

# SECTION PWC

## POWER WINDOW CONTROL SYSTEM

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

WorkFlow

INFOID:000000001348580

DETAILED FLOW

#### 1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> 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.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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.

Is trouble reproduced?

YES >> GO TO 3.

NO >> Trouble diagnosis is completed.

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# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

## INSPECTION AND ADJUSTMENT

### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

#### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000001348581

If any of the following work has been done Initial setting is necessary.

- Power supply to the power window main switch or power window motor is cut off by the removal of battery terminal or the battery fuse is blown.
- Disconnection and connection of power window main switch harness connector.
- Removal and installation of motor from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of glass.
- Removal and installation of door glass run.

#### NOTE:

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

- Auto-up operation
- Anti-pinch function

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

#### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000001348582

#### INITIALIZATION PROCEDURE

1. Turn ignition switch ON.
2. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
3. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 2 seconds or more.
4. Inspect anti-pinch function.

#### CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
  2. Place a piece of wood near fully closed position.
  3. Close door glass completely with AUTO-UP.
- Check that glass lowers for approximately 150 mm or 2 seconds without pinching piece of wood and stops.
  - Check that glass does not rise when operating the power window main switch while lowering.

#### CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Do not check with hands and other body parts because they may be pinched. Do not get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without full close. Perform initial setting in that situation. Refer to [PWC-66, "Fail Safe"](#).
- Finish initial setting. Otherwise, next operation cannot be done.

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

#### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

#### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000001348583

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

#### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001348584

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#) for initialization procedure and check anti-pinch function.

# POWER WINDOW SYSTEM

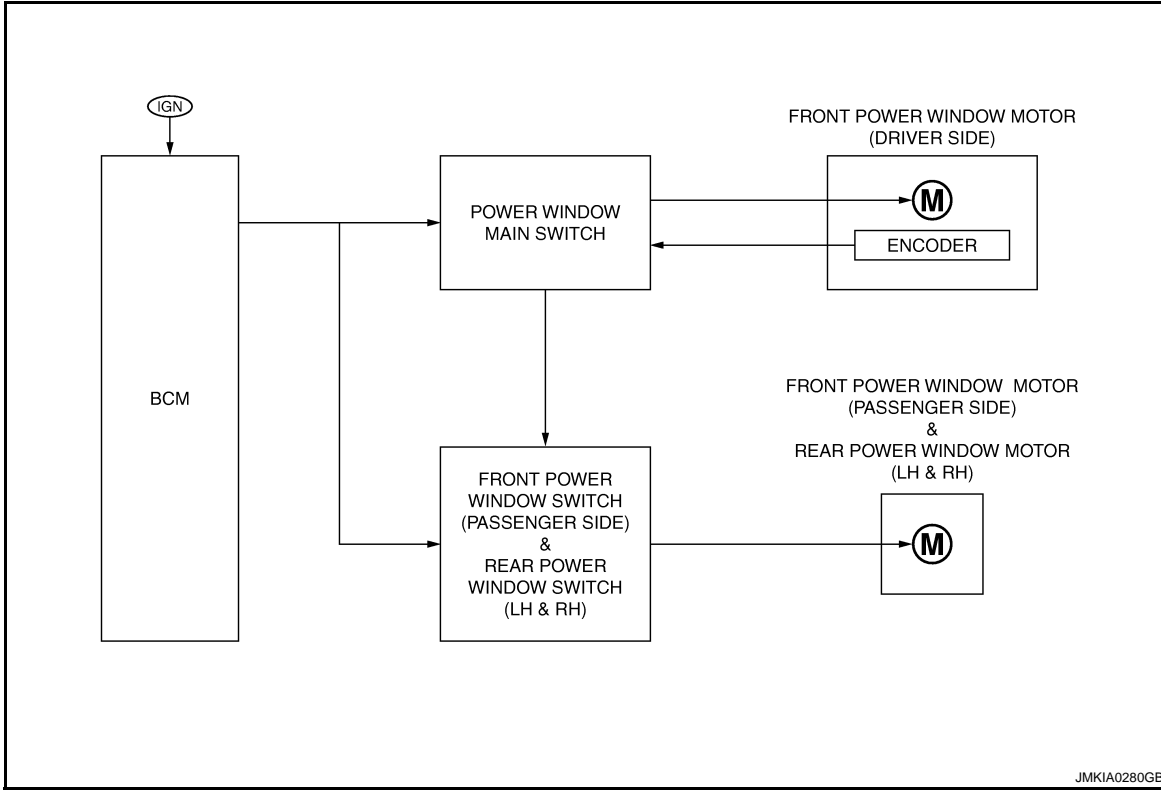
< FUNCTION DIAGNOSIS >

## FUNCTION DIAGNOSIS

### POWER WINDOW SYSTEM

#### System Diagram

INFOID:000000001348585



#### System Description

INFOID:000000001348586

#### POWER WINDOW MAIN SWITCH INPUT/OUTPUT SIGNAL CHART

PWC

Item	Input signal to power window main switch	Power window main switch function	Actuator
Encoder	Encoder pulse signal	Power window control	Front power window motor (driver side)
Power window main switch	Front power window motor (driver side) UP/DOWN signal		
Front power window switch (passenger side)	Front power window motor (passenger side) UP/DOWN signal		Front power window motor (passenger side)
Rear power window switch	Rear power window motor UP/DOWN signal		Rear power window motor (LH & RH)

#### FRONT POWER WINDOW SWITCH (PASSENGER SIDE) & REAR POWER WINDOW SWITCH (LH & RH)

#### INPUT/OUTPUT SIGNAL CHART

# POWER WINDOW SYSTEM

## < FUNCTION DIAGNOSIS >

Item	Input signal to front power window switch (passenger side) & rear power window switch (LH & RH)	Front power window switch (passenger side) & rear power window switch (LH & RH) function	Actuator
Front power window switch (passenger side)	Front power window motor (passenger side) UP/DOWN signal	Power window control	Front power window motor (passenger side)
Rear power window switch (LH & RH)	Rear power window motor (LH & RH) UP/DOWN signal		Rear power window motor (LH & RH)

### POWER WINDOW OPERATION

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

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

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

### POWER WINDOW LOCK

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

### ANTI-PINCH OPERATION (FRONT DRIVER SIDE)

- Pinch foreign material in the door glass during AUTO-UP operation, and it is the anti-pinch function that lowers the door glass 150 mm or 2 seconds when detected.
- Encoder continues detecting the movement of front power window motor (driver side) and transmits to power window main switch as the encoder pulse signal while front power window motor (driver side) is operating.
- Resistance is applied to the front power window motor (driver side) rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window main switch controls to lower the window glass for 150 mm or 2 seconds after it detects encoder pulse signal frequency change.

### OPERATION CONDITION

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

### NOTE:

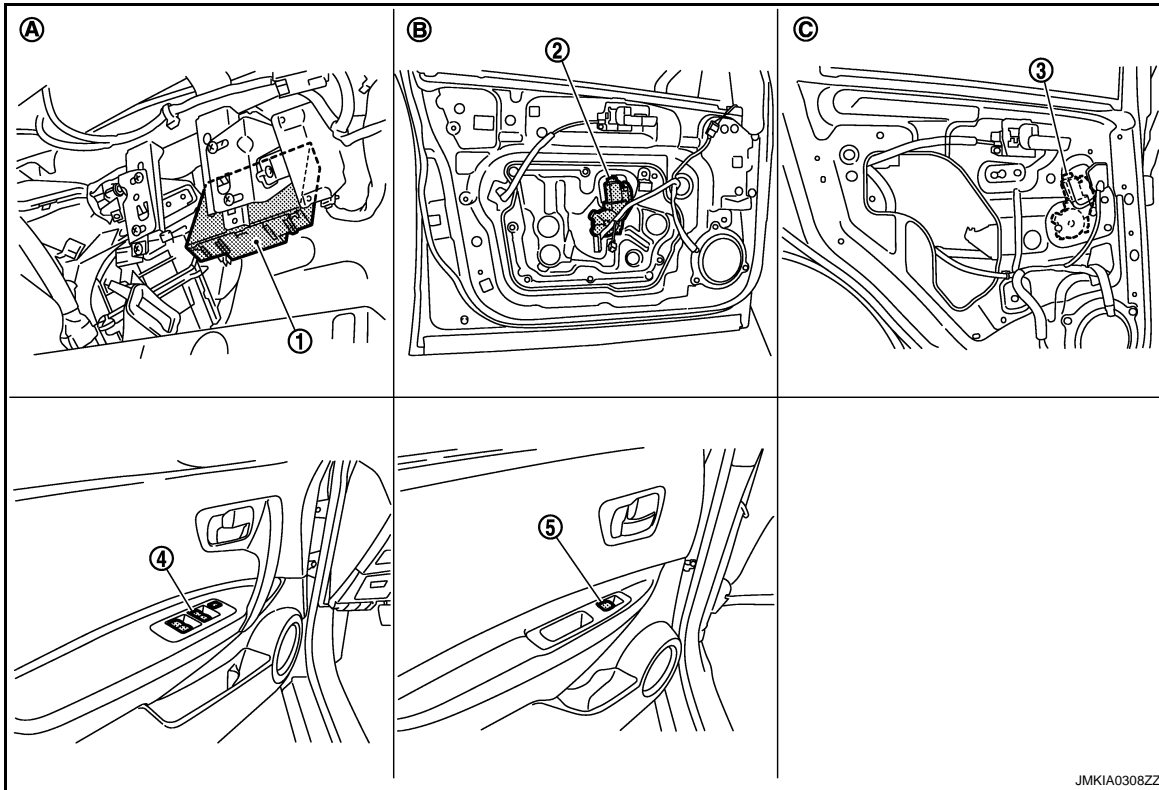
Depending on environment and driving conditions, if a similar impact or load is applied to the door glass, it may lower.

# POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

## Component Parts Location

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|---|--|--|
| 1. BCM<br>M65, M66, M67                                   | 2. Front power window motor (driver side)<br>LHD:D7<br>RHD:D27 | 3. Rear power window motor LH<br>LHD:D82<br>RHD:D112 |
| 4. Power window main switch<br>LHD:D5, D6<br>RHD:D25, D26 | 5. Rear power window switch LH<br>LHD:D83<br>RHD:D113          |  |

- |  |   |  |
|--|---|--|
| A. View with dash side lower. (passenger side) | B. View with front door finisher removed. | C. View with rear door finisher removed. |
|--|---|--|

## Component Description

INFOID:000000001348588

Component	Function
BCM	<ul style="list-style-type: none"> <li>Supplies power supply to power window switch.</li> </ul>
Power window main switch	<ul style="list-style-type: none"> <li>Directly controls all power window motor of all doors.</li> <li>Controls anti-pinch operation of power window.</li> </ul>
Front power window switch	Controls power window motor of front passenger side door.
Rear power window switch (LH & RH)	Controls power window motor of rear right and left doors.
Front power window motor (driver side)	<ul style="list-style-type: none"> <li>Integrates the encoder and power window motor.</li> <li>Starts operating with signals from power window main switch.</li> <li>Transmits front power window motor (driver side) rotation as a pulse signal to power window main switch.</li> </ul>
Front door window motor (passenger side)	Starts operating with signals from power window main switch & front power window switch (passenger side).
Rear power window motor (LH & RH)	Starts operating with signals from power window main switch & rear power window switch (LH & RH).

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# POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT

#### BCM

#### BCM : Diagnosis Procedure

INFOID:000000001348651

#### 1.CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
38	Ignition power supply	4 (10A)
41	Battery power supply	9 (10A)
57		J (40A)

Is the fuse fusing?

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

NO >> GO TO 2.

#### 2.CHECK POWER SUPPLY CIRCUIT

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

Terminals		Condition	Voltage (Approx.)
(+)	(-)		
BCM		Ground	Battery voltage
Connector	Terminal		
M65	38		
M66	41		
M67	57		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	55		Existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Repair harness or connector.

### POWER WINDOW MAIN SWITCH

#### POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000001348592

#### 1.CHECK POWER SUPPLY CIRCUIT

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



# POWER SUPPLY AND GROUND CIRCUIT

## < COMPONENT DIAGNOSIS >

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Power window main switch connector	Terminal	
D5 (D25)	10	Battery voltage
D6 (D26)	19	

():RHD models

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

### 2.CHECK GROUND CIRCUIT

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

Power window main switch connector	Terminal	Ground	Continuity
D6 (D26)	17		Existed

():RHD models

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Repair or replace harness.

### 3.CHECK HARNESS CONTINUITY

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

BCM connector	Terminal	Power window main switch connector	Terminal	Continuity
M67	53	D5 (D25)	10	Existed
	58	D6 (D26)	19	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	53		Not existed
	58		

():RHD models

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK BCM OUTPUT SIGNAL

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

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
M67	53	Battery voltage
	58	

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# POWER SUPPLY AND GROUND CIRCUIT

## < COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-65. "Exploded View"](#).

### 5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

## FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

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

INFOID:000000001348597

#### 1.CHECK POWER SUPPLY CIRCUIT

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

Terminal		Condition	Voltage (V) (Approx.)
(+)	(-)		
Front power window switch (passenger side) connector	Terminal		
D45 (D65)	1	Ignition switch ON	Battery voltage

():RHD models

Is the inspection result normal?

YES >> INSPECTION END.

NO >> GO TO 2.

#### 2.CHECK HARNESS CONTINUITY

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

BCM connector	Terminal	Front power window switch (passenger side) connector	Terminal	Continuity
M67	53	D45 (D65)	1	Existed

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	53		Not existed

():RHD models

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

#### 3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#) .

>> INSPECTION END.

## REAR POWER WINDOW SWITCH

### REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000001348601

#### 1.CHECK POWER SUPPLY CIRCUIT

Check voltage between rear power window switch harness connector and ground.

# POWER SUPPLY AND GROUND CIRCUIT

## < COMPONENT DIAGNOSIS >

Terminal		Terminal	Condition	Voltage (V) (Approx.)
(+)				
Rear power window switch connector		1	Ground	Ignition switch ON
LH	D83 (D113)			
RH	D103 (D93)			Battery voltage

():RHD models

Is the inspection result normal?

YES >> INSPECTION END.

NO >> GO TO 2.

### 2.CHECK HARNESS CONTINUITY

1. Disconnect BCM connector and rear power window switch connector.
2. Check continuity between BCM harness connector and rear power window switch harness connector.

BCM connector	Terminal	Rear power window switch connector		Terminal	Continuity
M67	53	LH	D83 (D113)	1	Existed
		RH	D103 (D93)		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	53		Not existed

():RHD models

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

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# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

## FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

### Description

INFOID:000000001521395

- Front power window motor (passenger side) will be operated if front power window switch (passenger side) is operated.

### Component Function Check

INFOID:000000001521396

#### 1. CHECK POWER WINDOW MOTOR FUNCTION

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

Is the inspection result normal?

- YES >> Front power window switch (passenger side) is OK.  
 NO >> Refer to [PWC-12. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000001521397

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

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

Terminal		(-)	Power window main switch condition		Voltage (V) (Approx.)
(+)	Terminal				
Front power window switch (passenger side)		Ground	Passenger side	UP	Battery voltage
D45 (D65)	2			DOWN	0
	3			UP	0
				DOWN	Battery voltage

():RHD models

Is the inspection result normal?

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

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

Check front power window switch (passenger side).

Refer to [PWC-13. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.  
 NO >> Replace front power window switch (passenger side). Refer to [PWC-78. "Removal and Installation"](#).

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

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

Power window main switch connector	Terminal	Front power window switch (passenger side) connector	Terminal	Continuity
D5 (D25)	8	D45 (D65)	2	Existed
	11		3	

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

# FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

## < COMPONENT DIAGNOSIS >

Power window main switch connector	Terminal	Ground	Continuity
D5 (D25)	8		Ground
	11		

():RHD models

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

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

Terminal		Window condition	Voltage (V) (Approx.)	
(+)	(-)			
Power window main switch connector	Terminal	Ground	Battery voltage	
D5 (D25)	8			UP
	11		DOWN	0
			UP	0
	DOWN	Battery voltage		

():RHD models

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to [PWC-78. "Removal and Installation"](#).

### 5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

## Component Inspection

INFOID:000000001521398

PWC

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

Check front power window switch (passenger side).

Front power window switch (passenger side)	Terminal		Front power window switch condition	Continuity
D45 (D65)	1	5	UP	Existed
	3	4		
	3	4	NEUTRAL	
	2	5		
	1	4	DOWN	
	2	5		

():RHD models

Is the inspection result normal?

YES >> Front power window switch (passenger side) is OK.

NO >> Replace front power window switch (passenger side). Refer to [PWC-78. "Removal and Installation"](#).

# REAR POWER WINDOW SWITCH

< COMPONENT DIAGNOSIS >

## REAR POWER WINDOW SWITCH

### Description

INFOID:000000001521399

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

### Component Function Check

INFOID:000000001521400

#### 1. CHECK REAR POWER WINDOW MOTOR FUNCTION

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

Is the inspection result normal?

- YES >> Rear power window switch is OK.  
NO >> Refer to [PWC-14, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000001521401

#### 1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

Terminal		(-)	Power window main switch condition		Voltage (V) (Approx.)
(+)	Terminal				
Rear power window switch connector	2	Ground	LH	UP	Battery voltage
				DOWN	0
	3		UP	0	
			DOWN	Battery voltage	
RH: D103 (D93)	2		RH	UP	Battery voltage
				DOWN	0
	3		UP	0	
			DOWN	Battery voltage	

():RHD models

Is the inspection result normal?

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

#### 2. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to [PWC-15, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.  
NO >> Replace rear power window switch. Refer to [PWC-78, "Removal and Installation"](#).

#### 3. CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

# REAR POWER WINDOW SWITCH

## < COMPONENT DIAGNOSIS >

Power window main switch connector	Terminal	Rear power window switch connector		Terminal	Continuity
D5 (D25)	1	LH	D83 (D113)	2	Existed
	3			3	
	5	RH	D103(D93)	3	
	7			2	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D5 (D25)	1	Ground	Not existed
	3		
	5		
	7		

():RHD models

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

- Turn ignition switch ON.
- Check voltage between power window main switch harness connector and ground.

Terminal (+)		Terminal (-)	Power window main switch condition		Voltage (V) (Approx.)
Power window main switch connector	Terminal				
D5 (D25)	1	Ground	REAR LH	UP	Battery voltage
				DOWN	0
	3		REAR LH	UP	0
				DOWN	Battery voltage
	5		REAR RH	UP	Battery voltage
				DOWN	0
	7		REAR RH	UP	0
				DOWN	Battery voltage

():RHD models

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to [PWC-78, "Removal and Installation"](#).

## 5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END.

## Component Inspection

INFOID:000000001521402

## 1.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

## REAR POWER WINDOW SWITCH

### < COMPONENT DIAGNOSIS >

Rear power window switch	Terminal		Power window switch condition	Continuity
LH:D83 (D113) RH:D103 (D93)	1	5	UP	Existed
	3	4		
	3	4	NEUTRAL	
	2	5	DOWN	
	1	4		
	2	5		

():RHD models

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Replace rear power window switch. Refer to [PWC-78. "Removal and Installation"](#).



# POWER WINDOW MOTOR

< COMPONENT DIAGNOSIS >

## POWER WINDOW MOTOR DRIVER SIDE

### DRIVER SIDE : Description

INFOID:000000001348603

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

### DRIVER SIDE : Component Function Check

INFOID:000000001348604

#### 1. CHECK POWER WINDOW MOTOR CIRCUIT

Check power window motor operation with power window main switch.

Is the inspection result normal?

- YES >> Power window motor (driver side) is OK.  
 NO >> Refer to [PWC-17, "DRIVER SIDE : Diagnosis Procedure"](#).

### DRIVER SIDE : Diagnosis Procedure

INFOID:000000001348605

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

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

Terminal		Power window main switch Condition	Voltage (V) (Approx.)
(+)	(-)		
Power window motor (driver side) connector	Terminal		
D7 (D27)	3	UP	Battery voltage
		DOWN	0
	4	UP	0
		DOWN	Battery voltage

():RHD models

Is the inspection result normal?

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

#### 2. CHECK POWER WINDOW MOTOR CIRCUIT

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

Power window main switch connector	Terminal	Front power window motor (driver side) connector	Terminal	Continuity
D5 (D25)	16	D7 (D27)	3	Existed
	12		4	

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

Power window main switch connector	Terminal	Ground	Continuity
D5 (D25)	16		
	12		

():RHD models

Is the inspection result normal?

- YES >> GO TO 3.

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# POWER WINDOW MOTOR

## < COMPONENT DIAGNOSIS >

NO >> Repair or replace harness.

### 3. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

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

Terminal		Power window main switch condition	Voltage (V) (Approx.)
(+)	(-)		
Power window main switch connector	Terminal		
D5 (D25)	16	UP	Battery voltage
		DOWN	0
	12	UP	0
		DOWN	Battery voltage

():RHD models

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to [PWC-78. "Removal and Installation"](#).

### 4. CHECK POWER WINDOW MOTOR

Check front power window motor (driver side).

Refer to [PWC-18. "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window motor (driver side). Refer to [GW-22. "Removal and Installation"](#).

### 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

## DRIVER SIDE : Component Inspection

INFOID:000000001348606

### 1. CHECK POWER WINDOW MOTOR

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

Front power window motor (driver side) connector	Terminal		Motor condition
	(+)	(-)	
D7 (D27)	4	3	DOWN
	3	4	UP

():RHD models

Is the inspection result normal?

YES >> Power window motor (driver side) is OK.

NO >> Replace front power window motor (driver side). Refer to [GW-22. "Removal and Installation"](#).

## PASSENGER SIDE

### PASSENGER SIDE : Description

INFOID:000000001348608

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

### PASSENGER SIDE : Component Function Check

INFOID:000000001348609

### 1. CHECK POWER WINDOW MOTOR CIRCUIT

# POWER WINDOW MOTOR

## < COMPONENT DIAGNOSIS >

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

Is the inspection result normal?

- YES >> Power window motor (passenger side) is OK.  
 NO >> Refer to [PWC-19. "PASSENGER SIDE : Diagnosis Procedure"](#).

## PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001348610

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

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

Terminal		Front power window switch (passenger side) condition	Voltage (V) (Approx.)
(+)	(-)		
Front power window motor (passenger side) connector	Terminal		
D46 (D66)	2	UP	Battery voltage
		DOWN	0
	1	UP	0
		DOWN	Battery voltage

():RHD models

Is the inspection result normal?

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

### 2. CHECK POWER WINDOW MOTOR CIRCUIT

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

Front power window switch (passenger side) connector	Terminal	Front power window motor (passenger side) connector	Terminal	Continuity
D45 (D65)	4	D46 (D66)	1	Existed
	5		2	

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

Front power window switch (passenger side) connector	Terminal	Ground	Continuity
D45 (D65)	4		Not existed
	5		

():RHD models

Is the inspection result normal?

- YES >> GO TO 4.  
 NO >> Repair or replace harness.

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

Check front power window motor (passenger side).

Refer to [PWC-20. "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.  
 NO >> Replace front power window motor (passenger side). Refer to [GW-22. "Removal and Installation"](#).

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PWC

# POWER WINDOW MOTOR

## < COMPONENT DIAGNOSIS >

### 4. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

### PASSENGER SIDE : Component Inspection

INFOID:000000001348611

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

Check motor operation by connecting the battery voltage directly to front power window motor (passenger side) connector.

Front power window motor (passenger side) connector	Terminal		Motor condition
	(+)	(-)	
D46 (D66)	1	2	DOWN
	2	1	UP

():RHD models

Is the inspection result normal?

YES >> Power window motor (passenger side) is OK.

NO >> Replace front power window motor (passenger side). Refer to [GW-22. "Removal and Installation"](#)

### REAR LH

#### REAR LH : Description

INFOID:000000001348612

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

#### REAR LH : Component Function Check

INFOID:000000001348613

#### 1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Power window motor LH is OK.

NO >> Refer to [PWC-20. "REAR LH : Diagnosis Procedure"](#)

#### REAR LH : Diagnosis Procedure

INFOID:000000001348614

#### 1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

Terminal		Power window switch condition	Voltage (V) (Approx.)
(+)	(-)		
Rear power window motor LH connector	Terminal		
D82 (D112)	2	UP	Battery voltage
		DOWN	0
	1	UP	0
		DOWN	Battery voltage

():RHD models

Is the inspection result normal?

# POWER WINDOW MOTOR

## < COMPONENT DIAGNOSIS >

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

### 2.CHECK REAR POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear power window switch LH connector and rear power window motor 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 connector	Terminal	Rear power window motor LH connector	Terminal	Continuity
D83 (D113)	4	D82 (D112)	1	Existed
	5		2	

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

Rear power window switch LH connector	Terminal	Ground	Continuity
D83 (D113)	4	Ground	Not existed
	5		

():RHD models

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Repair or replace harness.

### 3.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-23. "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace rear power window motor RH. Refer to [GW-27. "Removal and Installation"](#).

### 4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

## REAR LH : Component Inspection

INFOID:000000001348615

### COMPONENT INSPECTION

#### 1.CHECK POWER WINDOW MOTOR

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

Rear power window motor LH connector	Terminal		Motor condition
	(+)	(-)	
D82 (D112)	1	2	DOWN
	2	1	UP

():RHD models

Is the inspection result normal?

- YES >> Power window motor LH is OK.  
NO >> Replace rear power window motor LH. Refer to [GW-27. "Removal and Installation"](#).

## REAR RH

# POWER WINDOW MOTOR

## < COMPONENT DIAGNOSIS >

### REAR RH : Description

INFOID:000000001348616

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

### REAR RH : Component Function Check

INFOID:000000001348617

## 1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

- YES >> Power window motor RH is OK.  
 NO >> Refer to [PWC-22. "REAR RH : Diagnosis Procedure"](#).

### REAR RH : Diagnosis Procedure

INFOID:000000001348618

## 1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

Terminal		Rear power window switch RH condition	Voltage (V) (Approx.)
(+)	(-)		
Rear power window motor RH connector	Terminal		
D102 (D92)	2	UP	Battery voltage
		DOWN	0
	1	UP	0
		DOWN	Battery voltage

():RHD models

Is the inspection result normal?

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

## 2. CHECK REAR POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear power window switch RH connector and rear power window motor 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 connector	Terminal	Rear power window motor RH connector	Terminal	Continuity
D103 (D93)	4	D102 (D92)	1	Existed
	5		2	

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

Rear power window switch RH connector	Terminal	Ground	Continuity
D103 (D93)	4	Ground	Not existed
	5		

():RHD models

Is the inspection result normal?

- YES >> GO TO 4.  
 NO >> Repair or replace harness.

# POWER WINDOW MOTOR

## < COMPONENT DIAGNOSIS >

### 3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-23, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor RH. Refer to [GW-27, "Removal and Installation"](#).

### 4. CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END.

## REAR RH : Component Inspection

INFOID:000000001348619

### COMPONENT INSPECTION

#### 1. CHECK REAR POWER WINDOW MOTOR RH

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

Rear power window motor RH connector	Terminal		Motor condition
	(+)	(-)	
D102 (D92)	1	2	DOWN
	2	1	UP

():RHD models

Is the inspection result normal?

YES >> Power window motor RH is OK.

NO >> Replace rear power window motor RH. Refer to [GW-27, "Removal and Installation"](#).

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PWC

# ENCODER CIRCUIT

< COMPONENT DIAGNOSIS >

## ENCODER CIRCUIT

### Description

INFOID:000000001521411

Detects condition of the front power window motor (driver side) operation and transmits to power window main switch as pulse signal.

### Component Function Check

INFOID:000000001521412

#### 1.CHECK ENCODER OPERATION

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

Is the inspection result normal?

- YES >> Encoder operation is OK.  
 NO >> Refer to [PWC-24. "Diagnosis Procedure"](#)

### Diagnosis Procedure

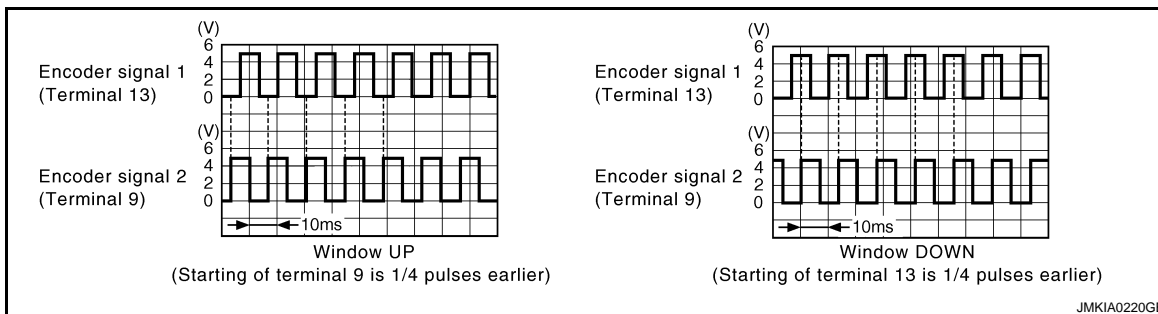
INFOID:000000001521413

#### Encoder Circuit Check

#### 1.CHECK ENCODER OPERATION

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

Terminals		Signal (Reference value)
(+)	(-)	
Power window main switch connector	Terminal	Ground
D5 (D25)	9	
	13	Refer to following signal



():RHD models

Is the inspection result normal?

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

#### 2.CHECK ENCODER SIGNAL CIRCUIT

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

Power window main switch connector	Terminal	Front power window motor (driver side) connector	Terminal	Continuity
D5 (D25)	9	D7 (D27)	1	Existed
	13		6	

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



# ENCODER CIRCUIT

## < COMPONENT DIAGNOSIS >

Power window main switch connector	Terminal	Ground	Continuity	
D5 (D25)	9			Not existed
	13			

():RHD models

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK ENCODER POWER SUPPLY CIRCUIT

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

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Front power window motor (driver side) connector	Terminal	
D7 (D27)	5	Ground 12

():RHD models

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

### 4.CHECK GROUND CIRCUIT

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

Front power window motor (driver side) connector	Terminal	Ground	Continuity
D7 (D27)	2		

():RHD models

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

### 5.CHECK HARNESS CONTINUITY 1

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

Power window main switch connector	Terminal	Front power window motor (driver side) connector	Terminal	Continuity
D5 (D25)	15	D7 (D27)	5	Existed

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

Power window main switch connector	Terminal	Ground	Continuity
D5 (D25)	15		

():RHD models

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-78. "Removal and Installation"](#).

NO >> Repair or replace harness.

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# ENCODER CIRCUIT

< COMPONENT DIAGNOSIS >

## 6. CHECK HARNESS CONTINUITY 2

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

Power window main switch connector	Terminal	Front power window motor (driver side) connector	Terminal	Continuity
D5 (D25)	2	D7 (D27)	2	Existed

():RHD models

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-78. "Removal and Installation"](#).

NO >> Repair or replace harness.

## 7. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## ECU DIAGNOSIS

### BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001555098

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC ON SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
AIR COND SW	A/C switch OFF	Off
	A/C switch ON	On
AUT LIGHT SYS	Outside of the room is bright	Off
	Outside of the room is dark	On
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
AUTO RELOCK	Auto lock function does not operate	Off
	Auto lock function is operating	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
BATTERY VOLT <b>NOTE:</b> Diesel engine models only	Ignition switch ON	Approximately the same as power supply voltage
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the LOCK side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the UNLOCK side	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On

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## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
<b>ELEC PWR CUT</b> <b>NOTE:</b> Diesel engine models only	Engine running	Fan switch ON (when engine coolant is cool) <b>NOTE:</b> Depending on the ambient temperature, battery voltage, etc.	Off
		The current status maintained with the signal from ECM received.	FREEZ
		<ul style="list-style-type: none"> <li>• Fan switch OFF</li> <li>• Fan switch ON after engine warming UP</li> </ul> <b>NOTE:</b> Depending on the engine coolant temperature, ambient temperature, battery voltage, etc.	INHBT
<b>ENG COOLNT T</b> <b>NOTE:</b> Diesel engine models only	Engine running	Approximately the same as water temperature gauge reading	
<b>ENGINE RPM</b> <b>NOTE:</b> Diesel engine models only	Engine running	Approximately the same as tachometer reading	
<b>ENGINE RUN</b>	Engine stopped	Off	
	Engine running	On	
<b>ENGINE STATUS</b> <b>NOTE:</b> Diesel engine models only	Engine stopped	STOP	
	While the engine stalls	STALL	
	Engine running	RUN	
	At engine cranking	CRA	
<b>FAN ON SIG</b>	Fan switch OFF	Off	
	Fan switch ON	On	
<b>FR FOG SW</b>	Front fog lamp switch OFF	Off	
	Front fog lamp switch ON	On	
<b>FR WASHER SW</b>	Front washer switch OFF	Off	
	Front washer switch ON	On	
<b>FR WIPER LOW</b>	Front wiper switch OFF	Off	
	Front wiper switch LO	On	
<b>FR WIPER HI</b>	Front wiper switch OFF	Off	
	Front wiper switch HI	On	
<b>FR WIPER INT</b>	Front wiper switch OFF	Off	
	Front wiper switch INT	On	
<b>FR WIPER STOP</b>	Any position other than front wiper stop position	Off	
	Front wiper stop position	On	
<b>GLS BREAK SEN</b>	The vehicle without glass break sensor	On	
	The vehicle with glass break sensor	Off	
<b>HAZARD SW</b>	When hazard switch is not pressed	Off	
	When hazard switch is pressed	On	
<b>HD LIGHT TIME</b>	—	Displays a setting time of the follow me home function set by the work support	

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
HEAD LAMP SW 1	Lighting switch OFF	Off	A
	Lighting switch 2ND	On	
HEAD LAMP SW 2	Lighting switch OFF	Off	B
	Lighting switch 2ND	On	
HI BEAM SW	Lighting switch OFF	Off	C
	Lighting switch HI	On	
HOOD SW	Close the hood <b>NOTE:</b> Vehicles without theft warning system are OFF-fixed	Off	D
	Open the hood	On	
H/L WASH SW	<b>NOTE:</b> The item is indicated, but not monitored	Off	E
IGN ON SW	Ignition switch OFF or ACC	Off	F
	Ignition switch ON	On	
IGN SW CAN	Ignition switch OFF or ACC	Off	G
	Ignition switch ON	On	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	G
I-KEY LOCK	LOCK button of Intelligent Key is not pressed	Off	H
	LOCK button of Intelligent Key is pressed	On	
I-KEY UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off	I
	UNLOCK button of Intelligent Key is pressed	On	
KEY ON SW	Mechanical key is removed from key cylinder	Off	J
	Mechanical key is inserted to key cylinder	On	
KEYLESS LOCK	LOCK button of key fob is not pressed	Off	J
	LOCK button of key fob is pressed	On	
KEY LESS PANIC	<b>NOTE:</b> The item is indicated, but not monitored	Off	PWC
KEYLESS UNLOCK	UNLOCK button of key fob is not pressed	Off	L
	UNLOCK button of key fob is pressed	On	
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK	L
	Light & rain sensor is with internal error	NOT OK	
MEMORY 1	Key fob ID code is not registered in "Memory 1"	Off	M
	Key fob ID code is registered in "Memory 1"	On	
MEMORY 2	Key fob ID code is not registered in "Memory 2"	Off	N
	Key fob ID code is registered in "Memory 2"	On	
MEMORY 3	Key fob ID code is not registered in "Memory 3"	Off	O
	Key fob ID code is registered in "Memory 3"	On	
MEMORY 4	Key fob ID code is not registered in "Memory 4"	Off	P
	Key fob ID code is registered in "Memory 4"	On	
MEMORY 5	Key fob ID code is not registered in "Memory 5"	Off	P
	Key fob ID code is registered in "Memory 5"	On	
OIL PRESS SW	<ul style="list-style-type: none"> <li>• Ignition switch OFF or ACC</li> <li>• Engine running</li> </ul>	Off	P
	Ignition switch ON	On	
OUT SIDE TEMP <b>NOTE:</b> Diesel engine models	Ignition switch ON	Approximately the same as outside air temperature	

## BCM (BODY CONTROL MODULE)

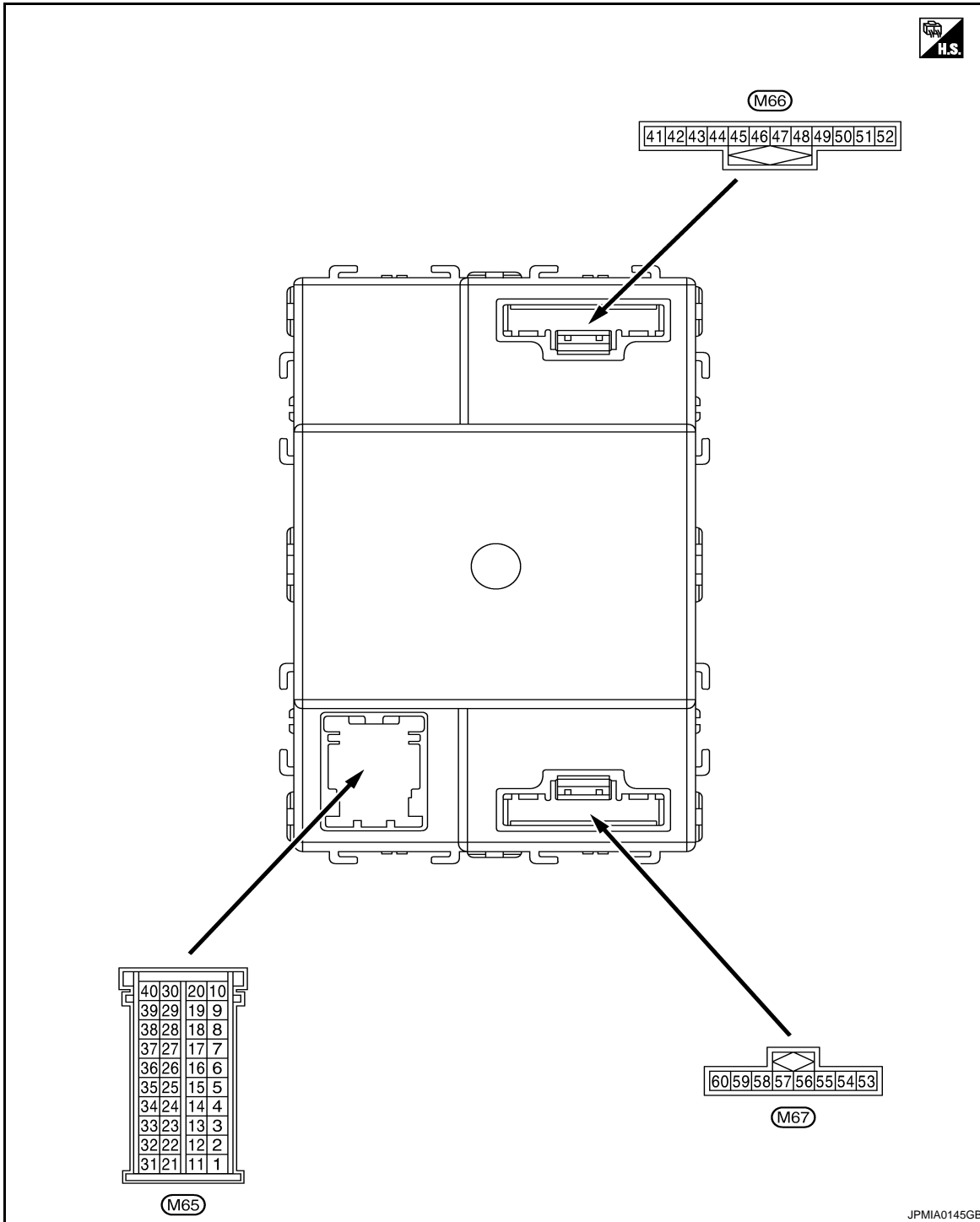
### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
REVERSE SW CAN	Except selector lever R position	Off
	Selector lever R position	On
PUSH SW	Return to ignition switch to LOCK position	Off
	Press ignition switch	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	On
SHOCK SENSOR	Ignition switch ON	NOMAL
	After the reception of air bag deployment signal from air bag diagnosis sensor unit	Off
	During the reception of air bag deployment signal from air bag diagnosis sensor unit	On
TAIL LAMP SW	Lighting switch OFF	Off
	Lighting switch 1ST	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
UNLOCK SHOCK	Other than the following	Off
	During the unlock operation interlocked with air bag	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## TERMINAL LAYOUT



### PHYSICAL VALUES

#### CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to [BCS-27, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-10, "System Description"](#).

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# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
1 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF	
					<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 3</li> <li>• Wiper intermittent dial 6</li> <li>• Wiper intermittent dial 7</li> </ul>	
		9.1 V				
2 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Front fog lamp switch ON	
					Turn signal switch LH	
		9.3 V				
3 (LG)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch AUTO	
					Rear fog lamp switch OFF	
					Front wiper switch MIST	
					Front wiper switch INT	
					Front wiper switch LO	
		9.3 V				
4 (R)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
					Rear wiper switch ON (Wiper intermittent dial 4)	
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF	
<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 5</li> <li>• Wiper intermittent dial 6</li> </ul>	9.1 V					



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

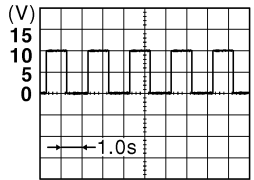
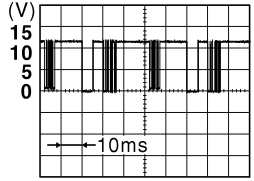
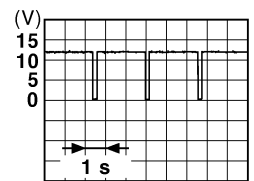
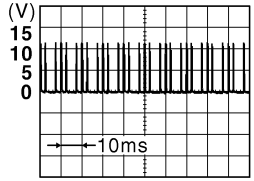
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
5 (W)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch 1ST	<p style="text-align: right;">JPMIA0164GB</p>
					Lighting switch 2ND	
					Lighting switch HI	
					Turn signal switch RH	
7 (P)	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed	<p style="text-align: right;">JPMIA0154GB</p>
					Pressed to the lock side	0 V
8 (LG)	Ground	Hazard switch	Input	Hazard switch	Not pressed	<p style="text-align: right;">JPMIA0154GB</p>
					Pressed	0 V
9 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed	<p style="text-align: right;">JPMIA0154GB</p>
					Pressed to the unlock side	0 V
12 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	<p style="text-align: right;">JPMIA0154GB</p>
					Pressed	0 V

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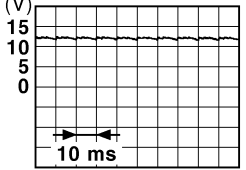
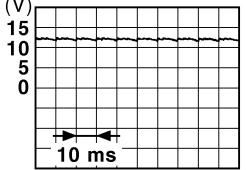
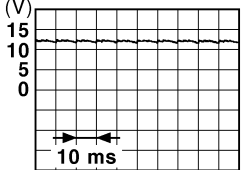
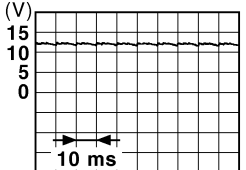
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
13 (R)	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0155GB</p> <p style="text-align: center;">6.0 V</p>	
14 (L/R)	Ground	A/C switch	Input	A/C switch	Not pressed	Battery voltage
				Pressed	0 V	
15 (LG/B)	Ground	Fan switch	Input	Fan switch	Not pressed	Battery voltage
				Pressed	0 V	
16 (GR)	Ground	Alarm link	Output	—	—	
17 (BR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	Battery voltage	
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0156GB</p> <p style="text-align: center;">8.7 V</p>	
18 (SB)	Ground	Security indicator	Output	Security indicator	ON	0 V
				Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p> <p style="text-align: center;">10.3 V</p>	
				OFF	Battery voltage	
19 (L)	—	CAN-H	Input/ Output	—	—	
20 (P)	—	CAN-L	Input/ Output	—	—	
21 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p> <p style="text-align: center;">1.1 V</p>
				While pressing	0 V	

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

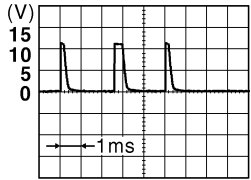
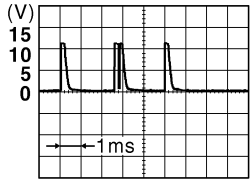
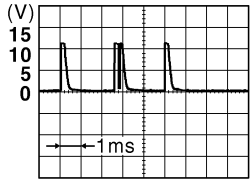
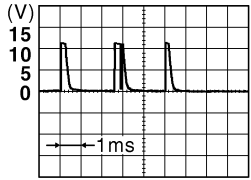
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
24 (GR)	Ground	Door lock status indicator	Output	Door lock status indicator	ON Battery voltage
				OFF 0 V	
25 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)  11.2 V
				ON (When rear door LH opened) 0 V	
26 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)  11.2 V
				ON (When driver door opened) 0 V	
27 (BR)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)  11.2 V
				ON (When passenger door opened) 0 V	
28 (G)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed) Battery voltage
				ON (When back door opened) 0 V	
29 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)  11.2 V
				ON (When rear door RH opened) 0 V	
30 (SB)	Ground	Audio link	Input/ Output	—	—

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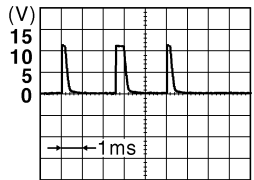
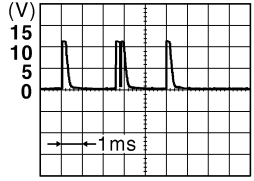
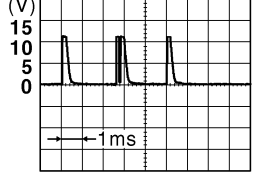
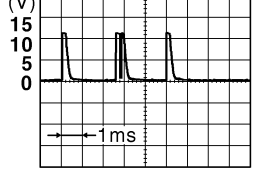
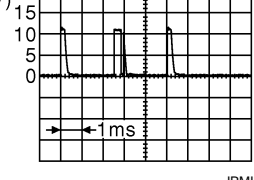
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
31 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0165GB</p> <p style="text-align: center;">1.3 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0169GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 6</li> <li>• Wiper intermittent dial 7</li> </ul>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
32 (G)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF <div style="text-align: right;">  <p>1.4 V</p> </div>
					Lighting switch PASS <div style="text-align: right;">  <p>1.3 V</p> </div>
					Lighting switch 2ND <div style="text-align: right;">  <p>1.3 V</p> </div>
					Front wiper switch INT <div style="text-align: right;">  <p>1.3 V</p> </div>
					Front wiper switch HI <div style="text-align: right;">  <p>1.3 V</p> </div>

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# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
33 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF <div style="text-align: right;"> <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p> </div>
					Turn signal switch LH <div style="text-align: right;"> <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p> </div>
					Turn signal switch RH <div style="text-align: right;"> <p style="text-align: right; font-size: small;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p> </div>
					Front wiper switch LO <div style="text-align: right;"> <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p> </div>
					Front washer switch ON <div style="text-align: right;"> <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p> </div>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

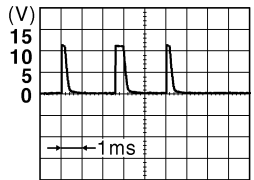
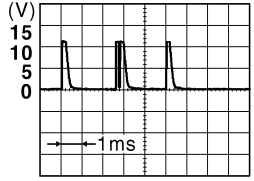
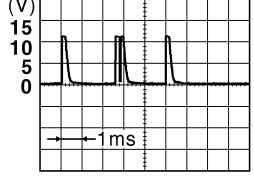
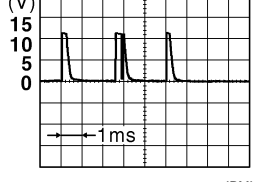
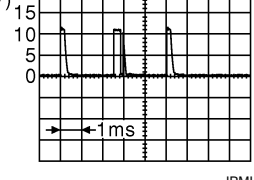
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
34 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	<p style="text-align: right;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch AUTO (Wiper intermittent dial 4)	<p style="text-align: right;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 1ST (Wiper intermittent dial 4)	<p style="text-align: right;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper INT (Wiper intermittent dial 4)	<p style="text-align: right;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 6</li> </ul> <p style="text-align: right;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>

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# BCM (BODY CONTROL MODULE)

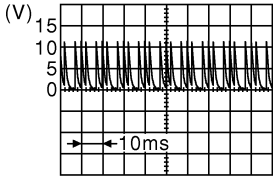
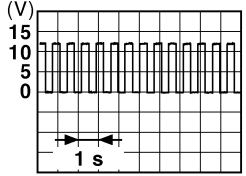
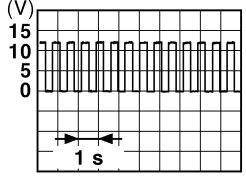
## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
35 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Rear wiper switch ON	 <p style="text-align: right;">1.3 V</p>
					Any of the condition below with all switch OFF	 <p style="text-align: right;">1.3 V</p>
36 (V)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage	
				Remove mechanical key from ignition key cylinder	0 V	
37 (R)	Ground	ACC power supply	Input	Ignition switch OFF	0 V	
				Ignition switch ACC or ON	Battery voltage	
38 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	Battery voltage	



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
39 (P)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move	
40 (LG)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move	
41 (V)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage	
42 (V)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0 V	
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage	
43 (L)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V	
				Rear wiper switch ON	Battery voltage	
44 (L/W)	Ground	Rear wiper auto stop	Input	Rear wiper stop position	0 V	
				Ignition switch ON Any position other than rear wiper stop position	 <p style="text-align: right; font-size: small;">JPMIA0197GB</p>	
45 (GR)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed	Battery voltage (300ms)
				Not pressed	0 V	
47 (G/Y)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
				Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p>	6.5 V
48 (G/B)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
				Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p>	6.5 V
49 (Y)	Ground	Rear fog lamp	Output	Lighting switch 1ST and front fog lamp switch ON	Rear fog lamp switch OFF	0 V
				Rear fog lamp switch ON	Battery voltage	
51 (R/W)*1 (R)*2	Ground	Stop lamp switch	Input	Depress the brake pedal	Battery voltage	
				Release the brake pedal	0 V	

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PWC

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
53 (L)	Ground	Power window power supply	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
54 (O)	Ground	Door unlock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V
56 (Y) <sup>*1</sup> (SB) <sup>*2</sup>	Ground	Door lock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	0 V
					Pressed to the lock side	Battery voltage
57 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window power supply	Output	Ignition switch OFF		Battery voltage
59 (BR)	Ground	Super lock	Output	When lock button of key fob or Intelligent Key is not pressed		0 V
				When lock button of key fob or Intelligent Key is pressed		Battery voltage
60 (GR)	Ground	Driver door unlock	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V

\*1: With Intelligent Key system

\*2: Without Intelligent Key system



# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS09MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	LG	-
4	Y	-

Connector No.	B8B
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	B8B
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



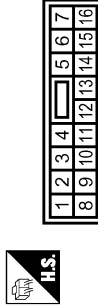
Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-
9	P	-
10	B	-
12	L	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	O	-
5	Y	-
7	LG	-
8	W	-
9	O	-
10	L	-
11	SB	-
12	GR	-
13	LG	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



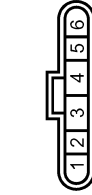
Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
19	P	-

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

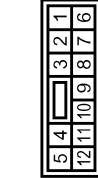
Connector No.	D7
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	FEA0AFB-FHA2



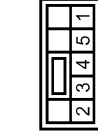
Connector No.	D8
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	R	-
3	BR	-
4	GR	-
5	Y	-
6	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	LG	-
4	Y	-

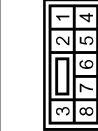
Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	SB	-
4	Y	-
5	R	-

Connector No.	D46
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	240PC023S8008



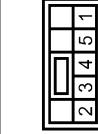
Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Connector No.	D82
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	240PC023S8008



Connector No.	D83
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

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

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



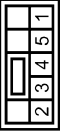
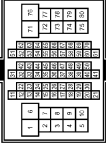


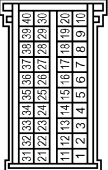

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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

<table border="1"> <tr><td>Connector No.</td><td>D101</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>3</td><td>LG</td><td>-</td></tr> <tr><td>4</td><td>Y</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </tbody> </table>	Connector No.	D101	Connector Name	WIRE TO WIRE	Connector Type	NS08FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	3	LG	-	4	Y	-	5	L	-	<table border="1"> <tr><td>Connector No.</td><td>D102</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW MOTOR RH</td></tr> <tr><td>Connector Type</td><td>240P023S8008</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </tbody> </table>	Connector No.	D102	Connector Name	REAR POWER WINDOW MOTOR RH	Connector Type	240P023S8008	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-	<table border="1"> <tr><td>Connector No.</td><td>D103</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW SWITCH RH</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> <tr><td>3</td><td>Y</td><td>-</td></tr> <tr><td>4</td><td>G</td><td>-</td></tr> <tr><td>5</td><td>R</td><td>-</td></tr> </tbody> </table>	Connector No.	D103	Connector Name	REAR POWER WINDOW SWITCH RH	Connector Type	NS08FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	LG	-	3	Y	-	4	G	-	5	R	-	<table border="1"> <tr><td>Connector No.</td><td>E105</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH60MW-NS16-TM4</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>76</td><td>Y</td><td>-</td></tr> </tbody> </table>	Connector No.	E105	Connector Name	WIRE TO WIRE	Connector Type	TH60MW-NS16-TM4	Terminal No.	Color of Wire	Signal Name [Specification]	76	Y	-
Connector No.	D101																																																																							
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76	Y	-																																																																						
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Connector No.	M15																																																																							
Connector Name	WIRE TO WIRE																																																																							
Connector Type	NS08FW-CS																																																																							
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41	V	BAT(FUSE)																																																																						

JCKWA0560GE

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 21IPG2683S0017



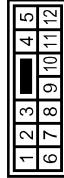
Terminal No.	Color of Wire	Signal Name [Specification]
53	L	POWER WDW PWR SUPPLY (LINKED TO IGN)
55	B	GND/POWER
57	Y	BAT(F/L)
56	P	POWER WDW PWR SUPPLY(BAT)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THBDFW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	-

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-

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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (RHD MODELS)

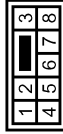
Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



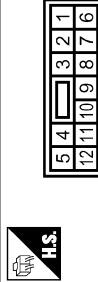
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	LG	-
4	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-GS



Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-GS



15	Y	BR
16	-	-

Connector No.	D26
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-
9	P	-
10	B	-
12	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	O	-
5	Y	-
7	LG	-
8	W	-
9	O	-
10	L	-
11	SB	-
12	GR	-
13	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
19	P	-

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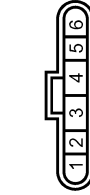
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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (RHD MODELS)

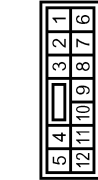
Connector No.	D27
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



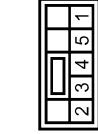
Connector No.	D28
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D65
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	R	-
3	BR	-
4	GR	-
5	Y	-
6	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	LG	-
4	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	SB	-
4	Y	-
5	R	-

Connector No.	D66
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	240PC023S8008



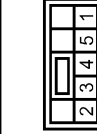
Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Connector No.	D92
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	240PC023S8008



Connector No.	D93
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-





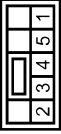

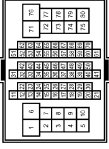





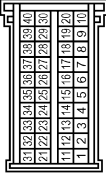



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (RHD MODELS)

<table border="1"> <tr><td>Connector No.</td><td>D111</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  	Connector No.	D111	Connector Name	WIRE TO WIRE	Connector Type	NS08FW-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>LG</td><td>-</td></tr> <tr><td>4</td><td>Y</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	LG	-	4	Y	-	5	L	-									
Connector No.	D111																											
Connector Name	WIRE TO WIRE																											
Connector Type	NS08FW-CS																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
3	LG	-																										
4	Y	-																										
5	L	-																										
<table border="1"> <tr><td>Connector No.</td><td>D112</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW MOTOR LH</td></tr> <tr><td>Connector Type</td><td>24DFC02CS8008</td></tr> </table>  	Connector No.	D112	Connector Name	REAR POWER WINDOW MOTOR LH	Connector Type	24DFC02CS8008	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-												
Connector No.	D112																											
Connector Name	REAR POWER WINDOW MOTOR LH																											
Connector Type	24DFC02CS8008																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
1	G	-																										
2	R	-																										
<table border="1"> <tr><td>Connector No.</td><td>D113</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW SWITCH LH</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  	Connector No.	D113	Connector Name	REAR POWER WINDOW SWITCH LH	Connector Type	NS08FW-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> <tr><td>3</td><td>Y</td><td>-</td></tr> <tr><td>4</td><td>G</td><td>-</td></tr> <tr><td>5</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	LG	-	3	Y	-	4	G	-	5	R	-			
Connector No.	D113																											
Connector Name	REAR POWER WINDOW SWITCH LH																											
Connector Type	NS08FW-CS																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
1	L	-																										
2	LG	-																										
3	Y	-																										
4	G	-																										
5	R	-																										
<table border="1"> <tr><td>Connector No.</td><td>E105</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH60MW-NS16-TM4</td></tr> </table>  	Connector No.	E105	Connector Name	WIRE TO WIRE	Connector Type	TH60MW-NS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>78</td><td>Y</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	78	Y	-															
Connector No.	E105																											
Connector Name	WIRE TO WIRE																											
Connector Type	TH60MW-NS16-TM4																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
78	Y	-																										
<table border="1"> <tr><td>Connector No.</td><td>M15</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  	Connector No.	M15	Connector Name	WIRE TO WIRE	Connector Type	NS08FW-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>L</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	L	-															
Connector No.	M15																											
Connector Name	WIRE TO WIRE																											
Connector Type	NS08FW-CS																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
3	L	-																										
<table border="1"> <tr><td>Connector No.</td><td>M21</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS12MW-CS</td></tr> </table>  	Connector No.	M21	Connector Name	WIRE TO WIRE	Connector Type	NS12MW-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>6</td><td>W</td><td>-</td></tr> <tr><td>7</td><td>SB</td><td>-</td></tr> <tr><td>8</td><td>L</td><td>-</td></tr> <tr><td>9</td><td>P</td><td>-</td></tr> <tr><td>10</td><td>B</td><td>-</td></tr> <tr><td>12</td><td>L</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	6	W	-	7	SB	-	8	L	-	9	P	-	10	B	-	12	L	-
Connector No.	M21																											
Connector Name	WIRE TO WIRE																											
Connector Type	NS12MW-CS																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
6	W	-																										
7	SB	-																										
8	L	-																										
9	P	-																										
10	B	-																										
12	L	-																										
<table border="1"> <tr><td>Connector No.</td><td>M65</td></tr> <tr><td>Connector Name</td><td>BCM (BODY CONTROL MODULE)</td></tr> <tr><td>Connector Type</td><td>AA840FB</td></tr> </table>  	Connector No.	M65	Connector Name	BCM (BODY CONTROL MODULE)	Connector Type	AA840FB	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>38</td><td>W</td><td>IGN SW</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	38	W	IGN SW															
Connector No.	M65																											
Connector Name	BCM (BODY CONTROL MODULE)																											
Connector Type	AA840FB																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
38	W	IGN SW																										
<table border="1"> <tr><td>Connector No.</td><td>M66</td></tr> <tr><td>Connector Name</td><td>BCM (BODY CONTROL MODULE)</td></tr> <tr><td>Connector Type</td><td>FCI 211PC12S1017</td></tr> </table>  	Connector No.	M66	Connector Name	BCM (BODY CONTROL MODULE)	Connector Type	FCI 211PC12S1017	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>41</td><td>V</td><td>BAT(F)USE</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	41	V	BAT(F)USE															
Connector No.	M66																											
Connector Name	BCM (BODY CONTROL MODULE)																											
Connector Type	FCI 211PC12S1017																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
41	V	BAT(F)USE																										

A  
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D  
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I  
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M  
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PWC

JCKWA0564GE

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

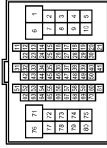
## POWER WINDOW SYSTEM (RHD MODELS)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 21IP2083S0017



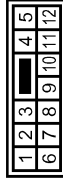
Terminal No.	Color of Wire	Signal Name (Specification)
53	L	POWER WDW PWR SUPPLY(LINKED TO IGN)
55	B	GND(POWER)
57	Y	BAT(F/L)
58	P	POWER WDW PWR SUPPLY(BAT)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH6JFW-MS16-TM4



Terminal No.	Color of Wire	Signal Name (Specification)
76	Y	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
6	W	-
7	SB	-
8	L	-

## Fail Safe

### Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

JCKWA0565GE

INFOID:000000001555100

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	<ul style="list-style-type: none"> <li>Inhibits engine cranking</li> <li>Inhibits steering lock unlocking (Intelligent Key unit)</li> <li>Fuel cut (ECM)</li> </ul>	Erase DTC
B2191: DIFFERENCE OF KEY	<ul style="list-style-type: none"> <li>Inhibits engine cranking</li> <li>Inhibits steering lock unlocking (Intelligent Key unit)</li> <li>Fuel cut (ECM)</li> </ul>	Erase DTC
B2192: ID DISCORD BCM-ECM	Fuel cut (ECM)	Erase DTC
B2193: CHAIN OF BCM-ECM	Fuel cut (ECM)	Erase DTC
B2194: DISCORD BCM-I-KEY	<ul style="list-style-type: none"> <li>Inhibits engine cranking</li> <li>Inhibits steering lock unlocking (Intelligent Key unit)</li> <li>Fuel cut (ECM)</li> </ul>	Erase DTC
B2195: ANTI SCANNING	<ul style="list-style-type: none"> <li>Inhibits engine cranking</li> <li>Inhibits steering lock unlocking (Intelligent Key unit)</li> <li>Fuel cut (ECM)</li> </ul>	Erase DTC
B2196: DONGLE NG	<ul style="list-style-type: none"> <li>Inhibits engine cranking</li> <li>Inhibits steering lock unlocking (Intelligent Key unit)</li> <li>Fuel cut (ECM)</li> </ul>	Erase DTC

### REAR WIPER CONTROL

BCM detects a rear wiper stopping position according to a rear wiper auto stop signal.

When a rear wiper auto stop signal is in the condition listed below, BCM stops power supply to rear wiper after rear wiper is activated for five seconds.

Ignition switch	Rear wiper switch	Rear wiper auto stop signal
ON	OFF	The rear wiper auto stop signal (stop position) cannot be input for 5 seconds.
	ON	The rear wiper auto stop signal does not change for 5 seconds.

#### NOTE:

The above operation is repeated when operating the rear wiper switch one minute after the stop of the rear wiper caused by Fail-safe.

### TURN SIGNAL LAMP CONTROL

BCM detects the turn signal lamp circuit status from the terminal voltage.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

### LIGHT & RAIN SENSOR MALFUNCTION DETECTION FUNCTION

BCM controls the following items when LIGHT & RAIN sensor has a malfunction.

Auto Light Control

Headlamp is turned ON.

Front Wiper Control

The condition just before the activation of Fail-safe is maintained until the front wiper switch is turned OFF.

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## DTC Inspection Priority Chart

INFOID:000000001555101

Priority	DTC
1	<ul style="list-style-type: none"> <li>U1000: CAN COMM CIRCUIT</li> <li>U1010: CONTROL UNIT (CAN)</li> </ul>
2	<ul style="list-style-type: none"> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERNCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2194: DISCORD BCM-I-KEY</li> <li>B2195: ANTI SCANNING</li> <li>B2196: DONGLE NG</li> </ul>

## DTC Index

INFOID:000000001555102

### NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- PAST: Displays when there is a malfunction that is detected in the past and stored.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	TIME		Fail-safe	Refer to
No DTC is detected. further testing may be required.	—	—	—	—
U1000: CAN COMM CIRCUIT	0	1 - 39	—	<a href="#">BCS-33</a>
U1010: CONTROL UNIT (CAN)	0	1 - 39	—	<a href="#">BCS-34</a>
B2190: NATS ANTENNA AMP	CRNT	PAST	×	<ul style="list-style-type: none"> <li>• With Intelligent Key system <a href="#">SEC-45</a></li> <li>• Without Intelligent Key system <a href="#">SEC-194</a></li> </ul>
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> <li>• With Intelligent Key system <a href="#">SEC-47</a></li> <li>• Without Intelligent Key system <a href="#">SEC-196</a></li> </ul>
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> <li>• With Intelligent Key system <a href="#">SEC-48</a></li> <li>• Without Intelligent Key system <a href="#">SEC-197</a></li> </ul>
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> <li>• With Intelligent Key system <a href="#">SEC-50</a></li> <li>• Without Intelligent Key system <a href="#">SEC-199</a></li> </ul>
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	<a href="#">SEC-51</a>
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> <li>• With Intelligent Key system <a href="#">SEC-52</a></li> <li>• Without Intelligent Key system <a href="#">SEC-200</a></li> </ul>
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> <li>• With Intelligent Key system <a href="#">SEC-53</a></li> <li>• Without Intelligent Key system <a href="#">SEC-201</a></li> </ul>

# POWER WINDOW MAIN SWITCH

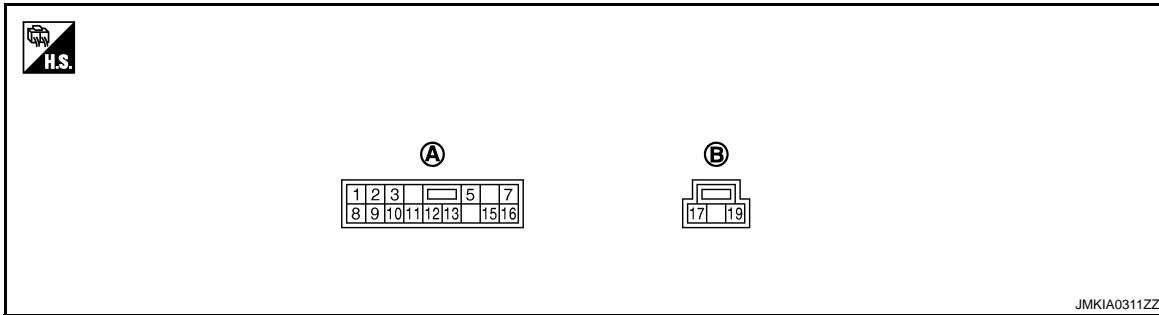
< ECU DIAGNOSIS >

## POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000001348632

### TERMINAL LAYOUT



A. LHD:D5  
RHD:D25

B. LHD:D6  
RHD:D26

### PHYSICAL VALUES

#### POWER WINDOW MAIN SWITCH

Terminal No.		Wire color	Description		Condition	Voltage [V] (Approx.)
+	-		Signal name	Input/Output		
1	Ground	R	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is UP at operated.	Battery voltage
2	Ground	R	Encoder ground	—	—	0
3	Ground	O	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is DOWN at operated.	Battery voltage
5	Ground	Y	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is DOWN at operated.	Battery voltage
7	Ground	LG	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is UP at operated.	Battery voltage
8	Ground	W	Front power window motor (passenger side) UP signal	Output	When front RH switch in power window main switch is UP at operated.	Battery voltage
9	2	O	Encoder pulse signal 2	Input	When power window motor operates.	
10	Ground	L	IGN power supply	Input	IGN SW ON	Battery voltage
					Other than above	0
11	Ground	SB	Front power window motor (passenger side) DOWN signal	Output	When front RH switch in power window main switch is DOWN at operated.	Battery voltage

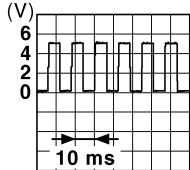
A  
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M  
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P

PWC

JMKIA0070GB

# POWER WINDOW MAIN SWITCH

## < ECU DIAGNOSIS >

Terminal No.		Wire color	Description		Condition	Voltage [V] (Approx.)
+	-		Signal name	Input/ Output		
12	16	GR	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is DOWN at operated.	Battery voltage
13	2	LG	Encoder pulse signal 1	Input	When front power window motor (driver side) operates.	 <p style="text-align: right; font-size: small;">JMKIA0070GB</p>
15	Ground	Y	Encoder power supply	Output	When ignition switch ON.	10
16	12	BR	Front power window motor (driver side) UP signal	Output	When front LH switch in power window main switch is UP at operated.	Battery voltage
17	Ground	B	Ground	—	—	0
19	Ground	P	Battery power supply	Input	Ignition switch OFF	Battery voltage



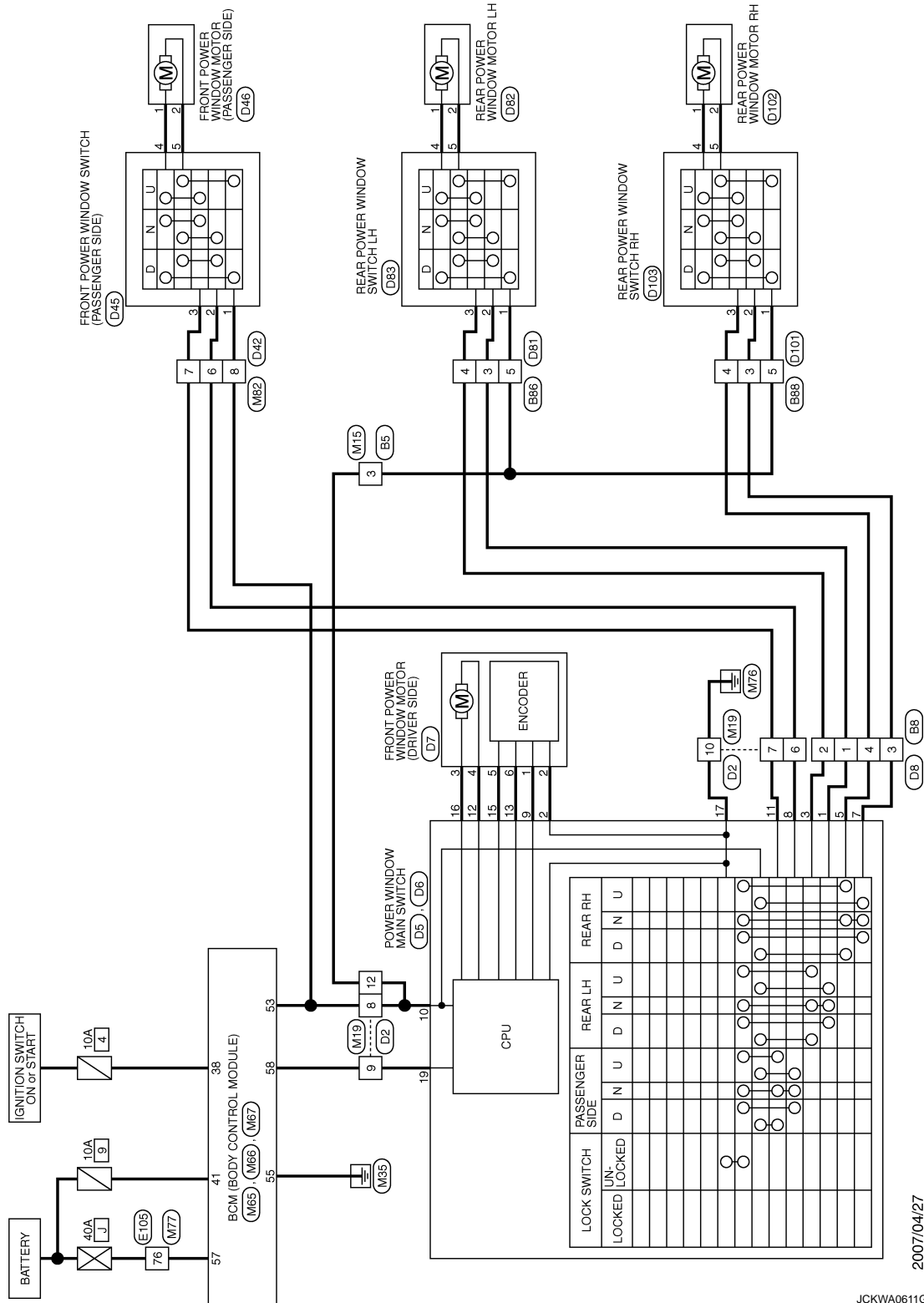
# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## Wiring Diagram - POWER WINDOW CONTROL SYSTEM (LHD MODELS) -

INFOID:000000001609209

### POWER WINDOW SYSTEM (LHD MODELS)



2007/04/27

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

PWC

# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS09MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	LG	-
4	Y	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



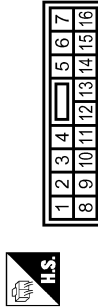
Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-
9	P	-
10	B	-
12	L	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	O	-
5	Y	-
7	LG	-
8	W	-
9	O	-
10	L	-
11	SB	-
12	GR	-
13	LG	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
19	P	-

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# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

Connector No.	D7
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	FEA0AFB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	R	-
3	BR	-
4	GR	-
5	Y	-
6	LG	-

Connector No.	D8
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	LG	-
4	Y	-

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	SB	-
4	Y	-
5	R	-

Connector No.	D46
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	240PQ023S8008



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

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	D82
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	240PQ023S8008



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

Connector No.	D83
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



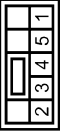
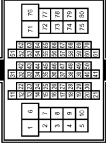


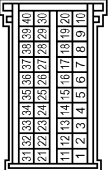



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-
3	Y	-
4	G	-
5	R	-

# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (LHD MODELS)

<table border="1"> <tr><td>Connector No.</td><td>D101</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>3</td><td>LG</td><td>-</td></tr> <tr><td>4</td><td>Y</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </tbody> </table>	Connector No.	D101	Connector Name	WIRE TO WIRE	Connector Type	NS08FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	3	LG	-	4	Y	-	5	L	-	<table border="1"> <tr><td>Connector No.</td><td>D102</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW MOTOR RH</td></tr> <tr><td>Connector Type</td><td>240P023S8008</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </tbody> </table>	Connector No.	D102	Connector Name	REAR POWER WINDOW MOTOR RH	Connector Type	240P023S8008	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-	<table border="1"> <tr><td>Connector No.</td><td>D103</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW SWITCH RH</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> <tr><td>3</td><td>Y</td><td>-</td></tr> <tr><td>4</td><td>G</td><td>-</td></tr> <tr><td>5</td><td>R</td><td>-</td></tr> </tbody> </table>	Connector No.	D103	Connector Name	REAR POWER WINDOW SWITCH RH	Connector Type	NS08FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	LG	-	3	Y	-	4	G	-	5	R	-	<table border="1"> <tr><td>Connector No.</td><td>E105</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH60MW-NS16-TM4</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>76</td><td>Y</td><td>-</td></tr> </tbody> </table>	Connector No.	E105	Connector Name	WIRE TO WIRE	Connector Type	TH60MW-NS16-TM4	Terminal No.	Color of Wire	Signal Name [Specification]	76	Y	-
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Connector Type	NS08FW-CS																																																																							
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76	Y	-																																																																						
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JCKWA0560GE

# POWER WINDOW MAIN SWITCH

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## POWER WINDOW SYSTEM (LHD MODELS)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 21IP2083S0017



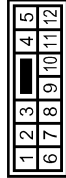
Terminal No.	Color of Wire	Signal Name [Specification]
53	L	POWER WDW PWR SUPPLY(LINKED TO IGN)
55	B	GND/POWER
57	Y	BAT(F/L)
56	P	POWER WDW PWR SUPPLY(BAT)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THBDFW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	-

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-

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

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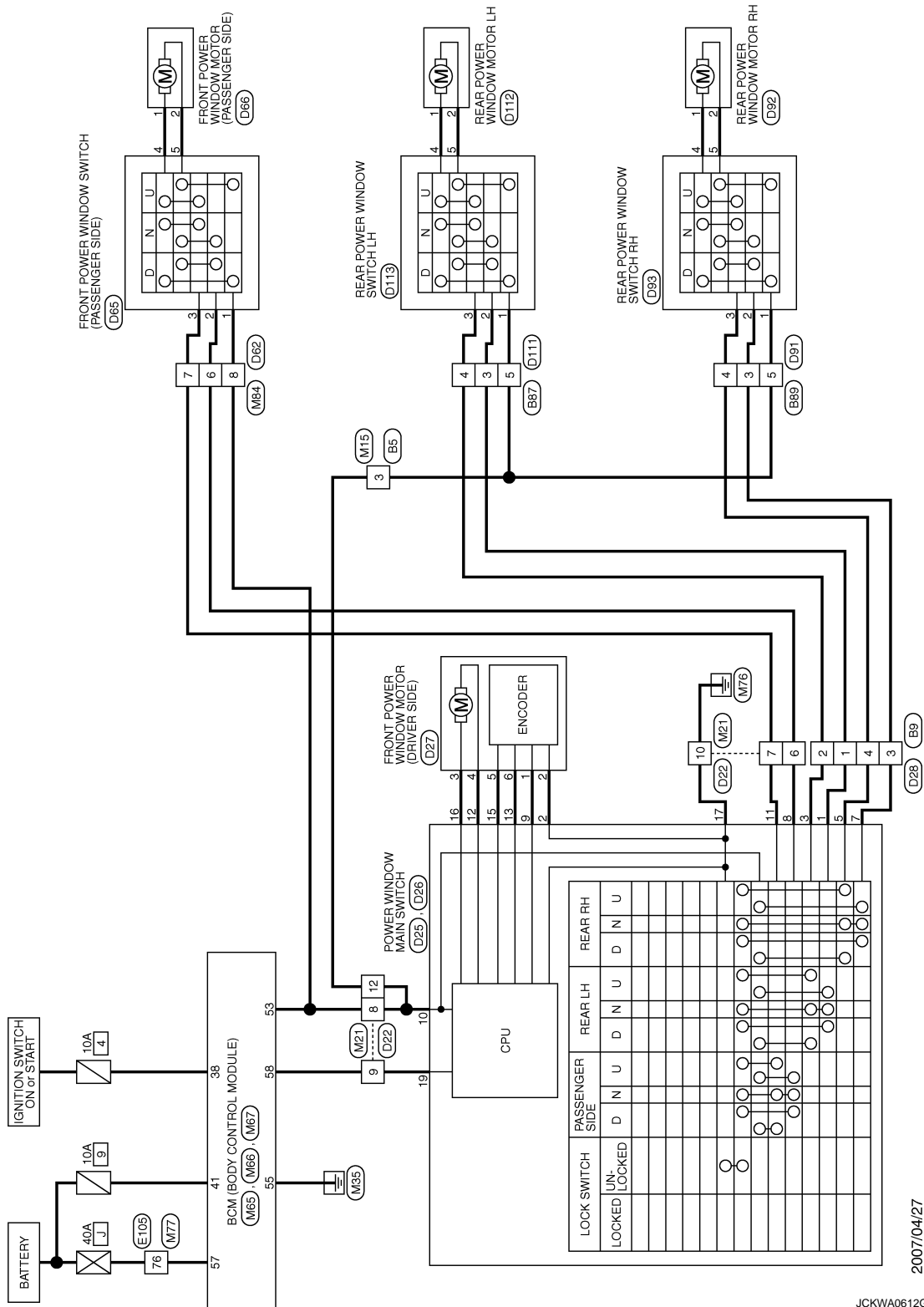
# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## Wiring Diagram - POWER WINDOW CONTROL SYSTEM (RHD MODELS) -

INFOID:000000001609210

### POWER WINDOW SYSTEM (RHD MODELS)



2007/04/27

JCKWA0612GE

# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (RHD MODELS)

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	NS04MW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	LG	-
4	Y	-

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



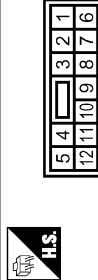
Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-GS



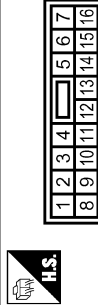
Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	Y	-
5	L	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	-
7	SB	-
8	L	-
9	P	-
10	B	-
12	L	-

Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	O	-
5	Y	-
7	LG	-
8	W	-
9	O	-
10	L	-
11	SB	-
12	GR	-
13	LG	-

Terminal No.	15	Y	BR
Terminal No.	16	-	-

Connector No.	D26
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
19	P	-

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

# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (RHD MODELS)

Connector No.	D27
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name (Specification)
1	O	-
2	R	-
3	BR	-
4	GR	-
5	Y	-
6	LG	-

Connector No.	D28
Connector Name	WIRE TO WIRE
Connector Type	NS04FW-CS



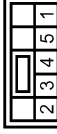
Terminal No.	Color of Wire	Signal Name (Specification)
1	R	-
2	O	-
3	LG	-
4	Y	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
6	W	-
7	SB	-
8	L	-

Connector No.	D65
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
1	L	-
2	W	-
3	SB	-
4	Y	-
5	R	-

Connector No.	D66
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	240PC023S8008



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

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
3	LG	-
4	Y	-
5	L	-

Connector No.	D92
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	240PC023S8008



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

Connector No.	D93
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
1	L	-
2	LG	-
3	Y	-
4	G	-
5	R	-



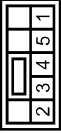
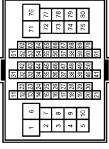


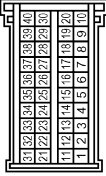

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# POWER WINDOW MAIN SWITCH

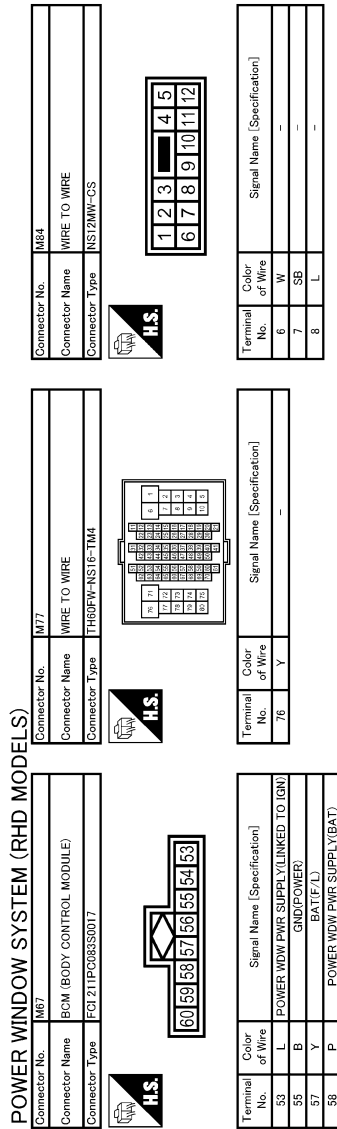
< ECU DIAGNOSIS >

## POWER WINDOW SYSTEM (RHD MODELS)

<table border="1"> <tr><td>Connector No.</td><td>D111</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>3</td><td>LG</td><td>-</td></tr> <tr><td>4</td><td>Y</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </table>	Connector No.	D111	Connector Name	WIRE TO WIRE	Connector Type	NS08FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	3	LG	-	4	Y	-	5	L	-	<table border="1"> <tr><td>Connector No.</td><td>D112</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW MOTOR LH</td></tr> <tr><td>Connector Type</td><td>24DFC023S8008</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Connector No.	D112	Connector Name	REAR POWER WINDOW MOTOR LH	Connector Type	24DFC023S8008	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-	<table border="1"> <tr><td>Connector No.</td><td>D113</td></tr> <tr><td>Connector Name</td><td>REAR POWER WINDOW SWITCH LH</td></tr> <tr><td>Connector Type</td><td>NS08FW-CS</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> <tr><td>3</td><td>Y</td><td>-</td></tr> <tr><td>4</td><td>G</td><td>-</td></tr> <tr><td>5</td><td>R</td><td>-</td></tr> </table>	Connector No.	D113	Connector Name	REAR POWER WINDOW SWITCH LH	Connector Type	NS08FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	LG	-	3	Y	-	4	G	-	5	R	-	<table border="1"> <tr><td>Connector No.</td><td>E105</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH60MW-NS16-TM4</td></tr> </table>  <p><b>H.S.</b></p> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>78</td><td>Y</td><td>-</td></tr> </table>	Connector No.	E105	Connector Name	WIRE TO WIRE	Connector Type	TH60MW-NS16-TM4	Terminal No.	Color of Wire	Signal Name [Specification]	78	Y	-
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# POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS >



## Fail Safe

### FAIL-SAFE CONTROL

Switches to fail-safe control when malfunction is detected in encoder signal that detects up/down speed and direction of door glass. Switches to fail-safe control when error beyond regulation value is detected between the fully closed position and the actual position of the glass.

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INFOID:000000001348635

# POWER WINDOW MAIN SWITCH

## < ECU DIAGNOSIS >

Error	Error condition
Pulse sensor malfunction	When only one side of pulse signal is being detected for more than the specified value.
Both pulse sensors malfunction	When both pulse signals have not been detected for more than the specified value during glass open/close operation.
Pulse direction malfunction	When the pulse signal that is detected during glass open/close operation detects the opposite condition of power window motor operating direction.
Glass recognition position malfunction 1	When it detects the error between glass fully closed position in power window switch memory and actual fully closed position during glass open/close operation is more than the specified value.
Glass recognition position malfunction 2	When it detects pulse count more than the value of glass full stroke during glass open/close operation.
Malfunction of not yet updated closed position of glass	When glass open/close operation is continuously performed without fully closing more than the specified value (approximately 10 strokes).

It changes to condition before initialization and the following functions do not operate when switched to fail-safe control.

- Auto-up operation
- Anti-pinch function

Perform initial operation to recover when switched to fail-safe mode. However, it switches back to fail-safe control when malfunction is found in power window main switch or front power window motor (driver side).

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# NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

---

## SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

### Diagnosis Procedure

INFOID:000000001348636

#### 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

---

Check BCM power supply and ground circuit.

Refer to [BCS-35. "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-8. "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

# DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## DRIVER SIDE POWER WINDOW DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000001348637

#### 1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check power window motor.

Refer to [PWC-17, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

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# FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

---

## FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH

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

INFOID:000000001348638

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

---

Check front power window switch (passenger side).

Refer to [PWC-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts

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

---

Check front power window motor (passenger side).

Refer to [PWC-18, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

## WITH FRONT POWER WINDOW SWITCH ONLY

WITH FRONT POWER WINDOW SWITCH ONLY : Diagnosis Procedure

INFOID:000000001350477

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

---

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

Refer to [PWC-10, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

---

Check front power window switch (passenger side).

Refer to [PWC-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts

### 3. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

# REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE  
WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH

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

INFOID:000000001348639

## 1.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch .  
Refer to [PWC-14, "Component Function Check"](#).

Is the e 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-20, "REAR LH : Component Function Check"](#).

Is th e inspection result normal?

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

## 3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 1.

WITH REAR POWER WINDOW SWITCH LH ONLY

WITH REAR POWER WINDOW SWITCH LH ONLY : Diagnosis Procedure

INFOID:000000001350867

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

Check rear power window switch power supply and ground circuit.  
Refer to [PWC-10, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the e inspection result normal?

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

## 2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch .  
Refer to [PWC-14, "Component Function Check"](#).

Is the e inspection result normal?

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

## 3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 1.

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# REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

---

## REAR RH SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH

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

INFOID:000000001348640

### 1.CHECK REAR POWER WINDOW SWITCH

---

Check rear power window switch.

Refer to [PWC-14, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CHECK REAR POWER WINDOW MOTOR RH

---

Check rear power window motor RH.

Refer to [PWC-22, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

## WITH REAR POWER WINDOW SWITCH RH ONLY

WITH REAR POWER WINDOW SWITCH RH ONLY : Diagnosis Procedure

INFOID:000000001350919

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

---

Check rear power window switch power supply and ground circuit.

Refer to [PWC-10, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CHECK REAR POWER WINDOW SWITCH

---

Check rear power window switch.

Refer to [PWC-14, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.



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

< SYMPTOM DIAGNOSIS >

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

### Diagnosis Procedure

INFOID:000000001348641

#### 1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> INSPECTION END.

NO >> GO TO 2.

#### 2.CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-24, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >

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

### Diagnosis Procedure

INFOID:000000001348642

#### 1.PERFORM INITIALIZATION PROCEDURE

---

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#) .

Is the inspection result normal?

- YES >> Inspection end.
- NO >> GO TO 2.

#### 2.CHECK ENCODER

---

Check encoder.

Refer to [PWC-24, "Component Function Check"](#).

Is the inspection result normal?

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

#### 3.CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 1.

# POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

---

## POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000001348643

### 1. REPLACE POWER WINDOW MAIN SWITCH

---

Replace power window main switch.

>> Refer to [PWC-78. "Removal and Installation"](#).

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## POWER WINDOW MAIN SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

---

## POWER WINDOW MAIN SWITCH ILLUMINATION DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000001350966

**1**.REPLACE POWER WINDOW MAIN SWITCH

---

Replace power window main switch.

>> Refer to [PWC-78. "Removal and Installation"](#).

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000001585772

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

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# POWER WINDOW MAIN SWITCH

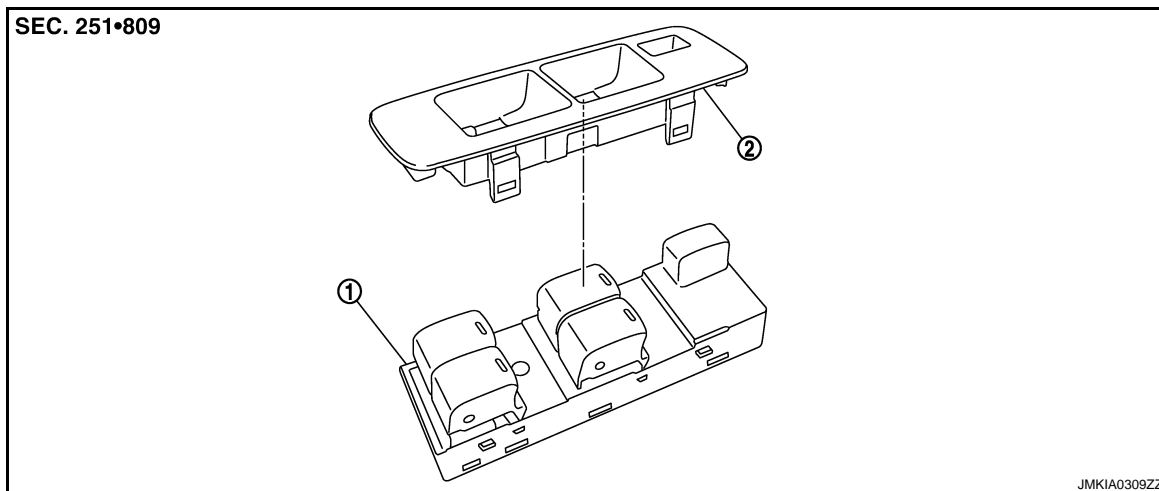
< ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR

### POWER WINDOW MAIN SWITCH

Exploded View

INFOID:000000001348646



1. Power window main switch

2. Power window main switch finisher

#### NOTE:

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


Refer to removal and installation procedure. Refer to [PWC-78. "Removal and Installation"](#).

### Removal and Installation

INFOID:000000001348647

#### REMOVAL

1. Remove the power window main switch finisher (2).  
Refer to [INT-10. "FRONT DOOR FINISHER : Exploded View"](#) and [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-head screw driver (A) etc.

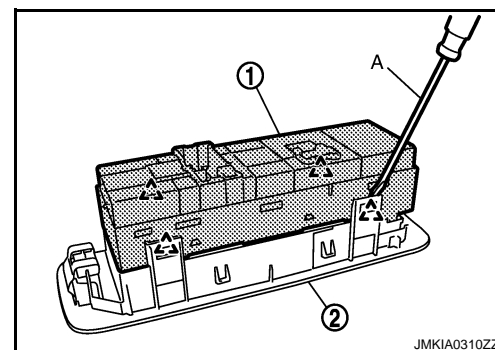
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#### CAUTION:

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

#### NOTE:

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



#### INSTALLATION

Install in the reverse order of removal.

#### NOTE:

Power window main switch is exchanged or is detached it is necessary to do the initialization procedure.

Refer to [PWC-4. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).