

PWC

SECTION

POWER WINDOW CONTROL SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

Precaution for Work

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

PREPARATION

< PREPARATION >

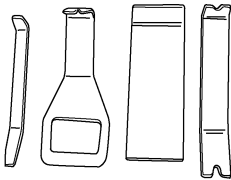
PREPARATION

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
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

COMPONENT PARTS

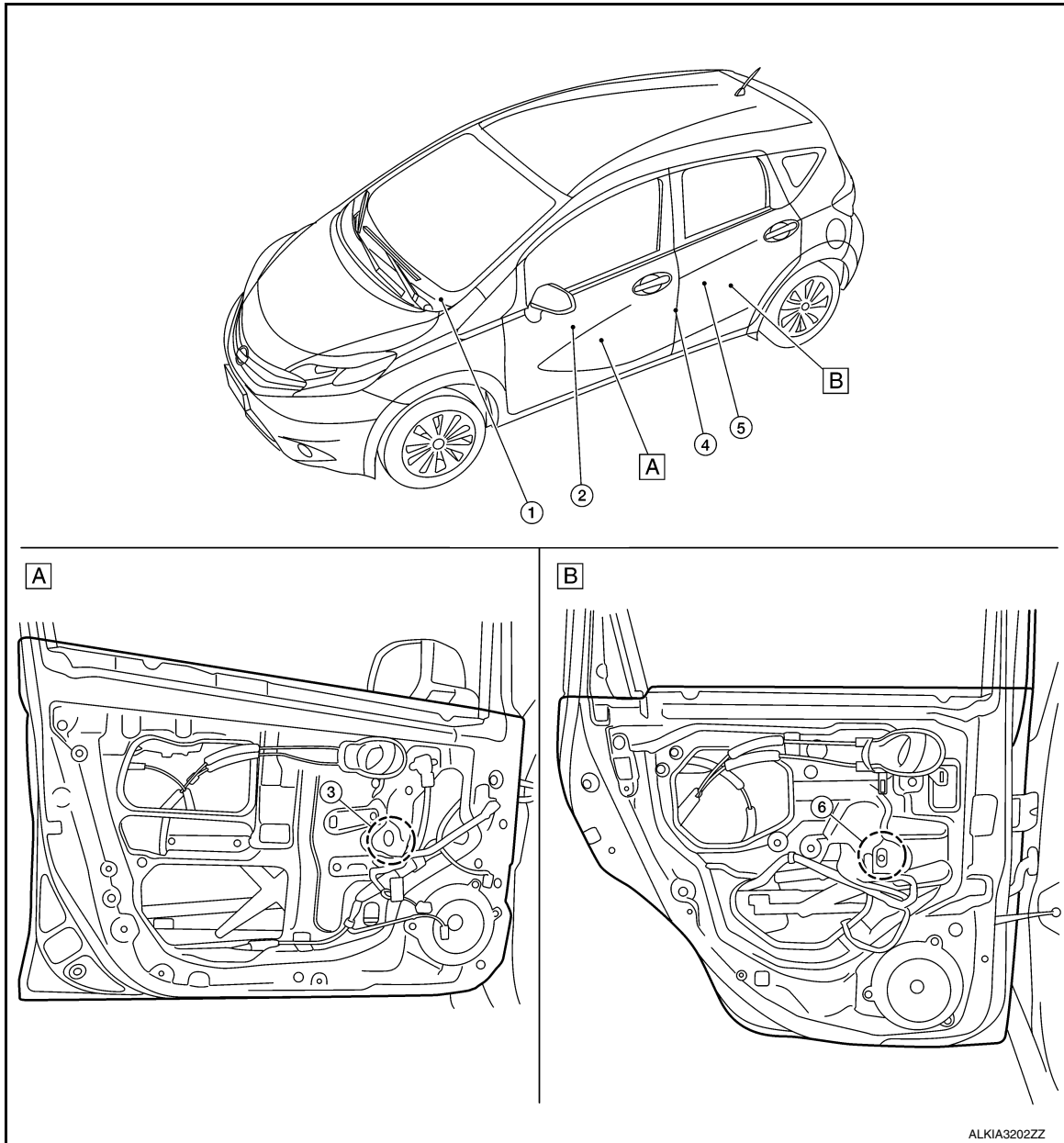
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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

No.	Component parts	Function
1.	BCM	- Supplies power supply to power window switch. - Controls retained power. - Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
2.	Power window main switch	Refer to PWC-6, "Power Window Main Switch" .
3.	Front power window motor (driver side)	Refer to PWC-6, "Power Window Motor" .

COMPONENT PARTS

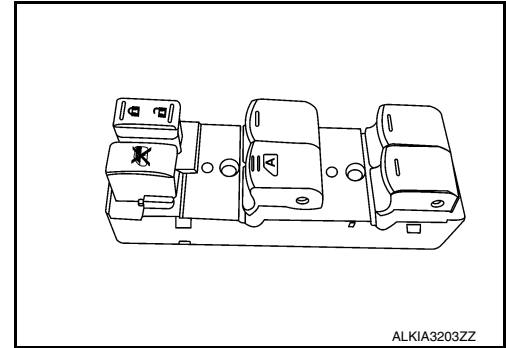
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No.	Component parts	Function
4.	Front door switch (driver side)	- Inputs door open/close condition to BCM. - Refer to DLK-16, "DOOR LOCK SYSTEM : Door Switch" for detailed installation location.
5.	Rear power window switch LH	Refer to PWC-6, "Power Window Switch" .
6.	Rear power window motor LH	Refer to PWC-6, "Power Window Switch" .

Power Window Main Switch

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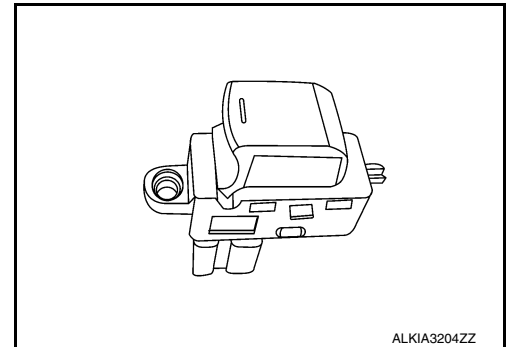
- Power window main switch controls all power windows.
- Power window main switch integrates UP/DOWN switch, power window lock switch, and door lock/unlock switch.
- Power window main switch controls the power window lock function.



Power Window Switch

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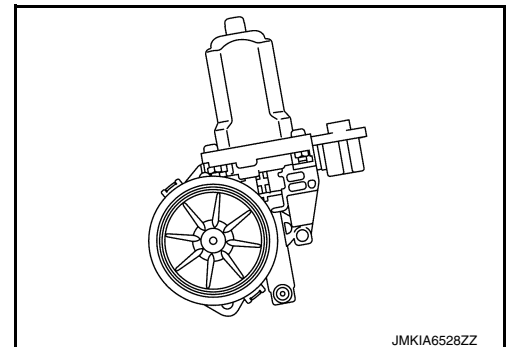
- Each power window switch transmits UP/DOWN signal to each motor.
- Each power window switch transmits UP/DOWN signal from power window main switch to each motor.



Power Window Motor

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



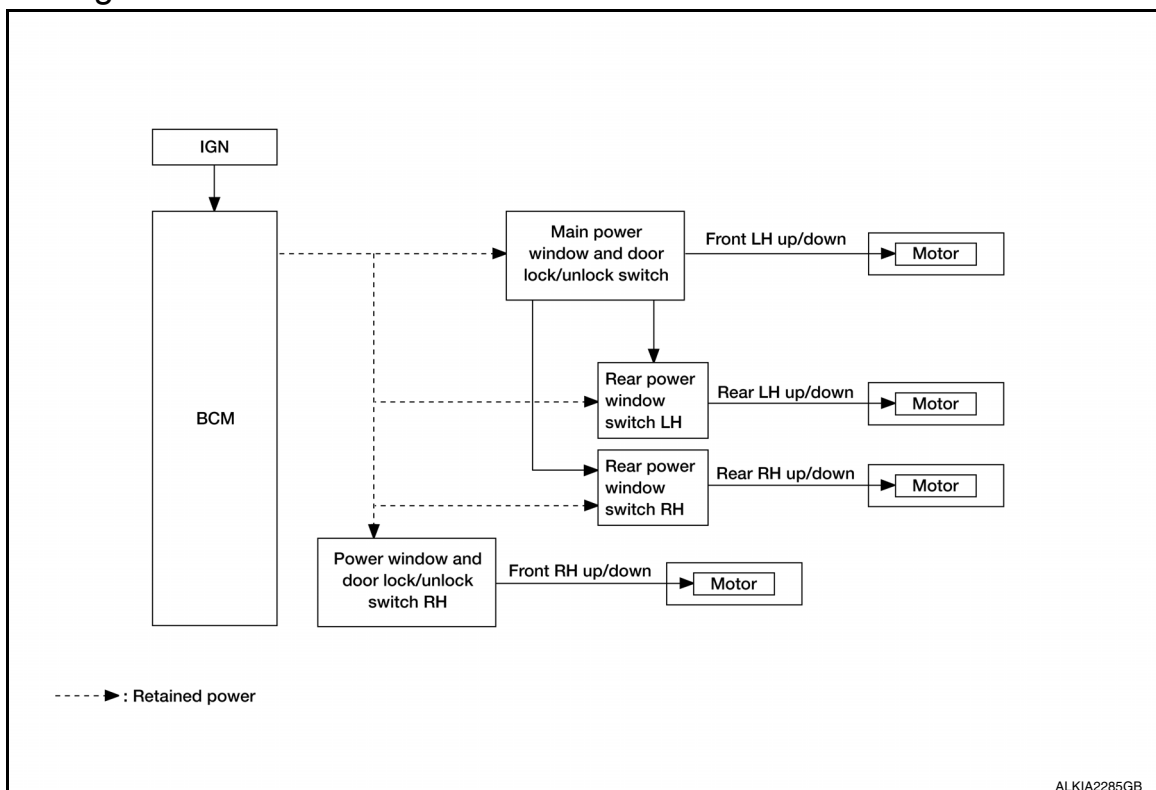
SYSTEM

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SYSTEM

System Diagram

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System Description

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BASIC OPERATION

- Power window system is activated by power window switch when ignition switch turns ON.
- Power window main switch opens/closes all door glass.
- Front and rear power window switch opens/closes the corresponding door glass.
- AUTO DOWN operation can be performed when power window main switch is depressed to the second detent.
- Power window lock switch can lock all power windows other than driver seat.

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)

AUTO DOWN operation can be performed when power window main switch is depressed to the second detent.

POWER WINDOW LOCK

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

RETAINED POWER OPERATION

- Retained power operation is an additional power supply function that enables power window system to operate for an additional 45 seconds after the 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)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				

RETAINED PWR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

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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.

A
B
C
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L
M
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P

PWC

BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

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ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-44, "Fail-safe"
	BCS-46, "DTC Inspection Priority Chart"
	BCS-46, "DTC Index"

POWER WINDOW MAIN SWITCH

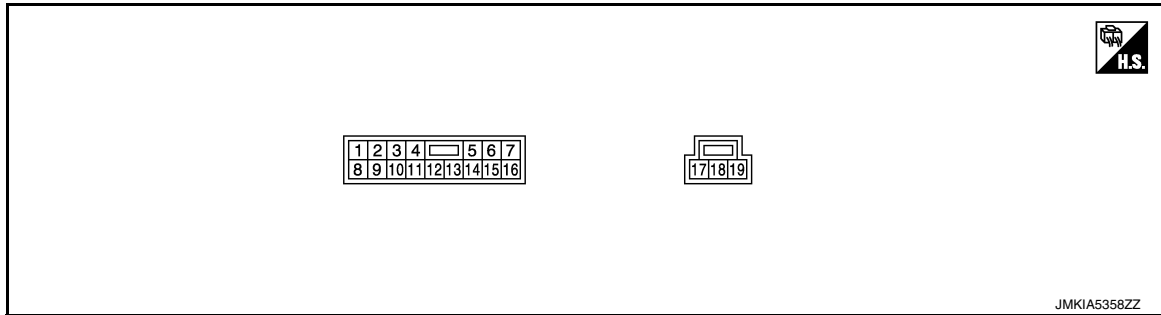
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POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000009015830

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage (Approx.)
+	-	Signal name	Input/ Output		
1 (BR)	Ground	Rear power window motor LH UP signal	Output	When the rear LH switch (power window main switch) is pulled UP.	Battery Voltage
3 (G)	Ground	Rear power window motor LH DOWN signal	Output	When the rear LH switch (power window main switch) is pressed DOWN.	Battery Voltage
5 (Y)	Ground	Rear power window motor RH DOWN signal	Output	When the rear RH switch (power window main switch) is pressed DOWN.	Battery Voltage
7 (V)	Ground	Rear power window motor RH UP signal	Output	When the rear RH switch (power window main switch) is pulled UP.	Battery Voltage
8 (R)	Ground	Front power window motor (driver side) UP signal	Output	When the front LH switch (power window main switch) is pulled UP.	Battery Voltage
10 (L)	Ground	Ignition switch power supply	Input	Ignition switch ON	Battery Voltage
				Other than above	0
11 (LG)	Ground	Front power window motor (driver side) DOWN signal	Output	When the front LH switch (power window main switch) is pressed DOWN.	Battery Voltage
12 (SB)	Ground	Front power window motor (passenger side) DOWN sig- nal	Output	When the front RH switch (power window main switch) is pressed DOWN.	Battery Voltage
16 (W)	Ground	Front power window motor (passenger side) UP signal	Output	When the front RH switch (power window main switch) is pulled UP.	Battery Voltage
17 (B)	Ground	Ground	—	—	0

POWER WINDOW SYSTEM

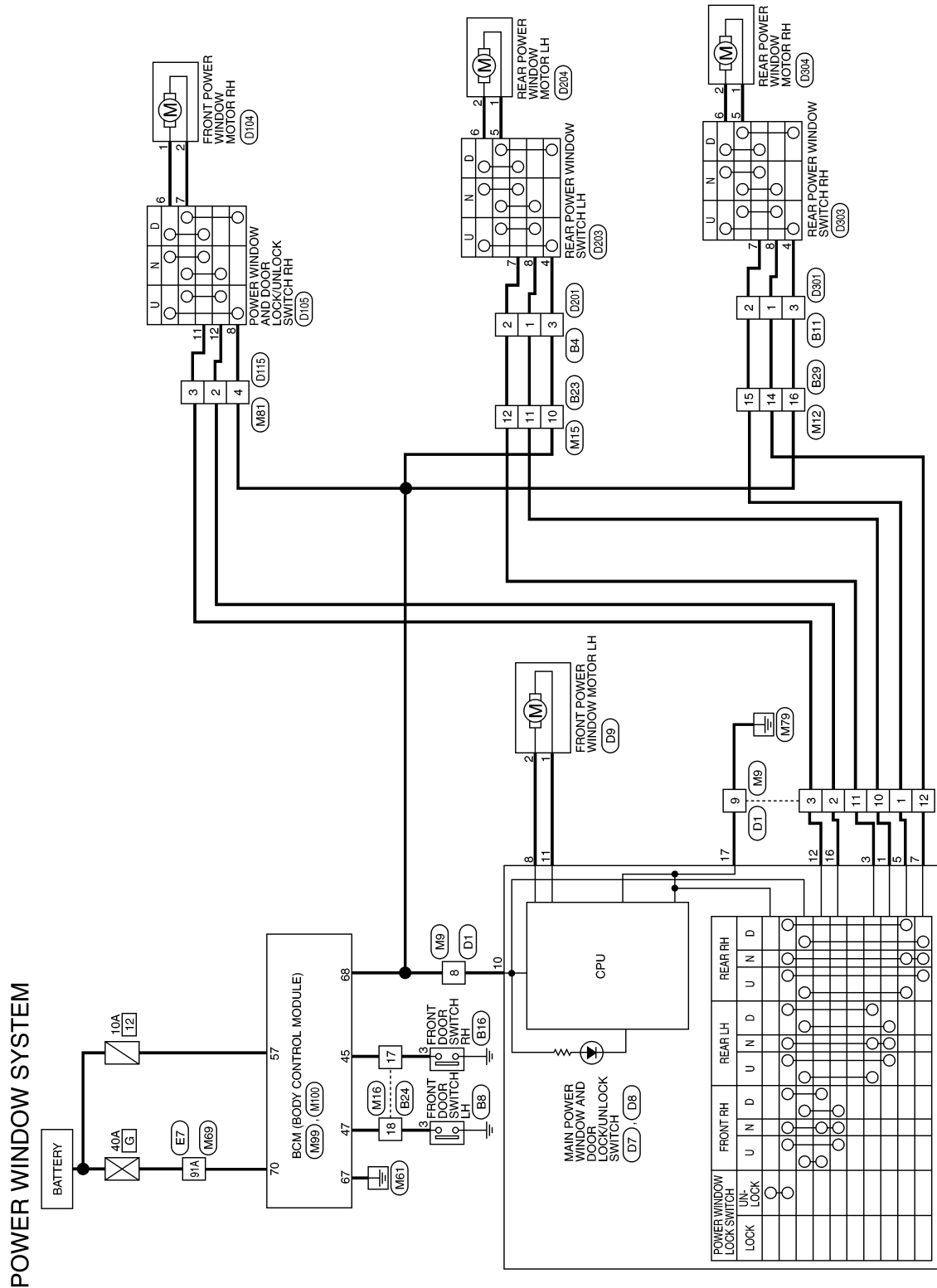
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WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM CONNECTORS

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
1	R	-
2	W	-
3	V	-
8	L	-
9	B	-
10	GR	-
11	O	-
12	LG	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
14	LG	-
15	R	-
16	L	-

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
10	L	-
11	GR	-
12	O	-

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
17	O	-
18	SB	-

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

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Color	WHITE

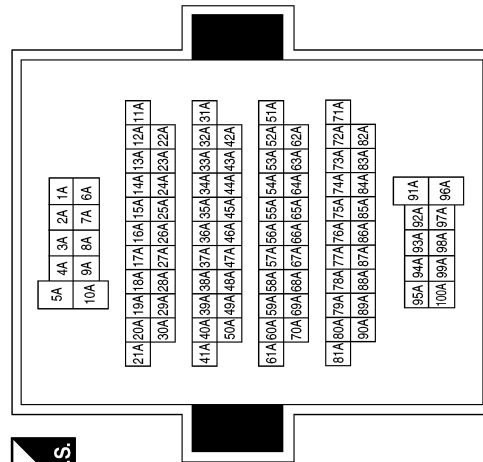


1	2	3	4	5
6	7	8	9	10
11	12			

Terminal No.	Color of Wire	Signal Name
2	W	-
3	V	-
4	L	-

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

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M100
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Terminal No.	45	47
Color of Wire	O	SB
Signal Name	DOOR SW (AS)	DOOR SW (DR)

Terminal No.	57	67	68	70
Color of Wire	Y	B	L	G
Signal Name	BATTERY (FUSE)	GND	POWER WINDOW POWER SUPPLY (IGN)	BATTERY (F/L)

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

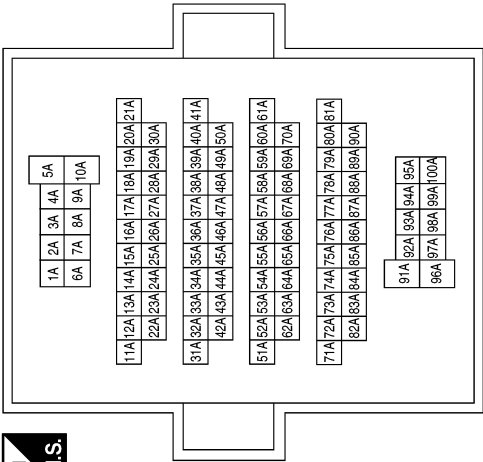


4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name
1	V	-
2	O	-
3	L	-

Terminal No.	Color of Wire	Signal Name
91A	Y	-

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B16
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



1	2	3	4
---	---	---	---

Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



4	3	2	1
10	9	8	7
6	5		

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

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



1	2	3	4
---	---	---	---

Terminal No.	Color of Wire	Signal Name
3	LG	-

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

PWC

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

Connector No.	B29
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
14	R	-
15	R/L	-
16	L	-

Terminal No.	Color of Wire	Signal Name
17	L	-
18	LG	-

Terminal No.	Color of Wire	Signal Name
10	L	-
11	V	-
12	O	-

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



17	18	19
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Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



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

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
17	B	GND

Terminal No.	Color of Wire	Signal Name
1	BR	MOTOR UP(RL)
3	G	MOTOR DN(RL)
5	Y	MOTOR DN(RR)
7	V	MOTOR UP(RR)
8	R	MOTOR UP(DR)
10	L	IGN
11	LG	MOTOR DN(DR)
12	SB	MOTOR DN(AS)
16	W	MOTOR UP(AS)

Terminal No.	Color of Wire	Signal Name
1	Y	-
2	W	-
3	SB	-
8	L	-
9	B	-
10	BR	-
11	G	-
12	V	-

AAKIA1255GB

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

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



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

Terminal No.	Color of Wire	Signal Name
6	Y	-
7	R	-
8	L	-
11	SB	-
12	W	-

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



Terminal No.	Color of Wire	Signal Name
1	Y	-
2	R	-

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



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	R	-

Connector No.	D203
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Color	WHITE



3	2	1
8	7	6
5	4	

Terminal No.	Color of Wire	Signal Name
4	L	-
5	R	-
6	G	-
7	Y	-
8	BR	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name
1	BR	-
2	Y	-
3	L	-

Connector No.	D115
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
2	W	-
3	SB	-
4	L	-

AAKIA1256GB

POWER WINDOW SYSTEM

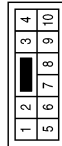
< WIRING DIAGRAM >

Connector No.	D204
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Color	BLACK



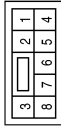
Terminal No.	Color of Wire	Signal Name
1	R	-
2	G	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	BR	-
2	Y	-
3	L	-

Connector No.	D303
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	L	-
5	R	-
6	G	-
7	Y	-
8	BR	-

Connector No.	D304
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	R	-
2	G	-

AAKIA1257GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

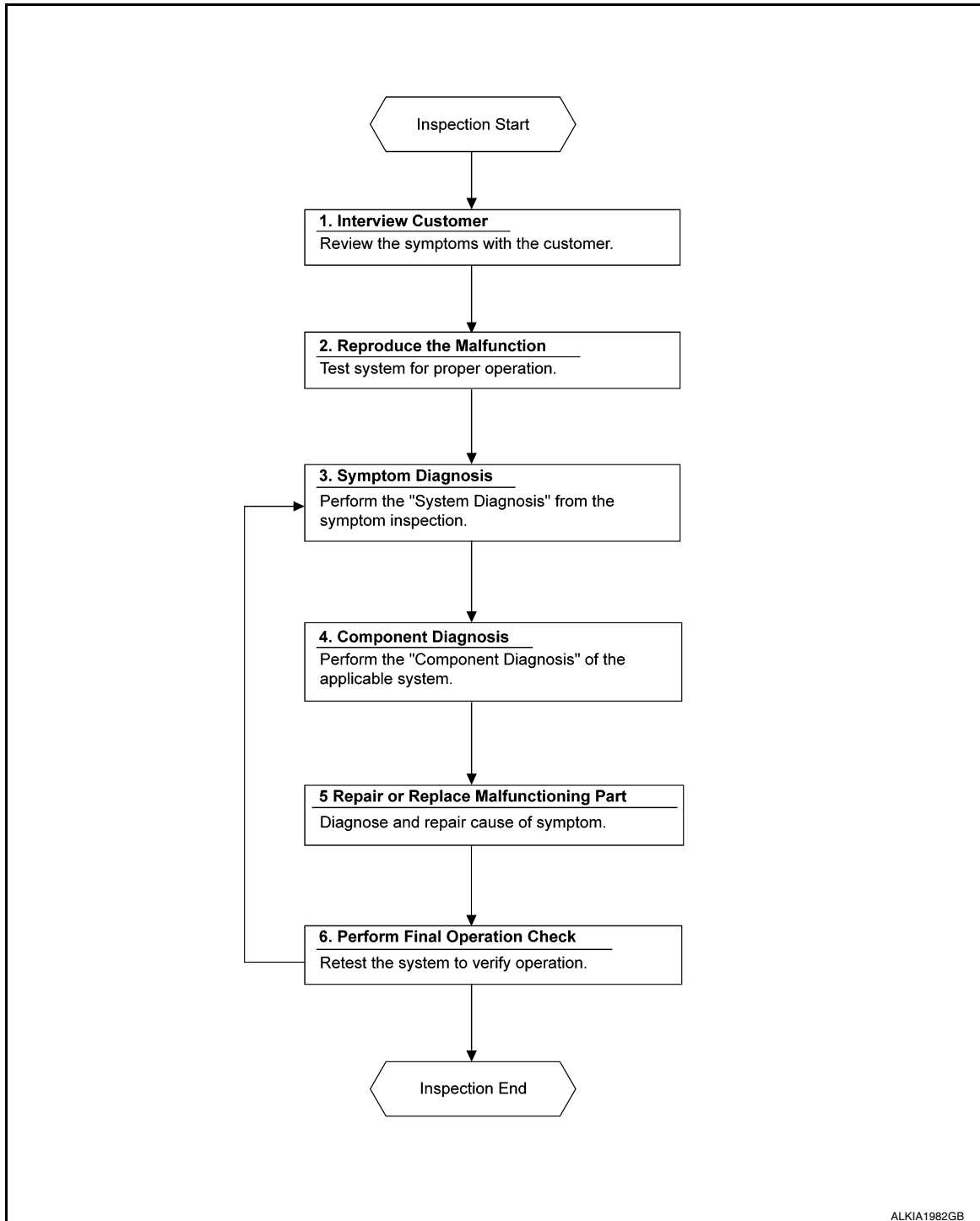
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000009578841

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 2.

2. CONFIRM THE SYMPTOM

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

>> GO TO 3.

3. IDENTIFY THE MALFUNCTIONING SYSTEM WITH SYMPTOM DIAGNOSIS

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

>> GO TO 4.

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

Perform the diagnosis with Component diagnosis of the applicable system.

>> GO TO 5.

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 BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Diagnosis Procedure

INFOID:000000009578884

Regarding Wiring Diagram information, refer to [BCS-48, "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	12 (10A)
70		G (40A)

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. Disconnect BCM connector M99.
2. Check voltage between BCM connector M99 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M99	57	—	Battery voltage
	70		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM connector M99 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	67	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000009578867

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

1.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY

1. Turn ignition switch OFF.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

(+) Power window main switch		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
D7	10	Ground	Ignition switch	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M99	68	D7	10	Yes

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	68		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK POWER WINDOW MAIN SWITCH GROUND CIRCUIT

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	17		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:0000000009578868

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

1.CHECK FRONT POWER WINDOW SWITCH RH POWER SUPPLY

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Voltage (V) (Approx.)
Front power window switch RH			
Connector	Terminal		
D105	8	Ground	Battery voltage

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

2.CHECK FRONT POWER WINDOW SWITCH RH POWER SUPPLY CIRCUIT

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

BCM		Front power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	
M99	68	D105	8	Yes

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	68		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000009578869

Regarding Wiring Diagram information, refer to [PWC-12. "Wiring Diagram"](#).

PWC

1.CHECK REAR POWER WINDOW SWITCH POWER SUPPLY

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.

(+)		(-)	Voltage (V) (Approx.)
Rear power window switch			
Connector	Terminal		
LH	D203	Ground	Battery voltage
RH	D303		

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

2.CHECK REAR POWER WINDOW SWITCH POWER SUPPLY CIRCUIT

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Rear power window switch		Continuity
Connector	Terminal	Connector	Terminal	
M99	68	LH	D203	Yes
		RH	D303	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	68		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Component Function Check

INFOID:000000009578870

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to [PWC-25, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009578871

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

1. CHECK FRONT POWER WINDOW SWITCH RH INPUT SIGNAL

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

(+) Front power window switch RH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
D105	11	Ground	Power window main switch (front RH)	NEUTRAL	0
				UP	Battery voltage
	12			NEUTRAL	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK FRONT POWER WINDOW SWITCH RH CIRCUIT

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

Power window main switch		Front power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	
D7	12	D105	11	Yes
	16		12	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D7	12		No
	16		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-44, "Removal and Installation"](#).

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK FRONT POWER WINDOW SWITCH RH

Check front power window switch RH.

Refer to [PWC-6, "Power Window Switch"](#).

Is the inspection result normal?

YES >> Check Intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace front power window switch RH. Refer to [PWC-45, "Removal and Installation"](#).

Component Inspection

INFOID:0000000009578872

1.CHECK FRONT POWER WINDOW SWITCH RH

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

Front power window switch RH		Condition	Continuity
Terminal			
6	8	UP	Yes
7	12		
6	11	NEUTRAL	
7	12		
6	11	DOWN	
7	8		

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front power window switch RH. Refer to [PWC-45, "Removal and Installation"](#).

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER WINDOW SWITCH

Component Function Check

INFOID:000000009578873

1. CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Inspection End.
NO >> Refer to [PWC-31, "REAR LH : Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009578874

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

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 (V) (Approx.)
Rear power window switch						
Connector		Terminal				
LH	D203	7	Ground	Power window main switch (rear LH)	NEUTRAL	0
					DOWN	Battery voltage
		8			NEUTRAL	0
					UP	Battery voltage
RH	D303	7		Power window main switch (rear RH)	NEUTRAL	0
					DOWN	Battery voltage
		8			NEUTRAL	0
					UP	Battery voltage

Is the inspection result normal?

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

2. CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

Power window main switch		Rear power window switch		Continuity
Connector	Terminal	Connector	Terminal	
D7	1	LH	D203	8
	3			7
	5	RH	D303	7
	7			8

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

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Power window main switch		Ground	Continuity
Connector	Terminal		
D7	1		No
	3		
	5		
	7		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-44, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to [PWC-31, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace rear power window switch. Refer to [PWC-46, "Removal and Installation"](#).

Component Inspection

INFOID:000000009578875

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.

Rear power window switch		Condition	Continuity
Terminal			
4	6	UP	Yes
8	5		
8	5	NEUTRAL	
7	6		
4	5	DOWN	
7	6		

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear power window switch. Refer to [PWC-46, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000009578876

1. CHECK FUNCTION

Check front power window motor LH operation with power window main switch.

Is the inspection result normal?

- YES >> Inspection End.
NO >> Refer to [PWC-31, "REAR LH : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009578877

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

1. CHECK FRONT 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 front power window motor LH harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)
Front power window motor LH					
Connector	Terminal				
D9	1	Ground	Power window main switch	NEUTRAL	0
				DOWN	Battery voltage
	2			NEUTRAL	0
				UP	Battery voltage

Is the inspection result normal?

- YES >> Replace front power window motor LH.
NO >> GO TO 2.

2. CHECK FRONT POWER WINDOW MOTOR LH CIRCUIT

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

Power window main switch		Front power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D7	8	D9	2	Yes
	11		1	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D7	8		No
	11		

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-44, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000009578878

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to [PWC-30, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009578879

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

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.

(+) Front power window motor RH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
D104	1	Ground	Front power window switch RH	NEUTRAL	0
				DOWN	Battery voltage
	2			NEUTRAL	0
				UP	Battery voltage

Is the inspection result normal?

YES >> Replace front power window motor RH.

NO >> GO TO 2.

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

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

Front power window switch RH		Front power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D105	6	D104	1	Yes
	7		2	

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

Front power window switch RH		Ground	Continuity
Connector	Terminal		
D105	6		No
	7		

Is the inspection result normal?

YES >> Replace front power window switch RH. Refer to [PWC-45, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

REAR LH

REAR LH : Component Function Check

INFOID:000000009578880

1.CHECK FUNCTION

Check rear power window motor LH operation with power window main switch or rear power window switch LH.

Is the inspection result normal?

YES >> Inspection End.

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

REAR LH : Diagnosis Procedure

INFOID:000000009578881

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

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 (V) (Approx.)
Rear power window motor LH					
Connector	Terminal				
D204	1	Ground	Rear power win- dow switch LH	NEUTRAL	0
				UP	Battery voltage
	2			NEUTRAL	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> Replace rear power window motor LH.

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	
D203	6	D204	2	Yes
	5		1	

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

Rear power window switch LH		Ground	Continuity
Connector	Terminal		
D203	6		No
	5		

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to [PWC-46, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

REAR RH

REAR RH : Component Function Check

INFOID:000000009578882

1. CHECK FUNCTION

Check rear power window motor RH operation with power window main switch or rear power window switch RH.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to [PWC-32, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000009578883

Regarding Wiring Diagram information, refer to [PWC-12, "Wiring Diagram"](#).

1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+)Rear power window motor RH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
D304	1	Ground	Rear power window switch RH	NEUTRAL	0
				UP	Battery voltage
	2			NEUTRAL	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> Replace rear power window motor RH.
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	
D303	6	D304	2	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		
D303	6		No
	5		

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to [PWC-46, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

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POWER WINDOWS DO NOT OPERATE WITH POWER WINDOW MAIN SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

POWER WINDOWS DO NOT OPERATE WITH POWER WINDOW MAIN SWITCH

Diagnosis Procedure

INFOID:000000009578852

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-61, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check power window main switch power supply and ground circuit.

Refer to [PWC-21, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [PWC-44, "Removal and Installation"](#).

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009578853

1.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check front power window motor (driver side).

Refer to [PWC-29, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [PWC-44, "Removal and Installation"](#).

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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

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

INFOID:000000009578854

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to [PWC-22, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

Check front power window motor (passenger side).

Refer to [PWC-30, "PASSENGER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [PWC-44, "Removal and Installation"](#).

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

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

INFOID:000000009578855

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

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

Refer to [PWC-25, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to [PWC-25, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [PWC-44, "Removal and Installation"](#).

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000009578856

1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to [PWC-25. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

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PWC

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED

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

INFOID:000000009578857

1.CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-23, "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 MOTOR LH

Check rear power window motor LH.

Refer to [PWC-31, "REAR LH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED : Diagnosis Procedure

INFOID:000000009578858

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

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

Refer to [PWC-23, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-27, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000009578859

1.CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-27, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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PWC

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH ARE OPERATED

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

INFOID:000000009578860

1.CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-27, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-32, "REAR RH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED : Diagnosis Procedure

INFOID:000000009578861

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

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

Refer to [PWC-23, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-27, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000009578862

1.CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-27, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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PWC

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000009578863

1.CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [PWC-25, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

• Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000009578864

1. REPLACE POWER WINDOW MAIN SWITCH

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

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PWC

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

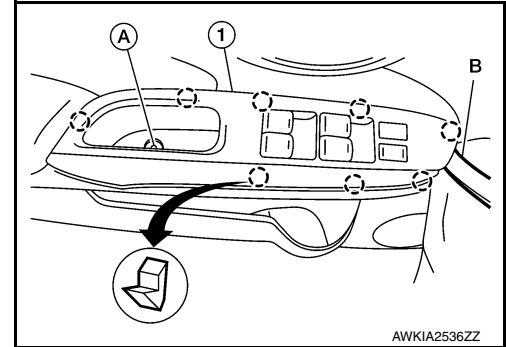
Removal and Installation

INFOID:000000009567637

REMOVAL

1. Remove main power window and door lock/unlock switch finisher door handle pull escutcheon.
2. Remove screw (A) from main power window and door lock/unlock switch finisher.
3. Remove main power window and door lock/unlock switch finisher (1) using a suitable tool (B).

○: Pawl

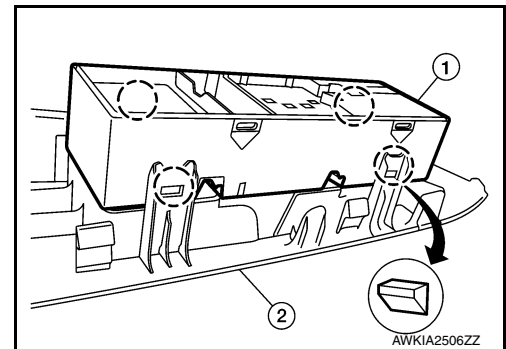


4. Disconnect the harness connectors from the main power window and door lock/unlock switch.
5. Release pawls and remove main power window and door lock/unlock switch (1) from main power window and door lock/unlock switch finisher assembly (2) using a suitable tool.

○: Pawl

CAUTION:

Do not bend back the pawls on the switch finisher too far or damage may occur.



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-19, "Work Flow"](#).

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

< REMOVAL AND INSTALLATION >

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

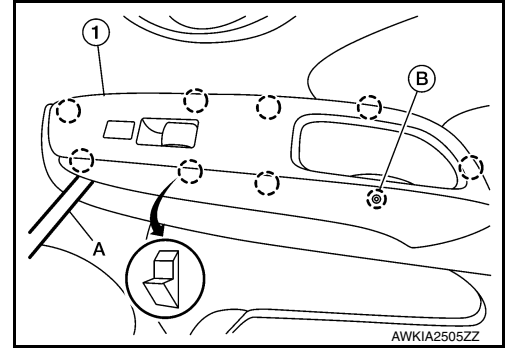
Removal and Installation

INFOID:000000009567638

REMOVAL

1. Remove power window and door lock/unlock switch (RH) finisher door handle pull escutcheon.
2. Remove screw (B) from power window and door lock/unlock switch (RH) finisher.
3. Remove power window and door lock/unlock switch (RH) finisher (1) using a suitable tool (A).

○: Pawl

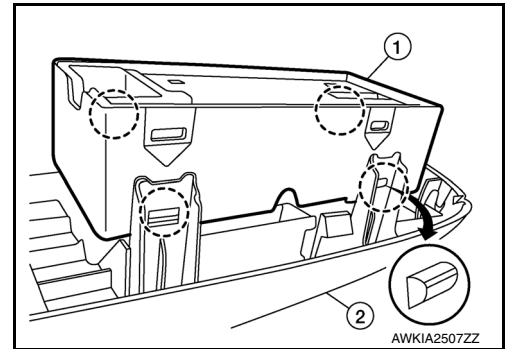


4. Disconnect the harness connector from the power window and door lock/unlock switch (RH).
5. Release pawls and remove power window and door lock/unlock switch (1) from power window and door lock/unlock switch (RH) finisher (2) using a suitable tool.

○: Pawl

CAUTION:

Do not bend back the pawls on the switch finisher too far or damage may occur.



INSTALLATION

Installation is in the reverse order of removal.

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PWC

REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

REAR POWER WINDOW SWITCH

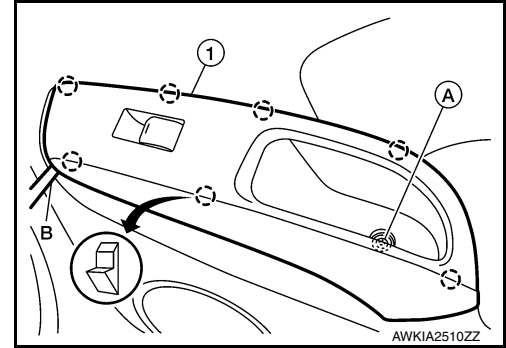
Removal and Installation

INFOID:000000009567639

REMOVAL

1. Remove rear power window switch door handle pull escutcheon.
2. Remove screw (A) from rear power window switch finisher.
3. Remove rear power window switch finisher (1) using a suitable tool (B).

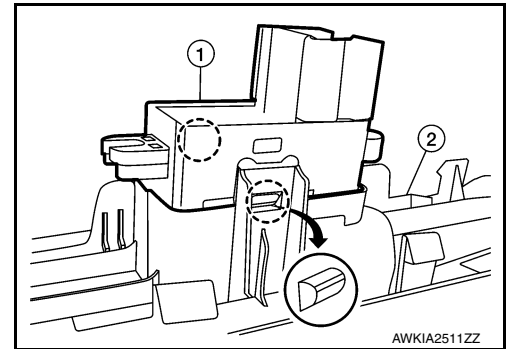
○: Pawl



4. Disconnect the harness connector from the rear power window switch.
5. Release pawls and remove rear power window switch (1) from rear power window switch finisher (2) using a suitable tool.

CAUTION:

Do not bend back the pawls on the switch finisher too far or damage may occur.



INSTALLATION

Installation is in the reverse order of removal.