	1		Not existed
	3		

Is the inspection result normal?

YES >> Replace sliding door power window switch RH. Refer to [PWC-69, "Removal and Installation"](#).

NO >> Repair or replace harness.

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

ENCODER CIRCUIT

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011325998

1.CHECK FUNCTION

Check that front driver side door glass perform AUTO UP/DOWN operation normally when power window main switch is operated.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-45, "DRIVER SIDE : Diagnosis Procedure"](#).

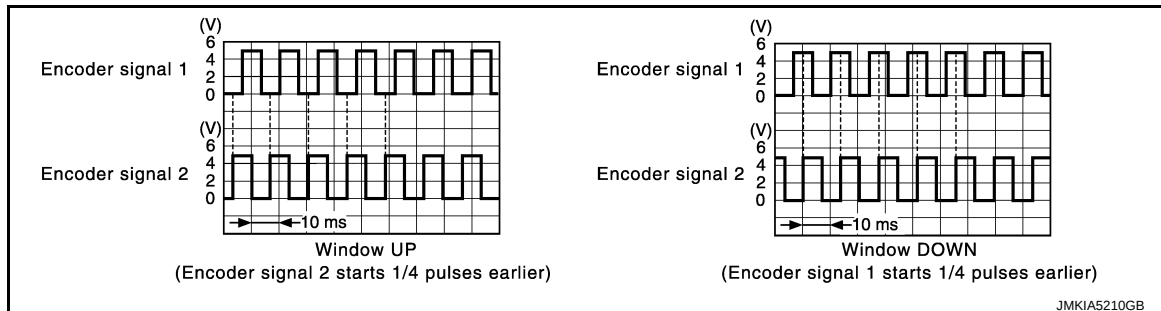
DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011325999

1.CHECK ENCODER PULSE SIGNAL

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

(+)		(-)	Signal (Reference value)
Power window main switch			
Connector	Terminal		
D5	9	Ground	Refer to the following signal
	13		



Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector and front power window motor (driver side) connector.
3. 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	
D5	9	D7	3	Existed
	13		5	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	9		Not existed
	13		

ENCODER CIRCUIT

[FRONT WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

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 ignition switch ON.
3. Check voltage between front power window motor (driver side) harness connector and ground.

(+)		(-)	Voltage (V)
Front power window motor (driver side)			
Connector	Terminal		
D7	4	Ground	9 – 16

Is the inspection result normal?

- YES >> GO TO 5.
NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT

1. Turn ignition 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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D5	15	D7	4	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	15		Not existed

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).
NO >> Repair or replace harness.

5.CHECK ENCODER GROUND CIRCUIT 1

1. Turn ignition 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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D5	2	D7	6	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	2		Not existed

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Repair or replace harness.

6.CHECK ENCODER GROUND CIRCUIT 2

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	2		Existed

Is the inspection result normal?

- YES >> Replace front power window motor (driver side). Refer to [GW-29, "Removal and Installation"](#).
NO >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000011326000

1.CHECK FUNCTION

Check that front passenger side door glass perform AUTO UP/DOWN operation normally when front power window switch (passenger side) is operated.

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Refer to [PWC-47, "PASSENGER SIDE : Diagnosis Procedure"](#).

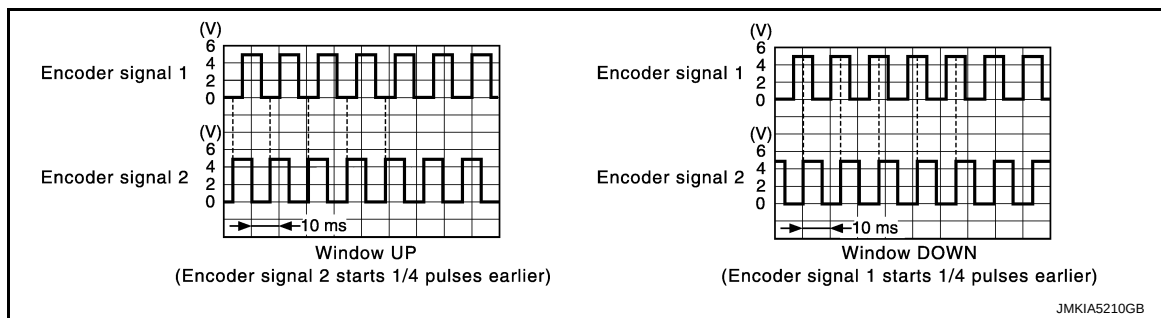
PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011326001

1.CHECK ENCODER PULSE SIGNAL

1. Turn ignition switch ON.
2. Check signal between front power window switch (passenger side) harness connector and ground using an oscilloscope.

(+)		(-)	Signal (Reference value)
Front power window switch (passenger side)			
Connector	Terminal		
D55	12	Ground	Refer to the following signal
	15		



Is the inspection result normal?

- YES >> Replace front power window switch (passenger side). Refer to [PWC-68, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

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

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D55	12	D46	5	Existed
	15		3	

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D55	12		Not existed
	15		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (V)
Front power window motor (passenger side)			
Connector	Terminal		
D46	4	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT

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

Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D55	4	D46	4	Existed

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D55	4		Not existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to [PWC-68, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK ENCODER GROUND CIRCUIT 1

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

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D55	3	D46	6	Existed

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D55	3		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK ENCODER GROUND CIRCUIT 2

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D55	3		Existed

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to [GW-29, "Removal and Installation"](#).

NO >> Replace front power window switch (passenger side). Refer to [PWC-68, "Removal and Installation"](#).

PWC

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:000000011326002

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "KEY CYL LK-SW", "KEY CYL UN-SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-50. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011326003

1.CHECK DOOR KEY CYLINDER SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) (key cylinder switch) connector.
3. Turn ignition switch ON.
4. Check voltage between front door lock assembly (driver side) (key cylinder switch) harness connector and ground.

(+) Front door lock assembly (driver side) (key cylinder switch)		(-)	Voltage (V)
Connector	Terminal		
D48	5	Ground	4 – 6
	6		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check continuity between power window main switch harness connector and front door lock assembly (driver side) (key cylinder switch) harness connector.

Power window main switch		Front door lock assembly (driver side) (key cylinder switch)		Continuity
Connector	Terminal	Connector	Terminal	
D5	4	D48	6	Existed
	6		5	

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

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	4		Not existed
	6		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between front door lock assembly (driver side) (key cylinder switch) harness connector and ground.

Front door lock assembly (driver side) (key cylinder switch)		Ground	Continuity
Connector	Terminal		
D48	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

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

Refer to [PWC-51, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> Replace front door lock assembly (driver side) (key cylinder switch).

Component Inspection

INFOID:0000000011326004

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) (key cylinder switch) connector.
3. Check front door lock assembly (driver side) (key cylinder switch) terminals under the following conditions.

Front door lock assembly (driver side) (key cylinder switch)		Key position	Continuity
Terminal			
5	4	Unlock	Existed
		Neutral / Lock	Not existed
6		Lock	Existed
		Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side) (key cylinder switch).

PWC

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SERIAL LINK

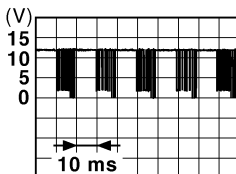
POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000011326005

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Power window main switch			
Connector	Terminal		
D5	14	Ground	 JPMA0013GB

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+)		(-)	Voltage (V)
Power window main switch			
Connector	Terminal		
D5	14	Ground	9 – 16

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).
NO >> GO TO 3.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M121	8	D5	14	Existed

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	8		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

NO >> Repair or replace harness.

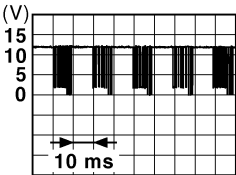
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:000000011326006

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check signal between front power window switch (passenger side) harness connector and ground using an oscilloscope.

(+) Front power window switch (passenger side)		(-)	Signal (Reference value)
Connector	Terminal		
D55	16	Ground	 JPMA0013GB

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to [PWC-68, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

Power window main switch		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D5	14	D55	16	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	14		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).

NO >> Repair or replace harness.

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:0000000011326007

1.CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-91, "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-36, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK POWER WINDOW MAIN SWITCH SERIAL LINK CIRCUIT

Check power window main switch serial link circuit.

Refer to [PWC-52, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011326008

1.CHECK DRIVER SIDE POWER WINDOW MOTOR

Check front power window motor (driver side).

Refer to [PWC-41, "DRIVER SIDE : Component Function Check"](#).

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. Refer to [PWC-68, "Removal and Installation"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

INFOID:000000011326009

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-37. "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 MOTOR (PASSENGER SIDE)

Check front power window motor (passenger side).

Refer to [PWC-42. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

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

INFOID:000000011326010

1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to [PWC-68. "Removal and Installation"](#)

>> INSPECTION END

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000011326011

1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) SERIAL LINK CIRCUIT

Check front power window switch (passenger side) serial link circuit.

Refer to [PWC-53. "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.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

SLIDING DOOR LH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

SLIDING DOOR LH POWER WINDOW DOES NOT OPERATE

WHEN POWER WINDOW MAIN AND SLIDING DOOR LH POWER WINDOW SWITCHES ARE OPERATED

WHEN POWER WINDOW MAIN AND SLIDING DOOR LH POWER WINDOW SWITCHES ARE OPERATED : Diagnosis Procedure

INFOID:0000000011326012

1.CHECK SLIDING DOOR POWER WINDOW SWITCH LH

Check sliding door power window switch LH.

Refer to [PWC-39, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW MOTOR LH

Check sliding door power window motor LH.

Refer to [PWC-43, "SLIDING DOOR 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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN SLIDING DOOR LH POWER WINDOW SWITCH IS OPERATED

WHEN SLIDING DOOR LH POWER WINDOW SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326013

1.CHECK SLIDING DOOR POWER WINDOW SWITCH LH POWER SUPPLY AND GROUND CIRCUIT

Check sliding door power window switch LH power supply and ground circuit.

Refer to [PWC-37, "SLIDING DOOR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW SWITCH LH

Check sliding door power window switch LH.

Refer to [PWC-39, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

SLIDING DOOR LH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326014

1.CHECK SLIDING DOOR POWER WINDOW SWITCH LH

Check sliding door power window switch LH.

Refer to [PWC-39. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

SLIDING DOOR RH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

SLIDING DOOR RH POWER WINDOW DOES NOT OPERATE

WHEN POWER WINDOW MAIN AND SLIDING DOOR RH POWER WINDOW SWITCHES ARE OPERATED

WHEN POWER WINDOW MAIN AND SLIDING DOOR RH POWER WINDOW SWITCHES ARE OPERATED : Diagnosis Procedure

INFOID:0000000011326015

1.CHECK SLIDING DOOR POWER WINDOW SWITCH RH

Check sliding door power window switch RH.

Refer to [PWC-39, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW MOTOR RH

Check sliding door power window motor RH.

Refer to [PWC-43, "SLIDING DOOR RH : 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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN SLIDING DOOR RH POWER WINDOW SWITCH IS OPERATED

WHEN SLIDING DOOR RH POWER WINDOW SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326016

1.CHECK SLIDING DOOR POWER WINDOW SWITCH RH POWER SUPPLY AND GROUND CIRCUIT

Check sliding door power window switch RH power supply and ground circuit.

Refer to [PWC-37, "SLIDING DOOR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW SWITCH RH

Check sliding door power window switch RH.

Refer to [PWC-39, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

SLIDING DOOR RH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326017

1.CHECK SLIDING DOOR POWER WINDOW SWITCH RH

Check sliding door power window switch RH.

Refer to [PWC-39. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011326018

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-34, "Work Procedure"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER CIRCUIT (DRIVER SIDE)

Check encoder circuit (driver side). Refer to [PWC-45, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011326019

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-34, "Work Procedure"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER CIRCUIT (PASSENGER SIDE)

Check encoder circuit (passenger side). Refer to [PWC-47, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (FRONT SIDE)

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011326020

1.CHECK POWER WINDOW AUTO OPERATION

Check AUTO operation when anti-pinch function does not operate.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [PWC-61. "DRIVER SIDE : Diagnosis Procedure"](#).

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011326021

1.CHECK POWER WINDOW AUTO OPERATION

Check AUTO operation when anti-pinch function does not operate.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [PWC-61. "PASSENGER SIDE : Diagnosis Procedure"](#).

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS > [FRONT WINDOW ANTI-PINCH]

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Diagnosis Procedure

INFOID:0000000011326022

1.CHECK FRONT DOOR SWITCH

Check front door switch.
Refer to [DLK-241, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
- NO >> GO TO 1.

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PWC

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Diagnosis Procedure

INFOID:000000011326023

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-34, "Work Procedure"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR KEY CYLINDER SWITCH)

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

Refer to [PWC-50, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011326024

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Refer to [DLK-44, "REMOTE KEYLESS ENTRY FUNCTION : System Description"](#).

2.CHECK POWER WINDOW OPERATION

Check power window operation.

Does power window up/down with power window main switch?

YES >> GO TO 3.

NO >> Refer to [PWC-54, "Diagnosis Procedure"](#).

3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"

Check "PW DOWN SET" setting in "WORK SUPPORT".

Refer to [DLK-95, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000011326025

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch. Refer to [PWC-68, "Removal and Installation"](#).

>> INSPECTION END

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011326026

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

Refer to [PWC-68, "Removal and Installation"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011326027

1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to [PWC-68, "Removal and Installation"](#).

>> INSPECTION END

SLIDING DOOR LH

SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011326028

1.REPLACE SLIDING DOOR POWER WINDOW SWITCH LH

Replace sliding door power window switch LH.

Refer to [PWC-69, "Removal and Installation"](#).

>> INSPECTION END

SLIDING DOOR RH

SLIDING DOOR RH : Diagnosis Procedure

INFOID:0000000011326029

1.REPLACE SLIDING DOOR POWER WINDOW SWITCH RH

Replace sliding door power window switch RH.

Refer to [PWC-69, "Removal and Installation"](#).

>> INSPECTION END

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REMOVAL AND INSTALLATION

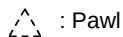
POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000011326030

REMOVAL

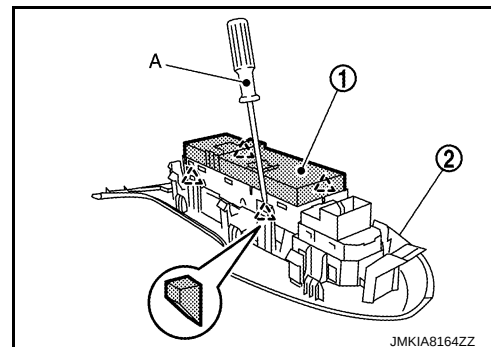
1. Remove the power window main switch finisher. Refer to [INT-14, "Removal and Installation"](#).
2. Remove power window main switch (1) from power window main switch finisher (2) using a remover tool (A).



: Pawl

NOTE:

The same procedure is also performed for front power window switch (passenger side).



INSTALLATION

Install in the reverse order of removal.

NOTE:

If power window main switch or front power window (passenger side) is replaced or is removed, it is necessary to perform the initialization procedure.

Refer to [PWC-34, "Work Procedure"](#).

SLIDING DOOR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

[FRONT WINDOW ANTI-PINCH]

SLIDING DOOR POWER WINDOW SWITCH

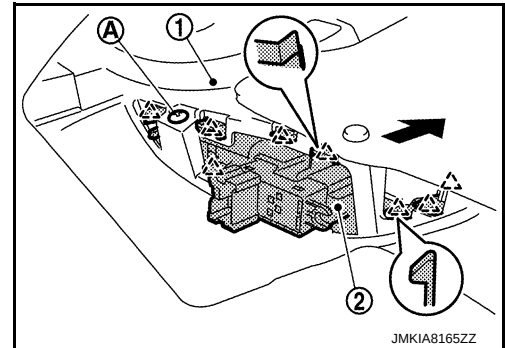
Removal and Installation

INFOID:000000011326031

REMOVAL

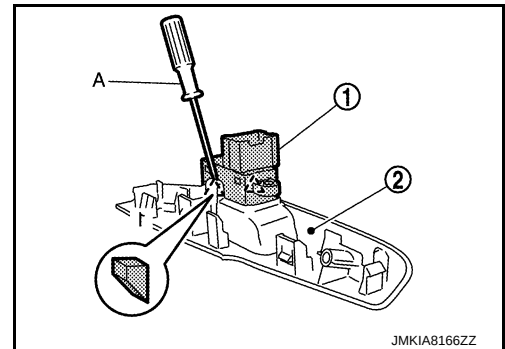
1. Remove sliding door finisher. Refer to [INT-17. "Removal and Installation"](#).
2. Remove screw (A), disconnect pawls from sliding door finisher (1), and then remove power window switch finisher (2).

 : Pawl



3. Remove power window switch (1) from power window switch finisher (2) using a remover tool (A).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

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PWC

PRECAUTION

PRECAUTIONS

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

INFOID:000000011326032

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

INFOID:000000011326033

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

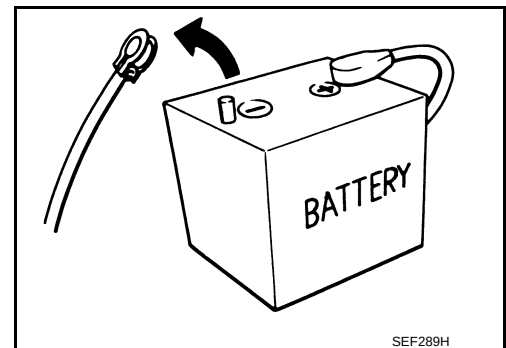
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



COMPONENT PARTS

< SYSTEM DESCRIPTION >

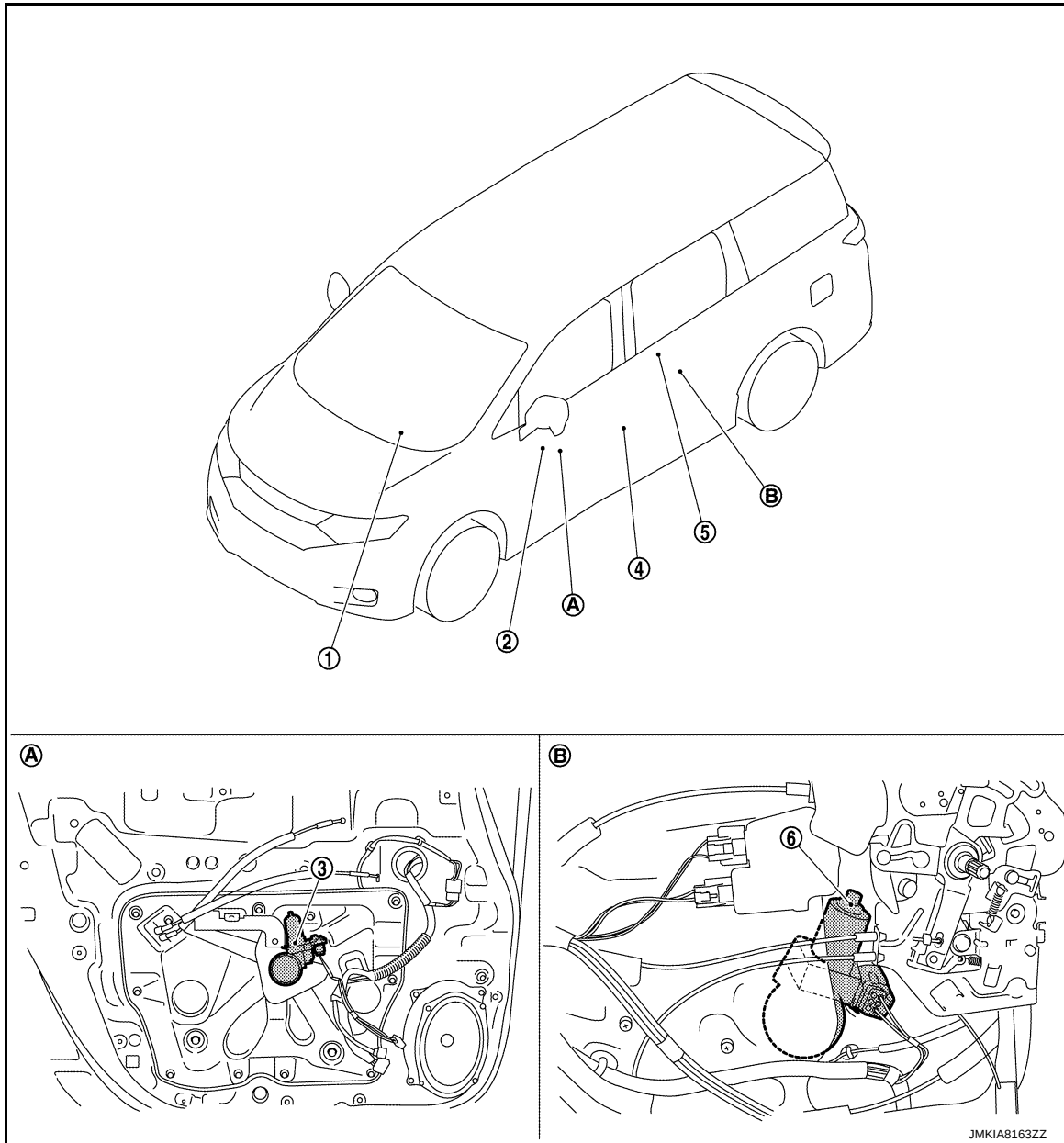
[DRIVER SIDE WINDOW ANTI-PINCH]

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000011326034



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

No.	Component parts	Description
1.	BCM	- Supplies power supply to power window switch. - Controls retained power. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
2.	Power window main switch	Refer to PWC-72, "Power Window Main Switch" .
3.	Front power window motor (driver side)	Refer to PWC-72, "Front Power Window Motor (Driver Side)" .
4.	Front door switch (driver side)	Detects door open/close condition and transmits to BCM. Refer to DLK-28, "Front Door Switch" .

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

No.	Component parts	Description
5.	Sliding door power window switch LH	Refer to PWC-72, "Sliding Door Power Window Switch" .
6.	Sliding door power window motor LH	Refer to PWC-72, "Sliding Door Power Window Motor" .

Power Window Main Switch

INFOID:0000000011326035

- Directly controls all power window motor of all doors.
- Controls anti-pinch operation of power window.

Front Power Window Motor (Driver Side)

INFOID:0000000011326036

- Integrates the encoder and power window motor.
- Operates with signals from power window main switch.
- Transmits front power window motor (driver side) rotation as a pulse signal to power window main switch.

Sliding Door Power Window Switch

INFOID:0000000011326037

Controls power window motor of sliding door.

Sliding Door Power Window Motor

INFOID:0000000011326038

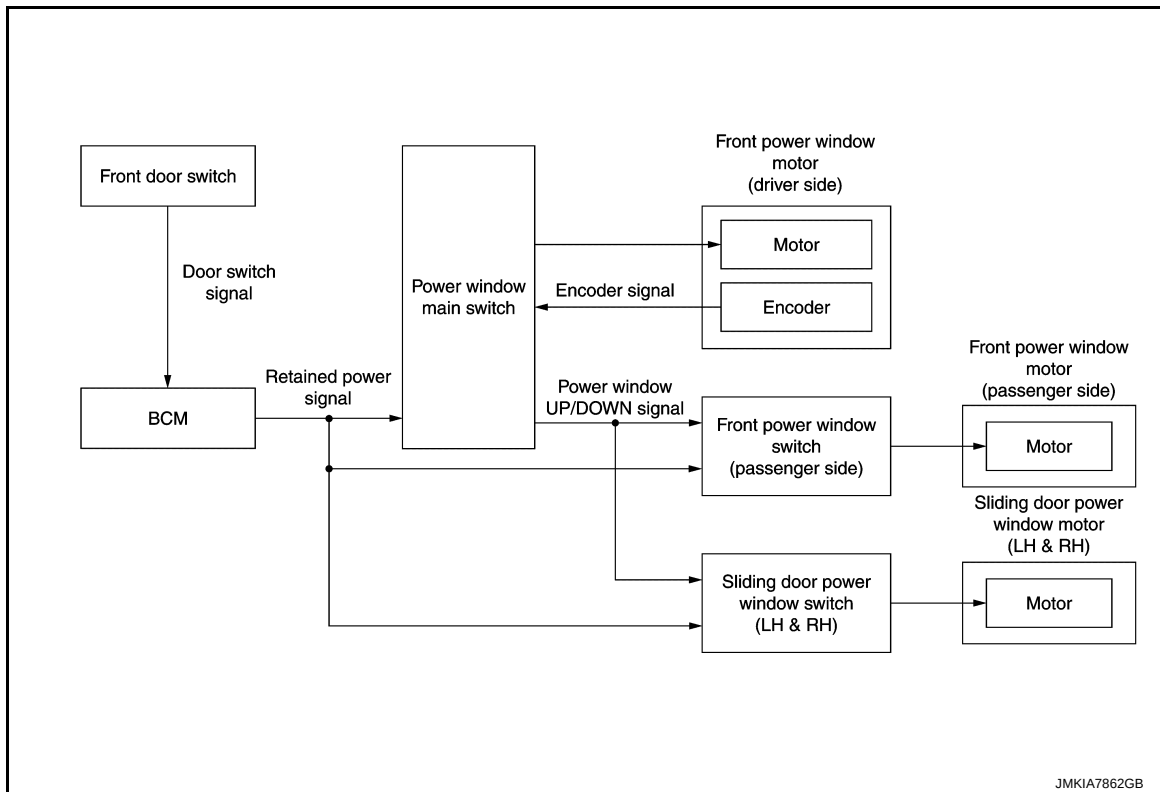
Operates with signals from power window main switch and sliding door power window switch.

SYSTEM

System Description

INFOID:0000000011326039

SYSTEM DIAGRAM



DESCRIPTION

- Power window system is activated by power window switch when ignition switch turns ON, or during the retained power operation after ignition switch turns OFF.
- Power window main switch opens/closes all door glass.
- Front and sliding door power window switch opens/closes the corresponding door glass.
- AUTO UP/DOWN operation can be performed when power window main switch turns to AUTO.
- Power window lock switch can lock all power windows other than driver seat.
- If door glass receives resistance that is the specified value or more while power window of driver seat is in AUTO-UP operation, power window of driver seat operates in the reverse direction.

Power Window AUTO-Operation

- AUTO UP/DOWN operation can be performed when power window main switch turns to AUTO.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Power window switch reads the changes of encoder signal and stops AUTO operation when door glass is at 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 ignition switch is turned OFF.

Retained Power Cancel Conditions

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

Power Window Lock Function

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

SYSTEM

< SYSTEM DESCRIPTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

Anti-Pinch System

- 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.
- 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:

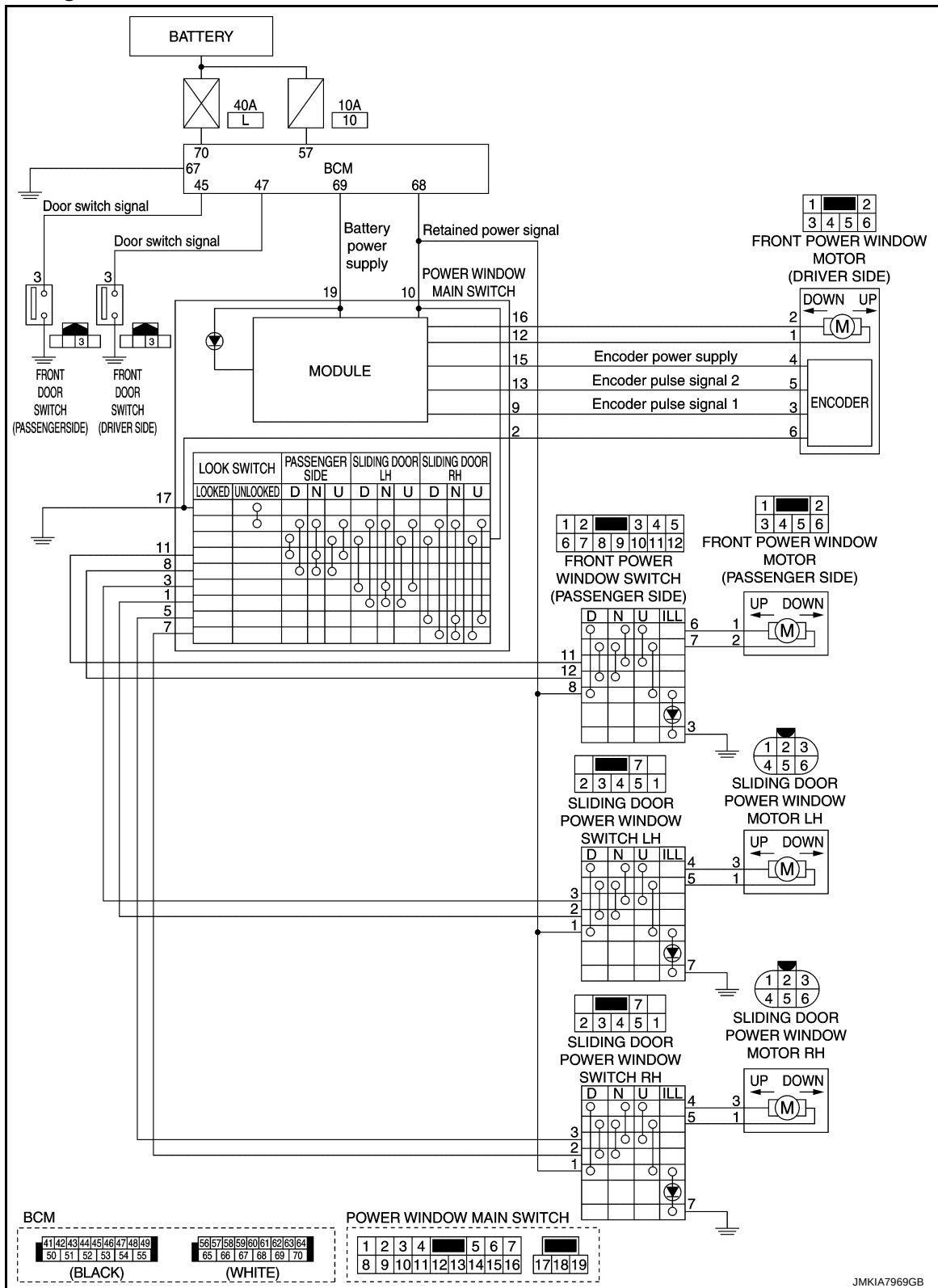
Depending on environment and driving conditions, if a similar impact or load is applied to the door glass, it may lower.

[DRIVER SIDE WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

Circuit Diagram

INFOID:0000000011326040



Fail-safe

INFOID:0000000011326041

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 >

[DRIVER SIDE WINDOW ANTI-PINCH]

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 malfunction	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 >

[DRIVER SIDE WINDOW ANTI-PINCH]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011561368

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	AIR CONDITONER		×	×*
- Intelligent Key system - Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS	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	×	×	×

NOTE:

*: For models with automatic air conditioning control system, this diagnosis mode is 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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

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	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	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 RUN to ACC (Except emergency stop operation)
	CRANK>RUN		While turning power supply position from CRANK to RUN
	RUN>URGENT		While turning power supply position from RUN to ACC (Emergency stop operation)
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)
	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 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 RUN
	CRANKING		Power supply position is CRANK
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

NOTE:

*: Refer to the following for details of the power supply position.

- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition 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 push-button ignition switch (push switch) is pushed at "OFF (LOCK)".

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR) (Driver Side Window

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

Anti-pinch)

INFOID:0000000011326043

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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.

A

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PWC

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[DRIVER SIDE WINDOW ANTI-PINCH]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000011326044

ECU	Reference
BCM	BCS-40, "Reference Value"
	BCS-62, "Fail-safe"
	BCS-62, "DTC Inspection Priority Chart"
	BCS-63, "DTC Index"

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

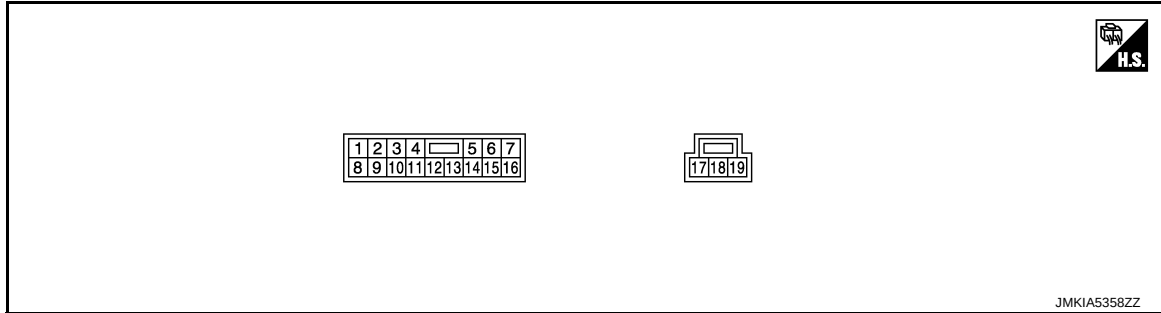
[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW MAIN SWITCH

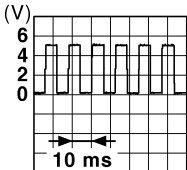
Reference Value

INFOID:0000000011326045

TERMINAL LAYOUT



PHYSICAL VALUES

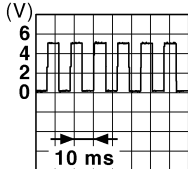
Terminal No. (Wire color)		Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output		
1 (O)	Ground	Sliding door power window motor LH UP signal	Output	When sliding door LH switch in power window main switch is in UP operation.	9 – 16
2 (W)	Ground	Encoder ground	—	—	0 – 1
3 (BR)	Ground	Sliding door power window motor LH DOWN signal	Output	When sliding door LH switch in power window main switch is in DOWN operation.	9 – 16
5 (SB)	Ground	Sliding door power window motor RH DOWN signal	Output	When sliding door RH switch in power window main switch is in DOWN operation.	9 – 16
7 (P)	Ground	Sliding door power window motor RH UP signal	Output	When sliding door RH switch in power window main switch is in UP operation.	9 – 16
8 (BR)	Ground	Front power window motor (passenger side) UP signal	Output	When front RH switch in power window main switch is in UP operation.	9 – 16
9 (SB)	Ground	Encoder pulse signal 2	Input	When front power window motor (driver side) operates.	
10 (V)	Ground	Retained power signal	Input	Ignition switch ON	9 – 16
				Within 45 seconds after ignition switch is turned to OFF.	9 – 16
				When driver side or passenger side door is opened during retained power operation.	0 – 1

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[DRIVER SIDE WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output		
11 (GR)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front RH switch in power window main switch is in DOWN operation.	9 – 16
12 (LG)	Ground	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is in DOWN operation.	9 – 16
13 (Y)	Ground	Encoder pulse signal 1	Input	When front power window motor (driver side) operates.	
15 (R)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operat- ing.	9 – 16
16 (L)	Ground	Front power window motor (driver side) UP signal	Output	When front LH switch in power window main switch is in UP operation.	9 – 16
17 (B)	Ground	Ground	—	—	0 – 1
19 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	9 – 16

Fail-safe

INFOID:0000000011561372

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 malfunction	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).

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[DRIVER SIDE WINDOW ANTI-PINCH]

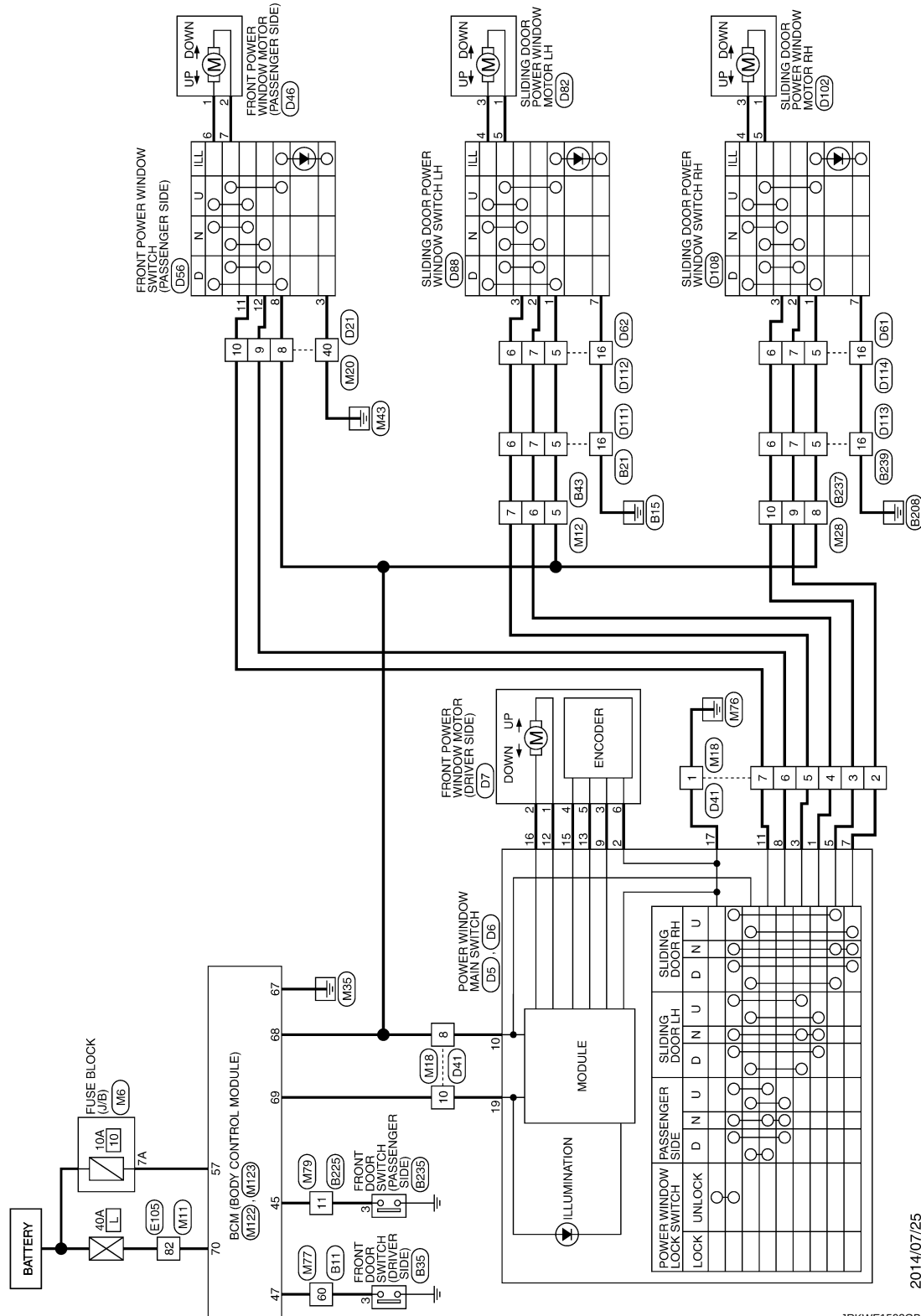
WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram

INFOID:0000000011326047

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)



2014/07/25

JRKWE1592GB

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

PWC

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)

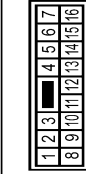
Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



78	LG	-
79	CG	-
80	BR	-
81	SB	-
82	V	-
87	G	-
88	V	-
89	G	-
90	Y	-
91	LG	-
92	L	-

Terminal No.	Color Of Wire	Signal Name [Specification]
12	GR	-
13	P	-
15	L	-
29	GR	-
30	W	-
31	P	-
37	SHIELD	-
38	R	-
39	B	-
40	W	-
51	Y	-
52	B	-
53	G	-
54	P	-
55	L	-
57	Y	-
58	L	-
59	GR	-
60	Y	-
61	Y	-
62	BR	-
63	L	-
64	W	-
65	R	-
66	SHIELD	-
67	B	-
68	W	-
69	SHIELD	-
70	W/R	-
71	B/R	-
72	BR	-
74	L	-
75	SB	-
77	V	-

Connector No.	B21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



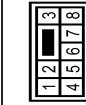
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [Without BOSE system]
2	R	- [Without BOSE system]
3	Y	- [Without BOSE system]
5	Y	-
6	BR	-
7	LG	-
8	L	-
9	SB	-
10	Y	-
11	G	-
14	SB	-
15	V	-
16	B	-

Connector No.	B35
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH44FW-NH



Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B43
Connector Name	WIRE TO WIRE
Connector Type	NS8BMW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-
3	LG	-
4	B	-
5	Y	-
6	LG	-
7	BR	-
8	V	-

Connector No.	B225
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	R	-
4	P	-
5	G	-
9	L	-
10	P	-
11	SB	-
12	GR	-
13	R	-
14	G	-
15	L	-
16	Y	-

Connector No.	B225
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH44FW-NH



Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

JRKWE1593GB

POWER WINDOW SYSTEM

[DRIVER SIDE WINDOW ANTI-PINCH]

< WIRING DIAGRAM >

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)

Connector No.	B237
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

9	G	-
8	SB	-
7	R	-
6	G	-
5	O	-
4	L	-
3	P	-
2	GR	-
1	GR	-



17	18	19
----	----	----

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30PW-CS



Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS13



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	GR	-
5	LG	- [With manual A/C]
6	P	- [With auto A/C]
7	G	-
8	Y	-
9	SB	-
10	O	-
11	LG	-
12	P	-
13	R	-
14	W	-
15	W	-
16	G	-



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16PW-CS



1	2	3	4		5	6	7	
8	9	10	11	12	13	14	15	16

Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
18	G	-
19	Y	-



17	18	19
----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	V	-
9	BR	- [With manual A/C]
10	W	- [With auto A/C]
11	LG	-
12	BR	-
13	B	-
14	R	- [Without BOSE system]
15	L	- [Without BOSE system]
16	W	- [Without BOSE system]
17	GR	-
18	R	-
19	W	-
20	V	-
21	B	-
22	B	-
23	W	-
24	SHIELD	-
25	Y	-
26	L	-
27	P	-
28	G	-
29	W	-
30	LG	-
31	B	-
32	GR	-
33	R	-
34	G	-
35	W	-
36	GR	-
37	R	-
38	G	-
39	W	-
40	B	-
41	GR	-
42	G	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	R	-
48	G	-
49	SHIELD	-
50	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	BR	-
4	G	-
5	SB	-
6	GR	-
7	V	-
8	L	-
9	W	-
10	GR	-
11	Y	-
12	LG	-
13	GR	-
14	R	-
15	G	-
16	L	-



1	2	3	4	5	6
---	---	---	---	---	---

Connector No.	D7
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	NS30PW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	- [With manual A/C]
2	L	- [With auto A/C]
3	W	-
4	G	-
5	GR	-
6	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	BR	-
4	G	-
5	SB	-
6	GR	-
7	V	-
8	L	-
9	W	-
10	GR	-
11	Y	-
12	LG	-
13	GR	-
14	R	-
15	G	-
16	L	-
17	P	-
18	W	-
19	W	-
20	V	-
21	B	-
22	B	-
23	W	-
24	SHIELD	-
25	Y	-
26	L	-
27	P	-
28	G	-
29	W	-
30	LG	-
31	B	-
32	GR	-
33	R	-
34	G	-
35	W	-
36	GR	-
37	R	-
38	G	-
39	W	-
40	B	-
41	GR	-
42	G	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	R	-
48	G	-
49	SHIELD	-
50	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	- [Without BOSE system]
2	B	- [With BOSE system]
3	Y	- [Without BOSE system]
4	Y	-



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Connector No.	B239
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

JRKWE1594GB

A
B
C
D
E
F
G
H
I
J
PWC
L
M
N
O
P

POWER WINDOW SYSTEM

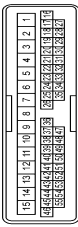
[DRIVER SIDE WINDOW ANTI-PINCH]

< WIRING DIAGRAM >

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)

35	W	-	6	GR	-
----	---	---	---	----	---

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH46FW-CS15

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Color Of Wire	B	V	SB	Y	BR	L	Y	L	Y	GR	G	R	G	R	Y	GR	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Connector No.	D46
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	NS30FW-CS




Terminal No.	1	2	3	4	5
Color Of Wire	LG	L	R	G	P
Signal Name [Specification]	-	-	-	-	-

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Color Of Wire	B	V	SB	Y	BR	L	Y	L	Y	GR	G	R	G	R	Y	GR	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Connector No.	D48
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	NS30FW-CS




Terminal No.	1	2	3	4	5
Color Of Wire	LG	L	R	G	P
Signal Name [Specification]	-	-	-	-	-

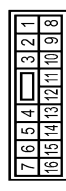
Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Color Of Wire	B	V	SB	Y	BR	L	Y	L	Y	GR	G	R	G	R	Y	GR	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Connector No.	D56
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



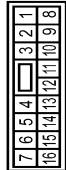

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12
Color Of Wire	GR	B	LG	L	V	LG	L	LG	BR	-	-	-
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Color Of Wire	GR	B	LG	L	V	LG	L	LG	BR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Connector No.	D82
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Color Of Wire	GR	B	LG	L	V	LG	L	LG	BR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

JRKWE1595GB

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)

Connector No.

D82

Connector Name

SLIDING DOOR POWER WINDOW MOTOR LH

Connector Type

RS08FG-DGY

HS.

1

3

Terminal No.

Color Of Wire

Signal Name [Specification]

1

L

-

3

LG

-

Connector No.

D88

Connector Name

SLIDING DOOR POWER WINDOW SWITCH LH

Connector Type

NS08FW-CS

HS.

2

3

4

5

1

Terminal No.

Color Of Wire

Signal Name [Specification]

1

L

-

3

LG

-

Connector No.

D102

Connector Name

SLIDING DOOR POWER WINDOW MOTOR RH

Connector Type

RS08FG-DGY

HS.

1

3

Terminal No.

Color Of Wire

Signal Name [Specification]

1

L

-

3

LG

-

Connector No.

D108

Connector Name

SLIDING DOOR POWER WINDOW SWITCH RH

Connector Type

NS08FW-CS

HS.

2

3

4

5

1

Terminal No.

Color Of Wire

Signal Name [Specification]

1

L

-

3

LG

-

Connector No.

D112

Connector Name

WIRE TO WIRE

Connector Type

NS18FW-CS

HS.

1

2

3

4

5

6

7

Terminal No.

Color Of Wire

Signal Name [Specification]

1

W

-

2

W

-

5

BR

-

6

BR

-

7

G

-

8

R

-

9

R

-

10

Y

-

11

Y

-

14

GR

-

15

GR

-

16

P

-

Connector No.

D114

Connector Name

WIRE TO WIRE

Connector Type

NS18FW-CS

HS.

1

2

3

4

5

6

7

Terminal No.

Color Of Wire

Signal Name [Specification]

1

W

-

2

W

-

5

BR

-

6

BR

-

7

G

-

8

R

-

9

R

-

10

Y

-

11

Y

-

14

GR

-

15

GR

-

16

P

-

Connector No.

D113

Connector Name

WIRE TO WIRE

Connector Type

NS18FW-CS

HS.

7

6

5

4

3

2

1

Terminal No.

Color Of Wire

Signal Name [Specification]

1

W

-

2

W

-

5

BR

-

6

BR

-

7

G

-

8

R

-

9

R

-

10

Y

-

11

Y

-

14

GR

-

15

GR

-

16

P

-

Connector No.

D114

Connector Name

WIRE TO WIRE

Connector Type

NS18FW-CS

HS.

1

2

3

4

5

6

7

Terminal No.

Color Of Wire

Signal Name [Specification]

1

W

-

2

W

-

5

BR

-

6

BR

-

7

G

-

8

R

-

9

R

-

10

Y

-

11

Y

-

14

GR

-

15

GR

-

16

P

-

JRKWE1596GB

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POWER WINDOW SYSTEM

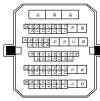
< WIRING DIAGRAM >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
5	BR	-
6	BR	-
7	G	-
8	R	-
9	R	-
10	Y	-
11	Y	-
14	GR	-
15	GR	-
16	P	-

Connector No.	E 103
Connector Name	WIRE TO WIRE
Connector Type	TH7DMW-CS10-M3



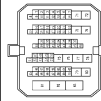
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	B	-
4	R	-
6	LG	-
7	R	-
8	GR	-
9	V	-
10	BR	-
11	Y	-
12	O	-
13	W	-
14	P	-
15	P	-
31	GR	-
32	V	-
37	BR	-
38	G	-
39	V	-
40	P	-



Connector No.	M6
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2

Terminal No.	Color Of Wire	Signal Name [Specification]
41	1A	-
42	Y	-
43	G	-
44	P	-
45	P	-
46	V	-
47	R	-
48	GR	-
49	G	-
50	V	-
51	G	-
52	W	-
53	B	-
54	LG	-
55	L	-
56	SHIELD	-
61	R	-
62	W	-
63	B	-
64	W	-
65	W	-
66	W	-
67	BR	-
68	P	-
69	P	-
70	R	-
71	R	-
72	L	-
73	LG	-
74	Y	-
75	Y	-
76	V	-
77	P	-
78	BR	-
79	BR	-
80	W	-
81	W	-
82	L	-
83	R	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH7DFW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	W	-
4	B	-
6	G	-
7	R	-
8	G	-
9	B	-
10	R	-
11	W	-
12	L	-
13	LG	-
14	G	-
15	Y	-
16	L	-
17	R	-
18	GR	-
19	GR	-
20	W	-
21	W	-
22	W	-
23	W	-
24	W	-
25	W	-
26	W	-
27	W	-
28	W	-
29	BE	-
30	BE	-
31	Y	-
32	P	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



JRKWE1597GB

POWER WINDOW SYSTEM

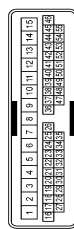
< WIRING DIAGRAM >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM (WITH DRIVER POWER WINDOW ANTI-PINCH SYSTEM)

Terminal No.	Color Of Wire	Signal Name [Specification]
22	G	-
23	G	-
24	B	-
25	W	-
26	W	-
27	Y	-
28	SHIELD	-
29	W	-
30	R	-
31	W	-
32	G	-
33	BE	-
34	P	-
35	W	-
36	LG	-
37	P	-
38	R	-
39	V	-
40	R	-
41	B	-
42	W	-
43	G	-
44	B	-
45	GR	-
46	R	-
47	GR	-
48	GR	-
49	R	-
50	GR	-
51	B	-
52	GR	-
53	P	-
54	W	-
55	B	-

Connector No.	Signal Name [Specification]
M18	WIRE TO WIRE
TH40MW-CS15	WIRE TO WIRE



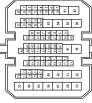
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	V	-
5	SB	-
6	LG	-
7	V	-
8	L	-
9	GR	-
10	Y	-
11	V	-
12	G	-
13	G	-
14	B	-
15	W	-
16	W	-
17	BE	-
18	P	-
19	W	-
20	LG	-
21	P	-

Connector No.	Signal Name [Specification]
M20	WIRE TO WIRE
TH40MW-CS15	WIRE TO WIRE



Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	Y	-
9	GR	-
10	V	-
11	SB	-
12	V	-
13	L	-
14	B	-
15	LG	-
16	G	-
17	P	-
18	R	-
19	LG	-
20	B	-
21	W	-
22	SHIELD	-
23	B	-
24	W	-
25	W	-
26	W	-
27	W	-
28	P	-
29	Y	-
30	B	-
31	GR	-
32	BE	-
33	R	-
34	GR	-
35	W	-
36	W	-
37	SHIELD	-
38	P	-
39	V	-
40	R	-
41	B	-
42	W	-
43	G	-
44	B	-
45	GR	-
46	R	-
47	GR	-
48	GR	-
49	R	-
50	GR	-
51	B	-
52	GR	-
53	P	-
54	W	-
55	B	-

Connector No.	Signal Name [Specification]
M77	WIRE TO WIRE
TH80PW-CS18	WIRE TO WIRE



Terminal No.	Color Of Wire	Signal Name [Specification]
10	P	-
12	BE	-
13	W	-

JRKWE1598GB

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PWC

< WIRING DIAGRAM >

[DRIVER SIDE WINDOW ANTI-PINCH]

51	G	BACK DOOR REQ SW
53	BR	BK DOOR OPEN
54	R	REAR WIPER OUTPUT
55	G	SL DOOR LH UNLK CONT

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

15	R	-
29	W	-
30	P	-
31	BE	-

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FFA09FW-FHA6-SA


H.S.

36	D	[Without around view monitor]
38	W	- [With around view monitor]
39	B	- [With around view monitor]
39	W	- [Without around view monitor]
40	R	=

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	R	-

52	D	-
53	BE	-
54	P	-
55	L	-
57	Y	-

Terminal	Color Of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	Y	BAT
58	O	AIR BAG
59	S8	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	G	TURN SIG RH OUTPUT
62	W	STEP LAMP CONT
63	R	INT ROOM LAMP CONT
64	W	CRANK REQ
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	PW GROUND
68	P	PW PWR SPLY (IGN)
69	P	PW PWR SPLY (BAT)
70	P	BAT

5	BK	-
6	BL	-
7	BL	-
8	BL	-
9	W	-
10	W	-
11	W	-
12	R	-
13	BE	-
14	W	-
15	G	-
16	P	-

39	RE	-
40	G	-
41	L	-
42	SR	-
43	RE	-
44	R	-
45	G	-
46	SHIELD	-
47	B	-
48	W	-
49	SHIELD	-
50	B	-
51	W	-
52	G	-
53	GR	-
54	G	-
55	W	-
56	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
43	P	BK DOOR SW
44	GR	REAR WIPER STOP POSITION
45	W	PASS DOOR SW
46	R	SL DOOR RH SW
47	G	DR DOOR SW
48	BE	SL DOOR LH SW
49	B	LUGGAGE LAMP CONT
50	V	SELECT LINK & RELEASE

87	V	—
88	LG	—
89	GR	—
90	R	— [With automatic drive positioner]
90	Y	— [Without automatic drive positioner]
91	LG	—
92	BR	—

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011326048

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4.IDENTIFY MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

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PWC

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:0000000011326049

When the 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

INFOID:0000000011326050

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to [PWC-94, "Work Procedure"](#).

>> GO TO 2.

2.CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to [PWC-95, "Work Procedure"](#).

>> END

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN SWITCH
< BASIC INSPECTION > [DRIVER SIDE WINDOW ANTI-PINCH]

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN SWITCH

Description

INFOID:0000000011326051

When the power window main switch replaced, 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

INFOID:0000000011326052

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to [PWC-94. "Work Procedure"](#).

>> GO TO 2.

2.CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to [PWC-95. "Work Procedure"](#).

>> END

PWC

SYSTEM INITIALIZATION

Description

INFOID:0000000011326053

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

- Disconnection and connection of 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 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

INFOID:0000000011326054

1.STEP 1

1. Turn ignition 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-95. "Work Procedure"](#).

>> END

CHECK ANTI-PINCH FUNCTION

< BASIC INSPECTION >

[DRIVER SIDE WINDOW ANTI-PINCH]

CHECK ANTI-PINCH FUNCTION

Description

INFOID:0000000011326055

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

- Disconnection and connection of 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 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:0000000011326056

1.CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
2. Place a piece of wood near fully closed position.
3. Close door glass completely with AUTO-UP.
4. 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.
- Do not check with hands and other body parts because they may be pinched. Do not get pinched.

>> END

PWC

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000011326057

1.CHECK POWER SUPPLY

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

(+)		(-)	Condition		Voltage (V)
Power window main switch					
Connector	Terminal				
D5	10	Ground	Ignition switch	ON	9 – 16
D6	19			OFF	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	68	D5	10	Existed
	69	D6	19	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	68		Not existed
	69		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D6	17		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 >

[DRIVER SIDE WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:0000000011326058

1.CHECK POWER SUPPLY

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

(+)		(-)	Voltage (V)
Front power window switch (passenger side)			
Connector	Terminal		
D56	8	Ground	9 – 16

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

BCM		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M123	68	D56	8	Existed

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	68		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
NO >> Repair or replace harness.

SLIDING DOOR POWER WINDOW SWITCH

SLIDING DOOR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:0000000011326059

1.CHECK POWER SUPPLY

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

(+)		(-)	Voltage (V)	
Sliding door power window switch				
Connector	Terminal			
LH	D88	1	Ground	9 – 16
RH	D108			

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

2. CHECK POWER SUPPLY CIRCUIT

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

BCM		Sliding door power window switch		Continuity	
Connector	Terminal	Connector			Terminal
M123	68	LH	D88	1	Existed
		RH	D108		

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	68		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
- NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Component Function Check

INFOID:0000000011326060

1. CHECK FUNCTION

Check front power window motor (passenger side) operation with front power window switch (passenger side).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-99, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011326061

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

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

(+) Front power window switch (passenger side)		(-)	Condition		Voltage (V)
Connector	Terminal				
D56	11	Ground	Power window main switch (passenger side)	NEUTRAL	0 – 1
				DOWN	9 – 16
	12			NEUTRAL	0 – 1
				UP	9 – 16

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

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

PWC

Front power window switch (passenger side)		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D56	11	D5	11	Existed
	12		8	

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D56	11		Not existed
	12		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-123, "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-100, "Component Inspection"](#).

Is the inspection result normal?

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
NO >> Replace front power window switch (passenger side). Refer to [PWC-123, "Removal and Installation"](#).

Component Inspection

INFOID:0000000011326062

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

1. Turn ignition 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 switch (passenger side)		Condition	Continuity
Terminal			
8	7	UP	Existed
11	6		
11	6	NEUTRAL	
12	7		
8	6	DOWN	
12	7		

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace front power window switch (passenger side). Refer to [PWC-123, "Removal and Installation"](#).

SLIDING DOOR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

SLIDING DOOR POWER WINDOW SWITCH

Component Function Check

INFOID:0000000011326063

1. CHECK FUNCTION

Check sliding door power window motor operation with sliding door power window switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-101, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011326064

1.CHECK SLIDING DOOR POWER WINDOW SWITCH INPUT SIGNAL

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

(+) Sliding door power window switch			(-)	Condition		Voltage (V)
Connector		Terminal				
LH	D88	2		Ground	Power window main switch (sliding door LH side)	NEUTRAL
			UP			9 – 16
		3	NEUTRAL			0 – 1
			DOWN			9 – 16
RH	D108	2	Power window main switch (sliding door RH side)		NEUTRAL	0 – 1
					UP	9 – 16
		3			NEUTRAL	0 – 1
					DOWN	9 – 16

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING DOOR POWER WINDOW SWITCH CIRCUIT

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

Sliding door power window switch		Power window main switch		Continuity	
Connector		Terminal	Connector		Terminal
LH	D88	2	D5	1	Existed
		3		3	
RH	D108	2		7	
		3		5	

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

SLIDING DOOR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

Sliding door power window switch			Ground	Continuity
Connector		Terminal		
LH	D88	2		Not existed
		3		
RH	D108	2		
		3		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-123, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK SLIDING DOOR POWER WINDOW SWITCH

Check sliding door power window switch.

Refer to [PWC-102, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> Replace sliding door power window switch. Refer to [PWC-124, "Removal and Installation"](#).

Component Inspection

INFOID:0000000011326065

1.CHECK SLIDING DOOR POWER WINDOW SWITCH

1. Turn ignition switch OFF.
2. Disconnect sliding door power window switch connector.
3. Check sliding door power window switch terminals under the following conditions.

Sliding door power window switch		Condition	Continuity
Terminal			
1	5	UP	Existed
3	4		
2	5	NEUTRAL	
3	4		
1	4	DOWN	
2	5		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door power window switch. Refer to [PWC-124, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011326066

1. CHECK FUNCTION

Check front power window motor (driver side) operation with power window main switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-103. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011326067

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front power window motor (driver side) connector.
3. Turn ignition 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)
Connector	Terminal				
D7	1	Ground	Power window main switch (driver side)	NEUTRAL	0 – 1
				DOWN	9 – 16
	2			NEUTRAL	0 – 1
				UP	9 – 16

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to [GW-29. "Removal and Installation"](#).

NO >> GO TO 2.

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

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

Front power window motor (driver side)		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D7	1	D5	12	Existed
	2		16	

4. Check continuity between front power window motor (driver side) harness connector and ground.

Front power window motor (driver side)		Ground	Continuity
Connector	Terminal		
D7	1		Not existed
	2		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-123. "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

PASSENGER SIDE : Component Function Check

INFOID:000000011326068

1. CHECK FUNCTION

Check front power window motor (passenger side) operation with power window main switch or front power window switch (passenger side).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-104, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011326069

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

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

(+)		(-)	Condition		Voltage (V)
Front power window motor (passenger side)					
Connector	Terminal				
D46	1	Ground	Front power window switch (passenger side)	NEUTRAL	0 – 1
				DOWN	9 – 16
	2			NEUTRAL	0 – 1
				UP	9 – 16

Is the inspection result normal?

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

NO >> GO TO 2.

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

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

Front power window motor (passenger side)		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D46	1	D56	6	Existed
	2		7	

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

Front power window motor (passenger side)		Ground	Continuity
Connector	Terminal		
D46	1		Not existed
	2		

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to [PWC-123, "Removal and Installation"](#).

NO >> Repair or replace harness.

SLIDING DOOR LH

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

SLIDING DOOR LH : Component Function Check

INFOID:0000000011326070

1.CHECK FUNCTION

Check sliding door power window motor LH operation with power window main switch or sliding door power window switch LH.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-105, "SLIDING DOOR LH : Diagnosis Procedure"](#).

SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011326071

1.CHECK SLIDING DOOR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+) Sliding door power window motor LH		(-)	Condition		Voltage (V)
Connector	Terminal				
D82	1	Ground	Sliding door power window switch LH	NEUTRAL	0 – 1
	3			UP	9 – 16
				NEUTRAL	0 – 1
				DOWN	9 – 16

Is the inspection result normal?

YES >> Replace sliding door power window motor LH.

NO >> GO TO 2.

2.CHECK SLIDING DOOR POWER WINDOW MOTOR LH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sliding door power window switch LH connector.
3. Check continuity between sliding door power window motor LH harness connector and sliding door power window switch LH harness connector.

Sliding door power window motor LH		Sliding door power window switch LH		Continuity
Connector	Terminal	Connector	Terminal	
D82	1	D88	5	Existed
	3		4	

4. Check continuity between sliding door power window motor LH harness connector and ground.

Sliding door power window motor LH		Ground	Continuity
Connector	Terminal		
D82	1		Not existed
	3		

Is the inspection result normal?

YES >> Replace sliding door power window switch LH. Refer to [PWC-124, "Removal and Installation"](#).

NO >> Repair or replace harness.

SLIDING DOOR RH

SLIDING DOOR RH : Component Function Check

INFOID:0000000011326072

1. CHECK FUNCTION

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

Check sliding door power window motor RH operation with power window main switch or sliding door power window switch RH.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-106, "SLIDING DOOR RH : Diagnosis Procedure"](#).

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000011326073

1. CHECK SLIDING DOOR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+) Sliding door power window motor RH		(-)	Condition		Voltage (V)
Connector	Terminal				
D102	1	Ground	Sliding door power window switch RH	NEUTRAL	0 – 1
				UP	9 – 16
	3			NEUTRAL	0 – 1
				DOWN	9 – 16

Is the inspection result normal?

YES >> Replace sliding door power window motor RH.

NO >> GO TO 2.

2. CHECK SLIDING DOOR POWER WINDOW MOTOR RH CIRCUIT

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

Sliding door power window motor RH		Sliding door power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	
D102	1	D108	5	Existed
	3		4	

4. Check continuity between sliding door power window motor RH harness connector and ground.

Sliding door power window motor RH		Ground	Continuity
Connector	Terminal		
D102	1		Not existed
	3		

Is the inspection result normal?

YES >> Replace sliding door power window switch RH. Refer to [PWC-124, "Removal and Installation"](#).

NO >> Repair or replace harness.

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

ENCODER CIRCUIT

Component Function Check

INFOID:0000000011326074

1.CHECK FUNCTION

Check that front driver side door glass perform AUTO UP/DOWN operation normally when power window main switch is operated.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [PWC-107, "Diagnosis Procedure"](#).

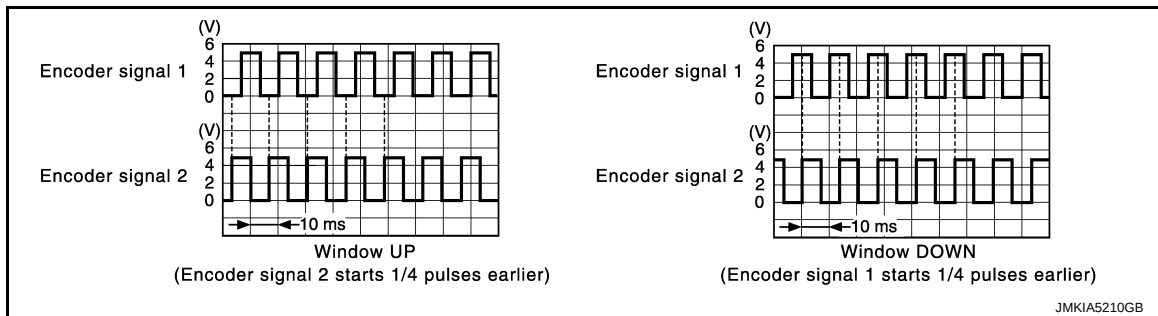
Diagnosis Procedure

INFOID:0000000011326075

1.CHECK ENCODER PULSE SIGNAL

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

(+)		(-)	Signal (Reference value)
Power window main switch			
Connector	Terminal		
D5	9	Ground	Refer to the following signal
	13		



Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-123, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector and front power window motor (driver side) connector.
3. 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	
D5	9	D7	3	Existed
	13		5	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	9		Not existed
	13		

Is the inspection result normal?

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (V)
Front power window motor (driver side)			
Connector	Terminal		
D7	4	Ground	9 – 16

Is the inspection result normal?

- YES >> GO TO 5.
NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT

1. Turn ignition 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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D5	15	D7	4	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	15		Not existed

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-123, "Removal and Installation"](#).
NO >> Repair or replace harness.

5.CHECK ENCODER GROUND CIRCUIT 1

1. Turn ignition 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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D5	2	D7	6	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	2		Not existed

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Repair or replace harness.

6.CHECK ENCODER GROUND CIRCUIT 2

1. Connect power window main switch connector.

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	2		Existed

Is the inspection result normal?

- YES >> Replace front power window motor (driver side). Refer to [GW-29, "Removal and Installation"](#).
NO >> Replace power window main switch. Refer to [PWC-123, "Removal and Installation"](#).

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PWC

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:0000000011326076

1.CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-91, "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-96, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011326077

1.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check front power window motor (driver side).

Refer to [PWC-103, "DRIVER SIDE : Component Function Check"](#).

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. Refer to [PWC-123, "Removal and Installation"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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PWC

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

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

INFOID:0000000011326078

1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to [PWC-99, "Component Function Check"](#).

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-104, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

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

INFOID:0000000011326079

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

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

Refer to [PWC-97, "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-99, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326080

1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to [PWC-99, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

SLIDING DOOR LH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

SLIDING DOOR LH POWER WINDOW DOES NOT OPERATE

WHEN POWER WINDOW MAIN AND SLIDING DOOR LH POWER WINDOW SWITCHES ARE OPERATED

WHEN POWER WINDOW MAIN AND SLIDING DOOR LH POWER WINDOW SWITCHES ARE OPERATED : Diagnosis Procedure

INFOID:000000011326081

1.CHECK SLIDING DOOR POWER WINDOW SWITCH LH

Check sliding door power window switch LH.

Refer to [PWC-101, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW MOTOR LH

Check sliding door power window motor LH.

Refer to [PWC-105, "SLIDING DOOR 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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN SLIDING DOOR LH POWER WINDOW SWITCH IS OPERATED

WHEN SLIDING DOOR LH POWER WINDOW SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000011326082

1.CHECK SLIDING DOOR POWER WINDOW SWITCH LH POWER SUPPLY AND GROUND CIRCUIT

Check sliding door power window switch LH power supply and ground circuit.

Refer to [PWC-97, "SLIDING DOOR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW SWITCH LH

Check sliding door power window switch LH.

Refer to [PWC-101, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

SLIDING DOOR LH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326083

1.CHECK SLIDING DOOR POWER WINDOW SWITCH LH

Check sliding door power window switch LH.

Refer to [PWC-101, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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SLIDING DOOR RH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

SLIDING DOOR RH POWER WINDOW DOES NOT OPERATE

WHEN POWER WINDOW MAIN AND SLIDING DOOR RH POWER WINDOW SWITCHES ARE OPERATED

WHEN POWER WINDOW MAIN AND SLIDING DOOR RH POWER WINDOW SWITCHES ARE OPERATED : Diagnosis Procedure

INFOID:000000011326084

1.CHECK SLIDING DOOR POWER WINDOW SWITCH RH

Check sliding door power window switch RH.

Refer to [PWC-101, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW MOTOR RH

Check sliding door power window motor RH.

Refer to [PWC-105, "SLIDING DOOR RH : 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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN SLIDING DOOR RH POWER WINDOW SWITCH IS OPERATED

WHEN SLIDING DOOR RH POWER WINDOW SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000011326085

1.CHECK SLIDING DOOR POWER WINDOW SWITCH RH POWER SUPPLY AND GROUND CIRCUIT

Check sliding door power window switch RH power supply and ground circuit.

Refer to [PWC-97, "SLIDING DOOR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SLIDING DOOR POWER WINDOW SWITCH RH

Check sliding door power window switch RH.

Refer to [PWC-101, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

SLIDING DOOR RH POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:0000000011326086

1.CHECK SLIDING DOOR POWER WINDOW SWITCH RH

Check sliding door power window switch RH.

Refer to [PWC-101, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:0000000011326087

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-94, "Work Procedure"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-107, "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-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

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

Diagnosis Procedure

INFOID:0000000011326088

1.CHECK POWER WINDOW AUTO OPERATION

Check AUTO operation when anti-pinch function does not operate.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [PWC-118, "Diagnosis Procedure"](#).

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000011326089

1.CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [DLK-241, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000011326090

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to [PWC-123. "Removal and Installation"](#).

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POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[DRIVER SIDE WINDOW ANTI-PINCH]

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011326091

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

Refer to [PWC-123, "Removal and Installation"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011326092

1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to [PWC-123, "Removal and Installation"](#).

>> INSPECTION END

SLIDING DOOR LH

SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011326093

1.REPLACE SLIDING DOOR POWER WINDOW SWITCH LH

Replace sliding door power window switch LH.

Refer to [PWC-124, "Removal and Installation"](#).

>> INSPECTION END

SLIDING DOOR RH

SLIDING DOOR RH : Diagnosis Procedure

INFOID:0000000011326094

1.REPLACE SLIDING DOOR POWER WINDOW SWITCH RH

Replace sliding door power window switch RH.

Refer to [PWC-124, "Removal and Installation"](#).

>> INSPECTION END

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

[DRIVER SIDE WINDOW ANTI-PINCH]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000011326095

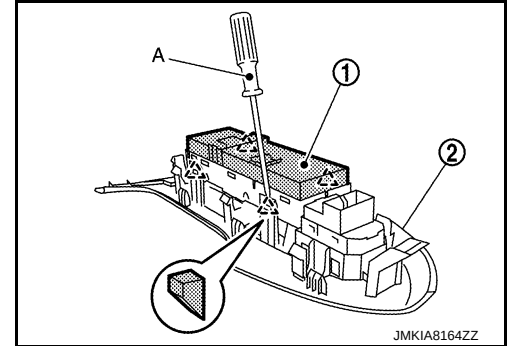
REMOVAL

1. Remove the power window main switch finisher. Refer to [INT-14. "Removal and Installation"](#).
2. Remove power window main switch (1) from power window main switch finisher (2) using a remover tool (A).

 : Pawl

NOTE:

The same procedure is also performed for front power window switch (passenger side).



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 [PWC-94. "Work Procedure"](#).

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SLIDING DOOR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

[DRIVER SIDE WINDOW ANTI-PINCH]

SLIDING DOOR POWER WINDOW SWITCH

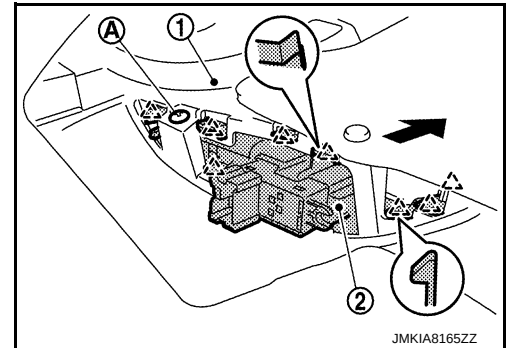
Removal and Installation

INFOID:000000011326096

REMOVAL

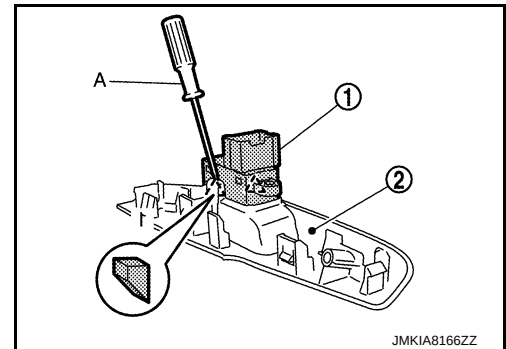
1. Remove sliding door finisher. Refer to [INT-17. "Removal and Installation"](#).
2. Remove screw (A), disconnect pawls from sliding door finisher (1), and then remove power window switch finisher (2).

 : Pawl



3. Remove power window switch (1) from power window switch finisher (2) using a remover tool (A).

 : Pawl



INSTALLATION

Install in the reverse order of removal.