

# PWC

## SECTION

### POWER WINDOW CONTROL SYSTEM

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000007360645

#### 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 "DTC/CIRCUIT DIAGNOSIS"

Perform the diagnosis with "DTC/Circuit diagnosis" of the applicable system.

>> GO TO 5

#### 5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6

#### 6. FINAL CHECK

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

Are the malfunctions corrected?

YES >> Inspection End.

NO >> GO TO 3

# POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

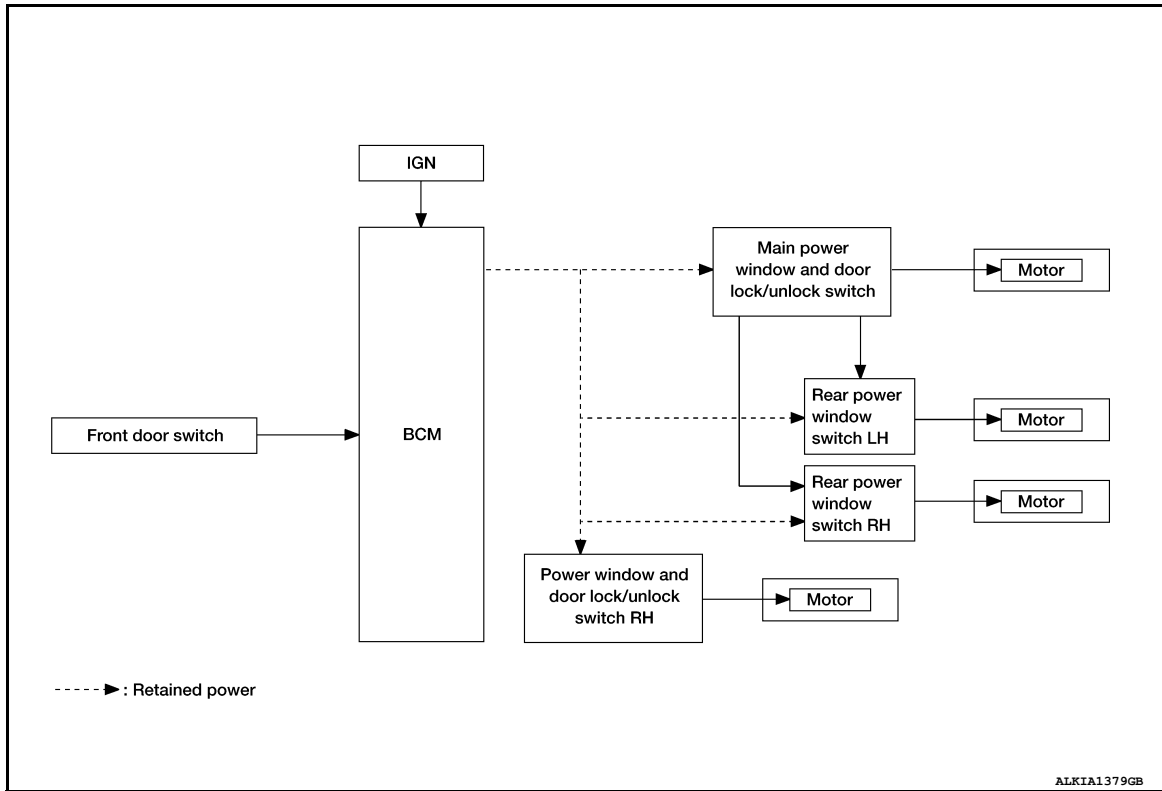
## SYSTEM DESCRIPTION

### POWER WINDOW SYSTEM

#### System Diagram

INFOID:000000007360646

#### FRONT WINDOW ANTI-PINCH SYSTEM



#### System Description

INFOID:000000007360647

#### MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH INPUT/OUTPUT SIGNAL CHART

| Item                                          | Input signal to main power window and door lock/unlock switch | Main power window and door lock/unlock switch function | Actuator                    |
|-----------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|-----------------------------|
| Main power window and door lock/unlock switch | All power window motor UP/DOWN signal                         | Power window control                                   | Power window motors         |
| Power window and door lock/unlock switch RH   | Front power window motor RH UP/DOWN signal                    |                                                        | Front power window motor RH |
| Rear power window switch                      | Rear power window motor UP/DOWN signal                        |                                                        | Rear power window motor     |
| BCM                                           | RAP signal                                                    |                                                        | Power window motors         |

#### POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH INPUT/OUTPUT SIGNAL CHART

# POWER WINDOW SYSTEM

## < SYSTEM DESCRIPTION >

| Item                                        | Input signal to front power window switch  | Front power window switch function | Actuator                    |
|---------------------------------------------|--------------------------------------------|------------------------------------|-----------------------------|
| Power window and door lock/unlock switch RH | Front power window motor RH UP/DOWN signal | Power window control               | Front power window motor RH |
| BCM                                         | RAP signal                                 |                                    |                             |

### POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Main power window and door lock/unlock switch can open/close all windows.
- Power window and door lock unlock switch RH & rear power window switches LH and RH can open/close the corresponding windows.

### POWER WINDOW AUTO DOWN OPERATION (FRONT LH)

- AUTO DOWN operation can be performed when main power window turns to AUTO.

### RETAINED POWER OPERATION

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

#### Retained power function cancel conditions

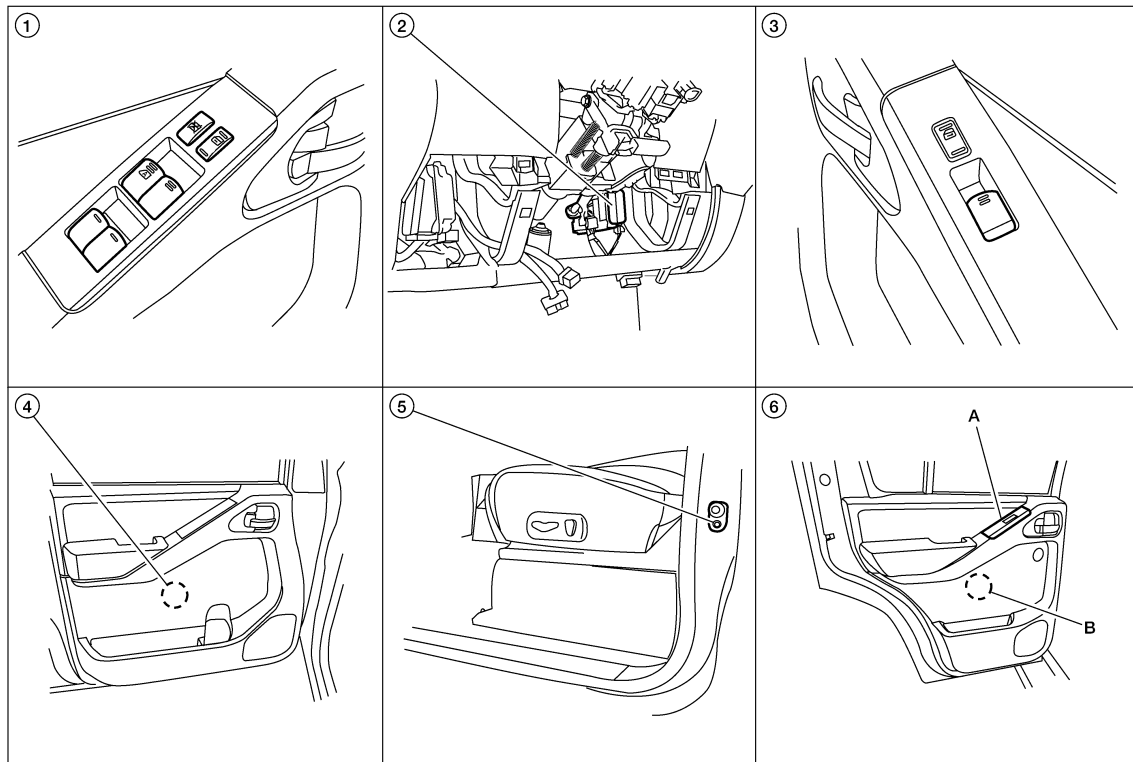
- Front door CLOSE (door switch OFF)→OPEN (door switch ON).
- When ignition switch is ON.
- When timer time passes. (45 seconds)

### POWER WINDOW LOCK

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

## Component Parts Location

INFOID:000000007360648



ALKIA13822Z

# POWER WINDOW SYSTEM

## < SYSTEM DESCRIPTION >

- |                                                     |                                                                    |                                                                                                |
|-----------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. Main power window and door lock/unlock switch D7 | 2. BCM M18, M19, M20 (view with lower instrument panel LH removed) | 3. Power window and door lock/unlock switch RH D105                                            |
| 4. Front power window motor LH D9, RH D104          | 5. Front door switch LH B8, RH B108                                | 6. A. Rear power window switch LH D203, RH D303<br>B. Rear power window motor LH D204, RH D304 |

## Component Description

INFOID:0000000007360649

## FRONT WINDOW ANTI-PINCH SYSTEM

| Component                                     | Function                                                                                                                          |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| BCM                                           | <ul style="list-style-type: none"> <li>Supplies power supply to power window switch.</li> <li>Controls retained power.</li> </ul> |
| Main power window and door lock/unlock switch | Directly controls all power window motor of all doors.                                                                            |
| Power window and door lock/unlock switch RH   | Controls front power window motor RH.                                                                                             |
| Rear power window switch                      | Controls rear power window motors LH and RH.                                                                                      |
| Front power window motor LH                   | Starts operating with signals from main power window and door lock/unlock switch.                                                 |
| Front power window motor RH                   | Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH.   |
| Rear power window motor                       | Starts operating with signals from main power window and door lock/unlock switch & rear power window switch.                      |
| Front door switch LH or RH                    | Detects door open/close condition and transmits to BCM.                                                                           |

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000007808374

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecu Identification     | The BCM part number is displayed.                                                                                                                                        |
| Self Diagnostic Result | The BCM self diagnostic results are displayed.                                                                                                                           |
| Data Monitor           | The BCM input/output data is displayed in real time.                                                                                                                     |
| Active Test            | The BCM activates outputs to test components.                                                                                                                            |
| Work support           | The settings for BCM functions can be changed.                                                                                                                           |
| Configuration          | <ul style="list-style-type: none"> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul> |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed.                                                                                              |

### SYSTEM APPLICATION

BCM can perform the following functions.

| System                               | Sub System           | Direct Diagnostic Mode |                        |              |             |              |               |                       |
|--------------------------------------|----------------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
|                                      |                      | Ecu Identification     | Self Diagnostic Result | Data Monitor | Active Test | Work support | Configuration | CAN Diag Support Mntr |
| Door lock                            | DOOR LOCK            |                        |                        | x            | x           | x            |               |                       |
| Rear window defogger                 | REAR DEFOGGER        |                        |                        | x            | x           |              |               |                       |
| Warning chime                        | BUZZER               |                        |                        | x            | x           |              |               |                       |
| Interior room lamp timer             | INT LAMP             |                        |                        | x            | x           | x            |               |                       |
| Remote keyless entry system          | MULTI REMOTE ENT     |                        |                        | x            | x           | x            |               |                       |
| Exterior lamp                        | HEAD LAMP            |                        |                        | x            | x           | x            |               |                       |
| Wiper and washer                     | WIPER                |                        |                        | x            | x           | x            |               |                       |
| Turn signal and hazard warning lamps | FLASHER              |                        |                        | x            | x           |              |               |                       |
| Air conditioner                      | AIR CONDITIONER      |                        |                        | x            |             |              |               |                       |
| Combination switch                   | COMB SW              |                        |                        | x            |             |              |               |                       |
| BCM                                  | BCM                  | x                      | x                      |              |             | x            | x             | x                     |
| Immobilizer                          | IMMU                 |                        | x                      | x            | x           |              |               |                       |
| Interior room lamp battery saver     | BATTERY SAVER        |                        |                        | x            | x           | x            |               |                       |
| Back door open                       | TRUNK                |                        |                        | x            | x           |              |               |                       |
| Vehicle security system              | THEFT ALM            |                        |                        | x            | x           | x            |               |                       |
| RAP system                           | RETAINED PWR         |                        |                        | x            | x           | x            |               |                       |
| Signal buffer system                 | SIGNAL BUFFER        |                        |                        | x            | x           |              |               |                       |
| TPMS                                 | AIR PRESSURE MONITOR |                        | x                      | x            | x           | x            |               |                       |
| Panic alarm system                   | PANIC ALARM          |                        |                        |              | x           |              |               |                       |

### RETAINED PWR

## DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

### RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:000000007808375

#### DATA MONITOR

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

#### ACTIVE TEST

| Test Item    | Description                                                   |
|--------------|---------------------------------------------------------------|
| RETAINED PWR | This test is able to check retained power operation [Off/On]. |

#### WORK SUPPORT

| Support Item     | Setting |        | Description                                       |
|------------------|---------|--------|---------------------------------------------------|
| RETAINED PWR SET | MODE3   | 2 min  | Sets the retained accessory power operating time. |
|                  | MODE2   | OFF    |                                                   |
|                  | MODE1*  | 45 sec |                                                   |

\*: Initial setting



# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT

#### BCM

#### BCM : Diagnosis Procedure

INFOID:000000007808373

Regarding Wiring Diagram information, refer to [BCS-44, "Wiring Diagram"](#).

### 1. CHECK FUSES AND FUSIBLE LINK

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

| Terminal No. | Signal name          | Fuses and fusible link No. |
|--------------|----------------------|----------------------------|
| 57           | Battery power supply | 21 (10A)                   |
| 70           |                      | G (50A)                    |
| 11           | Ignition ACC or ON   | 4 (10A)                    |
| 38           | Ignition ON or START | 1 (10A)                    |

Is the fuse blown?

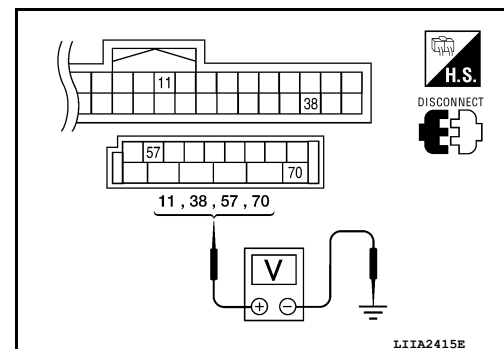
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

### 2. CHECK POWER SUPPLY CIRCUIT

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

| Connector | Terminals |        | Power source          | Condition                   | Voltage (V) (Approx.) |
|-----------|-----------|--------|-----------------------|-----------------------------|-----------------------|
|           | (+)       | (-)    |                       |                             |                       |
| M18       | 11        | Ground | ACC power supply      | Ignition switch ACC or ON   | Battery voltage       |
|           | 38        | Ground | Ignition power supply | Ignition switch ON or START | Battery voltage       |
| M20       | 57        | Ground | Battery power supply  | Ignition switch OFF         | Battery voltage       |
|           | 70        | Ground | Battery power supply  | Ignition switch OFF         | Battery voltage       |



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

### 3. CHECK GROUND CIRCUIT

## POWER SUPPLY AND GROUND CIRCUIT

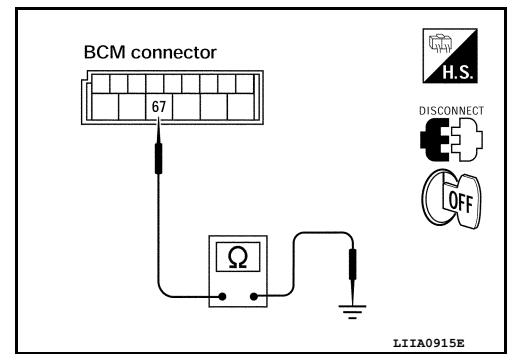
### < DTC/CIRCUIT DIAGNOSIS >

Check continuity between BCM harness connector and ground.

| BCM       |          | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal |        |            |
| M20       | 67       |        | Yes        |

Does continuity exist?

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



## POWER WINDOW MAIN SWITCH

### POWER WINDOW MAIN SWITCH : Description

INFOID:0000000007360653

- BCM supplies power.
- It operates each power window motor via corresponding power window switch and makes window move up/down when main power window and door lock/unlock switch is operated.

### POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:0000000007360654

Main Power Window And Door Lock/Unlock Switch

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

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

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch power supply and ground circuit are OK.  
NO >> Refer to [PWC-10, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

### POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000007360655

Regarding Wiring Diagram information, refer to [PWC-42, "Wiring Diagram"](#).

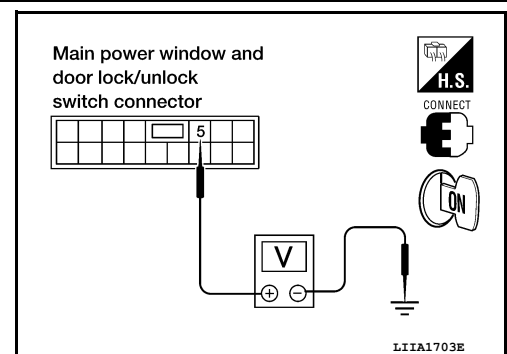
#### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminal 5 and ground.

**5 - Ground : Battery voltage**

Is the measurement value within the specification?

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



#### 2. CHECK GROUND CIRCUIT

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminal 14 and ground.

| Connector                                         | Terminals |        | Continuity |
|---------------------------------------------------|-----------|--------|------------|
| Main power window and door lock/unlock switch: D7 | 14        | Ground | Yes        |

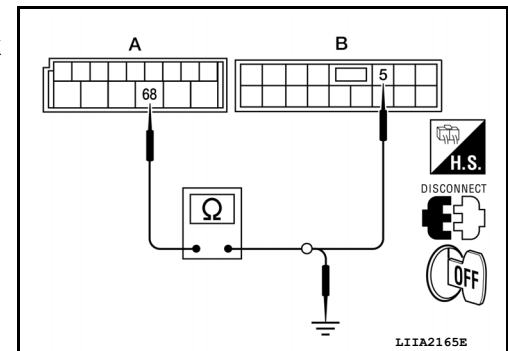
### Is the inspection result normal?

- YES >> Check main power window and door lock/unlock switch output signal (rear power window switch LH) GO TO 5
- YES >> Check main power window and door lock/unlock switch output signal (rear power window switch RH) GO TO 6
- YES >> Check main power window and door lock/unlock switch output signal (front power window switch RH) GO TO 7
- YES >> Check main power window and door lock/unlock switch output signal (front power window motor LH) GO TO 8
- NO >> Repair or replace harness.

## 3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY CIRCUIT

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

| A         |          | B                                                 |          | Continuity |
|-----------|----------|---------------------------------------------------|----------|------------|
| Connector | Terminal | Connector                                         | Terminal |            |
| BCM: M20  | 68       | Main power window and door lock/unlock switch: D7 | 5        | Yes        |



4. Check continuity between BCM and ground.

| A         |          | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal |        |            |
| BCM: M20  | 68       |        | No         |

### Is the inspection result normal?

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

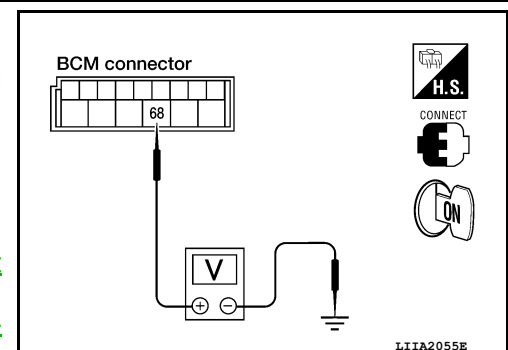
## 4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M20 terminal 68 and ground.

**68 - Ground : Battery voltage**

### Is the measurement value within the specification?

- YES >> Check intermittent incident. Refer to [GI-37. "Intermittent Incident"](#).
- NO >> Replace BCM. Refer to [BCS-50. "Removal and Installation"](#).



## 5. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POW-

## POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

#### ER WINDOW SWITCH LH)

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

| Terminal                                                |          | Window switch position (rear LH) | Voltage (V) (Approx.) |
|---------------------------------------------------------|----------|----------------------------------|-----------------------|
| (+)                                                     | (-)      |                                  |                       |
| Main power window and door lock/unlock switch connector | Terminal |                                  |                       |
| D7                                                      | 15       | UP                               | Battery voltage       |
|                                                         |          | DOWN                             | 0                     |
|                                                         | 16       | UP                               | 0                     |
|                                                         |          | DOWN                             | Battery voltage       |

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

#### 6. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH RH)

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

| Terminal                                                |          | Window switch position (rear RH) | Voltage (V) (Approx.) |
|---------------------------------------------------------|----------|----------------------------------|-----------------------|
| (+)                                                     | (-)      |                                  |                       |
| Main power window and door lock/unlock switch connector | Terminal |                                  |                       |
| D7                                                      | 8        | UP                               | Battery voltage       |
|                                                         |          | DOWN                             | 0                     |
|                                                         | 9        | UP                               | 0                     |
|                                                         |          | DOWN                             | Battery voltage       |

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

#### 7. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (FRONT POWER WINDOW SWITCH RH)

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

## POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

| Terminal                                                |          |        | Window switch position (front RH) | Voltage (V) (Approx.) |
|---------------------------------------------------------|----------|--------|-----------------------------------|-----------------------|
| (+)                                                     |          | (−)    |                                   |                       |
| Main power window and door lock/unlock switch connector | Terminal |        |                                   |                       |
| D7                                                      | 3        | Ground | UP                                | Battery voltage       |
|                                                         |          |        | DOWN                              | 0                     |
|                                                         | 2        |        | UP                                | 0                     |
|                                                         |          |        | DOWN                              | Battery voltage       |

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

### 8. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (FRONT POWER WINDOW MOTOR LH)

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

| Terminal                                                           |          |        | Window switch position (front LH) | Voltage (V)<br>(Approx.) |
|--------------------------------------------------------------------|----------|--------|-----------------------------------|--------------------------|
| (+)                                                                |          | (−)    |                                   |                          |
| Main power win-<br>dow and door<br>lock/unlock<br>switch connector | Terminal |        |                                   |                          |
| D7                                                                 | 6        | Ground | UP                                | Battery voltage          |
|                                                                    |          |        | DOWN                              | 0                        |
|                                                                    | 7        |        | UP                                | 0                        |
|                                                                    |          |        | DOWN                              | Battery voltage          |

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

### POWER WINDOW MAIN SWITCH : Component Inspection

INFOID:000000007360656

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

1. Check main power window and door lock/unlock switch.

## POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

| Terminal |    | Main power window and door lock/unlock switch condition |         | Continuity |
|----------|----|---------------------------------------------------------|---------|------------|
| 5        | 3  | Front RH                                                | UP      | Yes        |
| 5        | 15 | Rear LH                                                 |         |            |
| 5        | 8  | Rear RH                                                 |         |            |
| 2        | 3  | Front RH                                                | NEUTRAL |            |
| 15       | 16 | Rear LH                                                 |         |            |
| 8        | 9  | Rear RH                                                 |         |            |
| 5        | 2  | Front RH                                                | DOWN    |            |
| 5        | 16 | Rear LH                                                 |         |            |
| 5        | 9  | Rear RH                                                 |         |            |

2. Check continuity between main power window and door lock/unlock switch (power window lock switch). (Lock operation).

| Terminal |    | Main power window and door lock/unlock switch condition |         | Continuity |
|----------|----|---------------------------------------------------------|---------|------------|
| 2        | 14 | Front RH                                                | UP      | No         |
| 16       |    | Rear LH                                                 |         |            |
| 9        |    | Rear RH                                                 |         |            |
| 2        |    | Front RH                                                | NEUTRAL |            |
| 3        |    |                                                         |         |            |
| 15       |    | Rear LH                                                 |         |            |
| 16       |    |                                                         |         |            |
| 8        |    | Rear RH                                                 |         |            |
| 9        |    |                                                         |         |            |
| 3        |    | Front RH                                                | DOWN    |            |
| 15       |    | Rear LH                                                 |         |            |
| 8        |    | Rear RH                                                 |         |            |

3. Check continuity between main power window and door lock/unlock switch (power window lock switch). (Unlock operation).

| Terminal |    | Main power window and door lock/unlock switch condition |         | Continuity |
|----------|----|---------------------------------------------------------|---------|------------|
| 2        | 14 | Front RH                                                | UP      | Yes        |
| 16       |    | Rear LH                                                 |         |            |
| 9        |    | Rear RH                                                 |         |            |
| 2        |    | Front RH                                                | NEUTRAL |            |
| 3        |    |                                                         |         |            |
| 15       |    | Rear LH                                                 |         |            |
| 16       |    |                                                         |         |            |
| 8        |    | Rear RH                                                 |         |            |
| 9        |    |                                                         |         |            |
| 3        |    | Front RH                                                | DOWN    |            |
| 15       |    | Rear LH                                                 |         |            |
| 8        |    | Rear RH                                                 |         |            |

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch is OK.  
NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

## FRONT POWER WINDOW SWITCH

### FRONT POWER WINDOW SWITCH : Description

INFOID:000000007360657

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

### FRONT POWER WINDOW SWITCH : Component Function Check

INFOID:000000007360658

#### Power Window And Door Lock/Unlock Switch RH

### 1. CHECK FRONT POWER WINDOW MOTOR RH FUNCTION

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

### Is the inspection result normal?

- YES >> Power window and door lock/unlock switch RH power supply and ground circuit are OK.  
NO >> Refer to [PWC-15, "FRONT POWER WINDOW SWITCH : Diagnosis Procedure"](#).

### FRONT POWER WINDOW SWITCH : Diagnosis Procedure

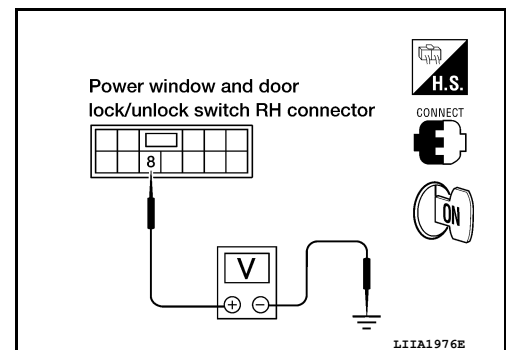
INFOID:000000007360659

Regarding Wiring Diagram information, refer to [PWC-42, "Wiring Diagram"](#).

### 1. CHECK POWER SUPPLY CIRCUIT

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

| Terminal                                                     |          |        | Voltage (V)<br>(Approx.) |
|--------------------------------------------------------------|----------|--------|--------------------------|
| (+)                                                          |          | (–)    |                          |
| Power window and door lock/<br>unlock<br>switch RH connector | Terminal |        |                          |
| D105                                                         | 8        | Ground | Battery voltage          |



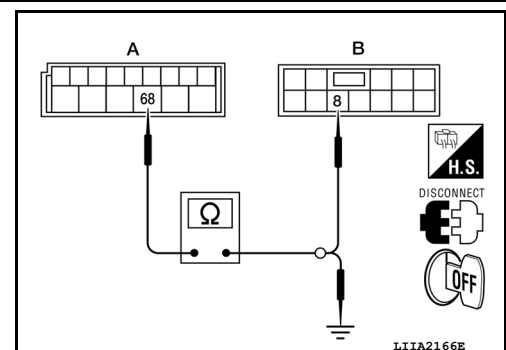
### Is the measurement value within the specification?

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

### 2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and power window and door lock/unlock switch RH.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

| BCM connector | Terminal | Power window and door lock/unlock switch RH connector | Terminal | Continuity |
|---------------|----------|-------------------------------------------------------|----------|------------|
| M20 (A)       | 68       | D105 (B)                                              | 8        | Yes        |



4. Check continuity between BCM connector (A) and ground.

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

| BCM connector | Terminal | Ground | Continuity |
|---------------|----------|--------|------------|
| M20 (A)       | 68       |        | No         |

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

### 3. CHECK GROUND CIRCUIT

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

| Main power window and door lock/unlock switch connector | Terminal | Front power window switch RH connector | Terminal | Continuity |
|---------------------------------------------------------|----------|----------------------------------------|----------|------------|
| D7                                                      | 3        | D105                                   | 12       | Yes        |
|                                                         | 2        |                                        | 11       |            |

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

| Main power window and door lock/unlock switch connector | Terminal | Ground | Continuity |
|---------------------------------------------------------|----------|--------|------------|
| D7                                                      | 3        |        | No         |
|                                                         | 2        |        |            |

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-60, "Removal and Installation"](#).

NO >> Repair or replace harness.

### 4. CHECK BCM OUTPUT SIGNAL

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

| Terminals     |          |        | Voltage (V)<br>(Approx.) |
|---------------|----------|--------|--------------------------|
| (+) (V)       |          | (-)    |                          |
| BCM connector | Terminal |        |                          |
| M20           | 68       | Ground | Battery voltage          |

Is the measurement value within the specification?

YES >> Replace power window and door lock/unlock switch RH.  
Refer to [PWC-60, "Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-50, "Removal and Installation"](#).

## REAR POWER WINDOW SWITCH

### REAR POWER WINDOW SWITCH : Description

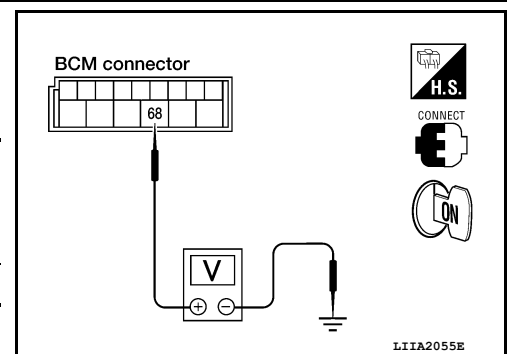
INFOID:0000000007360660

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

### REAR POWER WINDOW SWITCH : Component Function Check

INFOID:0000000007360661

#### Rear Power Window Switch





# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

### 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 power supply and ground circuit are OK.  
NO >> Refer to [PWC-17. "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

### REAR POWER WINDOW SWITCH : Diagnosis Procedure

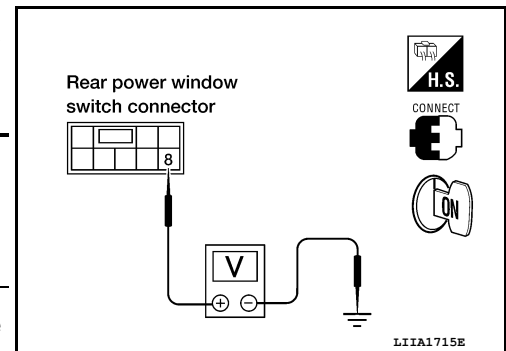
INFOID:000000007360662

Regarding Wiring Diagram information, refer to [PWC-42. "Wiring Diagram"](#).

### 1. CHECK POWER SUPPLY CIRCUIT

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

| Terminal                              |          |   | Condition             | Voltage (V)<br>(Approx.) |
|---------------------------------------|----------|---|-----------------------|--------------------------|
| (+)                                   | (-)      |   |                       |                          |
| Rear power window<br>switch connector | Terminal |   |                       |                          |
| LH                                    | D203     | 8 | Ignition switch<br>ON | Battery voltage          |
| RH                                    | D303     |   |                       |                          |



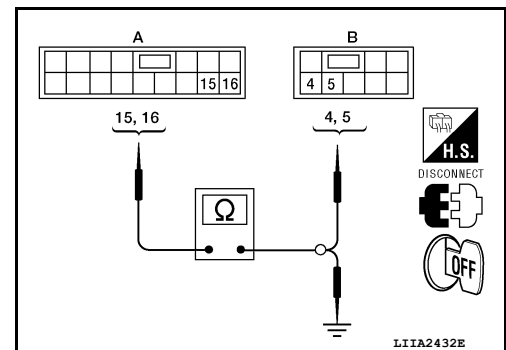
Is the measurement value within the specification?

- YES >> GO TO 2 (Rear power window switch LH)  
YES >> GO TO 3 (Rear power window switch RH)  
NO >> GO TO 4

### 2. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and rear power window switch LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch LH connector (B).

| Main power window and door lock/unlock switch connector | Terminal | Rear power window switch LH connector | Terminal | Continuity |
|---------------------------------------------------------|----------|---------------------------------------|----------|------------|
| D7 (A)                                                  | 15       | D203 (B)                              | 4        | Yes        |
|                                                         | 16       |                                       | 5        |            |



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

| Main power window and door lock/unlock switch connector | Terminal | Ground | Continuity |
|---------------------------------------------------------|----------|--------|------------|
| D7 (A)                                                  | 15       |        | No         |
|                                                         | 16       |        |            |

Is the inspection result normal?

- YES >> GO TO 5  
NO >> Repair or replace harness.

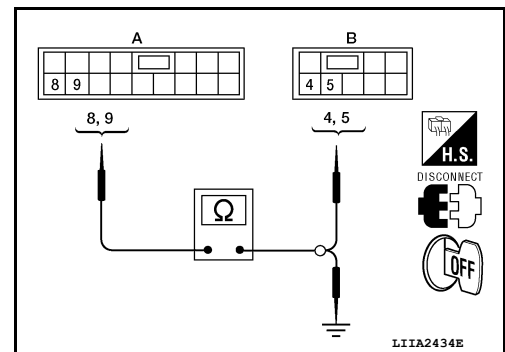
### 3. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and rear power window switch RH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch RH connector (B).

| Main power window and door lock/unlock switch connector | Terminal | Rear power window switch RH connector | Terminal | Continuity |
|---------------------------------------------------------|----------|---------------------------------------|----------|------------|
| D7 (A)                                                  | 8        | D303 (B)                              | 4        | Yes        |
|                                                         | 9        |                                       | 5        |            |



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

| Main power window and door lock/unlock switch connector | Terminal | Ground | Continuity |
|---------------------------------------------------------|----------|--------|------------|
| D7 (A)                                                  | 8        | Ground | No         |
|                                                         | 9        |        |            |

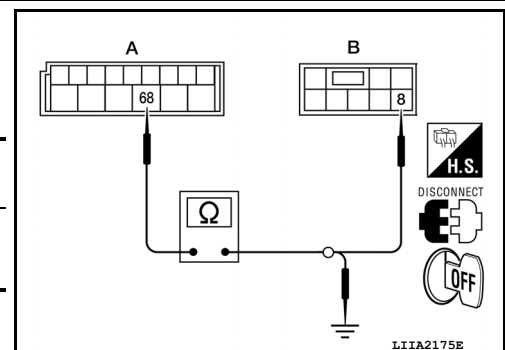
### Is the inspection result normal?

- YES >> GO TO 5  
 NO >> Repair or replace harness.

## 4. CHECK HARNESS CONTINUITY

1. Disconnect BCM and rear power window switch.
2. Check continuity between BCM connector (A) and rear power window switch connector (B).

| BCM connector | Terminal | Rear power window switch connector | Terminal | Continuity |
|---------------|----------|------------------------------------|----------|------------|
| M20 (A)       | 68       | LH                                 | D203 (B) | Yes        |
|               |          | RH                                 | D303 (B) |            |



3. Check continuity between BCM connector (A) and ground.

| BCM connector | Terminal | Ground | Continuity |
|---------------|----------|--------|------------|
| M20 (A)       | 68       | Ground | No         |

### Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-50, "Removal and Installation"](#).  
 NO >> Repair or replace harness.

## 5. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to [PWC-18, "REAR POWER WINDOW SWITCH : Component Inspection"](#).

### Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).  
 NO >> Replace rear power window switch. Refer to [PWC-61, "Removal and Installation - Rear Door Switch"](#).

## REAR POWER WINDOW SWITCH : Component Inspection

INFOID:000000007360663

### COMPONENT INSPECTION

#### 1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| Rear power win-<br>dow switch LH or<br>RH | Terminals |   | Condition       | Continuity |
|-------------------------------------------|-----------|---|-----------------|------------|
|                                           | 6         | 5 | DOWN            | No         |
|                                           |           |   | NEUTRAL or UP   | Yes        |
|                                           |           | 8 | NEUTRAL or UP   | No         |
|                                           |           |   | DOWN            | Yes        |
|                                           | 7         | 4 | UP              | No         |
|                                           |           |   | NEUTRAL or DOWN | Yes        |
|                                           |           | 8 | NEUTRAL or DOWN | No         |
|                                           |           |   | UP              | Yes        |

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Replace rear power window switch. Refer to [PWC-61, "Removal and Installation - Rear Door Switch"](#).

# POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## POWER WINDOW MOTOR DRIVER SIDE

### DRIVER SIDE : Description

INFOID:000000007360664

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

### DRIVER SIDE : Component Function Check

INFOID:000000007360665

#### 1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Front power window motor LH is OK.

NO >> Refer to [PWC-20, "DRIVER SIDE : Diagnosis Procedure"](#).

### DRIVER SIDE : Diagnosis Procedure

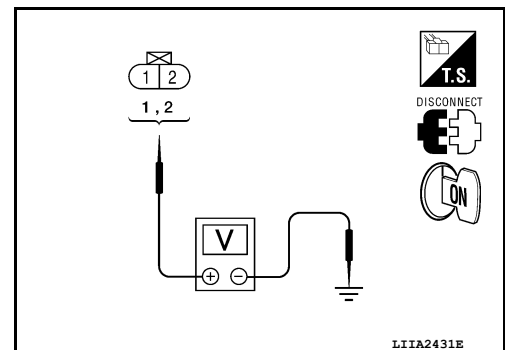
INFOID:000000007360666

Regarding Wiring Diagram information, refer to [PWC-42, "Wiring Diagram"](#).

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

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

| Terminal                        |          | Main power window and door lock/unlock switch condition | Voltage (V) (Approx.) |
|---------------------------------|----------|---------------------------------------------------------|-----------------------|
| (+)                             | (-)      |                                                         |                       |
| Power window motor LH connector | Terminal |                                                         |                       |
| D9                              | 2        | UP                                                      | Battery voltage       |
|                                 |          | DOWN                                                    | 0                     |
|                                 | 1        | UP                                                      | 0                     |
|                                 |          | DOWN                                                    | Battery voltage       |



Is the measurement value within the specification?

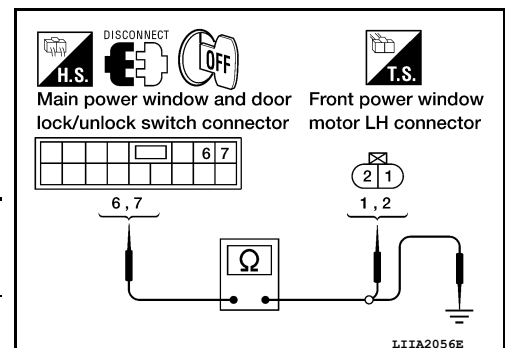
YES >> GO TO 3

NO >> GO TO 2

#### 2. CHECK HARNESS CONTINUITY

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

| Main power window and door lock/unlock switch connector | Terminal | Front power window motor LH connector | Terminal | Continuity |
|---------------------------------------------------------|----------|---------------------------------------|----------|------------|
| D7                                                      | 6        | D9                                    | 2        | Yes        |
|                                                         | 7        |                                       | 1        |            |



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

# POWER WINDOW MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

| Main power window and door lock/unlock switch connector | Terminal | Ground | Continuity |
|---------------------------------------------------------|----------|--------|------------|
| D7                                                      | 6        |        | No         |
|                                                         | 7        |        |            |

### Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3. CHECK POWER WINDOW MOTOR

Check front power window motor LH.

Refer to [PWC-21, "DRIVER SIDE : Component Inspection"](#).

### Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> Replace power window motor LH. Refer to [GW-18, "Rear Door Glass Regulator"](#).

## DRIVER SIDE : Component Inspection

INFOID:000000007360667

## COMPONENT INSPECTION

### 1. CHECK FRONT POWER WINDOW MOTOR LH

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

| Terminal |     | Motor condition |
|----------|-----|-----------------|
| (+)      | (-) |                 |
| 1        | 2   | DOWN            |
| 2        | 1   | UP              |

### Is the inspection result normal?

YES >> Front power window motor LH is OK.

NO >> Replace front power window motor LH. Refer to [GW-14, "Front Door Glass Regulator"](#).

## PASSENGER SIDE

PWC

## PASSENGER SIDE : Description

INFOID:000000007360668

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

## PASSENGER SIDE : Component Function Check

INFOID:000000007360669

### 1. CHECK POWER WINDOW MOTOR CIRCUIT

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

### Is the inspection result normal?

YES >> Front power window motor RH is OK.

NO >> Refer to [PWC-21, "PASSENGER SIDE : Diagnosis Procedure"](#).

## PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007360670

Regarding Wiring Diagram information, refer to [PWC-42, "Wiring Diagram"](#).

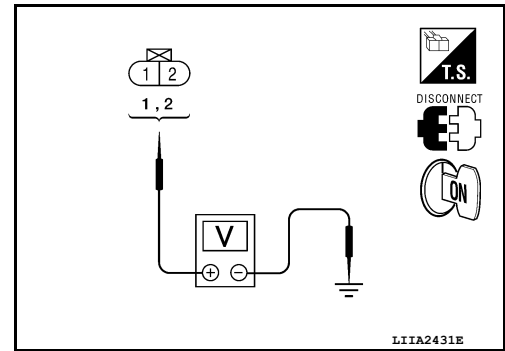
### 1. CHECK FRONT POWER WINDOW SWITCH RH OUTPUT SIGNAL

# POWER WINDOW MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

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

| Terminal                              |          | Front power window motor RH condition | Voltage (V) (Approx.) |
|---------------------------------------|----------|---------------------------------------|-----------------------|
| (+)                                   | (-)      |                                       |                       |
| Front power window motor RH connector | Terminal |                                       |                       |
| D104                                  | 2        | UP                                    | Battery voltage       |
|                                       |          | DOWN                                  | 0                     |
|                                       | 1        | UP                                    | 0                     |
|                                       |          | DOWN                                  | Battery voltage       |



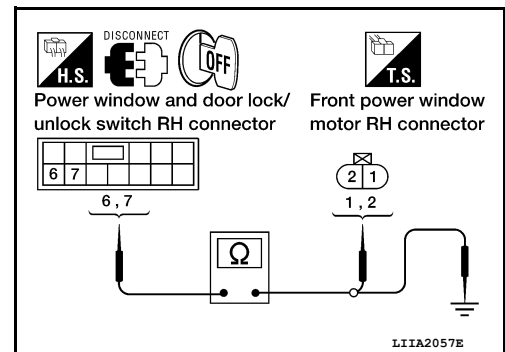
Is the measurement value within the specification?

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

## 2. CHECK HARNESS CONTINUITY

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

| Power window and door lock/unlock switch RH connector | Terminal | Front power window motor RH connector | Terminal | Continuity |
|-------------------------------------------------------|----------|---------------------------------------|----------|------------|
| D105                                                  | 6        | D104                                  | 1        | Yes        |
|                                                       | 7        |                                       | 2        |            |



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

| Power window and door lock/unlock switch RH connector | Terminal | Ground | Continuity |
|-------------------------------------------------------|----------|--------|------------|
| D105                                                  | 6        | Ground | No         |
|                                                       | 7        |        |            |

Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-60, "Removal and Installation"](#).  
NO >> Repair or replace harness.

## 3. CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.  
Refer to [PWC-22, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).  
NO >> Replace front power window motor RH. Refer to [GW-14, "Front Door Glass Regulator"](#).

## PASSENGER SIDE : Component Inspection

INFOID:000000007360671

### COMPONENT INSPECTION

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

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

# POWER WINDOW MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

| Terminal |     | Motor condition |
|----------|-----|-----------------|
| (+)      | (-) |                 |
| 1        | 2   | DOWN            |
| 2        | 1   | UP              |

Is the inspection result normal?

YES >> Front power window motor RH is OK.

NO >> Replace front power window motor RH. Refer to [GW-14, "Front Door Glass Regulator"](#).

## REAR LH

### REAR LH : Description

INFOID:000000007360672

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:000000007360673

#### 1. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to [PWC-23, "REAR LH : Diagnosis Procedure"](#)

### REAR LH : Diagnosis Procedure

INFOID:000000007360674

Regarding Wiring Diagram information, refer to [PWC-42, "Wiring Diagram"](#).

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

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

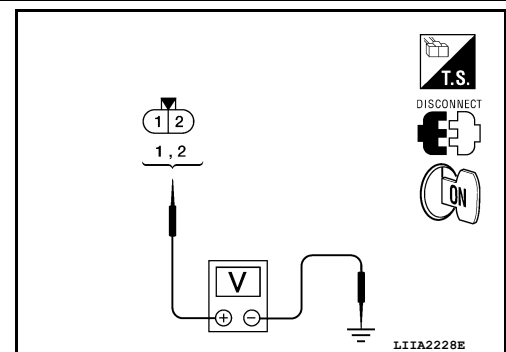
| Terminal                             |          | Window condition | Voltage (V) (Approx.) |
|--------------------------------------|----------|------------------|-----------------------|
| (+)                                  | (-)      |                  |                       |
| Rear power window motor LH connector | Terminal |                  |                       |
| D204                                 | 2        | UP               | Battery voltage       |
|                                      |          | DOWN             | 0                     |
|                                      | 1        | UP               | 0                     |
|                                      |          | DOWN             | Battery voltage       |

Is the measurement value within the specification?

YES >> GO TO 3

NO >> GO TO 2

#### 2. CHECK HARNESS CONTINUITY



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# POWER WINDOW MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect rear power window switch LH.
3. Check continuity between rear power window switch LH connector (A) and rear power window motor LH connector (B).

| Rear power window switch LH connector | Terminal | Rear power window motor LH connector | Terminal | Continuity |
|---------------------------------------|----------|--------------------------------------|----------|------------|
| D203 (A)                              | 6        | D204 (B)                             | 1        | Yes        |
|                                       | 7        |                                      | 2        |            |

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

| Rear power window switch LH connector | Terminal | Ground | Continuity |
|---------------------------------------|----------|--------|------------|
| D203 (A)                              | 6        | Ground | No         |
|                                       | 7        |        |            |

### Is the inspection result normal?

- YES >> Check rear power window switch LH. Refer to [PWC-16, "REAR POWER WINDOW SWITCH : Component Function Check"](#).
- NO >> Repair or replace harness.

## 3. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-24, "REAR LH : Component Inspection"](#).

### Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).
- NO >> Replace rear power window motor LH. Refer to [GW-18, "Rear Door Glass Regulator"](#).

## REAR LH : Component Inspection

INFOID:0000000007360675

### COMPONENT INSPECTION

## 1. CHECK REAR POWER WINDOW MOTOR LH

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

| Terminal |     | Motor condition |
|----------|-----|-----------------|
| (+)      | (-) |                 |
| 2        | 1   | UP              |
| 1        | 2   | DOWN            |

### Is the inspection result normal?

- YES >> Rear power window motor LH is OK.
- NO >> Replace rear power window motor LH. Refer to [GW-18, "Rear Door Glass Regulator"](#).

## REAR RH

### REAR RH : Description

INFOID:0000000007360676

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

### REAR RH : Component Function Check

INFOID:0000000007360677

## 1. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

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



# POWER WINDOW MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

- YES >> Rear power window motor RH is OK.  
NO >> Refer to [PWC-25. "REAR RH : Diagnosis Procedure"](#).

## REAR RH : Diagnosis Procedure

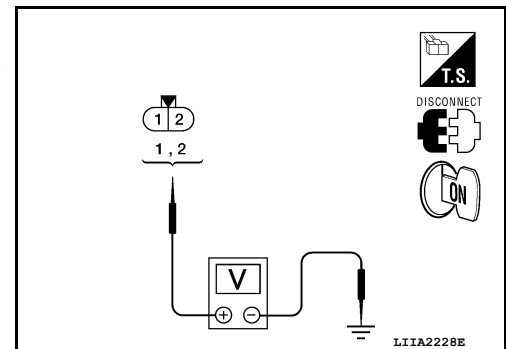
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Regarding Wiring Diagram information, refer to [PWC-42. "Wiring Diagram"](#).

### 1. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

| Terminal                             |          | Rear power window switch RH condition | Voltage (V) (Approx.) |
|--------------------------------------|----------|---------------------------------------|-----------------------|
| (+)                                  | (-)      |                                       |                       |
| Rear power window motor RH connector | Terminal |                                       |                       |
| D304                                 | 2        | UP                                    | Battery voltage       |
|                                      |          | DOWN                                  | 0                     |
|                                      | 1        | UP                                    | 0                     |
|                                      |          | DOWN                                  | Battery voltage       |



### Is the measurement value within the specification?

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

### 2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect rear power window switch RH.
3. Check continuity between rear power window switch RH connector (A) and rear power window motor RH connector (B).

| Rear power window switch RH connector | Terminal | Rear power window motor RH connector | Terminal | Continuity |
|---------------------------------------|----------|--------------------------------------|----------|------------|
| D303 (A)                              | 6        | D304 (B)                             | 1        | Yes        |
|                                       | 7        |                                      | 2        |            |

4. Check continuity between rear power window switch RH connector (A) and ground.

| Rear power window switch RH connector | Terminal | Ground | Continuity |
|---------------------------------------|----------|--------|------------|
| D303 (A)                              | 6        | Ground | No         |
|                                       | 7        |        |            |

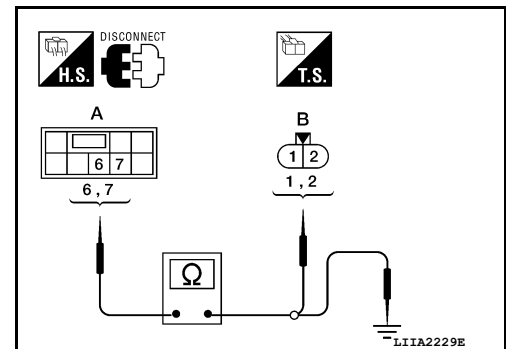
### Is the inspection result normal?

- YES >> Check rear power window switch RH. Refer to [PWC-16. "REAR POWER WINDOW SWITCH : Component Function Check"](#).  
NO >> Repair or replace harness.

### 3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-26. "REAR RH : Component Inspection"](#).



## POWER WINDOW MOTOR

### < DTC/CIRCUIT DIAGNOSIS >

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#### Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).  
NO >> Replace rear power window motor RH. Refer to [GW-18, "Rear Door Glass Regulator"](#).

### REAR RH : Component Inspection

INFOID:000000007360679

#### COMPONENT INSPECTION

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

---

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

| Terminal |     | Motor condition |
|----------|-----|-----------------|
| (+)      | (-) |                 |
| 2        | 1   | UP              |
| 1        | 2   | DOWN            |

#### Is the inspection result normal?

- YES >> Rear power window motor RH is OK.  
NO >> Replace rear power window motor RH. Refer to [GW-18, "Rear Door Glass Regulator"](#).

# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DOOR SWITCH

### Description

INFOID:000000007360680

Detects door open/close condition and transmits the signal to BCM.

### Component Function Check

INFOID:000000007360681

#### 1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT. Refer to [BCS-24](#), "[RETAINED PWR : CONSULT Function \(BCM - RETAINED PWR\)](#)".

| Monitor item | Condition   |
|--------------|-------------|
| DOOR SW-DR   | OPEN : ON   |
|              | CLOSE : OFF |
| DOOR SW-AS   | OPEN : ON   |
|              | CLOSE : OFF |

Is the inspection result normal?

YES >> Front door switch circuit is OK.

NO >> Refer to [PWC-27](#), "[Diagnosis Procedure](#)".

### Diagnosis Procedure

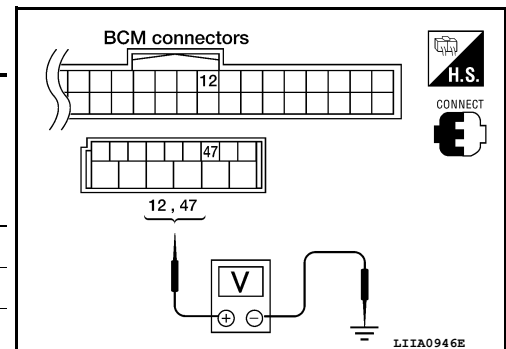
INFOID:000000007360682

Regarding Wiring Diagram information, refer to [PWC-42](#), "[Wiring Diagram](#)".

#### 1. CHECK FRONT DOOR SWITCH

Check voltage between BCM connector and ground.

| Terminals        |          |        | Door condition   |       | Voltage (V)<br>(Approx.) |
|------------------|----------|--------|------------------|-------|--------------------------|
| (+)              |          | (−)    |                  |       |                          |
| BCM<br>connector | Terminal |        |                  |       |                          |
| M18              | 12       | Ground | Front door<br>RH | OPEN  | 0                        |
|                  |          |        |                  | CLOSE | Battery voltage          |
| M19              | 47       |        | Front door<br>LH | OPEN  | 0                        |
|                  |          |        |                  | CLOSE | Battery voltage          |



Is the measurement value within the specification?

YES >> Door switch circuit is OK.

NO >> GO TO 2

#### 2. CHECK HARNESS CONTINUITY

# DOOR SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM and front door switch.
3. Check continuity between BCM connector and front door switch connector.

| BCM connector | Terminal | Front door switch connector | Terminal | Continuity |
|---------------|----------|-----------------------------|----------|------------|
| M18           | 12       | RH: B108                    | 2        | Yes        |
| M19           | 47       | LH: B8                      |          |            |

4. Check continuity between front door switch connector and ground.

| Front door switch connector | Terminal | Ground | Continuity |
|-----------------------------|----------|--------|------------|
| B8 (LH)                     | 2        | Ground | No         |
| B108 (RH)                   |          |        |            |

Is the inspection result normal?

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

## 3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

| Terminal      |          | Voltage (V)<br>(Approx.) |
|---------------|----------|--------------------------|
| (+)           | (-)      |                          |
| BCM connector | Terminal |                          |
| M18           | 12       | Battery voltage          |
| M19           | 47       |                          |

Is the measurement value within the specification?

- YES >> GO TO 4  
NO >> Replace BCM. Refer to [BCS-50, "Removal and Installation"](#).

## 4. CHECK FRONT DOOR SWITCH

Check front door switch.  
Refer to [PWC-28, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).  
NO >> Replace front door switch.

## Component Inspection

INFOID:000000007360683

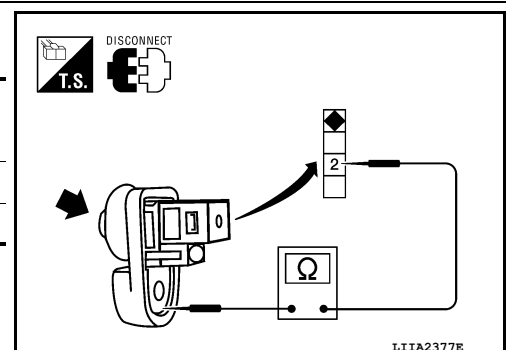
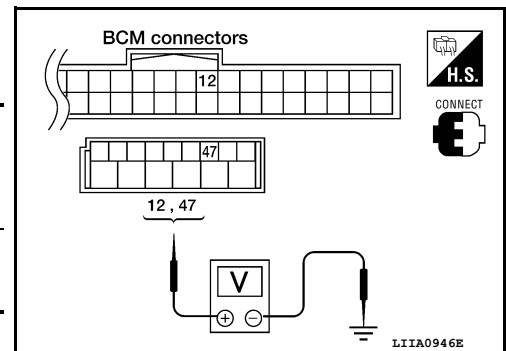
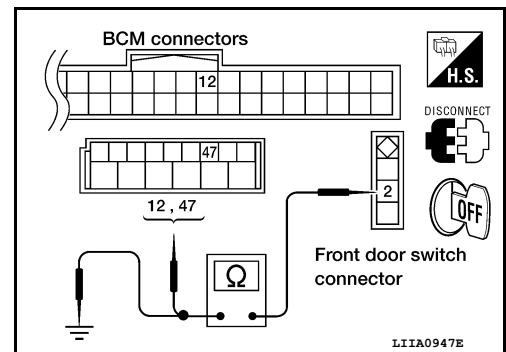
## 1. CHECK FRONT DOOR SWITCH

Check front door switches.

| Terminal      |                            | Door switch | Continuity |
|---------------|----------------------------|-------------|------------|
| Door switches |                            |             |            |
| 2             | Ground part of door switch | Pressed     | No         |
|               |                            | Released    | Yes        |

Is the inspection result normal?

- YES >> Front door switch is OK.  
NO >> Replace front door switch.



# POWER WINDOW LOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## POWER WINDOW LOCK SWITCH

### Description

INFOID:000000007360684

Ground circuit of main power window and door lock/unlock switch shuts off if power window lock switch of main power window and door lock/unlock switch is operated. This inhibits all operation, except for the main switch.

### Component Function Check

INFOID:000000007360685

#### 1. CHECK POWER WINDOW LOCK SIGNAL

Exchanges for a normal main power window and door lock/unlock switch, and operation is checked.

Does power window lock operate?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-59. "Removal and Installation"](#).
- NO >> Check condition of harness and connector.

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# POWER WINDOW SYSTEM

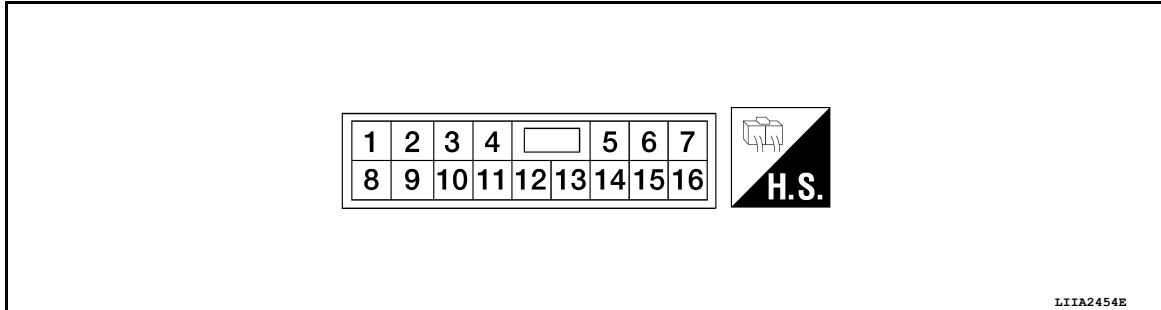
< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### POWER WINDOW SYSTEM

#### Terminal Layout

INFOID:000000007360686



#### Physical Values

INFOID:000000007360687

| Terminal | Wire Color | Item                                    | Condition                                                                             | Voltage (V)<br>(Approx.) |
|----------|------------|-----------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| 2        | G/Y        | Front power window motor RH DOWN signal | When power window motor is operated DOWN                                              | Battery voltage          |
| 3        | L/W        | Front power window motor RH UP signal   | When power window motor is operated UP                                                | Battery voltage          |
| 5        | W/R        | RAP signal                              | When ignition switch ON                                                               | Battery voltage          |
|          |            |                                         | Within 45 seconds after ignition switch is turned to OFF                              | Battery voltage          |
|          |            |                                         | More than 45 seconds after ignition switch is turned to OFF                           | 0                        |
|          |            |                                         | When front door LH or RH open or power window timer operates                          | 0                        |
| 6        | G/R        | Front power window motor LH UP signal   | When power window motor is operated UP                                                | Battery voltage          |
| 7        | G/W        | Front power window motor LH DOWN signal | When power window motor is operated DOWN                                              | Battery voltage          |
| 8        | G/B        | Rear power window RH UP signal          | When rear RH switch in main power window and door lock/unlock switch is operated UP   | Battery voltage          |
| 9        | R          | Rear power window RH DOWN signal        | When rear RH switch in main power window and door lock/unlock switch is operated DOWN | Battery voltage          |
| 14       | B          | Ground                                  | —                                                                                     | 0                        |
| 15       | R/B        | Rear power window LH UP signal          | When rear LH switch in main power window and door lock/unlock switch is operated UP   | Battery voltage          |
| 16       | R/Y        | Rear power window LH DOWN signal        | When rear LH switch in main power window and door lock/unlock switch is operated DOWN | Battery voltage          |

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## BCM (BODY CONTROL MODULE)

### Reference Value

INFOID:000000007808376

#### NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

### VALUES ON THE DIAGNOSIS TOOL

| Monitor Item  | Condition                                        | Value/Status                  |
|---------------|--------------------------------------------------|-------------------------------|
| ACC ON SW     | Ignition switch OFF or ON                        | Off                           |
|               | Ignition switch ACC                              | On                            |
| AIR COND SW   | A/C switch OFF                                   | Off                           |
|               | A/C switch ON                                    | On                            |
| AIR PRESS FL  | Front left tire air pressure value               | kPa, kg/cm <sup>2</sup> , psi |
| AIR PRESS FR  | Front right tire air pressure value              | kPa, kg/cm <sup>2</sup> , psi |
| AIR PRESS RL  | Rear left tire air pressure value                | kPa, kg/cm <sup>2</sup> , psi |
| AIR PRESS RR  | Rear right tire air pressure value               | kPa, kg/cm <sup>2</sup> , psi |
| BACK DOOR SW  | Back door closed                                 | Off                           |
|               | Back door opened                                 | On                            |
| BRAKE SW      | Brake pedal released                             | Off                           |
|               | Brake pedal applied                              | On                            |
| BUCKLE SW     | Seat belt buckle unfastened                      | Off                           |
|               | Seat belt buckle fastened                        | On                            |
| BUZZER        | Buzzer in combination meter OFF                  | Off                           |
|               | Buzzer in combination meter ON                   | On                            |
| CARGO LAMP SW | Cargo lamp switch OFF                            | Off                           |
|               | Cargo lamp switch ON                             | 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    | Front door RH closed                             | Off                           |
|               | Front door RH opened                             | On                            |
| DOOR SW-DR    | Front door LH closed                             | Off                           |
|               | Front door LH opened                             | On                            |
| DOOR SW-RL    | Rear door LH closed                              | Off                           |
|               | Rear door LH opened                              | On                            |
| DOOR SW-RR    | Rear door RH closed                              | Off                           |
|               | Rear door RH opened                              | On                            |
| FAN ON SIG    | Blower motor fan switch OFF                      | Off                           |
|               | Blower motor fan switch ON                       | On                            |

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

| Monitor Item   | Condition                                           | Value/Status |
|----------------|-----------------------------------------------------|--------------|
| FR FOG SW      | Front fog lamp switch OFF                           | Off          |
|                | Front fog lamp switch ON                            | On           |
| FR WASHER SW   | Front washer switch OFF                             | Off          |
|                | Front washer switch ON                              | On           |
| FR WIPER LOW   | Front wiper switch OFF                              | Off          |
|                | Front wiper switch LO                               | On           |
| FR WIPER HI    | Front wiper switch OFF                              | Off          |
|                | Front wiper switch HI                               | On           |
| FR WIPER INT   | Front wiper switch OFF                              | Off          |
|                | Front wiper switch INT                              | On           |
| FR WIPER STOP  | Any position other than front wiper stop position   | Off          |
|                | Front wiper stop position                           | On           |
| HAZARD SW      | When hazard switch is not pressed                   | Off          |
|                | When hazard switch is pressed                       | On           |
| HEAD LAMP SW 1 | Headlamp switch OFF                                 | Off          |
|                | Headlamp switch 1st                                 | On           |
| HEAD LAMP SW 2 | Headlamp switch OFF                                 | Off          |
|                | Headlamp switch 1st                                 | On           |
| HI BEAM SW     | High beam switch OFF                                | Off          |
|                | High beam switch HI                                 | On           |
| ID REGST FL1   | ID registration of front left tire incomplete       | YET          |
|                | ID registration of front left tire complete         | DONE         |
| ID REGST FR1   | ID registration of front right tire incomplete      | YET          |
|                | ID registration of front right tire complete        | DONE         |
| ID REGST RL1   | ID registration of rear left tire incomplete        | YET          |
|                | ID registration of rear left tire complete          | DONE         |
| ID REGST RR1   | ID registration of rear right tire incomplete       | YET          |
|                | ID registration of rear right tire complete         | DONE         |
| IGN ON SW      | Ignition switch OFF or ACC                          | Off          |
|                | Ignition switch ON                                  | On           |
| IGN SW CAN     | Ignition switch OFF or ACC                          | Off          |
|                | Ignition switch ON                                  | On           |
| INT VOLUME     | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7        |
| KEY CYL LK-SW  | Door key cylinder LOCK position                     | Off          |
|                | Door key cylinder other than LOCK position          | On           |
| KEY CYL UN-SW  | Door key cylinder UNLOCK position                   | Off          |
|                | Door key cylinder other than UNLOCK position        | On           |
| KEY ON SW      | Mechanical key is removed from key cylinder         | Off          |
|                | Mechanical key is inserted to key cylinder          | On           |
| KEYLESS LOCK   | LOCK button of key fob is not pressed               | Off          |
|                | LOCK button of key fob is pressed                   | On           |
| KEYLESS PANIC  | PANIC button of key fob is not pressed              | Off          |
|                | PANIC button of key fob is pressed                  | On           |



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

| Monitor Item   | Condition                                                                                            | Value/Status                      |
|----------------|------------------------------------------------------------------------------------------------------|-----------------------------------|
| KEYLESS UNLOCK | UNLOCK button of key fob is not pressed                                                              | Off                               |
|                | UNLOCK button of key fob is pressed                                                                  | On                                |
| LIGHT SW 1ST   | Lighting switch OFF                                                                                  | Off                               |
|                | Lighting switch 1st                                                                                  | On                                |
| OIL PRESS SW   | <ul style="list-style-type: none"> <li>Ignition switch OFF or ACC</li> <li>Engine running</li> </ul> | Off                               |
|                | Ignition switch ON                                                                                   | On                                |
| PASSING SW     | Other than lighting switch PASS                                                                      | Off                               |
|                | Lighting switch PASS                                                                                 | On                                |
| REAR DEF SW    | Rear window defogger switch OFF                                                                      | Off                               |
|                | Rear window defogger 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                                |
| 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                                |
| VEHICLE SPEED  | While driving                                                                                        | Equivalent to speedometer reading |
| WARNING LAMP   | Low tire pressure warning lamp in combination meter OFF                                              | Off                               |
|                | Low tire pressure warning lamp in combination meter ON                                               | On                                |

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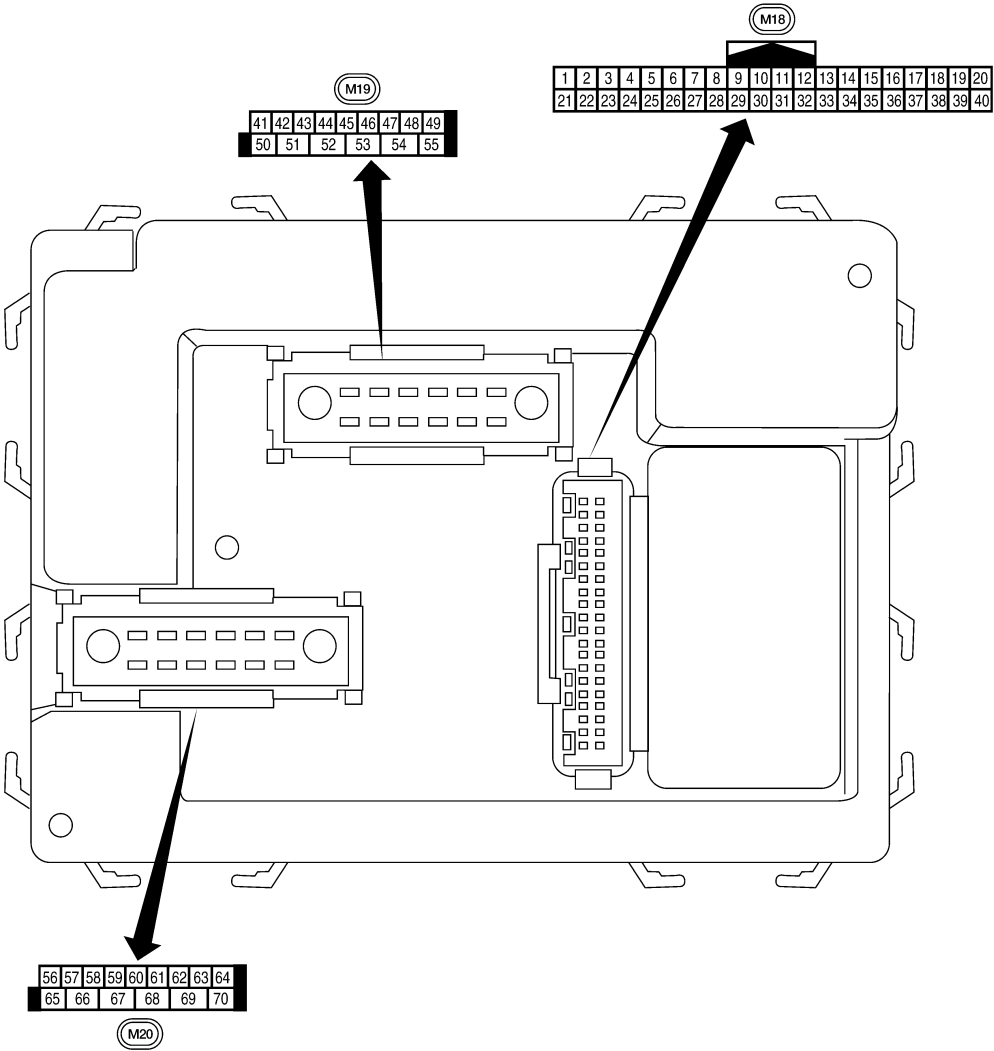
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal Layout

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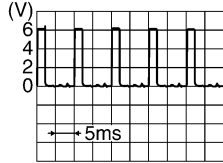
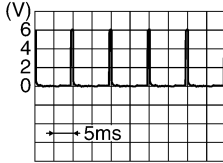
Physical Values

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# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

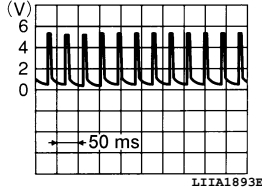
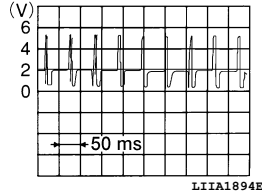
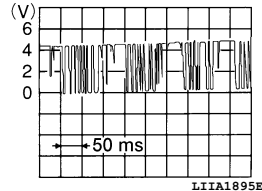
| Terminal | Wire color | Signal name                                                                                  | Signal input/output | Measuring condition |                                                    | Reference value or waveform (Approx.)                                                              |
|----------|------------|----------------------------------------------------------------------------------------------|---------------------|---------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------|
|          |            |                                                                                              |                     | Ignition switch     | Operation or condition                             |                                                                                                    |
| 1        | BR         | Ignition keyhole illumination                                                                | Output              | OFF                 | Door is locked (SW OFF)                            | Battery voltage                                                                                    |
|          |            |                                                                                              |                     |                     | Door is unlocked (SW ON)                           | 0V                                                                                                 |
| 2        | P          | Combination switch input 5                                                                   | Input               | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5291E   |
| 3        | SB         | Combination switch input 4                                                                   | Input               | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5292E   |
| 4        | V          | Combination switch input 3                                                                   | Input               | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5291E  |
| 5        | L          | Combination switch input 2                                                                   | Input               | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5292E |
| 6        | R          | Combination switch input 1                                                                   |                     |                     |                                                    |                                                                                                    |
| 7        | GR         | Front door lock assembly LH (key cylinder switch) and back door key cylinder switch (unlock) | Input               | OFF                 | ON (open, 2nd turn)                                | Momentary 1.5V                                                                                     |
|          |            |                                                                                              |                     |                     | OFF (closed)                                       | 0V                                                                                                 |
| 8        | SB         | Front door lock assembly LH (key cylinder switch) and back door key cylinder switch (lock)   | Input               | OFF                 | ON (open)                                          | Momentary 1.5V                                                                                     |
|          |            |                                                                                              |                     |                     | OFF (closed)                                       | 0V                                                                                                 |
| 9        | Y          | Rear window defogger switch                                                                  | Input               | ON                  | Rear window defogger switch ON                     | 0V                                                                                                 |
|          |            |                                                                                              |                     |                     | Rear window defogger switch OFF                    | 5V                                                                                                 |
| 11       | G/B        | Ignition switch (ACC or ON)                                                                  | Input               | ACC or ON           | Ignition switch ACC or ON                          | Battery voltage                                                                                    |
| 12       | LG         | Front door switch RH                                                                         | Input               | OFF                 | ON (open)                                          | 0V                                                                                                 |
|          |            |                                                                                              |                     |                     | OFF (closed)                                       | Battery voltage                                                                                    |

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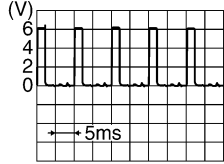
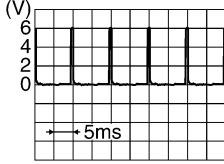
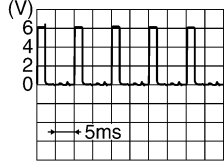
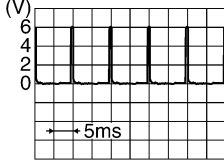
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name                                  | Signal input/output | Measuring condition |                                                                                         | Reference value or waveform (Approx.)                                                                                      |
|----------|------------|----------------------------------------------|---------------------|---------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|          |            |                                              |                     | Ignition switch     | Operation or condition                                                                  |                                                                                                                            |
| 13       | L          | Rear door switch RH                          | Input               | OFF                 | ON (open)                                                                               | 0V                                                                                                                         |
|          |            |                                              |                     |                     | OFF (closed)                                                                            | Battery voltage                                                                                                            |
| 15       | W          | Tire pressure warning check connector        | Input               | OFF                 | —                                                                                       | 5V                                                                                                                         |
| 18       | BR         | Remote keyless entry receiver (ground)       | Output              | OFF                 | —                                                                                       | 0V                                                                                                                         |
| 19       | V          | Remote keyless entry receiver (power supply) | Output              | OFF                 | Ignition switch OFF                                                                     | <br><small>LI1A1893E</small>            |
| 20       | G          | Remote keyless entry receiver (signal)       | Input               | OFF                 | Stand-by (keyfob buttons released)                                                      | <br><small>LI1A1894E</small>            |
|          |            |                                              |                     |                     | When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed) | <br><small>LI1A1895E</small>          |
| 21       | GR         | NATS antenna amp.                            | Input               | OFF → ON            | Ignition switch (OFF → ON)                                                              | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. |
| 23       | G          | Security indicator lamp                      | Output              | OFF                 | Goes OFF → illuminates (Every 2.4 seconds)                                              | Battery voltage → 0V                                                                                                       |
| 25       | BR         | NATS antenna amp.                            | Input               | OFF → ON            | Ignition switch (OFF → ON)                                                              | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. |
| 27       | W          | Compressor ON signal                         | Input               | ON                  | A/C switch OFF                                                                          | 5V                                                                                                                         |
|          |            |                                              |                     |                     | A/C switch ON                                                                           | 0V                                                                                                                         |
| 28       | R          | Front blower monitor                         | Input               | ON                  | Front blower motor OFF                                                                  | Battery voltage                                                                                                            |
|          |            |                                              |                     |                     | Front blower motor ON                                                                   | 0V                                                                                                                         |
| 29       | G          | Hazard switch                                | Input               | OFF                 | ON                                                                                      | 0V                                                                                                                         |
|          |            |                                              |                     |                     | OFF                                                                                     | 5V                                                                                                                         |
| 31       | R          | Off-road lamps switch                        | Input               | ON                  | ON                                                                                      | 0V                                                                                                                         |
|          |            |                                              |                     |                     | OFF                                                                                     | 5V                                                                                                                         |

# BCM (BODY CONTROL MODULE)

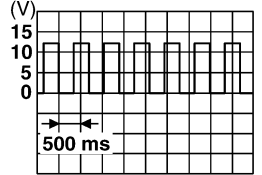
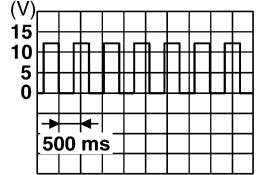
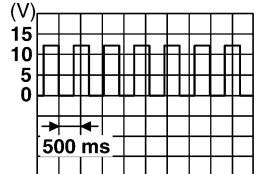
## < ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name                      | Signal input/output | Measuring condition |                                                    | Reference value or waveform (Approx.)                                                              |
|----------|------------|----------------------------------|---------------------|---------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------|
|          |            |                                  |                     | Ignition switch     | Operation or condition                             |                                                                                                    |
| 32       | O          | Combination switch output 5      | Output              | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5291E   |
| 33       | GR         | Combination switch output 4      | Output              | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5292E   |
| 34       | G          | Combination switch output 3      | Output              | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5291E   |
| 35       | BR         | Combination switch output 2      | Output              | ON                  | Lighting, turn, wiper OFF<br>Wiper dial position 4 | <br>SKIA5292E |
| 36       | LG         | Combination switch output 1      |                     |                     |                                                    |                                                                                                    |
| 37       | B          | Key switch and key lock solenoid | Input               | OFF                 | Key inserted                                       | Battery voltage                                                                                    |
|          |            |                                  |                     |                     | Key inserted                                       | 0V                                                                                                 |
| 38       | W/R        | Ignition switch (ON)             | Input               | ON                  | —                                                  | Battery voltage                                                                                    |
| 39       | L          | CAN-H                            | —                   | —                   | —                                                  | —                                                                                                  |
| 40       | P          | CAN-L                            | —                   | —                   | —                                                  | —                                                                                                  |
| 42       | L          | Off-road lamps                   | Output              | ON                  | Off-road lamps switch                              | ON: 0V<br>OFF: Battery voltage                                                                     |
| 43       | Y          | Back door switch                 | Input               | OFF                 | ON (open)                                          | 0V                                                                                                 |
|          |            |                                  |                     |                     | OFF (closed)                                       | Battery voltage                                                                                    |
| 44       | O          | Rear wiper auto stop switch      | Input               | ON                  | Rise up position (rear wiper arm on stopper)       | 0V                                                                                                 |
|          |            |                                  |                     |                     | A Position (full clockwise stop position)          | Battery voltage                                                                                    |
|          |            |                                  |                     |                     | Forward sweep (counterclockwise direction)         | Fluctuating                                                                                        |
|          |            |                                  |                     |                     | B Position (full counterclockwise stop position)   | 0V                                                                                                 |
|          |            |                                  |                     |                     | Reverse sweep (clockwise direction)                | Fluctuating                                                                                        |

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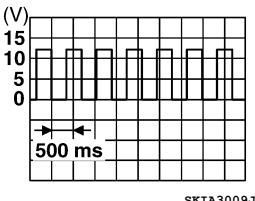
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name                                   | Signal input/output | Measuring condition |                                                | Reference value or waveform (Approx.)                                                              |
|----------|------------|-----------------------------------------------|---------------------|---------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------|
|          |            |                                               |                     | Ignition switch     | Operation or condition                         |                                                                                                    |
| 45       | V          | Lock switch                                   | Input               | OFF                 | ON (lock)                                      | 0V                                                                                                 |
|          |            |                                               |                     |                     | OFF                                            | Battery voltage                                                                                    |
| 46       | LG         | Unlock switch                                 | Input               | OFF                 | ON (unlock)                                    | 0V                                                                                                 |
|          |            |                                               |                     |                     | OFF                                            | Battery voltage                                                                                    |
| 47       | GR         | Front door switch LH                          | Input               | OFF                 | ON (open)                                      | 0V                                                                                                 |
|          |            |                                               |                     |                     | OFF (closed)                                   | Battery voltage                                                                                    |
| 48       | P          | Rear door switch LH                           | Input               | OFF                 | ON (open)                                      | 0V                                                                                                 |
|          |            |                                               |                     |                     | OFF (closed)                                   | Battery voltage                                                                                    |
| 49       | L          | Cargo lamp                                    | Output              | OFF                 | Any door open (ON)                             | 0V                                                                                                 |
|          |            |                                               |                     |                     | All doors closed (OFF)                         | Battery voltage                                                                                    |
| 50       | W          | Off-road lamps relay                          | Output              | ON                  | Off-road lamps switch ON                       | 0V                                                                                                 |
|          |            |                                               |                     |                     | Off-road lamps switch OFF                      | Battery voltage                                                                                    |
| 51       | O          | Trailer turn signal (right)                   | Output              | ON                  | Turn right ON                                  | <br>SKIA3009J   |
| 52       | LG         | Trailer turn signal (left)                    | Output              | ON                  | Turn left ON                                   | <br>SKIA3009J |
| 55       | W          | Rear wiper output circuit 1                   | Output              | ON                  | OFF                                            | 0                                                                                                  |
|          |            |                                               |                     |                     | ON                                             | Battery voltage                                                                                    |
| 56       | R/Y        | Battery saver output                          | Output              | OFF                 | 15 minutes after ignition switch is turned OFF | 0V                                                                                                 |
|          |            |                                               |                     | ON                  | —                                              | Battery voltage                                                                                    |
| 57       | R/Y        | Battery power supply                          | Input               | OFF                 | —                                              | Battery voltage                                                                                    |
| 59       | GR         | Front door lock assembly LH actuator (unlock) | Output              | OFF                 | OFF (neutral)                                  | 0V                                                                                                 |
|          |            |                                               |                     |                     | ON (unlock)                                    | Battery voltage                                                                                    |
| 60       | LG         | Turn signal (left)                            | Output              | ON                  | Turn left ON                                   | <br>SKIA3009J |

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name                                                                                      | Signal input/output | Measuring condition |                                                                 | Reference value or waveform (Approx.)                                               |
|----------|------------|--------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          |            |                                                                                                  |                     | Ignition switch     | Operation or condition                                          |                                                                                     |
| 61       | G          | Turn signal (right)                                                                              | Output              | ON                  | Turn right ON                                                   |  |
| 63       | BR         | Interior room/map lamp                                                                           | Output              | OFF                 | Any door switch                                                 | ON (open) 0V<br>OFF (closed) Battery voltage                                        |
| 65       | V          | All door lock actuators (lock)                                                                   | Output              | OFF                 | OFF (neutral)                                                   | 0V                                                                                  |
|          |            |                                                                                                  |                     |                     | ON (lock)                                                       | Battery voltage                                                                     |
| 66       | L          | Front door lock actuator RH, rear door lock actuators LH/RH and back door lock actuator (unlock) | Output              | OFF                 | OFF (neutral)                                                   | 0V                                                                                  |
|          |            |                                                                                                  |                     |                     | ON (unlock)                                                     | Battery voltage                                                                     |
| 67       | B          | Ground                                                                                           | Input               | ON                  | —                                                               | 0V                                                                                  |
| 68       | O          | Power window power supply (RAP)                                                                  | Output              | —                   | Ignition switch ON                                              | Battery voltage                                                                     |
|          |            |                                                                                                  |                     |                     | Within 45 seconds after ignition switch OFF                     | Battery voltage                                                                     |
|          |            |                                                                                                  |                     |                     | More than 45 seconds after ignition switch OFF                  | 0V                                                                                  |
|          |            |                                                                                                  |                     |                     | When front door LH or RH is open or power window timer operates | 0V                                                                                  |
| 70       | W          | Battery power supply                                                                             | Input               | OFF                 | —                                                               | Battery voltage                                                                     |

## Fail Safe

INFOID:000000007808379

PWC

## Fail-safe index

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

| Display contents of CONSULT | Fail-safe               | Cancellation                                                      |
|-----------------------------|-------------------------|-------------------------------------------------------------------|
| U1000: CAN COMM CIRCUIT     | Inhibit engine cranking | When the BCM re-establishes communication with the other modules. |

## DTC Inspection Priority Chart

INFOID:000000007808380

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

| Priority | DTC                                                                                                                                                                             |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | <ul style="list-style-type: none"> <li>U1000: CAN COMM CIRCUIT</li> </ul>                                                                                                       |
| 2        | <ul style="list-style-type: none"> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> </ul> |

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

| Priority | DTC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3        | <ul style="list-style-type: none"> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• C1735: IGNITION SIGNAL</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4        | <ul style="list-style-type: none"> <li>• C1704: LOW PRESSURE FL</li> <li>• C1705: LOW PRESSURE FR</li> <li>• C1706: LOW PRESSURE RR</li> <li>• C1707: LOW PRESSURE RL</li> <li>• C1708: [NO DATA] FL</li> <li>• C1709: [NO DATA] FR</li> <li>• C1710: [NO DATA] RR</li> <li>• C1711: [NO DATA] RL</li> <li>• C1712: [CHECKSUM ERR] FL</li> <li>• C1713: [CHECKSUM ERR] FR</li> <li>• C1714: [CHECKSUM ERR] RR</li> <li>• C1715: [CHECKSUM ERR] RL</li> <li>• C1716: [PRESSDATA ERR] FL</li> <li>• C1717: [PRESSDATA ERR] FR</li> <li>• C1718: [PRESSDATA ERR] RR</li> <li>• C1719: [PRESSDATA ERR] RL</li> <li>• C1720: [CODE ERR] FL</li> <li>• C1721: [CODE ERR] FR</li> <li>• C1722: [CODE ERR] RR</li> <li>• C1723: [CODE ERR] RL</li> <li>• C1724: [BATT VOLT LOW] FL</li> <li>• C1725: [BATT VOLT LOW] FR</li> <li>• C1726: [BATT VOLT LOW] RR</li> <li>• C1727: [BATT VOLT LOW] RL</li> </ul> |

## DTC Index

INFOID:000000007808381

### 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.
- 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                                            | Fail-safe | Low tire pressure warning lamp ON | Reference page         |
|------------------------------------------------------------|-----------|-----------------------------------|------------------------|
| No DTC is detected.<br>further testing<br>may be required. | —         | —                                 | —                      |
| U1000: CAN COMM CIRCUIT                                    | X         | —                                 | <a href="#">BCS-27</a> |
| B2190: NATS ANTENNA AMP                                    | —         | —                                 | <a href="#">SEC-18</a> |
| B2191: DIFFERENCE OF KEY                                   | —         | —                                 | <a href="#">SEC-21</a> |
| B2192: ID DISCORD BCM-ECM                                  | —         | —                                 | <a href="#">SEC-22</a> |
| B2193: CHAIN OF BCM-ECM                                    | —         | —                                 | <a href="#">SEC-24</a> |
| C1708: [NO DATA] FL                                        | —         | X                                 | <a href="#">WT-14</a>  |
| C1709: [NO DATA] FR                                        | —         | X                                 | <a href="#">WT-14</a>  |
| C1710: [NO DATA] RR                                        | —         | X                                 | <a href="#">WT-14</a>  |
| C1711: [NO DATA] RL                                        | —         | X                                 | <a href="#">WT-14</a>  |
| C1712: [CHECKSUM ERR] FL                                   | —         | X                                 | <a href="#">WT-16</a>  |
| C1713: [CHECKSUM ERR] FR                                   | —         | X                                 | <a href="#">WT-16</a>  |
| C1714: [CHECKSUM ERR] RR                                   | —         | X                                 | <a href="#">WT-16</a>  |
| C1715: [CHECKSUM ERR] RL                                   | —         | X                                 | <a href="#">WT-16</a>  |



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

| CONSULT display           | Fail-safe | Low tire pressure<br>warning lamp ON | Reference page        |
|---------------------------|-----------|--------------------------------------|-----------------------|
| C1716: [PRESSDATA ERR] FL | —         | X                                    | <a href="#">WT-18</a> |
| C1717: [PRESSDATA ERR] FR | —         | X                                    | <a href="#">WT-18</a> |
| C1718: [PRESSDATA ERR] RR | —         | X                                    | <a href="#">WT-18</a> |
| C1719: [PRESSDATA ERR] RL | —         | X                                    | <a href="#">WT-18</a> |
| C1720: [CODE ERR] FL      | —         | X                                    | <a href="#">WT-16</a> |
| C1721: [CODE ERR] FR      | —         | X                                    | <a href="#">WT-16</a> |
| C1722: [CODE ERR] RR      | —         | X                                    | <a href="#">WT-16</a> |
| C1723: [CODE ERR] RL      | —         | X                                    | <a href="#">WT-16</a> |
| C1724: [BATT VOLT LOW] FL | —         | X                                    | <a href="#">WT-16</a> |
| C1725: [BATT VOLT LOW] FR | —         | X                                    | <a href="#">WT-16</a> |
| C1726: [BATT VOLT LOW] RR | —         | X                                    | <a href="#">WT-16</a> |
| C1727: [BATT VOLT LOW] RL | —         | X                                    | <a href="#">WT-16</a> |
| C1729: VHCL SPEED SIG ERR | —         | X                                    | <a href="#">WT-20</a> |
| C1735: IGNITION SIGNAL    | —         | X                                    | <a href="#">WT-21</a> |

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# POWER WINDOW SYSTEM

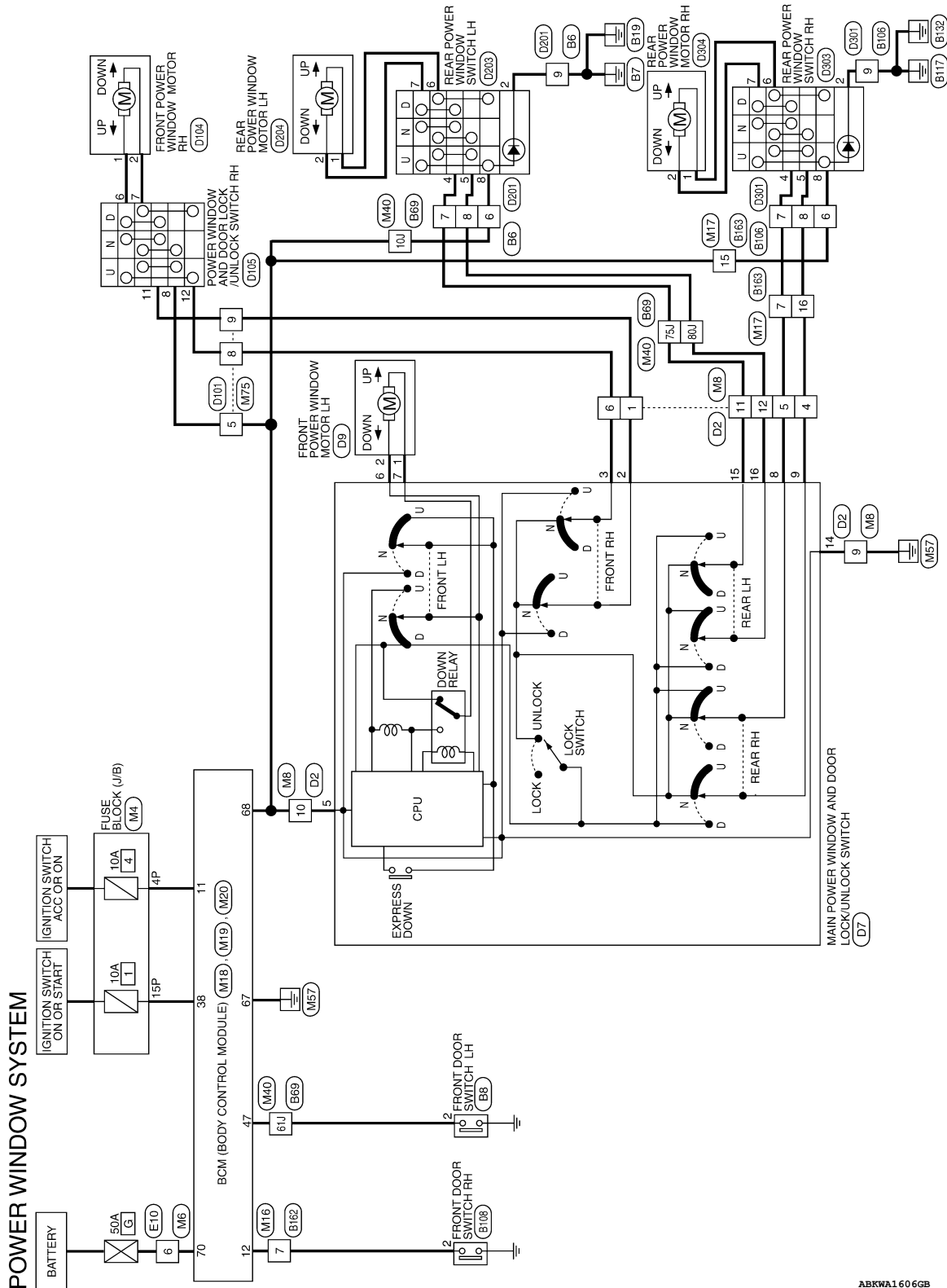
< WIRING DIAGRAM >

## WIRING DIAGRAM

### POWER WINDOW SYSTEM

#### Wiring Diagram

INFOID:000000007360694



ABKWA1 60 6GB

# POWER WINDOW SYSTEM

< WIRING DIAGRAM >

## POWER WINDOW SYSTEM CONNECTORS

|                 |                  |
|-----------------|------------------|
| Connector No.   | M4               |
| Connector Name  | FUSE BLOCK (J/B) |
| Connector Color | WHITE            |



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

|                 |              |
|-----------------|--------------|
| Connector No.   | M6           |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |



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

|                 |              |
|-----------------|--------------|
| Connector No.   | M8           |
| Connector Name  | WIRE TO WIRE |
| Connector Color | BROWN        |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4P           | G/B           | -           |
| 15P          | W/R           | -           |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6            | W             | -           |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1            | SB            | -           |
| 4            | P             | -           |
| 5            | Y             | -           |
| 6            | P             | -           |
| 9            | B             | -           |
| 10           | O             | -           |
| 11           | R             | -           |
| 12           | LG            | -           |

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



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

|                 |              |
|-----------------|--------------|
| Connector No.   | M17          |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |



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

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



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7            | LG            | -           |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7            | Y             | -           |
| 15           | W             | -           |
| 16           | P             | -           |

| Terminal No. | Color of Wire | Signal Name  |
|--------------|---------------|--------------|
| 11           | G/B           | ACC SW       |
| 12           | LG            | DOOR SW (AS) |
| 38           | W/R           | IGN SW       |

ABK1A1914GB

# POWER WINDOW SYSTEM

< WIRING DIAGRAM >

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

|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 50 | 51 | 52 | 53 | 54 | 55 |    |    |    |



| Terminal No. | Color of Wire | Signal Name  |
|--------------|---------------|--------------|
| 47           | GR            | DOOR SW (DR) |

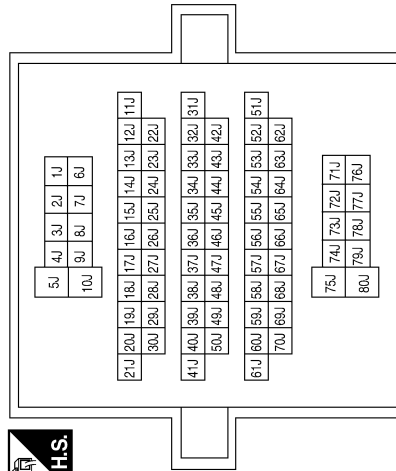
|                 |                           |
|-----------------|---------------------------|
| Connector No.   | M20                       |
| Connector Name  | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK                     |

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



| Terminal No. | Color of Wire | Signal Name                                      |
|--------------|---------------|--------------------------------------------------|
| 67           | B             | GND (POWER)                                      |
| 68           | O             | POWER WINDOW POWER SUPPLY OUTPUT (LINKED TO RAP) |
| 70           | W             | BAT (F/L)                                        |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10J          | W             | -           |
| 61J          | GR            | -           |
| 75J          | R             | -           |
| 80J          | LG            | -           |

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



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5            | W             | -           |
| 8            | P             | -           |
| 9            | SB            | -           |

# POWER WINDOW SYSTEM

< WIRING DIAGRAM >

|                 |              |
|-----------------|--------------|
| Connector No.   | E10          |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6            | W             | -           |

|                 |              |
|-----------------|--------------|
| Connector No.   | B6           |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6            | W             | -           |
| 7            | R             | -           |
| 8            | LG            | -           |
| 9            | B             | -           |

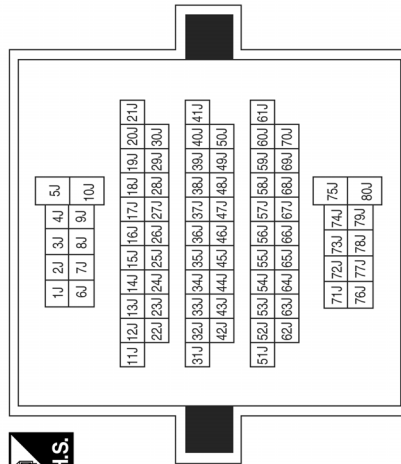
|                 |                      |
|-----------------|----------------------|
| Connector No.   | B8                   |
| Connector Name  | FRONT DOOR SWITCH LH |
| Connector Color | WHITE                |

|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2            | GR            | -           |

|                 |              |
|-----------------|--------------|
| Connector No.   | B69          |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |



ABK1A1937GB

|                 |              |
|-----------------|--------------|
| Connector No.   | B106         |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6            | W             | -           |
| 7            | Y             | -           |
| 8            | P             | -           |
| 9            | B             | -           |

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

PWC

# POWER WINDOW SYSTEM

## < WIRING DIAGRAM >

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



|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2            | LG            | -           |

|                 |              |
|-----------------|--------------|
| Connector No.   | B162         |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7            | LG            | -           |

|                 |              |
|-----------------|--------------|
| Connector No.   | B163         |
| Connector Name  | WIRE TO WIRE |
| Connector Color | WHITE        |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7            | Y             | -           |
| 15           | W             | -           |
| 16           | P             | -           |

|                 |              |
|-----------------|--------------|
| Connector No.   | D2           |
| Connector Name  | WIRE TO WIRE |
| Connector Color | BROWN        |



|   |   |   |             |    |    |
|---|---|---|-------------|----|----|
| 1 | 2 | 3 | <div></div> | 4  | 5  |
| 6 | 7 | 8 | 9           | 10 | 11 |
|   |   |   |             |    | 12 |

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



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

|                 |                             |
|-----------------|-----------------------------|
| Connector No.   | D9                          |
| Connector Name  | FRONT POWER WINDOW MOTOR LH |
| Connector Color | BROWN                       |



|   |   |
|---|---|
| 1 | 2 |
|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1            | G/Y           | -           |
| 4            | R             | -           |
| 5            | G/B           | -           |
| 6            | L/W           | -           |
| 9            | B             | -           |
| 10           | W/R           | -           |
| 11           | R/B           | -           |
| 12           | R/Y           | -           |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2            | G/Y           | -           |
| 3            | L/W           | -           |
| 5            | W/R           | -           |
| 6            | G/R           | -           |
| 7            | G/W           | -           |
| 8            | G/B           | -           |
| 9            | R             | -           |
| 14           | B             | -           |
| 15           | R/B           | -           |
| 16           | R/Y           | -           |

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

ABK1A1915GB

# POWER WINDOW SYSTEM

< WIRING DIAGRAM >

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

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



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

|                 |                             |
|-----------------|-----------------------------|
| Connector No.   | D104                        |
| Connector Name  | FRONT POWER WINDOW MOTOR RH |
| Connector Color | BROWN                       |



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

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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5            | W/R           | -           |
| 8            | L/W           | -           |
| 9            | G/Y           | -           |

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



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

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

|   |             |   |   |
|---|-------------|---|---|
| 1 | <div></div> | 2 | 3 |
| 4 | 5           | 6 | 7 |
|   |             | 8 |   |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2            | B             | -           |
| 4            | LG            | -           |
| 5            | R             | -           |
| 6            | Y             | -           |
| 7            | L             | -           |
| 8            | W             | -           |

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

|    |    |             |   |   |   |   |
|----|----|-------------|---|---|---|---|
| 5  | 4  | <div></div> | 3 | 2 | 1 |   |
| 12 | 11 | 10          | 9 | 8 | 7 | 6 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6            | W             | -           |
| 7            | LG            | -           |
| 8            | R             | -           |
| 9            | B             | -           |

ABKIA0559GB

# POWER WINDOW SYSTEM

## < WIRING DIAGRAM >

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



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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2            | B             | -           |
| 4            | LG            | -           |
| 5            | R             | -           |
| 6            | Y             | -           |
| 7            | L             | -           |
| 8            | W             | -           |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6            | W             | -           |
| 7            | LG            | -           |
| 8            | R             | -           |
| 9            | B             | -           |

ABK1A1916GB



# 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:000000007360695

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

Check BCM power supply and ground circuit.  
Refer to [PWC-9, "BCM : Diagnosis Procedure"](#).

Is the inspection result normal?

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

#### 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window switch.  
Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 3
- NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

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

Check power window switch main power supply and ground circuit.  
Refer to [PWC-10, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).
- NO >> Repair or replace the malfunctioning parts.

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PWC

# DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

---

## DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000007360696

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

---

Check main power window switch.

Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-59, "Removal and Installation"](#).

#### 2. CHECK FRONT POWER WINDOW MOTOR LH

---

Check front power window motor LH.

Refer to [PWC-20, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

# FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000007360697

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

Check power window and door lock/unlock switch RH.

Refer to [PWC-15, "FRONT POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

#### 3. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH circuit.

Refer to [PWC-21, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

PWC

# REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000007360698

#### 1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-16, "REAR POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

#### 3. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-23, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

# REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000007360699

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

Check rear power window switch RH.

Refer to [PWC-16, "REAR POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-13, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

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

Check rear power window motor RH.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

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PWC

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

< SYMPTOM DIAGNOSIS >

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

### Diagnosis Procedure

INFOID:000000007360700

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

Replace main power window and door lock/unlock switch and check operation. Refer to [PWC-59, "Removal and Installation"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

# POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

## POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

### Diagnosis Procedure

INFOID:000000007360701

#### 1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [PWC-27. "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37. "Intermittent Incident"](#).

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## POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

---

### POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

#### Diagnosis Procedure

INFOID:0000000007360702

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

---

Replace main power window and door lock/unlock switch and check operation.

Refer to [PWC-59, "Removal and Installation"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).



# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000007360703

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

#### **WARNING:**

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

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

#### **WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution for Work

INFOID:000000007360704

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

# PREPARATION

< PREPARATION >

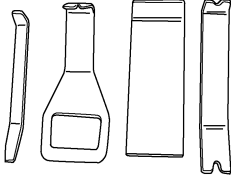
## PREPARATION

### PREPARATION

#### Special Service Tool

INFOID:000000007360705

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

| Tool number<br>(Kent-Moore No.)<br>Tool name                                                                                                  | Description              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <p>—<br/>(J-46534)<br/>Trim tool set</p>  <p>AWJIA0483ZZ</p> | Removing trim components |

# POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### POWER WINDOW MAIN SWITCH

#### Removal and Installation

INFOID:000000007360706

#### REMOVAL

1. Using a suitable tool, release the metal clip and pawls, then lift the main power window and door lock/unlock switch (1) from the front door finisher LH.

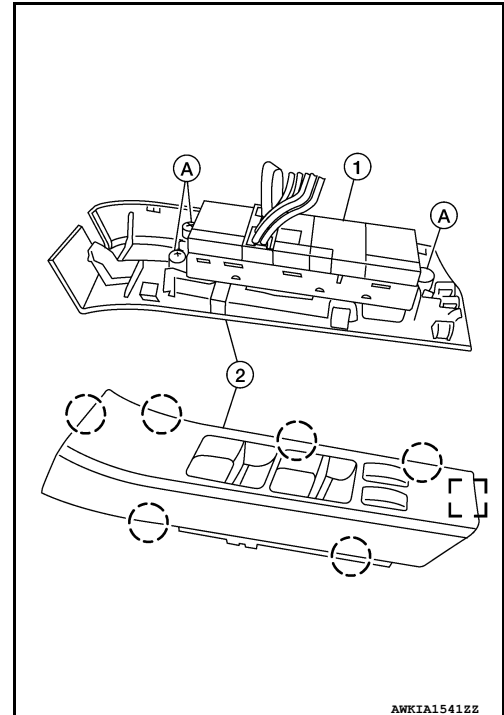
□: Metal clip

○: Pawl

#### CAUTION:

**Wrap a cloth around suitable tool to protect components from damage.**

2. Disconnect the harness connectors, then remove the assembly from the door finisher.
3. Remove the three screws (A) from the main power window and door lock/unlock switch (1), then separate it from the finisher (2).



#### INSTALLATION

Installation is in the reverse order of removal.

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# FRONT POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

## FRONT POWER WINDOW SWITCH

### Removal and Installation

INFOID:000000007360707

#### REMOVAL

1. Using a suitable tool, release the metal clip and pawls, then lift the front power window and door lock/unlock switch (1) from the front door finisher RH.

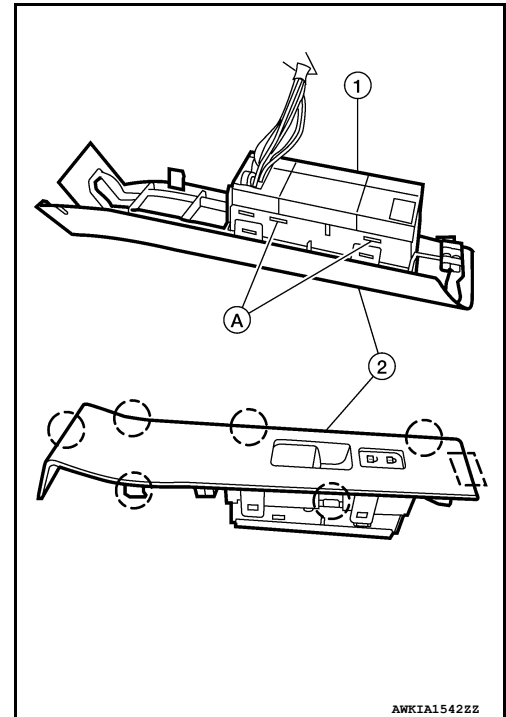
□: Metal clip

○: Pawl

#### CAUTION:

**Wrap a cloth around suitable tool to protect components from damage.**

2. Disconnect the harness connectors, then remove the assembly from the door finisher.
3. Release the four tabs (A), two on each side, then separate the front power window and door lock/unlock switch (1) from the finisher (2).



#### INSTALLATION

Installation is in the reverse order of removal.

# REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

## REAR POWER WINDOW SWITCH

### Removal and Installation - Rear Door Switch

INFOID:000000007360708

#### REMOVAL

1. Using a suitable tool, release the metal clip and pawls, then lift the rear power window switch and finisher (2) upward as an assembly from the rear door finisher.

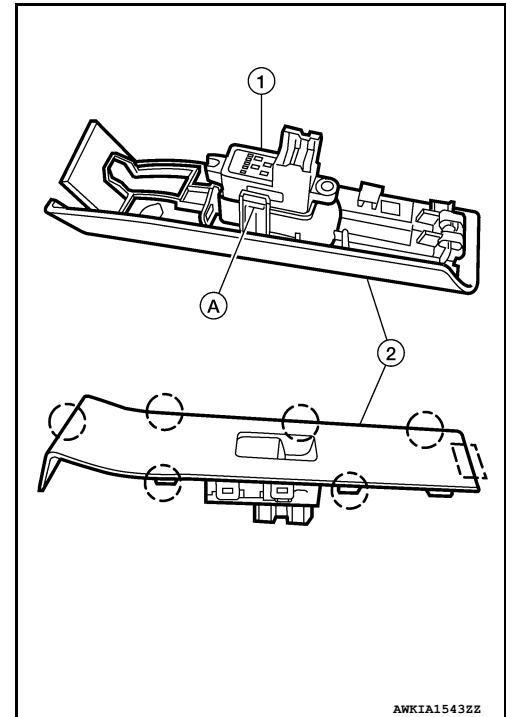
○: Pawl

□: Metal clip

#### CAUTION:

**Wrap a cloth around suitable tool to protect components from damage.**

2. Disconnect the harness connectors, then remove the assembly from the door finisher.
3. Release the two tabs (A), one on either side, then separate the rear power window switch (1) from the switch finisher (2).



#### INSTALLATION

Installation is in the reverse order of removal.

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