

SECTION **PWC**

POWER WINDOW CONTROL SYSTEM

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000006749149

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

WARNING:

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

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

WARNING:

- When working near the 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, and wait at least 3 minutes before performing any service.

Precaution for Work

INFOID:000000006749151

- 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 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, and wring the water out of the cloth to wipe the dirty area.
Then rub with a soft and 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, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

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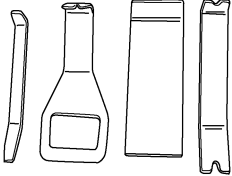
PREPARATION

PREPARATION

Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>— (J-46534) Trim tool set</p>  <p>AWJIA04832Z</p>	Removing trim components

COMPONENT PARTS

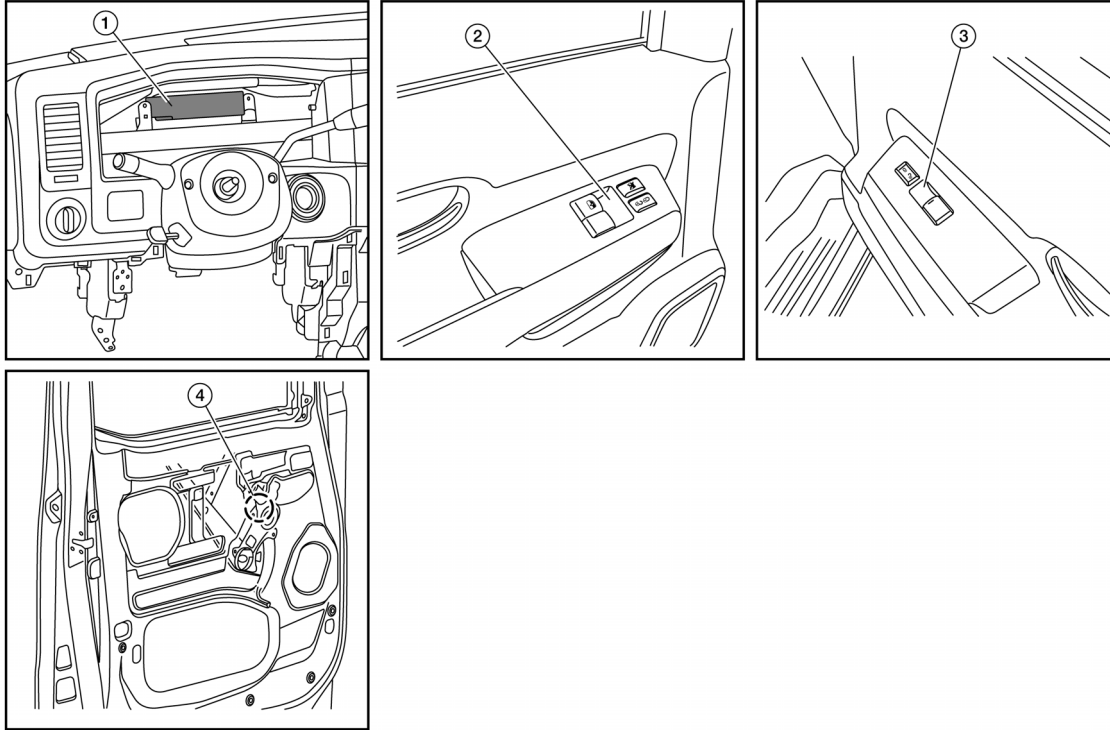
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000006749061



1. BCM (view with steering wheel and combination meter removed)
2. Main power window and door lock/unlock switch
3. Power window and door lock/unlock switch RH
4. Front power window motor LH (RH similar)

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Component Description

INFOID:000000006749062

Component	Function
BCM	<ul style="list-style-type: none"> • Supplies power supply to power window switch. • Controls retained power.
Main power window and door lock/unlock switch	<ul style="list-style-type: none"> • Directly controls power window motors of both doors. • Contains a lock switch that opens or completes the ground circuit of the power window and door lock/unlock switch RH, disabling or enabling the RH switch operation.
Power window and door lock/unlock switch RH	<ul style="list-style-type: none"> • Controls front power window motor RH.

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component	Function
Front power window motor LH	<ul style="list-style-type: none">• Integrates the encoder and power window motor.• Receives voltage and ground from main power window and door lock/unlock switch.• Polarity of voltage and ground is controlled by the main power window and door unlock switch
Front power window motor RH	<ul style="list-style-type: none">• Receives voltage and ground from main power window and door lock/unlock switch and from the power window and door lock switch RH.• Polarity of voltage and ground is controlled by the main power window and door unlock switch or the power window and door lock switch RH.• The lock switch located in the main power window and door lock/unlock switch, when switched to the lock position, opens the ground circuit of the power window and door lock/unlock switch RH, disabling the RH switch operation.

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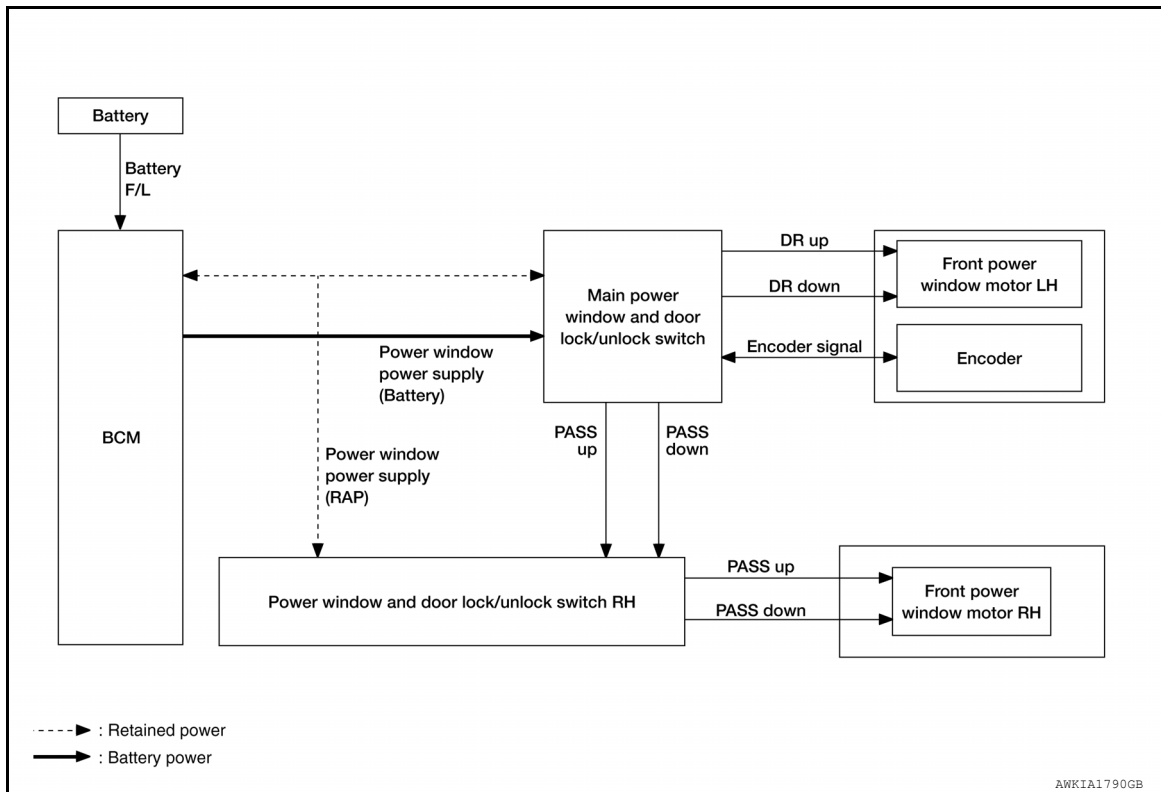
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SYSTEM

System Diagram

INFOID:000000006749059

FRONT WINDOW SYSTEM



System Description

INFOID:000000006968394

POWER WINDOW OPERATION

- The power window system is controlled by the power window switches when the ignition switch is ON, or during the retained power operation after the ignition switch turns OFF.
- Main power window and door lock/unlock switch can open/close the LH and RH door glass.
- Power window and door lock/unlock switch RH can only open/close the RH door glass.

POWER WINDOW AUTO-OPERATION

- AUTO DOWN operation can be performed when the main power window and door lock/unlock switch is placed in the AUTO position.
- The encoder detects the movement of the power window motor and transmits a pulse signal to the main power window and door lock/unlock switch while the power window motor is operating.
- The main power window and door lock/unlock switch reads the changes of the encoder signal and stops AUTO operation when the door glass is at the fully opened position.
- AUTO function does not operate if encoder is malfunctioning.

RETAINED POWER OPERATION

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

RETAINED ACCESSORY POWER CANCEL CONDITIONS:

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

POWER WINDOW LOCK FUNCTION

- The main power window and door lock/unlock switch window lock switch can lock the RH power window operation from the RH switch. With the lock engaged, the main power window and door lock/unlock switch can still operate the RH door glass.

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< SYSTEM DESCRIPTION >

- The ground circuit inside the main power window and door lock/unlock switch opens when the power window lock switch is ON. This inhibits the power window and door lock/unlock switch RH operation.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000006962899

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> 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			x	x	x		
Rear window defogger	REAR DEFOGGER			x	x			
Warning chime	BUZZER			x	x			
Interior room lamp timer	INT LAMP			x	x	x		
Remote keyless entry system	MULTI REMOTE ENT			x	x	x		
Exterior lamp	HEAD LAMP			x	x	x		
Wiper and washer	WIPER			x	x			
Turn signal and hazard warning lamps	FLASHER			x	x			
Air conditioner	AIR CONDITIONER			x				
Combination switch	COMB SW			x				
BCM	BCM	x	x			x	x	x
Immobilizer	IMMU		x		x			
Interior room lamp battery saver	BATTERY SAVER			x	x	x		
Vehicle security system	THEFT ALM			x	x	x		
RAP system	RETAINED PWR			x		x		
Signal buffer system	SIGNAL BUFFER			x	x			
Panic alarm system	PANIC ALARM				x			

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

RETAINED POWER : CONSULT Function (BCM - RETAINED PWR)

INFOID:000000006962900

DATA MONITOR

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

WORK SUPPORT

Support Item	Setting	Description
RETAINED PWR SET	MODE3	2 min
	MODE2	OFF
	MODE1*	45 sec

*: Initial setting

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< ECU DIAGNOSIS INFORMATION >

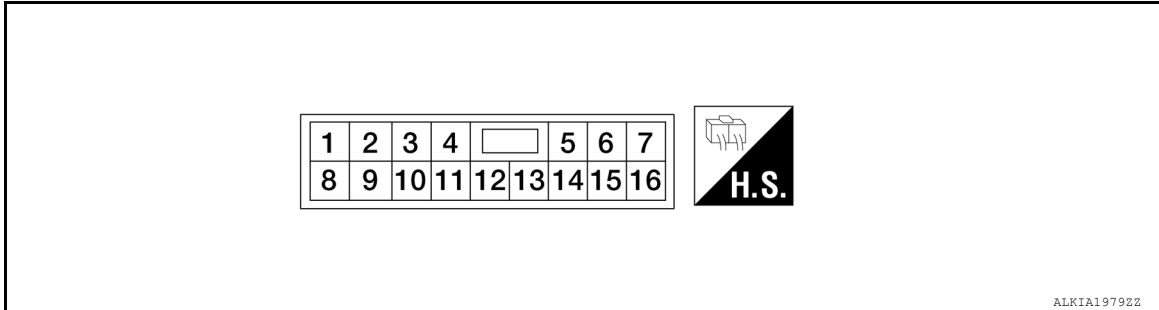
ECU DIAGNOSIS INFORMATION

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Reference Value

INFOID:000000006749124

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output		
3 (W)	Ground	ENCODER SIG1	Input	When power window motor operates.	 JMKIA0070GB
4 (R)	Ground	ENCODER POWER	Output	When ignition switch ON or power window timer operates.	10V
7 (B)	Ground	ENCODER GND	—	—	0
8 (R)	Ground	DR UP	Output	Main power window and door lock/unlock switch driver side switch is operated UP	Battery voltage
9 (L)	Ground	BAT (+)	Input	—	Battery voltage
10 (B)	Ground	GND	—	—	0
11 (Y)	Ground	DR DOWN	Output	Main power window and door lock/unlock switch driver side switch is operated DOWN	Battery voltage
13 (W)	Ground	RAP signal	Input	IGN SW ON	Battery voltage
				Within 45 second after ignition switch is turned to OFF.	Battery voltage
				When front LH or RH door is opened during retained power operation.	0
14 (V)	Ground	PASS UP	Output	Main power window and door lock/unlock switch passenger side switch is operated UP	Battery voltage
15 (G)	Ground	PASS DN	Output	Main power window and door lock/unlock switch passenger side switch is operated DOWN	Battery voltage

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POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

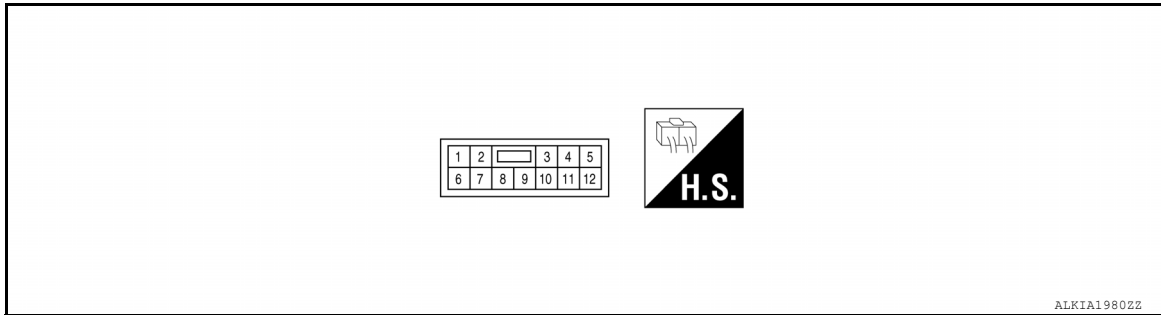
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POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Reference Value

INFOID:000000006749126

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output		
3 (B)	Ground	Ground	Input	With ignition switch ON	0V
6 (L)	Ground	PASS DN	Output	Power window and door lock/unlock switch RH window switch is operated DOWN	Battery voltage
7 (R)	Ground	PASS UP	Output	Power window and door lock/unlock switch RH window switch is operated UP	Battery voltage
8 (W)	Ground	—	Output	With ignition switch ON	Battery voltage
11 (G)	Ground	PASS UP	Output	Main power window and door lock/unlock switch passenger side switch is operated UP	Battery voltage
12 (V)	Ground	PASS DN	Output	Main power window and door lock/unlock switch passenger side switch is operated DOWN	Battery voltage

BCM

< ECU DIAGNOSIS INFORMATION >

BCM

List of ECU Reference

INFOID:000000006968403

ECU	Reference
BCM	BCS-25. "Reference Value"
	BCS-35. "Fail-safe"
	BCS-35. "DTC Inspection Priority Chart"
	BCS-35. "DTC Index"

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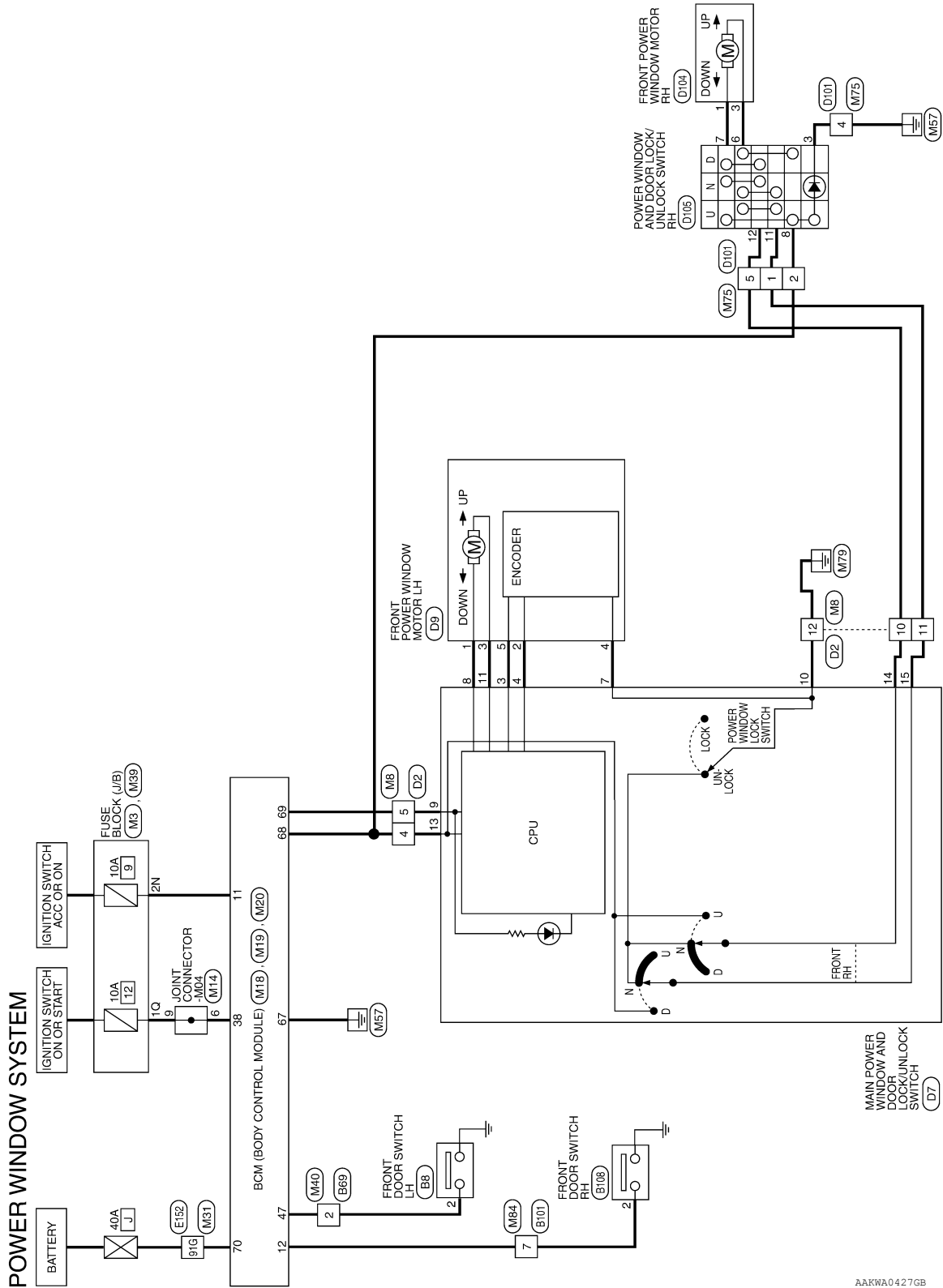
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WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram

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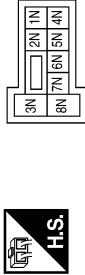
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POWER WINDOW SYSTEM

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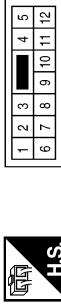
POWER WINDOW SYSTEM CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



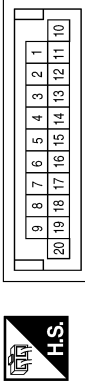
Terminal No.	Color of Wire	Signal Name
2N	O	-

Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



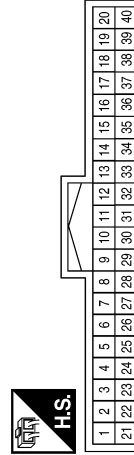
Terminal No.	Color of Wire	Signal Name
4	W	-
5	L	-
10	V	-
11	G	-
12	B	-

Connector No.	M14
Connector Name	JOINT CONNECTOR-M04
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
6	R	-
9	R	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	O	ACC SW
12	O	DOOR SW (AS)
38	R	IGN SW

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
47	SB	DOOR SW (DR)

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
67	B	GND
68	W	POWER WINDOW POWER SUPPLY (RAP)
69	L	POWER WINDOW POWER SUPPLY (BATTERY)
70	R	BATTERY (F/L)

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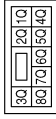
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POWER WINDOW SYSTEM

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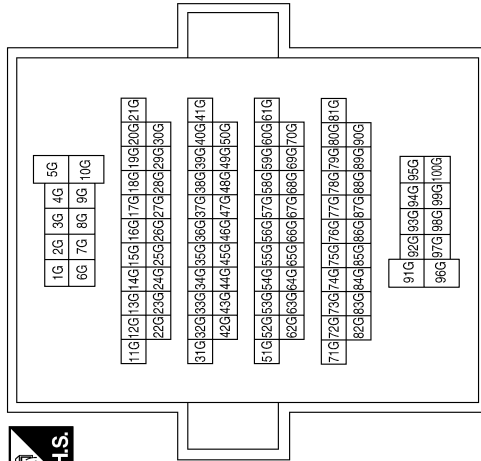
Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



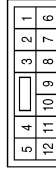
Terminal No.	Color of Wire	Signal Name
1Q	R	-

Terminal No.	Color of Wire	Signal Name
91G	R	-

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	O	-

Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G	-
2	W	-
4	B	-
5	V	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	SB	-

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE

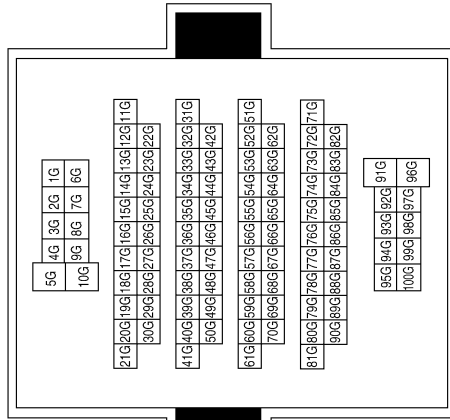


1	2	3
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Terminal No.	2	Color of Wire	SB	Signal Name	-
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Terminal No.	91G	Color of Wire	R	Signal Name	-
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Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



1	2	3
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Terminal No.	2	Color of Wire	O	Signal Name	-
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Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	7	Color of Wire	O	Signal Name	-
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Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	2	Color of Wire	SB	Signal Name	-
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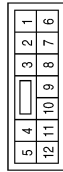
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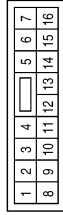
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Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



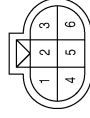
Terminal No.	Color of Wire	Signal Name
4	W	-
5	L	-
10	V	-
11	G	-
12	B	-

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



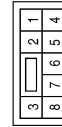
Terminal No.	Color of Wire	Signal Name
3	W	ENCODER SIG1
4	R	ENCODER POWER
7	B	ENCODER GND
8	R	DR UP
9	L	BAT (+)
10	B	GND
11	Y	DR DOWN
13	W	IGN
14	V	PASS UP
15	G	PASS DN

Connector No.	D9
Connector Name	FRONT POWER WINDOW MOTOR LH
Connector Color	GREEN



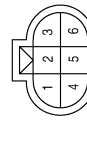
Terminal No.	Color of Wire	Signal Name
1	R	-
2	R	-
3	Y	-
4	B	-
5	W	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G	-
2	W	-
4	B	-
5	V	-

Connector No.	D104
Connector Name	FRONT POWER WINDOW MOTOR RH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	R	-
3	L	-

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	B	-
6	L	-
7	R	-
8	W	-
11	G	-
12	V	-

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

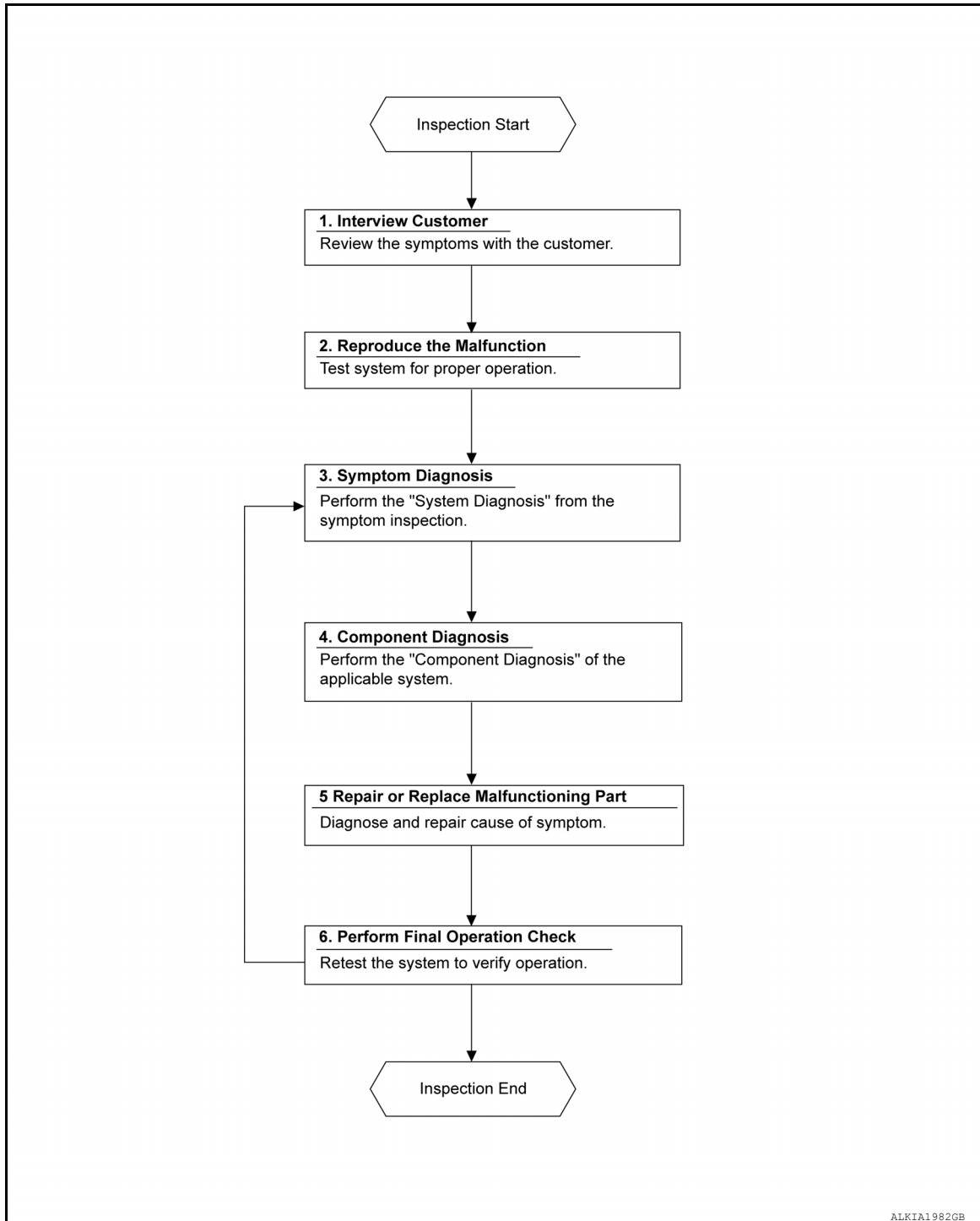
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000006968458

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2

2. REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3

3. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4

4. PERFORM THE COMPONENT DIAGNOSIS OF THE OF THE APPLICABLE SYSTEM

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 5

5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6

6. FINAL CHECK

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

Are the malfunctions corrected?

YES >> Inspection End.

NO >> GO TO 3

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000006978678

Regarding Wiring Diagram information, refer to [BCS-37, "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	22 (10A)
70		J (40A)
11	Ignition ACC or ON	9 (10A)
38	Ignition ON or START	12 (10A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

Terminals		(-)	Ignition switch position		
(+)			OFF	ACC	ON
BCM		Ground	OFF	ACC	ON
Connector	Terminal		Battery voltage	Battery voltage	Battery voltage
M20	70		Battery voltage	Battery voltage	Battery voltage
	57		Approx. 0 V	Battery voltage	Battery voltage
M18	11	Approx. 0 V	Approx. 0 V	Battery voltage	
	38				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		Yes
M20	67		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

POWER WINDOW MAIN SWITCH

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000006978667

Regarding Wiring Diagram information, refer to [PWC-14. "Wiring Diagram"](#).

1. CHECK POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminals 9, 13 and ground.

Main power window and door lock/unlock switch		Ground	Voltage
Connector	Terminal		
D7	9	—	Battery voltage
	13		

Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and main power window and door lock/unlock switch connector.
3. Check continuity between BCM connector M20 terminals 68, 69 and main power window and door lock/unlock switch connector D7 terminals 13, 9.

BCM		Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Connector	Terminal	
M20	68	D7	13	Yes
	69		9	

4. Check continuity between BCM connector M20 terminals 68, 69 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	68	—	No
	69		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-55. "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK GROUND 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 connector D7 terminal 10 and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D7	10	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MAIN SWITCH : Component Inspection

INFOID:000000006978668

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

1. Disconnect main power window and door lock/unlock switch connector.
2. Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch terminals		Condition	Continuity
13	14	FRONT RH switch UP	Yes
		FRONT RH switch DOWN	No
13	15	FRONT RH switch UP	Yes
		FRONT RH switch DOWN	No
14	10	LOCK switch LOCK	No
		LOCK switch UNLOCK	Yes
15	10	LOCK switch LOCK	No
		LOCK switch UNLOCK	Yes

Is the inspection result normal?

YES >> Main power window and door lock/unlock switch is OK.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-41. "Removal and Installation"](#).

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:000000006978675

Regarding Wiring Diagram information, refer to [PWC-14. "Wiring Diagram"](#).

1. CHECK POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between power window and door lock/unlock switch RH connector D105 terminal 8 and ground.

Power window and door lock/unlock switch RH		Ground	Voltage
Connector	Terminal		
D105	8	—	Battery voltage

Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, main power window and door lock/unlock switch connector and power window and door lock/unlock switch RH connector.
3. Check continuity between BCM connector M20 terminal 68 and power window and door lock/unlock switch RH connector D105 terminal 8.

BCM		Power window and door lock/unlock switch RH		Continuity
Connector	Terminal	Connector	Terminal	
M20	68	D105	8	Yes

4. Check continuity between BCM connector M20 terminal 68 and ground.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M20	68	—	No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-55. "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUITS

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and power window and door lock/unlock switch RH connectors.
- Check continuity between main power window and door lock/unlock switch connector D7 terminals 14, 15 and power window and door lock/unlock switch RH connector D105 terminals 12, 11.

Main power window and door lock/unlock switch		Power window and door lock/unlock switch RH		Continuity
Connector	Terminal	Connector	Terminal	
D7	14	D105	12	Yes
	15		11	

- Check continuity between main power window and door lock/unlock switch connector D7 terminals 14, 15 and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D7	14	—	No
	15		

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Perform the main power window and door lock/unlock switch component inspection. Refer to [PWC-23. "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-41. "Removal and Installation"](#).

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Component Inspection

INFOID:000000007256480

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

- Disconnect power window and door lock/unlock switch RH connector.
- Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH terminals		Condition	Continuity
8	7	Switch UP	Yes
		Switch DOWN	No
6	Switch UP	Yes	
	Switch DOWN		

- Connect a jumper wire between terminal 6 and terminal 7 of the power window and door lock/unlock switch RH.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH terminals		Condition	Continuity
8	11	Switch UP	Yes
		Switch DOWN	No
	12	Switch UP	
		Switch DOWN	

Is the inspection result normal?

YES >> Power window and door lock/unlock switch RH is OK.

NO >> Replace power window and door lock/unlock switch RH. Refer to [PWC-42, "Removal and Installation"](#).

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000006968425

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check front power window motor LH operation when operating 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-26, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000006968426

Regarding Wiring Diagram information, refer to [PWC-14, "Wiring Diagram"](#).

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNALS

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Turn ignition switch ON.
4. Check voltage between front power window motor LH connector D9 terminals 1, 3 and ground.

Front power window motor LH		Ground	Condition	Voltage
Connector	Terminal			
D9	1	—	FRONT LH switch UP	Battery voltage
	3		FRONT LH switch DOWN	

Is the inspection result normal?

YES >> Replace power window motor LH. Refer to [GW-16, "Removal and Installation"](#).

NO >> GO TO 2

2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL CIRCUITS

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminals 8, 11 and front power window motor LH connector D9 terminals 1, 3.

Main power window and door lock/unlock switch		Front power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D7	8	D9	1	Yes
	11		3	

4. Check continuity between main power window and door lock/unlock switch connector D7 terminals 8, 11 and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D7	8	—	No
	11		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

DRIVER SIDE : Component Inspection

INFOID:000000006968427

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR LH

Check motor operation by connecting the battery voltage directly to power window motor.

Terminal		Motor condition
(+)	(-)	
1	3	UP
3	1	DOWN

Is the inspection result normal?

YES >> Front power window motor LH is OK.

NO >> Replace front power window motor LH. Refer to [GW-16, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000006968429

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check power window motor operation when operating 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-27, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006968430

Regarding Wiring Diagram information, refer to [PWC-14, "Wiring Diagram"](#).

1. CHECK FRONT POWER WINDOW SWITCH RH OUTPUT SIGNALS

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Turn ignition switch ON.
4. Check voltage between front power window motor RH connector D104 terminals 1, 3 and ground.

Front power window motor RH		Ground	Condition	Voltage
Connector	Terminal			
D104	1	—	Power window and door lock/unlock switch RH UP	Battery voltage
	3		Power window and door lock/unlock switch RH DOWN	

Is the inspection result normal?

YES >> Replace front power window motor RH. Refer to [GW-16, "Removal and Installation"](#).

NO >> GO TO 2

2. CHECK FRONT POWER WINDOW SWITCH RH OUTPUT SIGNAL CIRCUITS

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector D105 terminals 7, 6 and front power window motor RH connector D104 terminals 1, 3.

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Power window and door lock/unlock switch RH		Front power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D105	7	D104	1	Yes
	6		3	

4. Check continuity between power window and door lock/unlock switch RH connector D105 terminals 7, 6 and ground.

Power window and door lock/unlock switch RH		Ground	Continuity
Connector	Terminal		
D105	7	—	No
	6		

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-42. "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE : Component Inspection

INFOID:000000006968431

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR RH

Check motor operation by connecting the battery voltage directly to front power window motor RH.

Terminal		Motor condition
(+)	(-)	
1	3	UP
3	1	DOWN

Is the inspection result normal?

YES >> Front power window motor RH is OK.

NO >> Replace front power window motor RH. Refer to [GW-16. "Removal and Installation"](#).

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

ENCODER CIRCUIT

Component Function Check

INFOID:000000007247038

1. CHECK ENCODER OPERATION

Check that front door glass LH performs AUTO open operation normally when operating main power window and door lock/unlock switch.

Is the inspection result normal?

- YES >> Encoder operation is OK.
- NO >> Refer to [PWC-29, "Diagnosis Procedure"](#)

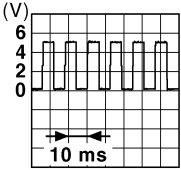
Diagnosis Procedure

INFOID:000000007247039

Regarding Wiring Diagram information, refer to [PWC-14, "Wiring Diagram"](#).

1. CHECK ENCODER OPERATION

1. Turn ignition switch ON.
2. Check signal between main power window and door lock/unlock switch connector D7 terminal 3 and ground with oscilloscope.

Main power window and door lock/unlock switch		Ground	Signal (Reference value)
Connector	Terminal		
D7	3	—	 <p style="text-align: right; font-size: small;">JMK1A0070GB</p>

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).
- NO >> GO TO 2

2. CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front power window motor LH connectors.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminal 3 and front power window motor LH connector D9 terminal 5.

Main power window and door lock/unlock switch		Front power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D7	3	D9	5	Yes

4. Check continuity between main power window and door lock/unlock switch connector D7 terminal 3 and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D7	3	—	No

Is the inspection result normal?

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ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

3. CHECK ENCODER POWER

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 connector D9 terminal 2 and ground.

Front power window motor LH		Ground	Voltage
Connector	Terminal		
D9	2	—	Battery voltage

Is the inspection result normal?

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

4. CHECK ENCODER POWER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminal 4 and front power window motor LH connector D9 terminal 2.

Main power window and door lock/unlock switch		Front power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D7	4	D9	2	Yes

4. Check continuity between main power window and door lock/unlock switch connector D7 terminal 4 and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D7	4	—	No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).
NO >> Repair or replace harness.

5. CHECK ENCODER GROUND

1. Turn ignition switch OFF.
2. Check continuity between front power window motor LH connector D9 terminal 4 and ground.

Front power window motor LH		Ground	Continuity
Connector	Terminal		
D9	4	—	Yes

Is the inspection result normal?

- YES >> Replace front power window motor LH. Refer to [GW-16, "Removal and Installation"](#).
NO >> Repair or replace harness.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

INFOID:000000006968441

1. CHECK FUNCTION

With CONSULT

Check door switches in data monitor mode with CONSULT.

Monitor item	Condition
DOOR SW-DR (Front door LH)	CLOSE → OPEN: OFF → ON
DOOR SW-AS (Front door RH)	

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [PWC-31, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006968442

Regarding Wiring Diagram information, refer to [PWC-14, "Wiring Diagram"](#).

1. CHECK DOOR SWITCHES INPUT SIGNAL

With CONSULT

Check door switches ("DOOR SW-DR", "DOOR SW-AS") in DATA MONITOR mode with CONSULT. Refer to [BCS-16, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

• When front door LH and front door RH are open:

DOOR SW-DR (Front door LH) :ON

DOOR SW-AS (Front door RH) :ON

• When front door LH and front door RH are closed:

DOOR SW-DR (Front door LH) :OFF

DOOR SW-AS (Front door RH) :OFF

Without CONSULT

Check voltage between BCM connector M18 terminal 12 or M19 terminal 47 and ground.

BCM		Ground	Component	Condition	Voltage
Connector	Terminal				
M18	12	—	Front door switch RH	Open	0V
M19	47		Front door switch LH	Closed	Battery voltage

Is the inspection result normal?

YES >> Door switch circuit is OK.

NO >> GO TO 2

2. CHECK DOOR SWITCH CIRCUITS

1. Turn ignition switch OFF.
2. Disconnect BCM connectors M18 and M19, front door switch LH connector and front door switch RH connector.
3. Check continuity between BCM connectors M18 and M19 terminals 12, 47 and front door switch connector RH B108 and front door switch connector LH B8 terminal 2 and ground.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BCM		Door switch		Continuity
Connector	Terminal	Connector	Terminal	
M18	12	B108	2	Yes
M19	47	B8		

4. Check continuity between BCM connectors M18 and M19 terminals 12, 47 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M18	12	—	No
M19	47		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-55, "Removal and Installation"](#).

NO >> GO TO 3.

3. CHECK DOOR SWITCHES

Check continuity between door switch terminal 2 and switch body.

Item	Terminal	Condition	Continuity
Front door switch LH	2	Open	No
Front door switch RH		Closed	Yes

Is the inspection result normal?

YES >> Repair or replace harness.

NO >> Replace door switch.

POWER WINDOW LOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW LOCK SWITCH

Diagnosis Procedure

INFOID:000000006968447

1. CHECK POWER WINDOW LOCK SWITCH

Perform the main power window and door lock/unlock switch component inspection. Refer to [PWC-23, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).

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POWER WINDOW CONTROL SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

POWER WINDOW CONTROL SYSTEM SYMPTOMS

Symptom Table

INFOID:000000006962894

Symptom	Reference page
None of the power windows can be operated using any switch.	Refer to PWC-35, "Diagnosis Procedure" .
Driver side power window alone does not operate.	Refer to PWC-36, "Diagnosis Procedure" .
Front passenger side power window alone does not operate.	Refer to PWC-37, "Diagnosis Procedure" .
Auto operation does not operate but manual operates normally.	Refer to PWC-38, "Diagnosis Procedure" .
Power window retained power operation does not operate properly.	Refer to PWC-39, "Diagnosis Procedure" .
Power window lock switch does not function.	Refer to PWC-40, "Diagnosis Procedure" .

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000006968449

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to [PWC-21, "BCM : 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

Check main power window and door lock/unlock switch. Refer to [PWC-23, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).

3. 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-22, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006968450

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

Check main power window and door lock/unlock switch. Refer to [PWC-23, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).

2. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH circuit.

Refer to [PWC-26, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace front power window motor LH. Refer to [GW-16, "Removal and Installation"](#).

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006968451

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

Check power window and door lock/unlock switch RH. Refer to [PWC-24, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace power window and door lock/unlock switch RH. Refer to [PWC-42, "Removal and Installation"](#).

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH circuit. Refer to [PWC-24, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace front power window motor RH. Refer to [GW-16, "Removal and Installation"](#).

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

Diagnosis Procedure

INFOID:000000006968454

1. CHECK ENCODER

Check encoder. Refer to [PWC-29, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace front power window motor LH. Refer to [GW-16, "Removal and Installation"](#).

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000006968455

1. CHECK FRONT DOOR SWITCHES

Check front door switches. Refer to [PWC-31, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace the appropriate door switch. Refer to [DLK-106, "Removal and Installation"](#).

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PWC

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000006968456

1. CHECK POWER WINDOW LOCK SWITCH

Check power window lock switch. Refer to [PWC-33, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-41, "Removal and Installation"](#).

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:000000006749153

REMOVAL

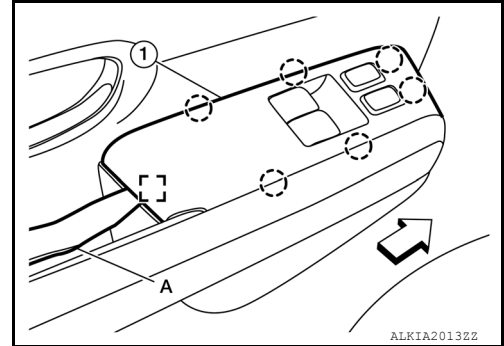
1. Beginning at the rear edge, insert a suitable tool (A) and release the metal clip of the main power window and door lock/unlock switch finisher (1).

□: Metal clip

○: Pawl

⇐: Front

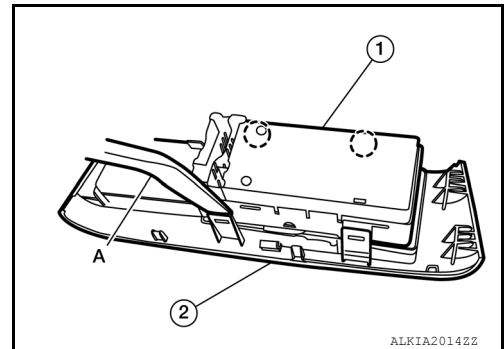
2. Working forward, release the remaining pawls, then remove the main power window and door lock/unlock switch finisher (1) and the main power window and door lock/unlock switch as an assembly from the front door finisher.



3. Disconnect the harness connector from main power window and door lock/unlock switch.

4. Release the four pawls that retain the main power window and door lock/unlock switch (1) to the main power window and door lock/unlock switch finisher (2) and separate them using a suitable tool (A).

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.

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FRONT POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

FRONT POWER WINDOW SWITCH

Removal and Installation

INFOID:000000006749154

REMOVAL

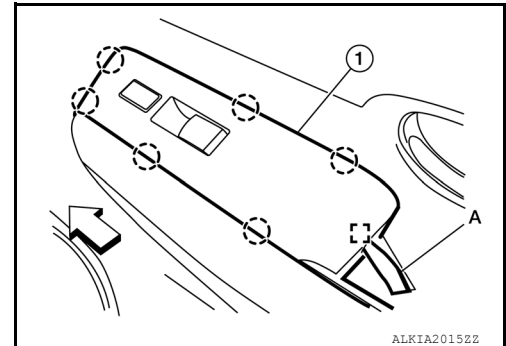
1. Beginning at the rear edge, insert a suitable tool (A) and release the metal clip of the power window and door lock/unlock switch RH finisher (1).

□: Metal clip

○: Pawl

←: Front

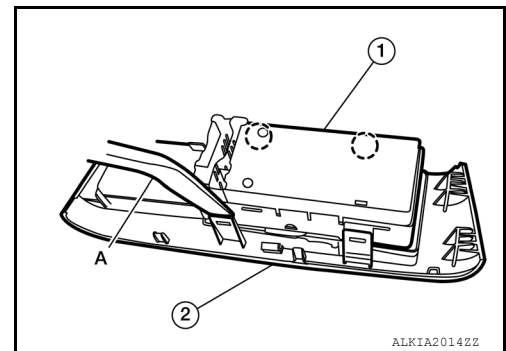
2. Working forward, release the remaining pawls, then remove the power window and door lock/unlock switch RH finisher (1) and power window and door lock/unlock switch RH as an assembly from the front door finisher.



3. Disconnect the harness connector from power window and door lock/unlock switch RH.

4. Release the four pawls that retain the power window and door lock/unlock switch RH (1) to the power window and door lock/unlock switch RH finisher (2) and separate them using a suitable tool (A).

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.