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:0000000014625492

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service.**

Precaution for Work

INFOID:0000000014625493

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

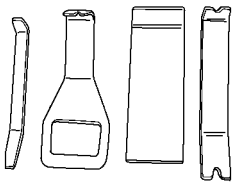
PREPARATION

PREPARATION

Special Service Tool

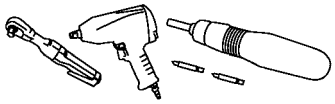
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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000014625495

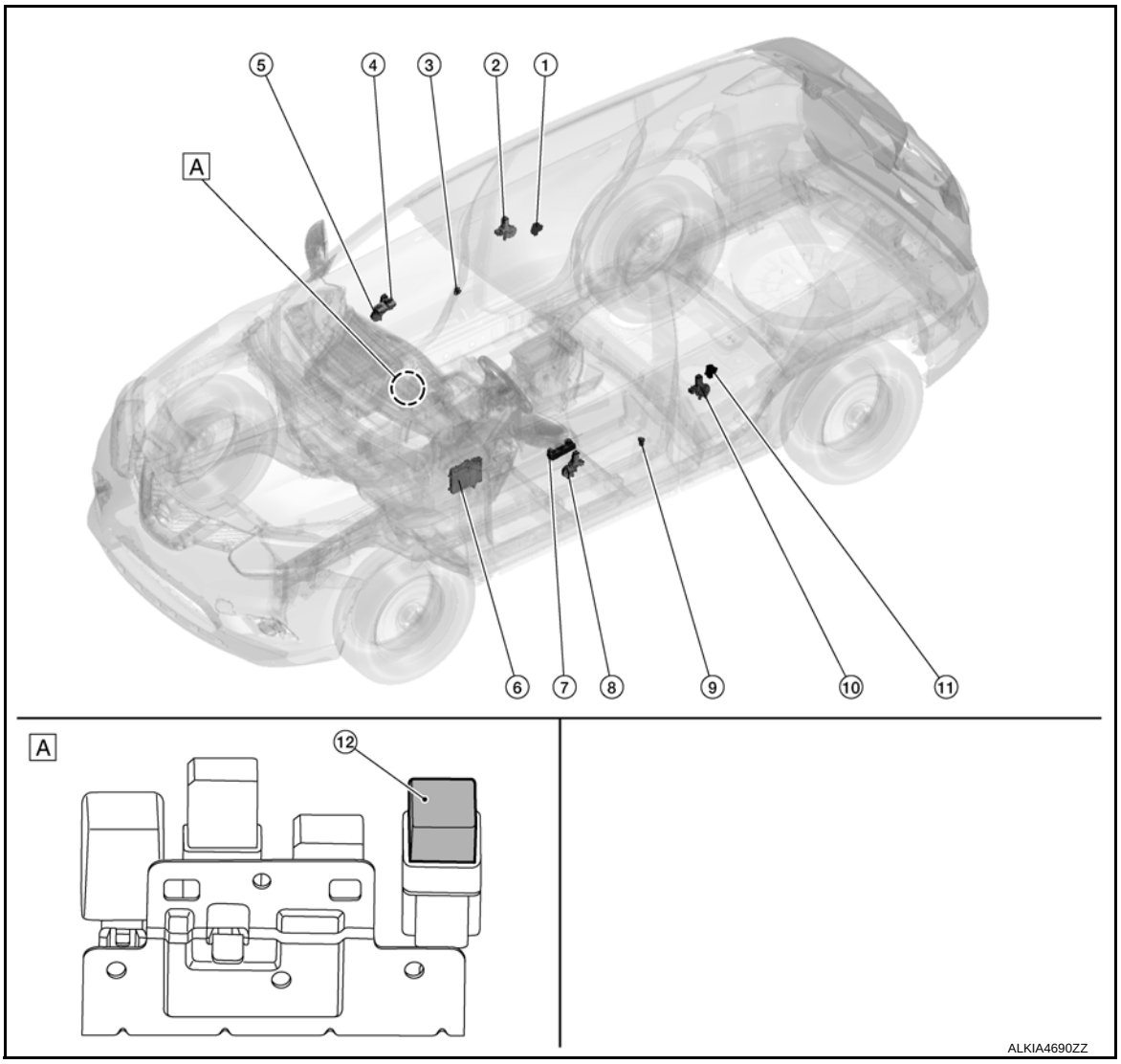
(TechMate No.) Tool name	Description
(—) Power tool  PIIB1407E	Loosening nuts, screws and bolts

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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A. Relay block (shown with AC control unit removed)

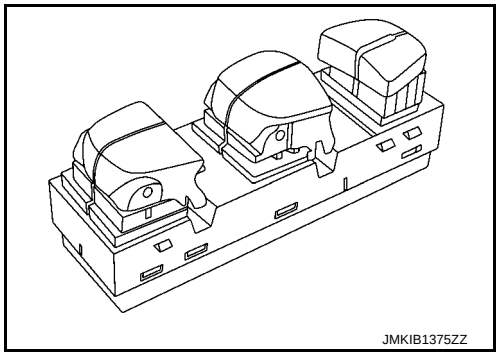
No.	Component parts	Function
1.	Rear power window switch RH	Refer to PWC-7, "Rear Power Window Switch".
2.	Rear power window motor RH	Refer to PWC-8, "Power Window Motor".
3.	Front door switch RH	• Inputs door open/close condition to BCM. • Refer to DLK-21, "Front Door Switch".
4.	Power window and door lock/unlock switch RH	Refer to PWC-7, "Power Window Switch RH".
5.	Front power window motor RH	Refer to PWC-8, "Power Window Motor".
6.	BCM	• Supplies power supply to power window relay. • Controls retained power. • Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.

No.	Component parts	Function
7.	Main power window and door lock/unlock switch	Refer to PWC-7, "Main Power Window And Door Lock/Unlock Switch".
8.	Front power window motor LH	Refer to PWC-8, "Power Window Motor".
9.	Front door switch LH	• Inputs door open/close condition to BCM. • Refer to DLK-21, "Front Door Switch".
10.	Rear power window motor LH	Refer to PWC-8, "Power Window Motor".
11.	Rear power window switch LH	Refer to PWC-7, "Rear Power Window Switch".
12.	Power window relay	Operates the power window system with the control signal from the BCM.

Main Power Window And Door Lock/Unlock Switch

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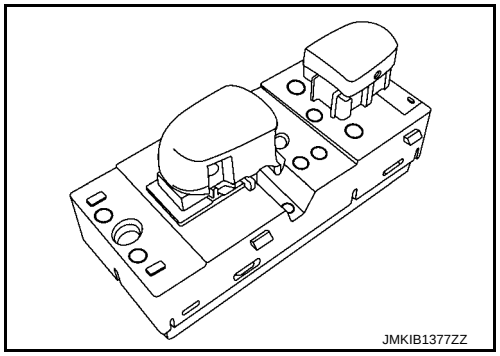
- Main power window and door lock/unlock switch controls all power windows.
- Main power window and door lock/unlock switch integrates UP/DOWN switch, power window lock switch, and door lock/unlock switch.
- Main power window and door lock/unlock switch controls power window lock function, AUTO UP/DOWN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


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Power Window Switch RH

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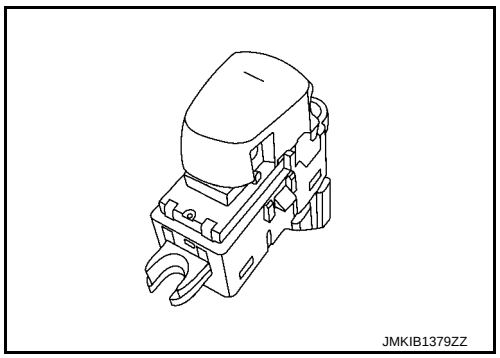
- Power window and door lock/unlock switch RH transmits UP/DOWN signal to front power window motor RH.
- Power window and door lock/unlock switch RH transmits UP/DOWN signal from main power window and door lock/unlock switch to front power window motor RH.
- Power window and door lock/unlock switch RH integrates UP/DOWN switch and door lock/unlock switch.


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Rear Power Window Switch

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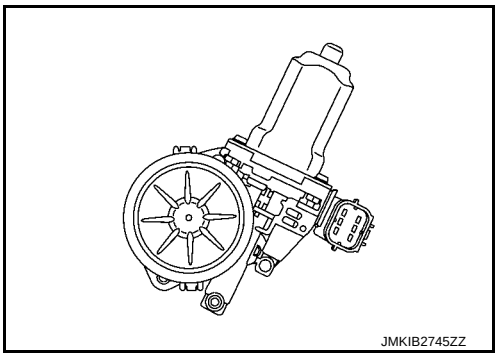
- Each rear power window switch transmits UP/DOWN signal to each rear power window motor.
- Each rear power window switch transmits UP/DOWN signal from main power window and door lock/unlock switch to each rear power window motor.


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Power Window Motor

INFOID:0000000014625500

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

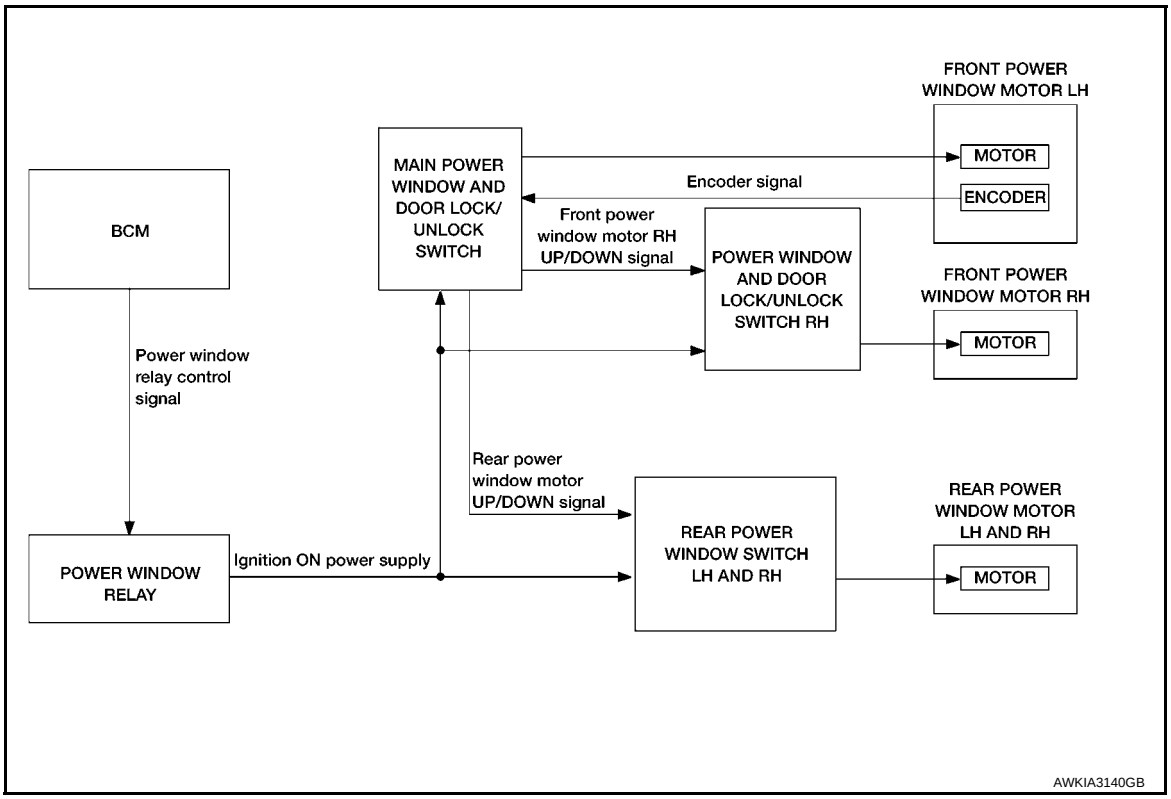

JMKIB2745ZZ

SYSTEM

System Description

INFOID:0000000014625501

SYSTEM DIAGRAM



POWER WINDOW OPERATION

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

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)

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

RETAINED POWER OPERATION

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

RETAINED POWER CANCEL CONDITIONS:

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

POWER WINDOW LOCK

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

ANTI-PINCH SYSTEM (FRONT DRIVER SIDE)

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

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

OPERATION CONDITION

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

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

Fail Safe

INFOID:0000000014625502

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
- Retained power function

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

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000015231187

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions.

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

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000015231188

DATA MONITOR

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

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000014625507

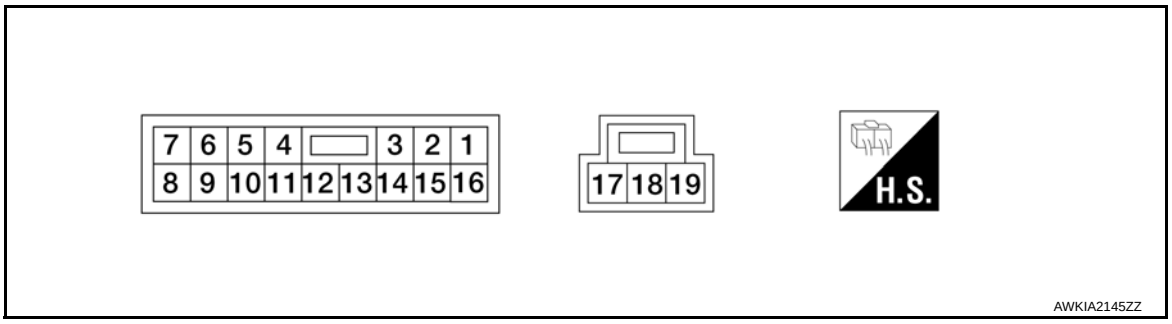
ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-46, "Fail-safe"
	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

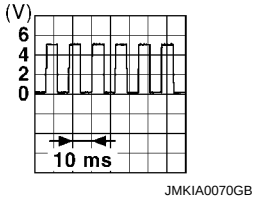
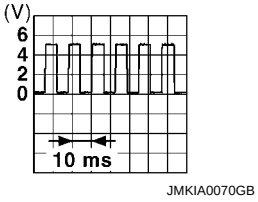
Reference Value

INFOID:0000000014625508

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage (Approx.)
+	-	Signal name	Input/ Output		
1 (B)	Ground	Ground	—	—	0
2 (GR)	16 (L)	Front power window motor RH DOWN signal	Output	When the front RH switch on the main power window and door lock/unlock is operated in the DOWN position.	Battery voltage
3 (L)	Ground	Door lock actuator signal	Output	—	—
4 (R)	12 (Y)	Encoder pulse signal 2	Input	When the power window motor operates.	 JMKIA0070GB
5 (W)	12 (Y)	Encoder pulse signal 1	Input	When the power window motor operates.	 JMKIA0070GB
6 (P)	Ground	Rear power window motor RH DOWN signal	Output	When the rear RH switch on the main power window and door lock/unlock is operated in the DOWN position.	Battery voltage
7 (LG)	Ground	Rear power window motor RH UP signal	Output	When the rear RH switch on the main power window and door lock/unlock is operated in the UP position.	Battery voltage

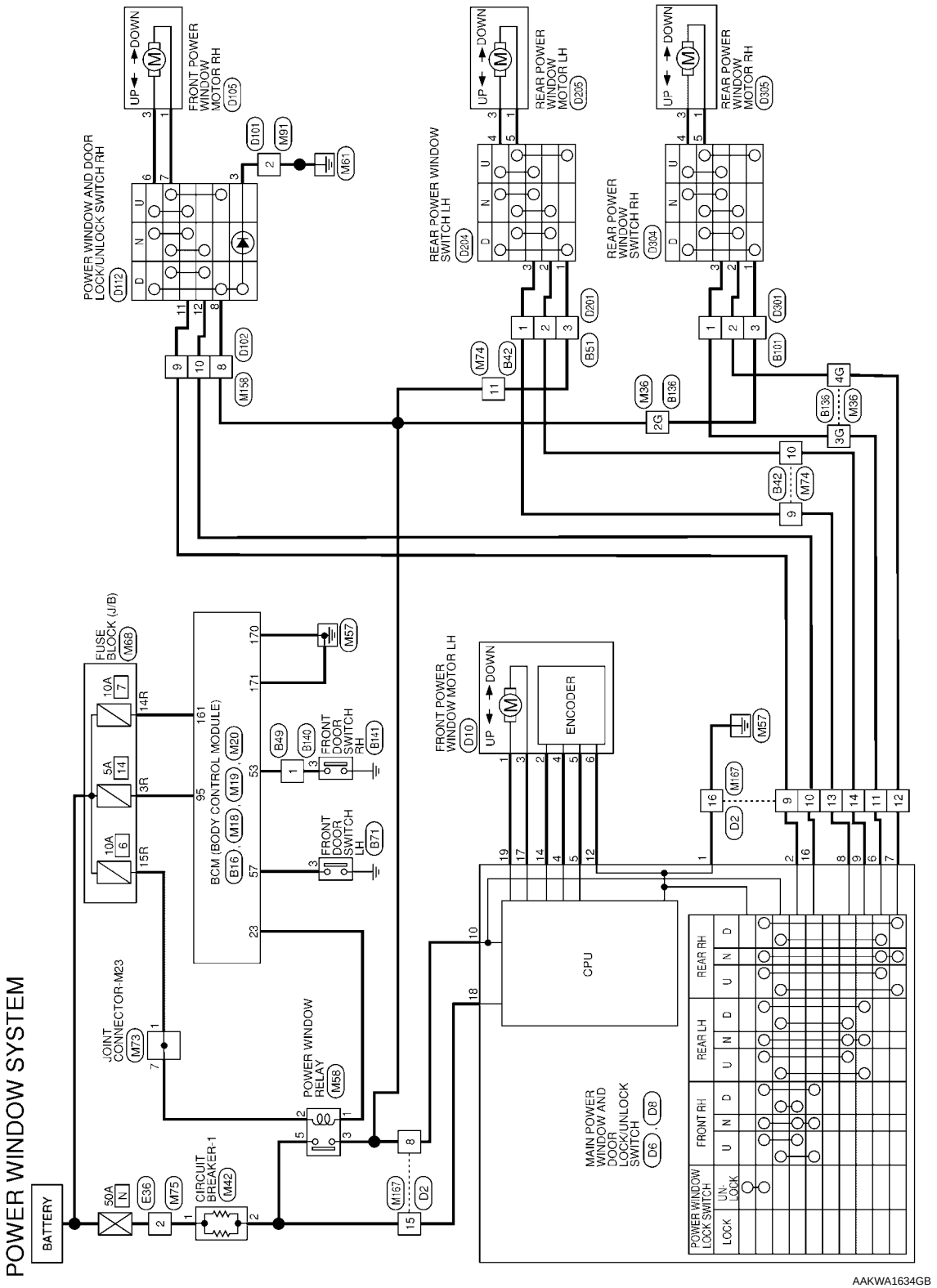
Terminal No. (Wire color)		Description		Condition	Voltage (Approx.)
+	-	Signal name	Input/ Output		
8 (Y)	Ground	Rear power window motor LH DOWN signal	Output	When the rear LH switch on the main power window and door lock/unlock is operated in the DOWN position.	Battery voltage
9 (V)	Ground	Rear power window motor LH UP signal	Output	When the rear LH switch on the main power window and door lock/unlock is operated in the UP position.	Battery voltage
10 (SB)	Ground	Ignition power supply	Input	IGN SW ON	Battery voltage
				IGN SW OFF	0
12 (Y)	Ground	Encoder ground	—	—	0
14 (G)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	10
15 (BG)	Ground	Door lock actuator signal	Output	—	Battery voltage
16 (L)	2 (GR)	Front power window motor RH UP signal	Output	When the front RH switch on the main power window and door lock/unlock is operated in the UP position.	Battery voltage
17 (LA/L)	19 (LA/BR)	Front power window motor LH UP signal	Output	When the front LH switch on the main power window and door lock/unlock is operated in the UP position.	Battery voltage
18 (R)	Ground	Battery power supply	Input	—	Battery voltage
19 (LA/BR)	17 (LA/L)	Front power window motor LH DOWN signal	Output	When the front LH switch on the main power window and door lock/unlock is operated in the DOWN position.	Battery voltage

WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram

INFOID:0000000014625509



POWER WINDOW SYSTEM CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.

60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	I SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	I NO TOUCH TGATE SENSOR
50	W	I RR DOOR SW
51	LG	I TGATE SW
52	R	I RL DOOR SW
53	SB	I AS DOOR2 SW
54	–	–
55	LA/G	I RR AUTOSTOP SW
56	Y	I TGATE OPENER SW
57	SB	I DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

78	–	–
79	LA/W	O STOP LAMP3
80	P	CAN-L

Connector No.	B42
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO MAIN HARNESS
2	LG	TO MAIN HARNESS
3	V	TO MAIN HARNESS
4	LA/G	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	BG	TO MAIN HARNESS
7	LA/R	TO MAIN HARNESS
8	LA/GR	TO MAIN HARNESS (WITH AUTOMATIC DRIVE POSITIONER)
8	LA/G	TO MAIN HARNESS (WITHOUT AUTOMATIC DRIVE POSITIONER)
9	LA/P	TO MAIN HARNESS
10	LA/R	TO MAIN HARNESS
11	LA/V	TO MAIN HARNESS
12	LA/Y	TO MAIN HARNESS
13	LA/GR	TO MAIN HARNESS
14	LA/BG	TO MAIN HARNESS
15	LA/BR	TO MAIN HARNESS
16	R	TO MAIN HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name

1	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

1	2	3		4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
1	LA/P	TO REAR DOOR LH HARNESS
2	LA/R	TO REAR DOOR LH HARNESS
3	LA/V	TO REAR DOOR LH HARNESS
4	–	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	W	TO REAR DOOR LH HARNESS
7	L	TO REAR DOOR LH HARNESS
8	LA/GR	TO REAR DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
8	LA/G	TO REAR DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
9	LA/Y	TO REAR DOOR LH HARNESS (WITHOUT BOSE AUDIO SYSTEM)
9	LA/P	TO REAR DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	–	TO REAR DOOR LH HARNESS
11	–	TO REAR DOOR LH HARNESS
12	–	TO REAR DOOR LH HARNESS

Connector No.	B71
Connector Name	FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	SB	I DR DOOR2 SW
4	–	–

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

1	2	3		4	5
6	7	8	9	10	11	12

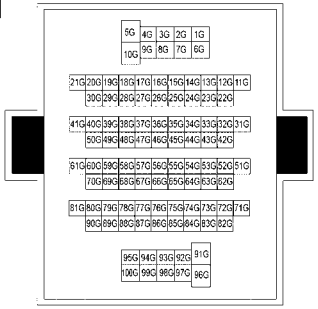
Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR RH HARNESS
2	L	TO REAR DOOR RH HARNESS
3	LA/P	TO REAR DOOR RH HARNESS
4	LA/V	TO REAR DOOR RH HARNESS (WITHOUT BOSE AUDIO SYSTEM)
4	LG	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
5	LA/Y	TO REAR DOOR RH HARNESS (WITHOUT BOSE AUDIO SYSTEM)
5	V	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
6	LA/GR	TO REAR DOOR RH HARNESS
7	LA/LG	TO REAR DOOR RH HARNESS
8	–	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	–	TO REAR DOOR RH HARNESS
12	–	TO REAR DOOR RH HARNESS

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POWER WINDOW SYSTEM CONNECTORS

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

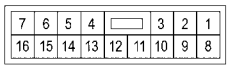
H.S.



Terminal No.	Color of Wire	Signal Name
1G	LA/GR	TO MAIN HARNESS
2G	LA/P	TO MAIN HARNESS
3G	Y	TO MAIN HARNESS
4G	L	TO MAIN HARNESS
5G	G	TO MAIN HARNESS
6G	LA/BR	TO MAIN HARNESS
7G	BR	TO MAIN HARNESS
8G	LA/L	TO MAIN HARNESS
9G	LA/R	TO MAIN HARNESS
10G	R	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	Y	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	–	TO MAIN HARNESS
15G	Y	TO MAIN HARNESS
16G	–	TO MAIN HARNESS
17G	–	TO MAIN HARNESS
18G	R	TO MAIN HARNESS
19G	R	TO MAIN HARNESS
20G	W	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	P	TO MAIN HARNESS
23G	L	TO MAIN HARNESS
24G	W	TO MAIN HARNESS
25G	L	TO MAIN HARNESS
26G	–	TO MAIN HARNESS
27G	–	TO MAIN HARNESS
28G	–	TO MAIN HARNESS
29G	SB	TO MAIN HARNESS
30G	–	TO MAIN HARNESS
31G	–	TO MAIN HARNESS
32G	–	TO MAIN HARNESS
33G	–	TO MAIN HARNESS
34G	V	TO MAIN HARNESS
35G	BR	TO MAIN HARNESS
36G	SHIELD	TO MAIN HARNESS
37G	LG	TO MAIN HARNESS
38G	V	TO MAIN HARNESS
39G	SHIELD	TO MAIN HARNESS
40G	G	TO MAIN HARNESS
41G	R	TO MAIN HARNESS
42G	–	TO MAIN HARNESS
43G	–	TO MAIN HARNESS
44G	BG	TO MAIN HARNESS
45G	SHIELD	TO MAIN HARNESS
46G	W	TO MAIN HARNESS
47G	R	TO MAIN HARNESS
48G	SHIELD	TO MAIN HARNESS
49G	L	TO MAIN HARNESS
50G	Y	TO MAIN HARNESS
51G	–	TO MAIN HARNESS
52G	–	TO MAIN HARNESS
53G	–	TO MAIN HARNESS
54G	–	TO MAIN HARNESS
55G	–	TO MAIN HARNESS
56G	–	TO MAIN HARNESS
57G	–	TO MAIN HARNESS
58G	–	TO MAIN HARNESS
59G	–	TO MAIN HARNESS
60G	GR	TO MAIN HARNESS
61G	V	TO MAIN HARNESS
62G	–	TO MAIN HARNESS
63G	–	TO MAIN HARNESS
64G	–	TO MAIN HARNESS
65G	–	TO MAIN HARNESS
66G	–	TO MAIN HARNESS
67G	–	TO MAIN HARNESS
68G	–	TO MAIN HARNESS
69G	–	TO MAIN HARNESS
70G	–	TO MAIN HARNESS
71G	–	TO MAIN HARNESS
72G	–	TO MAIN HARNESS
73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	–	TO MAIN HARNESS
76G	–	TO MAIN HARNESS
77G	–	TO MAIN HARNESS
78G	LA/R	TO MAIN HARNESS
79G	LA/V	TO MAIN HARNESS
80G	LA/B	TO MAIN HARNESS
81G	LA/L	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	–	TO MAIN HARNESS
90G	–	TO MAIN HARNESS
91G	R	TO MAIN HARNESS
92G	BR	TO MAIN HARNESS
93G	W	TO MAIN HARNESS
94G	LA/V	TO MAIN HARNESS
95G	V	TO MAIN HARNESS
96G	G	TO MAIN HARNESS
97G	P	TO MAIN HARNESS
98G	GR	TO MAIN HARNESS
99G	LA/Y	TO MAIN HARNESS
100G	Y	TO MAIN HARNESS

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

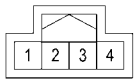
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

Connector No.	B141
Connector Name	FRONT DOOR SWITCH RH
Connector Type	TH04FW-NH
Connector Color	WHITE

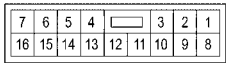
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	GR	I AS DOOR2 SW
4	–	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	V	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	P	TO MAIN HARNESS
6	L/L	TO MAIN HARNESS
7	LA/BR	TO MAIN HARNESS
8	SB	TO MAIN HARNESS
9	GR	TO MAIN HARNESS
10	L	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	V	TO MAIN HARNESS
15	R	TO MAIN HARNESS
16	B	TO MAIN HARNESS

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POWER WINDOW SYSTEM CONNECTORS

Connector No.	D6
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	GR	MOTOR DN AS UNLOCK SW
3	L	LOCK SW
4	R	ENCODER SIG-2
5	W	ENCODER SIG-1
6	P	MOTOR DN RR
7	LG	MOTOR UP RR
8	Y	MOTOR DN RL
9	V	MOTOR UP RL
10	SB	IGN
11	–	–
12	Y	ENCODER GND
13	–	–
14	G	ENCODER +
15	BG	UNLOCK SW
16	L	MOTOR UP AS

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Type	NS03FW-CS
Connector Color	WHITE

H.S.

17	18	19

Terminal No.	Color of Wire	Signal Name
17	LA/L	MOTOR UP DR
18	R	B+
19	LA/BR	MOTOR DN DR

Connector No.	D10
Connector Name	FRONT POWER WINDOW MOTOR LH
Connector Type	RS06FG
Connector Color	GREEN

H.S.

3	2	1
6	5	4

Terminal No.	Color of Wire	Signal Name
1	LA/BR	MOTOR DN DR
2	G	ENCODER +
3	LA/L	MOTOR UP DR
4	R	ENCODER SIG-2
5	W	ENCODER SIG-1
6	Y	ENCODER GND

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	P	TO MAIN HARNESS
5	R	TO MAIN HARNESS
6	SB	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	B	TO MAIN HARNESS
11	G	TO MAIN HARNESS
12	LA/V	TO MAIN HARNESS
13	LA/Y	TO MAIN HARNESS
14	LA/R	TO MAIN HARNESS
15	LA/V	TO MAIN HARNESS
16	LA/L	TO MAIN HARNESS
17	LA/BG	TO MAIN HARNESS
18	GR	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LA/G	TO MAIN HARNESS
22	LA/SB	TO MAIN HARNESS
23	LA/BG	TO MAIN HARNESS
24	LA/Y	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LA/B	TO MAIN HARNESS
2	LA/G	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
2	B	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	–	TO MAIN HARNESS
7	–	TO MAIN HARNESS
8	GR	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	L	TO MAIN HARNESS
12	V	TO MAIN HARNESS
13	LA/R	TO MAIN HARNESS
14	LA/G	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS

Connector No.	D105
Connector Name	FRONT POWER WINDOW MOTOR RH
Connector Type	RS06FG
Connector Color	GREEN

H.S.

3	2	1
6	5	4

Terminal No.	Color of Wire	Signal Name
1	LA/R	POWER WINDOW SWITCH OUTPUT (UP)
2	–	–
3	LA/L	POWER WINDOW SWITCH OUTPUT (DOWN)
4	–	–
5	–	–
6	–	–

Connector No.	D112
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

1	2		3	4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
1	LG	LOCK SW
2	BR	UNLOCK SW
3	B	GROUND
4	–	–
5	–	–
6	LA/L	ASST DN
7	LA/R	ASST UP
8	GR	IGNITION
9	–	–
10	–	–
11	Y	MAIN DN
12	BR	MAIN UP

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POWER WINDOW SYSTEM CONNECTORS

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/Y	TO BODY HARNESS
2	LA/BR	TO BODY HARNESS
3	LA/GR	TO BODY HARNESS
4	–	TO BODY HARNESS
5	–	TO BODY HARNESS
6	LA/V	TO BODY HARNESS
7	LA/G	TO BODY HARNESS
8	LA/R	TO BODY HARNESS
9	LA/L	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS

Connector No.	D204
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/GR	IGNITION
2	LA/BR	MOTOR UP RL
3	LA/Y	MOTOR DN RL
4	LA/G	DOWN
5	LA/R	UP
6	–	–
7	–	–
8	–	–

Connector No.	D205
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	RS06FG
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/R	POWER WINDOW SWITCH OUTPUT (DOWN)
2	–	–
3	LA/G	POWER WINDOW SWITCH OUTPUT (UP)
4	–	–
5	–	–

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/Y	TO BODY NO. 2 HARNESS
2	LA/BR	TO BODY NO. 2 HARNESS
3	LA/GR	TO BODY NO. 2 HARNESS
4	LA/V	TO BODY NO. 2 HARNESS
5	LA/Y	TO BODY NO. 2 HARNESS
6	LA/W	TO BODY NO. 2 HARNESS
7	LA/L	TO BODY NO. 2 HARNESS
8	–	TO BODY NO. 2 HARNESS
9	–	TO BODY NO. 2 HARNESS
10	–	TO BODY NO. 2 HARNESS
11	–	TO BODY NO. 2 HARNESS
12	–	TO BODY NO. 2 HARNESS

Connector No.	D304
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/GR	IGNITION
2	LA/BR	MOTOR UP RR
3	LA/Y	MOTOR DN RR
4	LA/G	DOWN
5	LA/R	UP
6	–	–
7	–	–
8	–	–

Connector No.	D305
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	RS06FG
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/R	POWER WINDOW SWITCH OUTPUT (DOWN)
2	–	–
3	LA/G	POWER WINDOW SWITCH OUTPUT (UP)
4	–	–
5	–	–
6	–	–

Connector No.	E36
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO MAIN HARNESS
2	W	TO MAIN HARNESS

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POWER WINDOW SYSTEM CONNECTORS

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	O DI FR LEFT D
3	LA/Y	O DI FR RIGHT D
4	P	O SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	I DOORLOCK SW
11	Y	I HAZARD SW D
12	W	O PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	O PWR ATDVC
18	–	–
19	LG	I AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	O WL AUTHORIZATION RL
24	LA/R	O DEFROSTER RL D
25	BR	O BAT TEMP1 RL
26	–	–
27	Y	O IGN1 RL
28	LA/W	O IGN2 RL
29	–	–
30	V	O GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	O CSW 5
34	Y	I CSW 5
35	BG	O SECURITY LED
36	G	O CSW 3
37	GR	O CSW 4
38	V	O CSW 1
39	W	O CSW 2
40	SB	I DOORUNLOCK SW

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK

H.S.

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	I SES FR HANDLE BUTTON SW
83	–	–
84	BR	I CSW 2
85	SB	I CSW 1
86	P	I CSW 3
87	BG	I CSW 4
88	W	O START SW BACKLIGHT LED
89	Y	I START WO ESCL SW
90	–	–
91	–	–
92	BR	I KEY CYLINDER LOCK SW
93	P	I KEY CYLINDER UNLOCK SW
94	G	I AT LOCKED IN PARK SW
95	V	I SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	I DR KNOB SW
105	Y	I SES DR HANDLE BUTTON SW
106	W	O AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	O MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	O IMMOBILIZER KAZASHI B
115	W	O IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

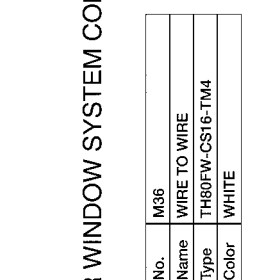
Terminal No.	Color of Wire	Signal Name
161	W	I PWR ECU
162	SB	O PWM ROOMLAMP 1
163	L	O AS LOCK OR UNLOCK D
164	–	–
165	V	O DR OR FR LOCK D
166	–	–
167	LA/V	I PWR DOORLOCK1
168	BG	I PWR FLASHERS
169	GR	I PWR STOP LAMP
170	B	I GND1
171	B	I GND2
172	G	O FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	I PWR DOORLOCK2
176	LG	I PWR WIPER

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POWER WINDOW SYSTEM CONNECTORS

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1G	LA/R	TO BODY NO. 2 HARNESS
2G	W	TO BODY NO. 2 HARNESS
3G	Y	TO BODY NO. 2 HARNESS
4G	BG	TO BODY NO. 2 HARNESS
5G	G	TO BODY NO. 2 HARNESS
6G	SB	TO BODY NO. 2 HARNESS
7G	P	TO BODY NO. 2 HARNESS
8G	LA/Y	TO BODY NO. 2 HARNESS
9G	LA/W	TO BODY NO. 2 HARNESS
10G	R	TO BODY NO. 2 HARNESS
11G	G	TO BODY NO. 2 HARNESS
12G	L	TO BODY NO. 2 HARNESS
13G	BR	TO BODY NO. 2 HARNESS
14G	–	TO BODY NO. 2 HARNESS
15G	Y	TO BODY NO. 2 HARNESS
16G	–	TO BODY NO. 2 HARNESS
17G	–	TO BODY NO. 2 HARNESS
18G	R	TO BODY NO. 2 HARNESS
19G	LA/R	TO BODY NO. 2 HARNESS
20G	W	TO BODY NO. 2 HARNESS
21G	BR	TO BODY NO. 2 HARNESS
22G	P	TO BODY NO. 2 HARNESS
23G	L	TO BODY NO. 2 HARNESS
24G	W	TO BODY NO. 2 HARNESS
25G	L	TO BODY NO. 2 HARNESS

26G	–	TO BODY NO. 2 HARNESS
27G	–	TO BODY NO. 2 HARNESS
28G	–	TO BODY NO. 2 HARNESS
29G	–	TO BODY NO. 2 HARNESS
30G	–	TO BODY NO. 2 HARNESS
31G	–	TO BODY NO. 2 HARNESS
32G	–	TO BODY NO. 2 HARNESS
33G	–	TO BODY NO. 2 HARNESS
34G	V	TO BODY NO. 2 HARNESS
35G	BR	TO BODY NO. 2 HARNESS
36G	SHIELD	TO BODY NO. 2 HARNESS
37G	LG	TO BODY NO. 2 HARNESS
38G	V	TO BODY NO. 2 HARNESS
39G	SHIELD	TO BODY NO. 2 HARNESS
40G	G	TO BODY NO. 2 HARNESS
41G	R	TO BODY NO. 2 HARNESS
42G	–	TO BODY NO. 2 HARNESS
43G	–	TO BODY NO. 2 HARNESS
44G	BG	TO BODY NO. 2 HARNESS
45G	SHIELD	TO BODY NO. 2 HARNESS
46G	L	TO BODY NO. 2 HARNESS
47G	Y	TO BODY NO. 2 HARNESS
48G	SHIELD	TO BODY NO. 2 HARNESS
49G	W	TO BODY NO. 2 HARNESS
50G	R	TO BODY NO. 2 HARNESS
51G	–	TO BODY NO. 2 HARNESS
52G	–	TO BODY NO. 2 HARNESS
53G	–	TO BODY NO. 2 HARNESS
54G	–	TO BODY NO. 2 HARNESS
55G	–	TO BODY NO. 2 HARNESS
56G	–	TO BODY NO. 2 HARNESS
57G	–	TO BODY NO. 2 HARNESS
58G	–	TO BODY NO. 2 HARNESS
59G	–	TO BODY NO. 2 HARNESS
60G	GR	TO BODY NO. 2 HARNESS
61G	BR	TO BODY NO. 2 HARNESS
62G	–	TO BODY NO. 2 HARNESS
63G	–	TO BODY NO. 2 HARNESS
64G	–	TO BODY NO. 2 HARNESS
65G	–	TO BODY NO. 2 HARNESS
66G	–	TO BODY NO. 2 HARNESS
67G	–	TO BODY NO. 2 HARNESS
68G	–	TO BODY NO. 2 HARNESS
69G	–	TO BODY NO. 2 HARNESS
70G	–	TO BODY NO. 2 HARNESS
71G	–	TO BODY NO. 2 HARNESS
72G	–	TO BODY NO. 2 HARNESS
73G	–	TO BODY NO. 2 HARNESS
74G	–	TO BODY NO. 2 HARNESS
76G	–	TO BODY NO. 2 HARNESS
77G	–	TO BODY NO. 2 HARNESS
78G	LA/Y	TO BODY NO. 2 HARNESS
79G	LA/V	TO BODY NO. 2 HARNESS

80G	LA/B	TO BODY NO. 2 HARNESS
81G	LA/L	TO BODY NO. 2 HARNESS
82G	–	TO BODY NO. 2 HARNESS
83G	–	TO BODY NO. 2 HARNESS
84G	–	TO BODY NO. 2 HARNESS
85G	–	TO BODY NO. 2 HARNESS
86G	–	TO BODY NO. 2 HARNESS
87G	–	TO BODY NO. 2 HARNESS
88G	–	TO BODY NO. 2 HARNESS
89G	–	TO BODY NO. 2 HARNESS
90G	–	TO BODY NO. 2 HARNESS
91G	R	TO BODY NO. 2 HARNESS
92G	LA/L	TO BODY NO. 2 HARNESS
93G	W	TO BODY NO. 2 HARNESS
94G	LG	TO BODY NO. 2 HARNESS
95G	GR	TO BODY NO. 2 HARNESS
96G	SB	TO BODY NO. 2 HARNESS
97G	LA/BR	TO BODY NO. 2 HARNESS
98G	GR	TO BODY NO. 2 HARNESS
99G	Y	TO BODY NO. 2 HARNESS
100G	V	TO BODY NO. 2 HARNESS

Connector No.	M42
Connector Name	CIRCUIT BREAKER-1
Connector Type	M02FW-P-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	P	PWD PTC

Connector No.	M58
Connector Name	POWER WINDOW RELAY
Connector Type	24347_9F900
Connector Color	BLUE

H.S.



Terminal No.	Color of Wire	Signal Name
1	G	RELAY CONTROL
2	W	BATTERY
3	L	RELAY OUTPUT
5	P	BATTERY

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



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

Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

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POWER WINDOW SYSTEM CONNECTORS

Connector No.	M73
Connector Name	JOINT CONNECTOR-M23
Connector Type	SAC08JW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	GR	BATTERY
3	W	BATTERY
4	W	BATTERY
5	W	BATTERY
6	W	BATTERY
7	W	BATTERY
8	W	BATTERY

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS
2	LG	TO BODY HARNESS
3	V	TO BODY HARNESS
4	Y	TO BODY HARNESS
5	W	TO BODY HARNESS
6	BG	TO BODY HARNESS
7	SB	TO BODY HARNESS
8	BR	TO BODY HARNESS
9	LA/G	TO BODY HARNESS
10	LA/R	TO BODY HARNESS
11	LG	TO BODY HARNESS
12	GR	TO BODY HARNESS
13	BR	TO BODY HARNESS
14	LA/L	TO BODY HARNESS
15	LA/BR	TO BODY HARNESS

16	GR	TO BODY HARNESS

Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO ENGINE ROOM HARNESS
2	W	TO ENGINE ROOM HARNESS

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR RH HARNESS
2	GR	TO FRONT DOOR RH HARNESS
3	GR	TO FRONT DOOR RH HARNESS
4	W	TO FRONT DOOR RH HARNESS
5	P	TO FRONT DOOR RH HARNESS
6	SB	TO FRONT DOOR RH HARNESS
7	B	TO FRONT DOOR RH HARNESS
8	L	TO FRONT DOOR RH HARNESS
9	Y	TO FRONT DOOR RH HARNESS
10	SHIELD	TO FRONT DOOR RH HARNESS
11	G	TO FRONT DOOR RH HARNESS
12	V	TO FRONT DOOR RH HARNESS
13	LA/SB	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
13	Y	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	LA/GR	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
14	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	LA/V	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	V	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
16	LA/L	TO FRONT DOOR RH HARNESS
17	LA/BG	TO FRONT DOOR RH HARNESS
18	GR	TO FRONT DOOR RH HARNESS
19	LG	TO FRONT DOOR RH HARNESS
20	BR	TO FRONT DOOR RH HARNESS
21	LA/Y	TO FRONT DOOR RH HARNESS
22	SB	TO FRONT DOOR RH HARNESS
23	BG	TO FRONT DOOR RH HARNESS
24	Y	TO FRONT DOOR RH HARNESS

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR RH HARNESS
2	GR	TO FRONT DOOR RH HARNESS
3	–	TO FRONT DOOR RH HARNESS
4	–	TO FRONT DOOR RH HARNESS
5	–	TO FRONT DOOR RH HARNESS
6	–	TO FRONT DOOR RH HARNESS
7	–	TO FRONT DOOR RH HARNESS
8	SB	TO FRONT DOOR RH HARNESS
9	LA/BR	TO FRONT DOOR RH HARNESS
10	LA/GR	TO FRONT DOOR RH HARNESS
11	L	TO FRONT DOOR RH HARNESS
12	Y	TO FRONT DOOR RH HARNESS
13	GR	TO FRONT DOOR RH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
13	R	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
14	W	TO FRONT DOOR RH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
14	SB	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
15	–	TO FRONT DOOR RH HARNESS
16	–	TO FRONT DOOR RH HARNESS

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G	TO FRONT DOOR LH HARNESS
4	BR	TO FRONT DOOR LH HARNESS
5	P	TO FRONT DOOR LH HARNESS
6	Y	TO FRONT DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
6	LA/L	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
7	R	TO FRONT DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
7	LA/BR	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	L	TO FRONT DOOR LH HARNESS
9	LA/BR	TO FRONT DOOR LH HARNESS
10	LA/GR	TO FRONT DOOR LH HARNESS
11	Y	TO FRONT DOOR LH HARNESS
12	BG	TO FRONT DOOR LH HARNESS
13	LA/G	TO FRONT DOOR LH HARNESS
14	LA/R	TO FRONT DOOR LH HARNESS
15	P	TO FRONT DOOR LH HARNESS
16	B	TO FRONT DOOR LH HARNESS

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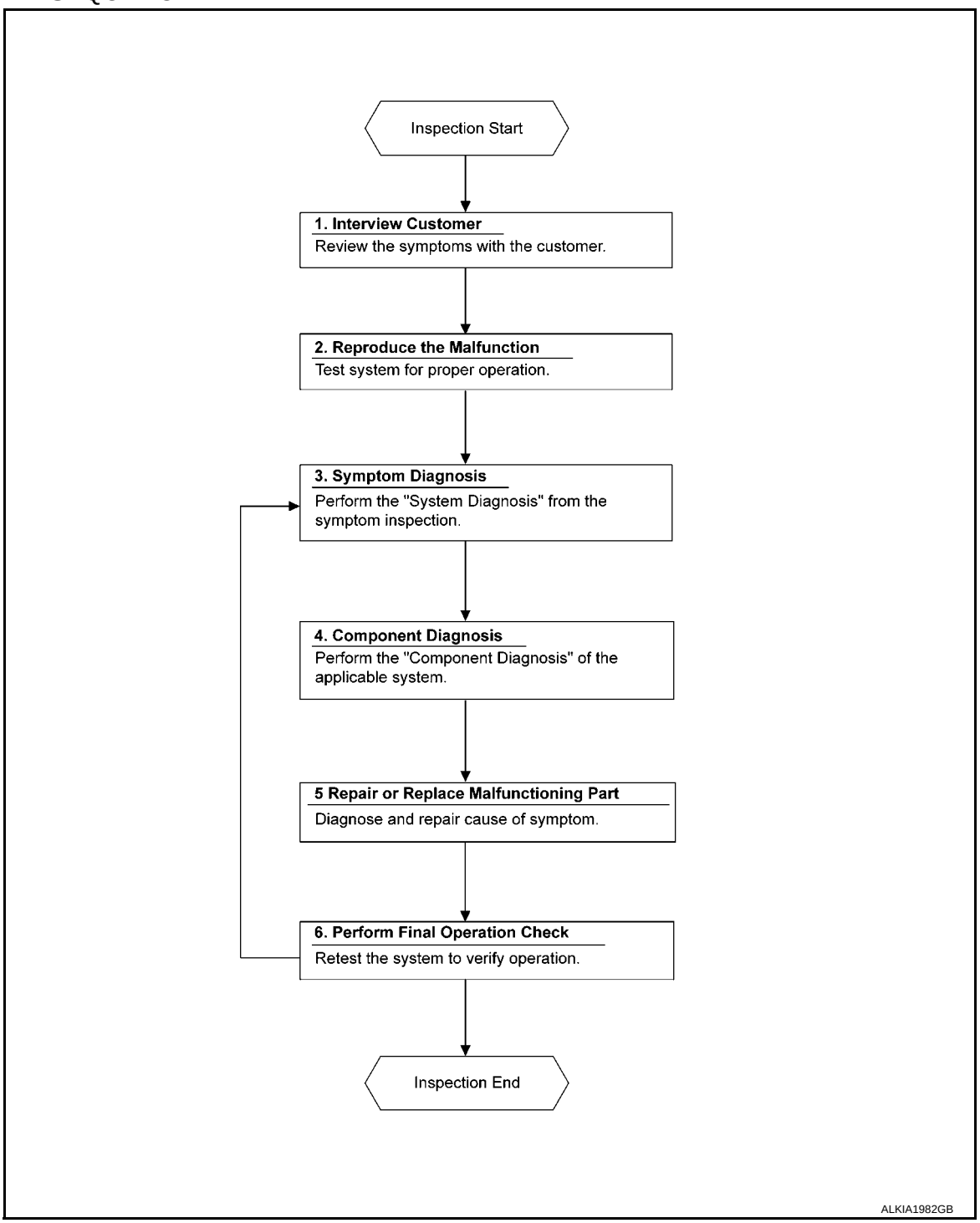
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000014625510

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW CUSTOMER

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

>> GO TO 2.

2. REPRODUCE THE MALFUNCTION

Reproduce 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. SYMPTOM DIAGNOSIS

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

>> GO TO 4.

4. COMPONENT DIAGNOSIS

Perform the diagnosis with Component diagnosis of the applicable system.

>> GO TO 5.

5. REPAIR OR REPLACE THE MALFUNCTIONING PART

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. PERFORM FINAL OPERATIONAL CHECK

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

Are the malfunctions corrected?

YES >> Inspection End.
NO >> GO TO 3.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:0000000014625511

If any of the following work has been done Initial setting is necessary:
- Power supply to the main power window and door lock/unlock switch or power window motor is cut off by the removal
  of battery terminal or the battery fuse is blown.
- Disconnection and connection of main power window and door lock/unlock switch harness connector.
- Removal and installation of motor from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of glass.
- Removal and installation of door glass run.

The following specified operations can not be performed under the non-initialized condition:
- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:0000000014625512

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

CHECK ANTI-PINCH FUNCTION
1. Fully open the door window.
2. Place a piece of wood near fully closed position.
3. Close door glass completely with AUTO-UP.

- Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops.
- Check that glass does not rise when operating the main power and door lock/unlock switch while lowering.

CAUTION:
- **Perform initial setting when auto-up operation or anti-pinch function does not operate normally.**
- **Check that AUTO-UP operates before inspection when system initialization is performed.**
- **Do not check with hands and other body parts because they may be pinched. Do not get pinched.**
- **It may switch to fail-safe mode if open/close operation is performed continuously without full close. Perform initial setting in that situation. Refer to BCS-46, "Fail-safe"**
- **Finish initial setting. Otherwise, next operation cannot be done.**

1. **Auto-up operation**
2. **Anti-pinch function**

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000014625513

Refer to PWC-26, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Re-

quirement

INFOID:0000000014625514

Refer to PWC-26, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement" for initialization procedure and check anti-pinch function.

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Diagnosis Procedure

INFOID:0000000015231189

Regarding Wiring Diagram information, refer to BCS-51, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)
167	Power door lock battery power supply	5 (20A)
168	Turn signal/hazard battery power supply	1 (15A)
169	Stop lamp battery power supply	10 (10A)
175	Power door lock2 battery power supply	3 (20A)
176	Rear wiper battery power supply	4 (15A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M20	161	—	Battery voltage
	167		
	168		
	169		
	175		
	176		

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	170	—	Yes
	171		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000014625517

1.CHECK POWER SUPPLY CIRCUIT 1

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

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

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT 2

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

(+)		(–)	Voltage (Approx.)
Main power window and door lock/unlock switch			
Connector	Terminal		
D8	18	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair power supply circuit.

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness.

4.CHECK HARNESS CONTINUITY 1

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

Power window relay		Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Connector	Terminal	
M58	3	D6	10	Yes

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

Power window relay		Ground	Continuity
Connector	Terminal		
M58	3		No

Is the inspection result normal?

YES >> Refer to PWC-46, "Diagnosis Procedure".
NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:0000000014625518

1.CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Condition	Voltage (Approx.)
Power window and door lock/unlock switch RH				
Connector	Terminal			
D112	8	Ground	Ignition switch ON	Battery voltage

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

2.CHECK HARNESS CONTINUITY

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

Power window relay		Power window and door lock/unlock switch RH		Continuity
Connector	Terminal	Connector	Terminal	
M58	3	D112	8	Yes

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

Power window relay		Ground	Continuity
Connector	Terminal		
M58	3		No

Is the inspection result normal?

YES >> Refer to PWC-46, "Diagnosis Procedure".
NO >> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:0000000014625519

1.CHECK POWER SUPPLY CIRCUIT

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

(+)			(–)	Condition	Voltage (Approx.)
Rear power window switch					
Connector		Terminal			
LH	D204	1	Ground	Ignition switch ON	Battery voltage
RH	D304				

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

Power window relay		Rear power window switch			Continuity
Connector	Terminal	Connector		Terminal	
M58	3	LH	D204	1	Yes
		RH	D304		

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

Power window relay		Ground	Continuity
Connector	Terminal		
M58	3		No

Is the inspection result normal?

YES >> Refer to PWC-46, "Diagnosis Procedure".
NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Description

INFOID:0000000014625520

Front power window motor RH will be operated if power window and door lock/unlock switch RH is operated.

Component Function Check

INFOID:0000000014625521

1. CHECK POWERWINDOW AND DOOR LOCK/UNLOCK SWITCH RH FUNCTION

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

Is the inspection result normal?

YES >> Power window and door lock/unlock switch RH is OK.
NO >> Refer to PWC-32, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014625522

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Power window and door lock/unlock switch RH					
Connector	Terminal				
D112	12	Ground	Power window main switch RH	UP	Battery voltage
				DOWN	0
	11			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

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

2. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.
Refer to PWC-33, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power window and door lock/unlock switch RH. Refer to PWC-61, "Removal and Installation".

3. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-60, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000014625523

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

1. Turn ignition OFF.
2. Disconnect power window and door lock/unlock switch RH connector.
3. Check power window and door lock/unlock switch RH.

Power window and door lock/unlock switch RH	Terminal		Front power window switch condition	Continuity
D112	8	7	DOWN	Yes
	11	6		
	11	6	NEUTRAL	
	12	7		
	8	6	UP	
	12	7		

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power window and door lock/unlock switch RH. Refer to PWC-61, "Removal and Installation".

REAR POWER WINDOW SWITCH

Description

INFOID:0000000014625524

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

Component Function Check

INFOID:0000000014625525

1. CHECK REAR POWER WINDOW SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Rear power window switch is OK.
NO >> Refer to PWC-34, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014625526

1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

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

2. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.
Refer to PWC-35, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace rear power window switch. Refer to PWC-61, "Removal and Installation".

3. CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

Main power window and door lock/unlock switch		Rear power window switch			Continuity
Connector	Terminal	Connector		Terminal	
D6	9	LH	D204	2	Yes
	8			3	
	6	RH	D304	3	
	7			2	

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

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

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch.Refer to PWC-60, "Removal and Installation".

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000014625527

1.CHECK REAR POWER WINDOW SWITCH

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

Terminal		Rear power window switch condition	Continuity
1	5	DOWN	Yes
3	4		
3	4	NEUTRAL	
2	5		
1	4	UP	
2	5		

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear power window switch. Refer to PWC-62, "Removal and Installation".

POWER WINDOW MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000014625528

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

DRIVER SIDE : Component Function Check

INFOID:0000000014625529

1. CHECK FRONT POWER WINDOW MOTOR LH OPERATION

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

Is the inspection result normal?

YES >> Front power window motor LH is OK.
NO >> Refer to PWC-36, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000014625530

1. CHECK POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Power window motor LH					
Connector	Terminal				
D10	3	Ground	Main power window and door lock/unlock switch	UP	Battery voltage
				DOWN	0
	1			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

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

2. CHECK POWER WINDOW MOTOR CIRCUIT

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

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

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

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D8	17		No
	19		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch.Refer to PWC-60, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.
Refer to PWC-37, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace front power window motor LH. Refer to GW-16, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

DRIVER SIDE : Component Inspection

INFOID:0000000014625531

1.CHECK FRONT POWER WINDOW MOTOR LH

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

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000014625532

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

PASSENGER SIDE : Component Function Check

INFOID:0000000014625533

1. CHECK FRONT POWER WINDOW MOTOR RH OPERATION

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

Is the inspection result normal?

YES >> Front power window motor RH is OK.
NO >> Refer to PWC-37, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000014625534

1.CHECK FRONT POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Front power window motor RH					
Connector	Terminal				
D105	1	Ground	Power window and door lock/unlock switch RH	UP	Battery voltage
				DOWN	0
	3			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

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

2.CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

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

Power window and door lock/unlock switch RH		Front power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D112	6	D105	3	Yes
	7		1	

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

Power window and door lock/unlock switch RH		Ground	Continuity
Connector	Terminal		
D112	6		No
	7		

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to PWC-61, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.
Refer to PWC-38, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace front power window motor RH. Refer to GW-16, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE : Component Inspection

INFOID:0000000014625535

1.CHECK FRONT POWER WINDOW MOTOR RH

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

Front power window motor RH connector	Terminal		Motor condition
	(+)	(–)	
D105	1	3	DOWN
	3	1	UP

Is the inspection result normal?

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

REAR LH

REAR LH : Description

INFOID:0000000014625536

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

REAR LH : Component Function Check

INFOID:0000000014625537

1.CHECK REAR POWER WINDOW MOTOR LH OPERATION

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.
NO >> Refer to PWC-39, "REAR LH : Diagnosis Procedure"

REAR LH : Diagnosis Procedure

INFOID:0000000014625538

1.CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Rear power window motor LH					
Connector	Terminal				
D205	1	Ground	Rear power window switch LH	UP	Battery voltage
				DOWN	0
	3			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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

Rear power window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D204	4	D205	3	Yes
	5		1	

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

Rear power window switch LH		Ground	Continuity
Connector	Terminal		
D204	4		No
	5		

Is the inspection result normal?

YES >> Replace rear power window switch LH.Refer to PWC-61, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.
Refer to PWC-40, "REAR LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace rear power window motor LH. Refer to GW-22, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

REAR LH : Component Inspection

INFOID:0000000014625539

COMPONENT INSPECTION

1.CHECK REAR POWER WINDOW MOTOR LH

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

Rear power window motor LH connector	Terminal		Motor condition
	(+)	(–)	
D205	3	1	DOWN
	1	3	UP

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace rear power window motor LH. Refer to GW-22, "Removal and Installation".

REAR RH

REAR RH : Description

INFOID:0000000014625540

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

REAR RH : Component Function Check

INFOID:0000000014625541

1. CHECK REAR POWER WINDOW MOTOR RH OPERATION

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

Is the inspection result normal?

YES >> Rear power window motor RH is OK.
NO >> Refer to PWC-41, "REAR RH : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

INFOID:0000000014625542

1.CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

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

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

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

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

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

Rear power window switch RH		Ground	Continuity
Connector	Terminal		
D304	4		No
	5		

Is the inspection result normal?

YES >> Replace rear power window switch RH.Refer to PWC-62, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.
Refer to PWC-42, "REAR RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace rear power window motor RH. Refer to GW-22, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

REAR RH : Component Inspection

INFOID:0000000014625543

COMPONENT INSPECTION

1.CHECK REAR POWER WINDOW MOTOR RH

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace rear power window motor RH. Refer to GW-22, "Removal and Installation".

ENCODER CIRCUIT

Description

INFOID:0000000014625544

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

Component Function Check

INFOID:0000000014625545

1.CHECK ENCODER OPERATION

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

Is the inspection result normal?

YES >> Encoder operation is OK.
NO >> Refer to PWC-43, "Diagnosis Procedure"

Diagnosis Procedure

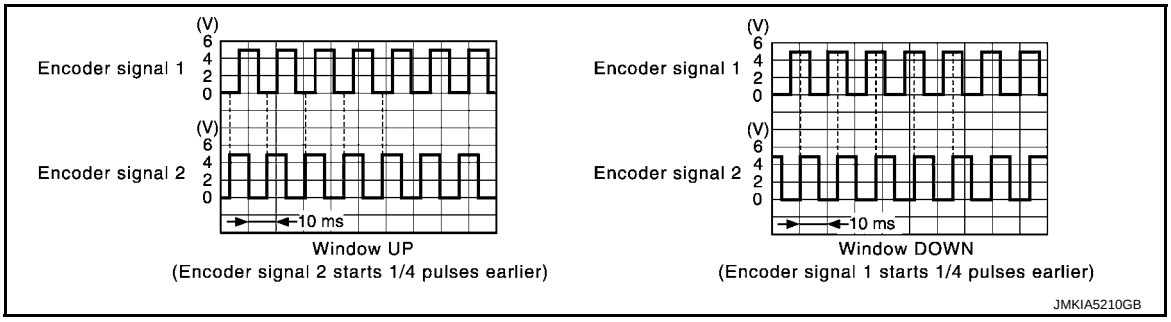
INFOID:0000000014625546

Encoder Circuit Check

1.CHECK ENCODER OPERATION

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

(+)		(–)	Signal (Reference value)
Main power window and door lock/unlock switch			
Connector	Terminal		
D6	4	Ground	Refer to following signal
	5		



Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 2.

2.CHECK ENCORDER SIGNAL CIRCUIT

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

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

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

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D6	4		No
	5		

Is the inspection result normal?

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

3. CHECK ENCORDER POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

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

4. CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 6.

5. CHECK HARNESS CONTINUITY 1

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

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

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

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

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-61, "Removal and Installation".
NO >> Repair or replace harness.

6.CHECK HARNESS CONTINUITY 2

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

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

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-61, "Removal and Installation".

NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

POWER WINDOW RELAY

Description

INFOID:0000000014625547

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

Component Function Check

INFOID:0000000014625548

1. CHECK POWER WINDOW RELAY POWER SUPPLY CIRCUIT

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

Is the inspection result normal?

YES >> Power window relay power supply circuit is OK.
NO >> Refer to PWC-46, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014625549

Regarding Wiring Diagram information, refer to PWC-16, "Wiring Diagram".

1. CHECK POWER WINDOW RELAY CONTROL CIRCUIT

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

(+)		(–)	Voltage (Approx.)
BCM			
Connector	Terminal	Ground	Battery voltage
M18	23		

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-73, "Removal and Installation".
NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

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

Is the inspection result normal?

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

3. CHECK POWER WINDOW RELAY

Check power window relay.
Refer to PWC-47, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-54, "Intermittent Incident".
NO >> Replace power window relay.

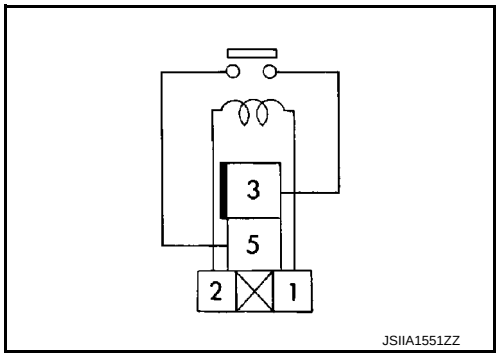
Component Inspection

INFOID:0000000014625550

1. CHECK POWER WINDOW RELAY

Check power window relay.

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



Is the inspection result normal?

YES >> Inspection End.
NO >> Replace power window relay.

DOOR SWITCH

Component Function Check

INFOID:0000000015231190

1.CHECK FUNCTION

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

Monitor item	Condition		Status
DOOR SW-DR	Front door LH	Open	On
		Closed	Off
DOOR SW-AS	Front door RH	Open	On
		Closed	Off
DOOR SW-RL	Rear door LH	Open	On
		Closed	Off
DOOR SW-RR	Rear door RH	Open	On
		Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.
NO >> Refer to PWC-48, "Diagnosis Procedure".

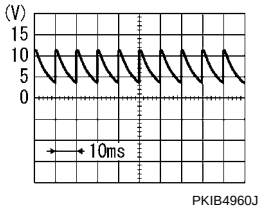
Diagnosis Procedure

INFOID:0000000015231191

Regarding Wiring Diagram information, refer to DLK-82, "Wiring Diagram".

1.CHECK DOOR SWITCH INPUT SIGNAL

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

(+)			(–)	Signal (Reference value)
Door switch				
Connector		Terminal		
Front LH	B71	3	Ground	 PKIB4960J 7.0 - 8.0 V
Front RH	B141			
Rear LH	B70			
Rear RH	B142			

Is the inspection result normal?

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

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Front LH	B71	3	B16	57	Yes
Front RH	B141			53	
Rear LH	B70			52	
Rear RH	B142			50	

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

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to PWC-49, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace malfunctioning door switch. Refer to DLK-332, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000015231192

1.CHECK DOOR SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace malfunctioning door switch. Refer to DLK-332, "Removal and Installation".

SYMPTOM DIAGNOSIS

POWER WINDOW CONTROL SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000014625558

Symptom	Reference page
None of the power windows can be operated using any switch.	Refer to PWC-51, "Diagnosis Procedure".
Driver side power window alone does not operate.	Refer to PWC-52, "Diagnosis Procedure".
Front passenger side power window does not operate (with both main power window and door lock/unlock switch and power window and door lock/unlock switch).	Refer to PWC-53, "WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH : Diagnosis Procedure".
Front passenger side power window does not operate (with front power window switch only).	Refer to PWC-53, "WITH FRONT POWER WINDOW SWITCH ONLY : Diagnosis Procedure".
Rear LH side power window does not operate (with both main power window and door lock/unlock switch and rear power window switch LH).	Refer to PWC-54, "WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH : Diagnosis Procedure".
Rear LH side power window does not operate (with rear power window switch LH only).	Refer to PWC-54, "WITH REAR POWER WINDOW SWITCH LH ONLY : Diagnosis Procedure".
Rear RH side power window does not operate (with both main power window and door lock/unlock switch and rear power window switch RH).	Refer to PWC-55, "WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH : Diagnosis Procedure".
Rear RH side power window does not operate (with rear power window switch RH only).	Refer to PWC-55, "WITH REAR POWER WINDOW SWITCH RH ONLY : Diagnosis Procedure".
Anti-pinch system does not operate normally (drivers side).	Refer to PWC-56, "Diagnosis Procedure".
Power window retained power operation does not operate properly.	Refer to PWC-57, "Diagnosis Procedure".
Auto operation does not operate manual operate normally (driver side).	Refer to PWC-58, "Diagnosis Procedure".
Power window lock switch does not function.	Refer to PWC-59, "Diagnosis Procedure".

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:0000000014625559

1.CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.
Refer to BCS-66, "Diagnosis Procedure".

Is the inspection result normal?

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

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

Check main power window and door lock/unlock switch power supply and ground circuit.
Refer to PWC-29, "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-54, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000014625560

1.CHECK FRONT POWER WINDOW MOTOR LH

Check power window motor.
Refer to PWC-36, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-54, "Intermittent Incident".
NO >> GO TO 1.

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH

WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:0000000014625561

1.CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.
Refer to PWC-32, "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 RH

Check front power window motor RH.
Refer to PWC-37, "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-54, "Intermittent Incident".
NO >> GO TO 1.

WITH FRONT POWER WINDOW SWITCH ONLY

WITH FRONT POWER WINDOW SWITCH ONLY : Diagnosis Procedure

INFOID:0000000014625562

1.CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH POWER SUPPLY AND GROUND CIRCUIT

Check power window and door lock/unlock switch RH power supply and ground circuit.
Refer to PWC-30, "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 POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.
Refer to PWC-32, "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-54, "Intermittent Incident".
NO >> GO TO 1.

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH

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

INFOID:0000000014625563

1.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.
Refer to PWC-34, "Component Function Check".

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.
Refer to PWC-39, "REAR LH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-54, "Intermittent Incident".
NO >> GO TO 1.

WITH REAR POWER WINDOW SWITCH LH ONLY

WITH REAR POWER WINDOW SWITCH LH ONLY : Diagnosis Procedure

INFOID:0000000014625564

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

Check rear power window switch power supply and ground circuit.
Refer to PWC-30, "REAR POWER WINDOW SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.
Refer to PWC-34, "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-54, "Intermittent Incident".
NO >> GO TO 1.

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH

WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH : Diagnosis Procedure

INFOID:0000000014625565

1.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.
Refer to PWC-34, "Component Function Check".

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.
Refer to PWC-40, "REAR 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-54, "Intermittent Incident".
NO >> GO TO 1.

WITH REAR POWER WINDOW SWITCH RH ONLY

WITH REAR POWER WINDOW SWITCH RH ONLY : Diagnosis Procedure

INFOID:0000000014625566

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

Check rear power window switch power supply and ground circuit.
Refer to PWC-30, "REAR POWER WINDOW SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.
Refer to PWC-34, "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-54, "Intermittent Incident".
NO >> GO TO 1.

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

Diagnosis Procedure

INFOID:0000000014625567

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.
Refer to PWC-26, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

2.CHECK ENCODER CIRCUIT

Check encoder circuit.
Refer to PWC-43, "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-54, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000014625568

1.CHECK DOOR SWITCH

Check door switch.
Refer to PWC-48, "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-54, "Intermittent Incident".
NO >> GO TO 1.

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

Diagnosis Procedure

INFOID:0000000014625569

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.
Refer to PWC-26, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

2.CHECK ENCODER

Check encoder.
Refer to PWC-43, "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-54, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000014625570

1.REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Replace main power window and door lock/unlock switch.

>> Refer to PWC-61, "Removal and Installation".

REMOVAL AND INSTALLATION

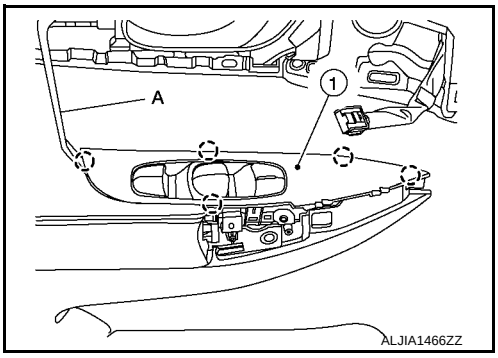
MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Removal and Installation

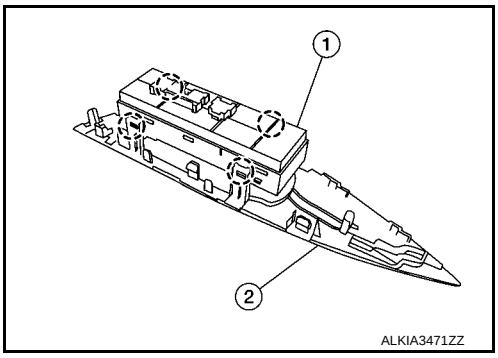
INFOID:0000000014625571

REMOVAL

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



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



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

When the main power window and door lock/unlock switch is removed or replaced, it is necessary to perform the initialization procedure. Refer to PWC-26, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

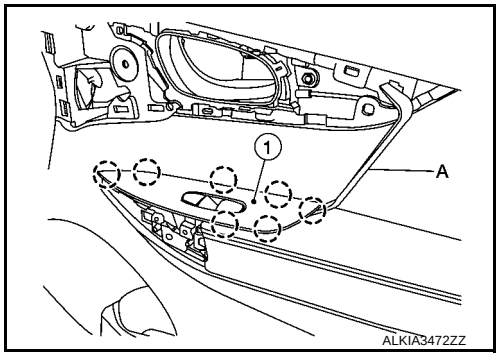
POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Removal and Installation

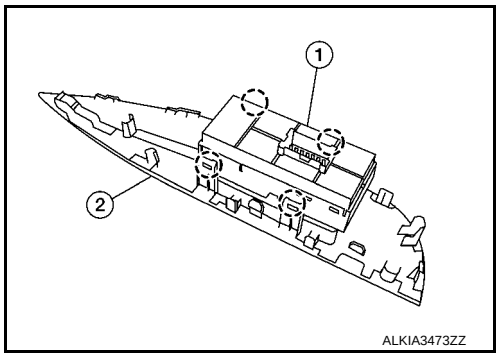
INFOID:0000000014625572

REMOVAL

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



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



INSTALLATION

Installation is in the reverse order of removal.

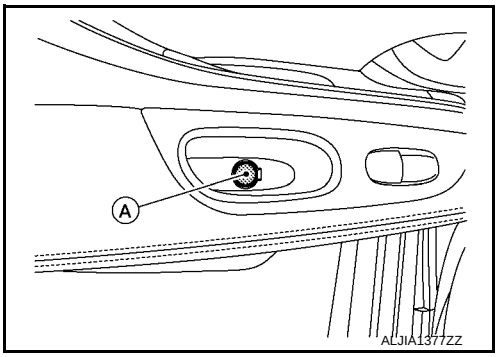
REAR POWER WINDOW SWITCH

Removal and Installation

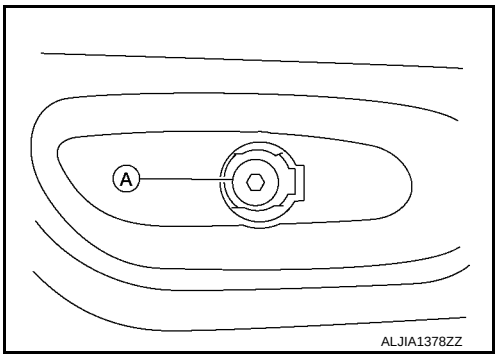
INFOID:0000000014625573

REMOVAL

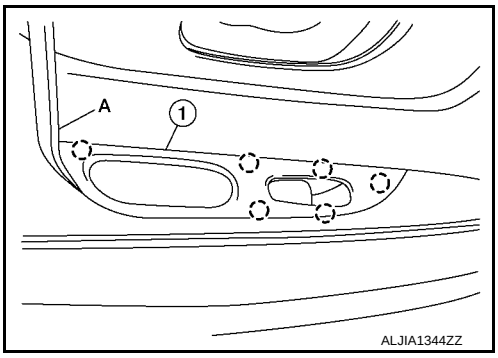
1. Remove screw cover (A).



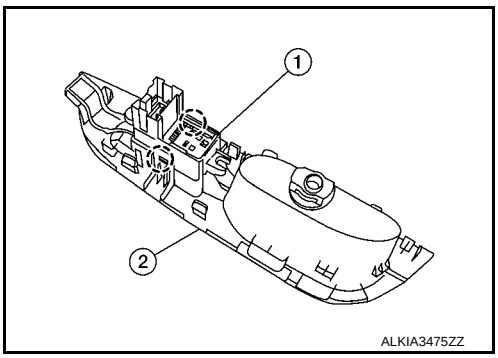
2. Remove screw (A).



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



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



INSTALLATION

Installation is in the reverse order of removal.