

SECTION **PWC**

POWER WINDOW CONTROL SYSTEM

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:000000007071866

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment (including luggage room) during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

Point to Be Checked Before Starting Maintenance Work

INFOID:000000007079431

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.

NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

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

INFOID:000000006923038

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

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system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 “SRS AIR BAG”.
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the power switch ON, never 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 power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

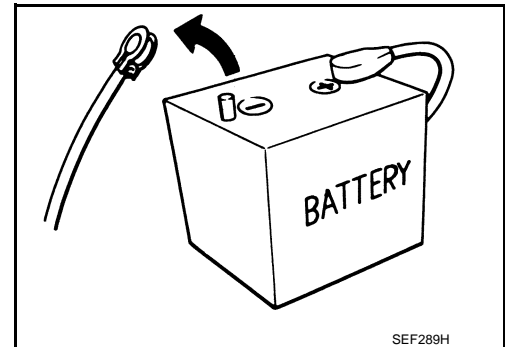
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- When removing the 12V battery terminal, turn OFF the power switch and wait at least 5 minutes.

NOTE:

ECU may be active for several minutes after the power switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- Always disconnect the battery terminal within 60 minutes after turning OFF the power switch. Even when the power switch is OFF, the 12V battery automatic charge control may automatically start after a lapse of 60 minutes from power switch OFF.
- Disconnect 12V battery terminal according to the following steps.



WORK PROCEDURE

1. Check that EVSE is not connected.

NOTE:

If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.

2. Turn the power switch OFF → ON → OFF. Get out of the vehicle. Close all doors (including back door).
3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more.

NOTE:

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

4. Remove 12V battery terminal within 60 minutes after turning the power switch OFF → ON → OFF.

CAUTION:

- After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.
- After turning the power switch OFF, if “Remote A/C” is activated by user operation, stop the air conditioner and start over from Step 1.

NOTE:

Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

PRECAUTIONS

< PRECAUTION >

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the power switch. A
NOTE:
If the power switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC. B
NOTE:
The removal of 12V battery may cause a DTC detection error. C

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COMPONENT PARTS

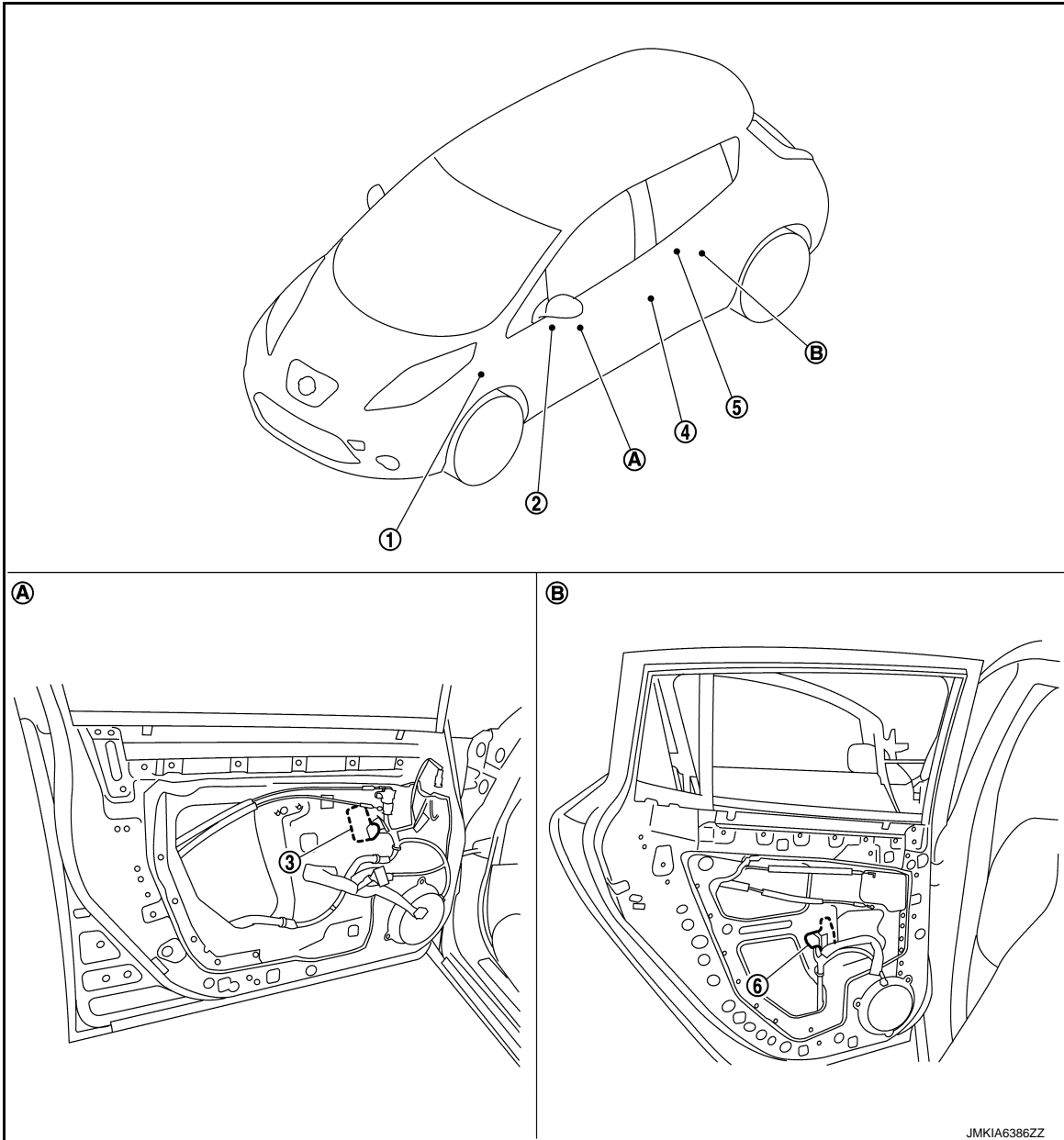
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000008166300



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

| No. | Component parts | Function |
|-----|--|--|
| 1. | BCM | <ul style="list-style-type: none"> Supplies power supply to power window switch Controls retained power Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location |
| 2. | Power window main switch | Refer to PWC-7, "Power Window Main Switch" |
| 3. | Front power window motor (driver side) | Refer to PWC-7, "Power Window Motor" |

COMPONENT PARTS

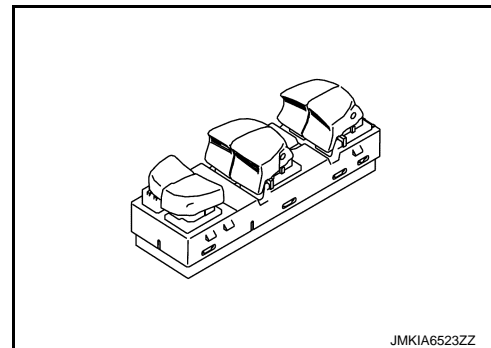
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| No. | Component parts | Function |
|-----|---------------------------------|---|
| 4. | Front door switch (driver side) | <ul style="list-style-type: none"> Inputs door open/close condition to BCM Refer to DLK-13. "Component Parts Location" for detailed installation location |
| 5. | Rear power window switch LH | Refer to PWC-7. "Power Window Switch" |
| 6. | Rear power window motor LH | Refer to PWC-7. "Power Window Motor" |

Power Window Main Switch

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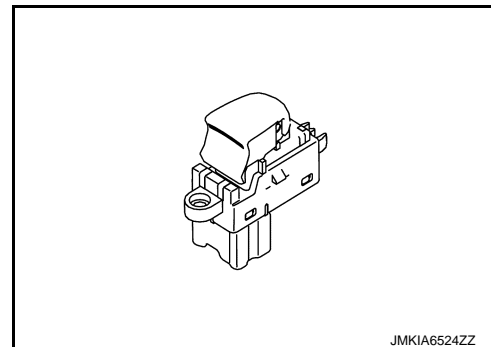
- Power window main switch controls all power windows.
- Power window main switch integrates UP/DOWN switch, power window lock switch, and door lock/unlock switch.
- Power window main switch controls power window lock function, AUTO UP/DOWN function, and anti-pinch function.



Power Window Switch

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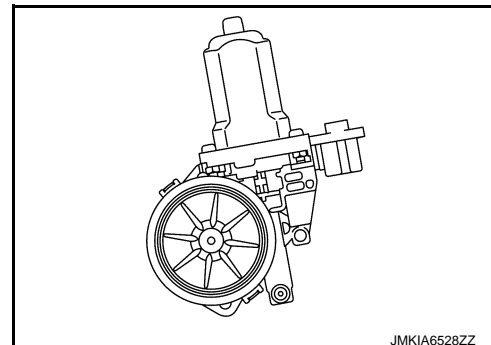
- Each power window switch transmits UP/DOWN signal to each motor.
- Each power window switch transmits UP/DOWN signal from power window main switch to each motor.



Power Window Motor

INFOID:000000007418360

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



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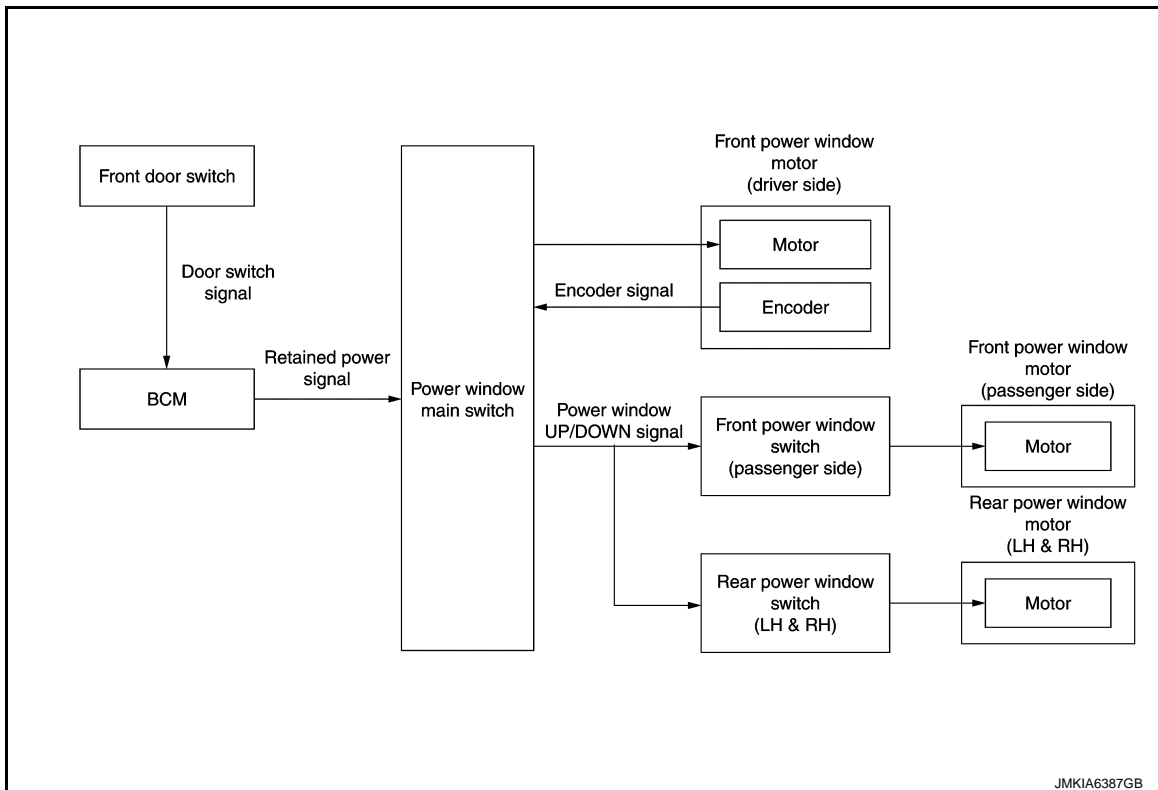
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SYSTEM

System Description

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SYSTEM DIAGRAM



POWER WINDOW OPERATION

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

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)

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

RETAINED POWER OPERATION

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

RETAINED POWER CANCEL CONDITIONS

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

POWER WINDOW LOCK

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

ANTI-PINCH SYSTEM (FRONT DRIVER SIDE)

- Pinch foreign material in the door glass during AUTO-UP operation, and it is the anti-pinch function that lowers the door glass 150 mm (5.9 in) when detected.
- Encoder continues detecting the movement of front power window motor (driver side) and transmits to power window main switch as the encoder pulse signal while front power window motor (driver side) is operating.

SYSTEM

< SYSTEM DESCRIPTION >

- Resistance is applied to the front power window motor (driver side) rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass. A
- Power window main switch controls to lower the window glass for 150 mm (5.9 in) after it detects encoder pulse signal frequency change.

OPERATION CONDITION

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

NOTE:

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

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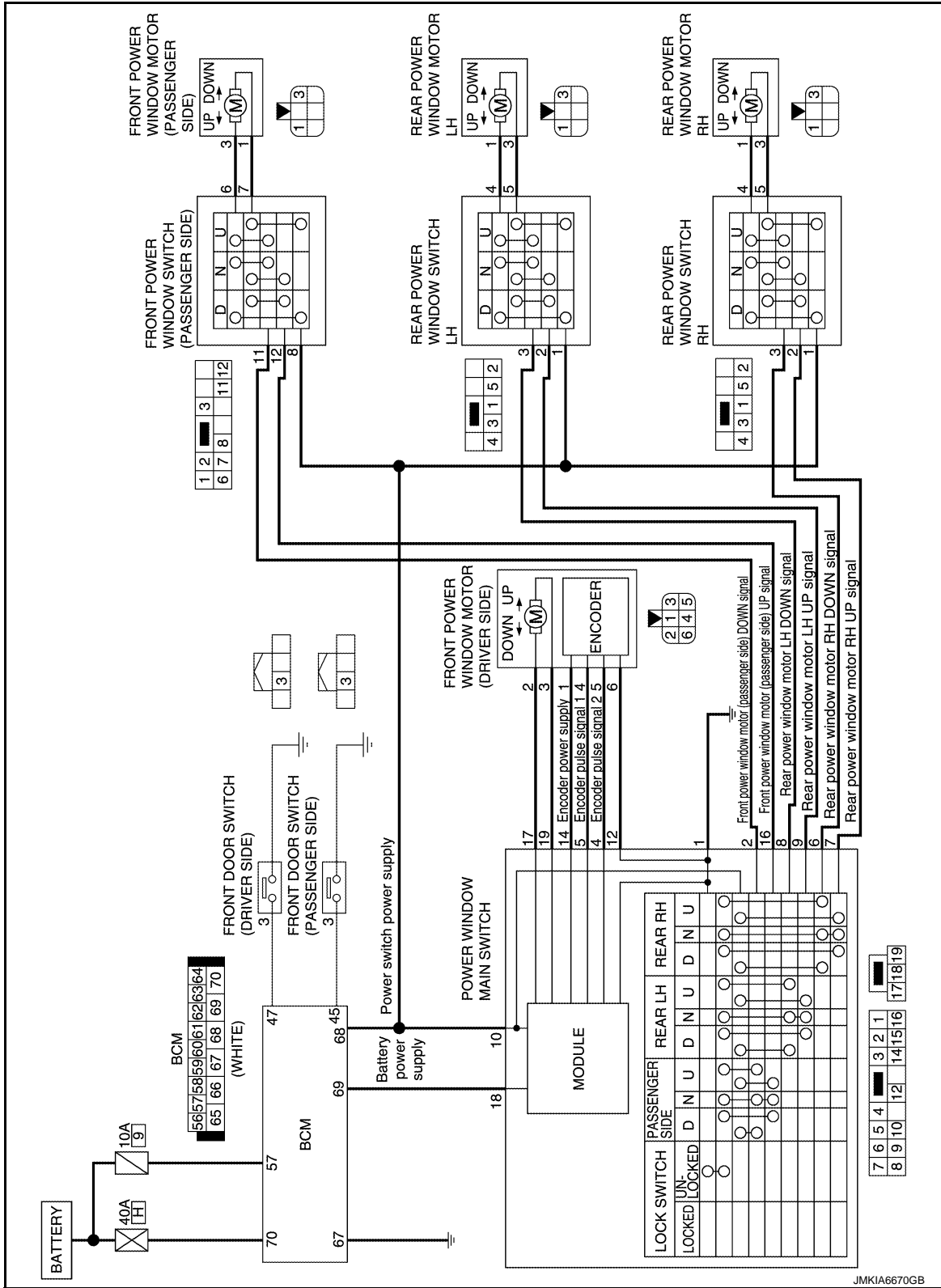
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SYSTEM

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Circuit Diagram

INFOID:000000006893884



JMKIA6670GB

Fail Safe

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FAIL-SAFE CONTROL

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

SYSTEM

< SYSTEM DESCRIPTION >

| Error | Error condition |
|--|--|
| Pulse sensor malfunction | When only one side of pulse signal is being detected for more than the specified value. |
| Both pulse sensors malfunction | When both pulse signals have not been detected for more than the specified value during glass open/close operation. |
| Pulse direction malfunction | When the pulse signal that is detected during glass open/close operation detects the opposite condition of power window motor operating direction. |
| Glass recognition position malfunction 1 | When it detects the error between glass fully closed position in power window switch memory and actual fully closed position during glass open/close operation is more than the specified value. |
| Glass recognition position malfunction 2 | When it detects pulse count more than the value of glass full stroke during glass open/close operation. |

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

- Auto-up operation
- Anti-pinch function

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Diagnosis mode | Function Description |
|--------------------------|---|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Ecu Identification | The BCM part number is displayed. |
| Configuration | <ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM. |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

| System | Sub system selection item | Diagnosis mode | | |
|--------------------------------------|---------------------------|----------------|--------------|-------------|
| | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp timer | INT LAMP | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | × | × | × |
| Turn signal and hazard warning lamps | FLASHER | × | × | × |
| — | AIR CONDITONER* | | × | × |
| Intelligent Key system | INTELLIGENT KEY | × | × | × |
| Combination switch | COMB SW | | × | |
| Body control system | BCM | × | | |
| NVIS - NATS | IMMU | × | × | × |
| Interior room lamp battery saver | BATTERY SAVER | × | × | × |
| Back door open | TRUNK | | × | |
| Theft warning alarm | THEFT ALM | × | × | × |
| RAP system | RETAINED PWR | | × | |
| Signal buffer system | SIGNAL BUFFER | | × | × |
| TPMS | AIR PRESSURE MONITOR | × | × | × |

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| CONSULT screen item | Indication/Unit | Description | |
|---------------------|--|--|---|
| Vehicle Speed | km/h | Vehicle speed of the moment a particular DTC is detected | |
| Odo/Trip Meter | km | Total mileage (Odometer value) of the moment a particular DTC is detected | |
| Vehicle Condition | SLEEP>LOCK | Power supply position status of the moment a particular DTC is detected* | While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)] |
| | SLEEP>OFF | | While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)] |
| | LOCK>ACC | | While turning power supply position from OFF (LOCK) to ACC |
| | ACC>ON | | While turning power supply position from ACC to ON |
| | RUN>ACC | | While turning power supply position from READY (RUN) to ACC (Except emergency stop operation) |
| | CRANK>RUN | | While turning power supply position from READY (CRANK) to READY (RUN) |
| | RUN>URGENT | | While turning power supply position from READY (RUN) to ACC (Emergency stop operation) |
| | ACC>OFF | | While turning power supply position from ACC to OFF (OFF) |
| | OFF>LOCK | | While turning power supply position from OFF (OFF) to OFF (LOCK) |
| | OFF>ACC | | While turning power supply position from OFF (OFF) to ACC |
| | ON>CRANK | | While turning power supply position from ON to READY (CRANK) |
| | OFF>SLEEP | | While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode |
| | LOCK>SLEEP | | While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode |
| | LOCK | | Power supply position is OFF (LOCK) |
| | OFF | | Power supply position is OFF (OFF) |
| | ACC | | Power supply position is ACC |
| | ON | | Power supply position is ON |
| ENGINE RUN | Power supply position is READY (RUN) | | |
| CRANKING | Power supply position is READY (CRANK) | | |
| IGN Counter | 0 - 39 | The number of times that power switch is turned ON after DTC is detected <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever power switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. | |

NOTE:

*: Refer to the following for details of the power supply position.

- OFF (OFF, LOCK): Power switch OFF
- ACC: Power switch ACC
- ON: Power switch ON
- READY (CRANK): Shifting to vehicle condition READY (Transmitting the READY signal from BCM to VCM)
- READY (RUN): Vehicle condition READY

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when power switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the power switch (push switch) is pushed at "OFF (LOCK)".

RETAINED PWR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:000000006952200

DATA MONITOR

| Monitor Item | Description |
|--------------|---|
| DOOR SW-DR | Indicates [ON/OFF] condition of driver side door switch. |
| DOOR SW-AS | Indicates [ON/OFF] condition of passenger side door switch. |

BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000006825045

| ECU | Reference |
|-----|---|
| BCM | BCS-33, "Reference Value" |
| | BCS-53, "Fail-safe" |
| | BCS-54, "DTC Inspection Priority Chart" |
| | BCS-55, "DTC Index" |

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POWER WINDOW MAIN SWITCH

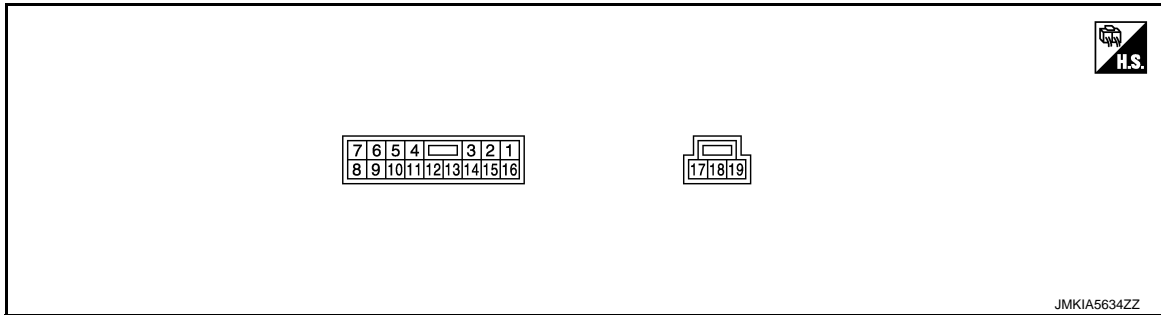
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POWER WINDOW MAIN SWITCH

Reference Value

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TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW MAIN SWITCH

| Terminal No. (Wire color) | | Description | | Condition | Voltage (V) |
|------------------------------|--------|---|------------------|---|-----------------|
| + | - | Signal name | Input/ Output | | |
| 1 (B) | Ground | Ground | — | — | 0 – 1 |
| 2 (SB) | Ground | Front power window motor (passenger side) DOWN signal | Output | When front RH switch in power window main switch is DOWN at operated. | 9 – 16 |
| 4 (W) | Ground | Encoder pulse signal 2 | Input | When front power window motor (driver side) operates. | JMkia0070GB |
| 5 (Y) | Ground | Encoder pulse signal 1 | Input | When front power window motor (driver side) operates. | JMkia0070GB |
| 6 (Y) | Ground | Rear power window motor RH DOWN signal | Output | When rear RH switch in power window main switch is DOWN at operated. | 9 – 16 |
| 7 (LG) | Ground | Rear power window motor RH UP signal | Output | When rear RH switch in power window main switch is UP at operated. | 9 – 16 |
| 8 (BR) | Ground | Rear power window motor LH DOWN signal | Output | When rear LH switch in power window main switch is DOWN at operated. | 9 – 16 |
| 9 (P) | Ground | Rear power window motor LH UP signal | Output | When rear LH switch in power window main switch is UP at operated. | 9 – 16 |

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Voltage (V) |
|------------------------------|--------|--|------------------|---|-------------|
| + | - | Signal name | Input/ Output | | |
| 10 (V) | Ground | Power switch power supply | Input | Power switch ON | 9 – 16 |
| | | | | Other than above | 0 – 1 |
| 12 (R) | Ground | Encoder ground | — | — | 0 – 1 |
| 14 (G) | Ground | Encoder power supply | Output | Power switch ON | 9 – 16 |
| 16 (W) | Ground | Front power window motor (passenger side) UP signal | Output | When front RH switch in power window main switch is UP at operated. | 9 – 16 |
| 17 (R) | Ground | Front power window motor (driver side) UP signal | Output | When front LH switch in power window main switch is UP at operated. | 9 – 16 |
| 18 (R) | Ground | Battery power supply | Input | Power switch OFF | 9 – 16 |
| 19 (GR) | Ground | Front power window motor (driver side) DOWN signal | Output | When front LH switch in power window main switch is DOWN at operated. | 9 – 16 |

Fail Safe

INFOID:000000006825047

FAIL-SAFE CONTROL

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

| Error | Error condition |
|--|--|
| Pulse sensor malfunction | When only one side of pulse signal is being detected for more than the specified value. |
| Both pulse sensors malfunction | When both pulse signals have not been detected for more than the specified value during glass open/close operation. |
| Pulse direction malfunction | When the pulse signal that is detected during glass open/close operation detects the opposite condition of power window motor operating direction. |
| Glass recognition position malfunction 1 | When it detects the error between glass fully closed position in power window switch memory and actual fully closed position during glass open/close operation is more than the specified value. |
| Glass recognition position malfunction 2 | When it detects pulse count more than the value of glass full stroke during glass open/close operation. |

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

- Auto-up operation
- Anti-pinch function

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

POWER WINDOW SYSTEM

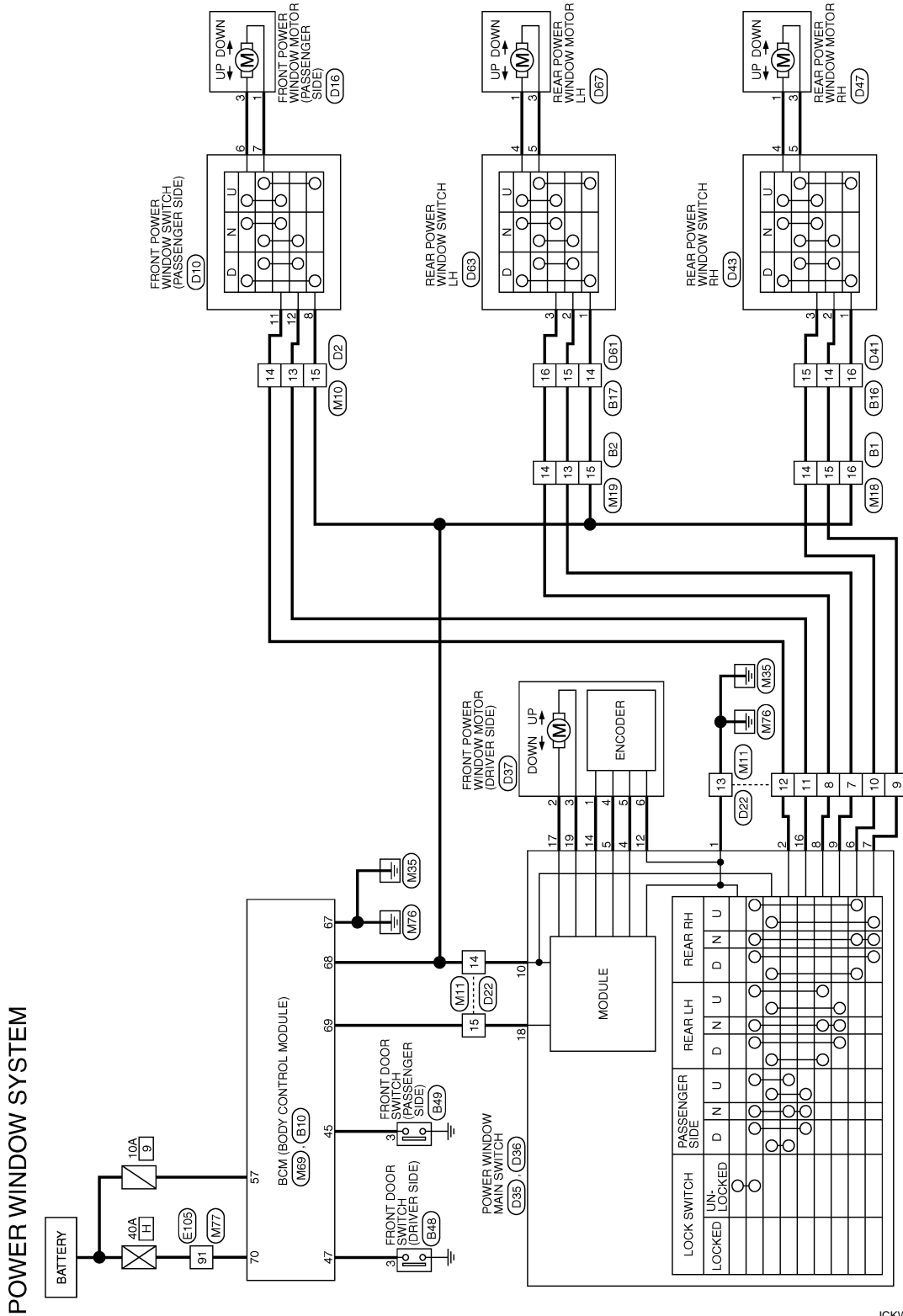
< WIRING DIAGRAM >

WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram

INFOID:000000006825048



2010/10/29

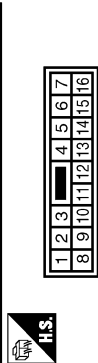
JCKWA3719GB

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

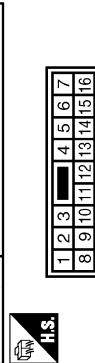
POWER WINDOW SYSTEM

| | |
|----------------|--------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |



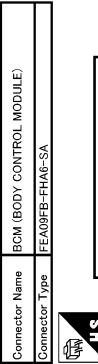
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | R | - |
| 3 | BR | - |
| 4 | P | - |
| 5 | GR | - |
| 6 | W | - |
| 7 | LG | - |
| 8 | V | - |
| 9 | R | - |
| 10 | W | - |
| 11 | LG | - |
| 12 | P | - |
| 13 | V | - |
| 14 | Y | - |
| 15 | W | - |
| 16 | L | - |

| | |
|----------------|--------------|
| Connector No. | B2 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |



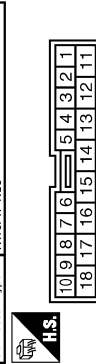
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | V | - |
| 7 | V | - |
| 8 | P | - |
| 9 | GR | - |
| 10 | SB | - |
| 11 | V | - |
| 12 | LG | - |
| 13 | V | - |
| 14 | GR | - |
| 15 | L | - |

| | |
|----------------|---|
| Connector No. | G |
| Connector Name | - |
| Connector Type | - |



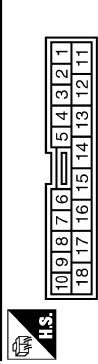
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | Y | BACK DOOR SW |
| 44 | LG | REAR WIPER STOP POSITION |
| 45 | BR | PASSENGER DOOR SW |
| 46 | R | REAR RH DOOR SW |
| 47 | SB | DRIVER DOOR SW |
| 48 | W | REAR LH DOOR SW |
| 49 | L | LUGGAGE LAMP OUTPUT |
| 51 | P | BACK DOOR REQ SW |
| 53 | GR | BK DOOR OPEN OUTPUT |
| 54 | P | REAR WIPER OUTPUT |
| 55 | GR | PASS. RR DOOR UNLK OUTPUT |

| | |
|----------------|--------------|
| Connector No. | B16 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS |



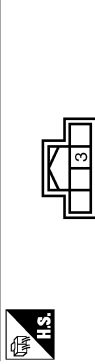
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | - |
| 2 | P | - |
| 11 | G | - |
| 12 | R | - |
| 14 | W | - |
| 15 | Y | - |
| 16 | L | - |

| | |
|----------------|--------------|
| Connector No. | B17 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |



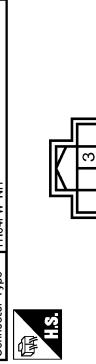
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | LG | - |
| 11 | GR | - |
| 12 | V | - |
| 14 | L | - |
| 15 | V | - |
| 16 | GR | - |

| | |
|----------------|---------------------------------|
| Connector No. | B48 |
| Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) |
| Connector Type | TH04FW-NH |



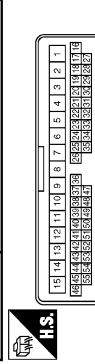
| | |
|-----------------------------|----|
| Terminal No. | 3 |
| Color of Wire | SB |
| Signal Name [Specification] | - |

| | |
|----------------|------------------------------------|
| Connector No. | B49 |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) |
| Connector Type | TH04FW-NH |



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

| | |
|----------------|--------------|
| Connector No. | D2 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-C515 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | - |
| 2 | R | - |
| 3 | Y | - |
| 4 | V | - |
| 10 | BR | - |
| 11 | Y | - |
| 12 | B | - |
| 13 | W | - |
| 14 | SB | - |
| 15 | R | - |
| 24 | Y | - |
| 25 | BR | - |
| 26 | SHIELD | - |
| 36 | B | - |
| 37 | P | - |
| 38 | Y | - |
| 39 | LG | - |
| 44 | V | - |
| 45 | W | - |
| 46 | EG | - |
| 52 | B | - |
| 53 | P | - |

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

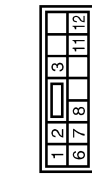
PWC

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM

| | |
|----------------|--|
| Connector No. | D10 |
| Connector Name | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) |
| Connector Type | NS12FW-CS |



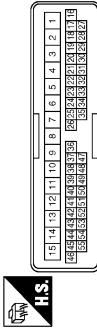
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | BR | - |
| 3 | B | - |
| 6 | Y | - |
| 7 | R | - |
| 8 | R | - |
| 11 | SB | - |
| 12 | W | - |

| | |
|----------------|---|
| Connector No. | D16 |
| Connector Name | FRONT POWER WINDOW MOTOR (PASSENGER SIDE) |
| Connector Type | RS06FG |



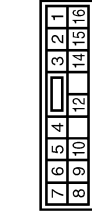
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | R | - |
| 3 | Y | - |

| | |
|----------------|--------------|
| Connector No. | D22 |
| Connector Name | WIRE TO WIRE |
| Connector Type | T14GFV-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | V | - |
| 3 | SB | - |
| 4 | Y | - |
| 5 | W | - |
| 6 | Y | - |
| 7 | P | - |
| 8 | BR | - |
| 9 | LG | - |
| 10 | Y | - |
| 11 | W | - |
| 12 | SB | - |
| 13 | B | - |
| 14 | V | - |
| 15 | R | - |
| 24 | R | - |
| 25 | G | - |
| 26 | SHIELD | - |
| 37 | LG | - |
| 38 | V | - |
| 39 | P | - |
| 40 | Y | - |
| 41 | GR | - |
| 42 | V | - |
| 43 | L | - |
| 44 | L | - |
| 45 | LG | - |
| 46 | BR | - |
| 47 | G | - |
| 48 | L | - |
| 49 | R | - |
| 50 | BR | - |
| 53 | P | - |

| | |
|----------------|--------------------------|
| Connector No. | D35 |
| Connector Name | POWER WINDOW MAIN SWITCH |
| Connector Type | NS18FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | SB | - |
| 3 | Y | - |
| 4 | W | - |
| 5 | Y | - |
| 6 | Y | - |
| 7 | LG | - |
| 8 | BR | - |
| 9 | P | - |
| 10 | V | - |
| 12 | R | - |
| 14 | G | - |
| 15 | BR | - |
| 16 | W | - |

| | |
|----------------|--------------------------|
| Connector No. | D36 |
| Connector Name | POWER WINDOW MAIN SWITCH |
| Connector Type | NS03FW-CS |



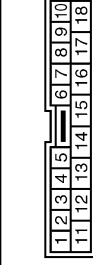
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 17 | R | - |
| 18 | R | - |
| 19 | GR | - |

| | |
|----------------|--|
| Connector No. | D37 |
| Connector Name | FRONT POWER WINDOW MOTOR (DRIVER SIDE) |
| Connector Type | RS06FG |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | R | - |
| 3 | GR | - |
| 4 | Y | - |
| 5 | W | - |
| 6 | R | - |

| | |
|----------------|--------------|
| Connector No. | D41 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS5 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | - |
| 2 | P | - |
| 11 | G | - |
| 12 | V | - |
| 14 | LG | - |
| 15 | Y | - |
| 16 | L | - |

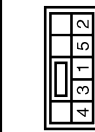
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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

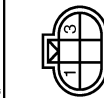
POWER WINDOW SYSTEM

| | |
|----------------|-----------------------------|
| Connector No. | D43 |
| Connector Name | REAR POWER WINDOW SWITCH RH |
| Connector Type | NS08FW-CS |



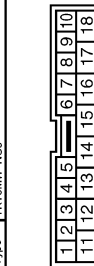
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | LG | - |
| 3 | Y | - |
| 4 | G | - |
| 5 | R | - |

| | |
|----------------|----------------------------|
| Connector No. | D47 |
| Connector Name | REAR POWER WINDOW MOTOR RH |
| Connector Type | RS08FG |



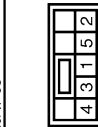
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 3 | R | - |

| | |
|----------------|--------------|
| Connector No. | D61 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS8 |



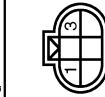
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | LG | - |
| 11 | G | - |
| 12 | V | - |
| 14 | L | - |
| 15 | BR | - |
| 16 | Y | - |

| | |
|----------------|-----------------------------|
| Connector No. | D63 |
| Connector Name | REAR POWER WINDOW SWITCH LH |
| Connector Type | NS08FW-CS |



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

| | |
|----------------|----------------------------|
| Connector No. | D67 |
| Connector Name | REAR POWER WINDOW MOTOR LH |
| Connector Type | RS08FG |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 3 | R | - |

| | |
|----------------|------------------|
| Connector No. | E105 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK02MW-CS1.6-TM4 |



| Terminal No. | Color | Signal Name [Specification] |
|--------------|-------|-----------------------------|
| 1 | BR | - |
| 2 | R | - |
| 3 | GR | - |
| 4 | LG | - |
| 6 | W | - |
| 7 | Y | - |
| 8 | P | - |
| 9 | G | - |
| 10 | R | - |
| 11 | O | - |
| 12 | W | - |
| 13 | B | - |
| 14 | Y | - |
| 15 | BR | - |
| 16 | LG | - |
| 17 | L | - |
| 19 | G | - |
| 20 | V | - |
| 21 | P | - |
| 22 | LG | - |
| 23 | GR | - |
| 24 | L | - |
| 25 | R | - |
| 26 | SB | - |
| 27 | B | - |
| 28 | BR | - |
| 30 | W | - |
| 31 | V | - |
| 32 | LG | - |
| 33 | O | - |
| 34 | L | - |
| 35 | BR | - |
| 38 | SB | - |
| 39 | GR | - |
| 40 | Y | - |
| 41 | R | - |
| 42 | W | - |
| 43 | SB | - |

| | | |
|----|--------|---|
| 44 | GR | - |
| 45 | G | - |
| 46 | P | - |
| 47 | LG | - |
| 48 | V | - |
| 49 | G | - |
| 50 | L | - |
| 51 | W | - |
| 54 | P | - |
| 55 | O | - |
| 56 | Y | - |
| 57 | P | - |
| 58 | LG | - |
| 60 | LG | - |
| 61 | GR | - |
| 62 | BR | - |
| 63 | O | - |
| 64 | R | - |
| 65 | Y | - |
| 66 | G | - |
| 67 | O | - |
| 68 | G | - |
| 69 | W | - |
| 70 | SB | - |
| 71 | Y | - |
| 72 | L | - |
| 73 | R | - |
| 74 | L | - |
| 75 | V | - |
| 76 | P | - |
| 80 | O | - |
| 81 | L | - |
| 82 | SB | - |
| 83 | G | - |
| 84 | BR | - |
| 85 | LG | - |
| 86 | GR | - |
| 88 | B | - |
| 89 | W | - |
| 90 | SHIELD | - |
| 91 | Y | - |
| 92 | BR | - |
| 93 | W | - |
| 94 | R | - |
| 95 | V | - |
| 96 | P | - |
| 97 | G | - |
| 98 | SB | - |
| 99 | O | - |

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM

| | |
|----------------|--------------|
| Connector No. | M10 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |

| | | | | | | | | | | | | | | | |
|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Terminal No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Color of Wire | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR |
| Signal Name [Specification] | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|----|---|----|----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----|--------|----|----|----|----|
| Terminal No. | 1 | 2 | 3 | 4 | 10 | 11 | 12 | 13 | 14 | 15 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 53 |
| Color of Wire | R | G | LG | V | BR | Y | B | W | SB | L | R | G | SHIELD | LG | V | P | BR | Y | B | W | SB | L | R | G | BR | SHIELD | B | P | Y | LG | L | LG | BR | SHIELD | GR | R | BR | V |
| Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|----------------|--------------|
| Connector No. | M11 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |

| | | | | | | | | | | | | | | | |
|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Terminal No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Color of Wire | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR | BR |
| Signal Name [Specification] | | | | | | | | | | | | | | | |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6 | V | |
| 7 | P | |
| 8 | P | |
| 9 | B | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|----|---|----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Terminal No. | 1 | 2 | 3 | 4 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 53 |
| Color of Wire | P | L | G | V | BR | Y | LG | W | SB | B | L | R | G | SHIELD | LG | V | P | BR | Y | B | W | SB | L | R | G | BR | SHIELD | B | P | Y | LG | L | LG | BR | SHIELD | GR | R | BR | V | | | | | | | | | |
| Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|----------------|--------------|
| Connector No. | M18 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS18FW-CS |

| | | | | | | | |
|-----------------------------|----|----|----|----|----|----|----|
| Terminal No. | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Color of Wire | BR | BR | BR | BR | BR | BR | BR |
| Signal Name [Specification] | | | | | | | |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | G | |
| 6 | V | |
| 7 | P | |
| 8 | P | |
| 9 | B | |

| | | | |
|-----------------------------|----|----|---|
| Terminal No. | 10 | W | - |
| Color of Wire | LG | GR | - |
| Signal Name [Specification] | | | |
| Terminal No. | 12 | W | - |
| Color of Wire | BR | Y | - |
| Signal Name [Specification] | | | |
| Terminal No. | 14 | Y | - |
| Color of Wire | LG | L | - |
| Signal Name [Specification] | | | |
| Terminal No. | 18 | L | - |
| Color of Wire | | | |
| Signal Name [Specification] | | | |

| | |
|----------------|--------------|
| Connector No. | M19 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS18FW-CS |

| | | | | | | | |
|-----------------------------|----|----|----|----|----|----|----|
| Terminal No. | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Color of Wire | BR | BR | BR | BR | BR | BR | BR |
| Signal Name [Specification] | | | | | | | |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 4 | BR | |
| 7 | V | |
| 8 | P | |
| 9 | L | |
| 10 | V | |
| 11 | V | |
| 12 | R | |
| 13 | BR | |
| 14 | Y | |
| 15 | L | |
| 16 | G | |

| | |
|----------------|---------------------------|
| Connector No. | M89 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA08FW-FHAG-SA |

| | | | | | |
|-----------------------------|----|----|----|----|----|
| Terminal No. | 66 | 67 | 68 | 69 | 70 |
| Color of Wire | BR | BR | BR | BR | BR |
| Signal Name [Specification] | | | | | |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 56 | P | INT ROOM LAMP PWR SPLY |
| 57 | P | BAT.(FUSE) |

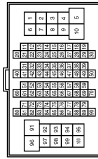
| | | | |
|-----------------------------|----|----------------------|-----------------------|
| Terminal No. | 59 | LG | PASS DOOR UNLK OUTPUT |
| Color of Wire | V | TURN SIG LH OUTPUT | |
| Signal Name [Specification] | W | TURN SIG RH OUTPUT | |
| Terminal No. | 61 | W | INT ROOM LAMP CONT |
| Color of Wire | BR | ALL DOOR LOCK OUTPUT | |
| Signal Name [Specification] | V | DR DOOR UNLK OUTPUT | |
| Terminal No. | 66 | G | GND |
| Color of Wire | B | PW PWR SPLY (ON) | |
| Signal Name [Specification] | L | PW PWR SPLY (BAT) | |
| Terminal No. | 68 | P | BAT (F/L) |
| Color of Wire | Y | | |
| Signal Name [Specification] | | | |

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM

| | |
|----------------|------------------|
| Connector No. | M77 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80PV-CS1.6-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | GR | - |
| 2 | V | - |
| 3 | GR | - |
| 4 | LG | - |
| 6 | W | - |
| 7 | V | - |
| 8 | P | - |
| 9 | SB | - |
| 10 | L | - |
| 11 | LG | - |
| 12 | W | - |
| 13 | R | - |
| 14 | Y | - |
| 15 | R | - |
| 16 | G | - |
| 17 | BR | - |
| 19 | G | - |
| 20 | G | - |
| 21 | P | - |
| 22 | LG | - |
| 23 | GR | - |
| 24 | L | - |
| 25 | Y | - |
| 26 | G | - |
| 27 | L | - |
| 28 | V | - |
| 30 | W | - |
| 31 | SB | - |
| 32 | LG | - |
| 33 | V | - |
| 34 | L | - |
| 35 | SB | - |
| 38 | LG | - |
| 39 | GR | - |
| 40 | Y | - |
| 41 | R | - |
| 42 | W | - |
| 43 | SB | - |

| | | |
|----|--------|---|
| 44 | GR | - |
| 45 | P | - |
| 46 | R | - |
| 47 | W | - |
| 48 | L | - |
| 49 | G | - |
| 50 | L | - |
| 51 | L | - |
| 54 | W | - |
| 55 | G | - |
| 56 | BR | - |
| 57 | P | - |
| 58 | R | - |
| 60 | Y | - |
| 61 | GR | - |
| 62 | SB | - |
| 63 | Y | - |
| 64 | G | - |
| 65 | V | - |
| 66 | P | - |
| 67 | Y | - |
| 68 | P | - |
| 69 | BR | - |
| 71 | Y | - |
| 72 | L | - |
| 73 | G | - |
| 74 | L | - |
| 75 | V | - |
| 76 | R | - |
| 80 | W | - |
| 81 | L | - |
| 82 | SB | - |
| 83 | R | - |
| 84 | BR | - |
| 85 | R | - |
| 86 | GR | - |
| 88 | R | - |
| 89 | W | - |
| 90 | SHIELD | - |
| 91 | Y | - |
| 92 | BR | - |
| 93 | W | - |
| 94 | P | - |
| 95 | V | - |
| 96 | P | - |
| 97 | G | - |
| 98 | R | - |
| 99 | LG | - |

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow

INFOID:000000006825049

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

ADDITIONAL SERVICE WHEN REMOVING 12V BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING 12V BATTERY NEGATIVE TERMINAL

Description

INFOID:000000006825050

When the 12V battery negative terminal is disconnected, the initialization is necessary for normal operation of power window system.

CAUTION:

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

- Auto-up operation
- Anti-pinch function

Work Procedure

INFOID:000000006825051

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to [PWC-27. "Work Procedure"](#).

>> GO TO 2.

2.CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to [PWC-28. "Work Procedure"](#).

>> END

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ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN SWITCH

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN SWITCH

Description

INFOID:000000006825052

When the power window main switch replaced, the initialization is necessary for normal operation of power window system.

CAUTION:

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

- Auto-up operation
- Anti-pinch function

Work Procedure

INFOID:000000006825053

1. SYSTEM INITIALIZATION

Perform system initialization. Refer to [PWC-27. "Work Procedure"](#).

>> GO TO 2.

2. CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to [PWC-28. "Work Procedure"](#).

>> END

SYSTEM INITIALIZATION

< BASIC INSPECTION >

SYSTEM INITIALIZATION

Description

INFOID:000000006825054

If any of the following operations are performed, the initialization is necessary for normal operation of power window system.

- Disconnection and connection of 12V battery cable from negative terminal.
- When power window main switch replaced.
- Electric power supply to power window main switch or power window motor (driver side) is interrupted by blown fuse or disconnection and connection of the negative terminal of 12V battery, etc.
- Disconnection and connection of power window main switch harness connector.
- Removal of power window motor (driver side) from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of glass.
- Removal and installation of door glass run.

CAUTION:

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

- **Auto-up operation**
- **Anti-pinch function**

Work Procedure

INFOID:000000006825055

1. STEP 1

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

>> GO TO 2.

2. STEP 2

Check anti-pinch function. Refer to [PWC-28. "Work Procedure"](#).

>> END

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CHECK ANTI-PINCH FUNCTION

< BASIC INSPECTION >

CHECK ANTI-PINCH FUNCTION

Description

INFOID:000000006825056

If any of the following operations are performed, the initialization is necessary for normal operation of anti-pinch function.

- Disconnection and connection of 12V battery cable from negative terminal.
- When power window main switch replaced.
- Electric power supply to power window main switch or power window motor (driver side) is interrupted by blown fuse or disconnection and connection of the negative terminal of 12V battery, etc.
- Disconnection and connection of power window main switch harness connector.
- Removal of power window motor (driver side) from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of glass.
- Removal and installation of door glass run.

Work Procedure

INFOID:000000006825057

1. CHECK ANTI-PINCH FUNCTION

- Fully open the door window.
- Place a piece of wood near fully closed position.
- Close door glass completely with AUTO-UP.
- Check the following conditions
 - Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops.
 - Check that glass does not rise not when operating the power window main switch while lowering.

CAUTION:

- **Perform initial setting when AUTO-UP operation or anti-pinch function does not operate normally.**
- **Check that AUTO-UP operates before inspection when system initialization is performed.**
- **To prevent injury, do not check with hands and other body parts because they may be pinched. Do not get pinched.**

>> END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000006825058

1. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY

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

| (+) | | (-) | Condition | | Voltage (V) (Approx.) |
|-----------|----------|--------|--------------|-----|--------------------------|
| Connector | Terminal | | | | |
| D35 | 10 | Ground | Power switch | ON | 9 – 16 |
| D36 | 18 | | | OFF | |

Is the inspection result normal?

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

2. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

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

| BCM | | Power window main switch | | Continuity |
|-----------|----------|--------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M69 | 68 | D35 | 10 | Existed |
| | 69 | D36 | 18 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M69 | 68 | | Not existed |
| | 69 | | |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK POWER WINDOW MAIN SWITCH GROUND CIRCUIT

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D35 | 1 | | Existed |

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:000000006825059

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

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

| (+) | | (-) | Voltage (V) (Approx.) |
|--|----------|--------|--------------------------|
| Front power window switch (passenger side) | | | |
| Connector | Terminal | | |
| D10 | 8 | Ground | 9 – 16 |

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY CIRCUIT

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

| BCM | | Front power window switch (passenger side) | | Continuity |
|-----------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M69 | 68 | D10 | 8 | Existed |

4. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M69 | 68 | | Not existed |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000006825060

1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY

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

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------------|----------|--------|--------------------------|
| Rear power window switch | | | |
| Connector | Terminal | | |
| LH | D63 | Ground | 9 – 16 |
| RH | D43 | | |
| | | 1 | |

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY CIRCUIT

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

| BCM | | Rear power window switch | | Continuity |
|-----------|----------|--------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M69 | 68 | LH | D63 | Existed |
| | | RH | D43 | |

4. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M69 | 68 | | Not existed |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).
 NO >> Repair or replace harness.

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FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Diagnosis Procedure

INFOID:000000006825061

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

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

| (+) | | (-) | Condition | Voltage (V) (Approx.) | |
|-----------|----------|--------|---|--------------------------|-------|
| Connector | Terminal | | | | |
| D10 | 11 | Ground | Power window main switch (passenger side) | NEUTRAL | 0 – 1 |
| | | | DOWN | 9 – 16 | |
| | 12 | | NEUTRAL | 0 – 1 | |
| | | | UP | 9 – 16 | |

Is the inspection result normal?

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

2. CHECK FRONT WINDOW SWITCH (PASSENGER SIDE) CIRCUIT

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

| Power window main switch | | Front power window switch (passenger side) | | Continuity |
|--------------------------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D35 | 2 | D10 | 11 | Existed |
| | 16 | | 12 | |

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D35 | 2 | | Not existed |
| | 16 | | |

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-55, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).
Refer to [PWC-33, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace front power window switch (passenger side). Refer to [PWC-55, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-51, "Intermittent Incident"](#).

>> INSPECTION END

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

INFOID:000000006825062

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

1. Turn power switch OFF.
2. Disconnect front power window switch (passenger side) connector.
3. Check front power window switch (passenger side) terminals under the following conditions.

| Front power window switch (passenger side) | | Condition | Continuity |
|--|---|-----------|------------|
| Terminal | | | |
| 8 | 7 | UP | Existed |
| 11 | 6 | | |
| 11 | 6 | NEUTRAL | |
| 12 | 7 | | |
| 8 | 6 | DOWN | |
| 12 | 7 | | |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side). Refer to [PWC-55, "Removal and Installation"](#).

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REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER WINDOW SWITCH

Diagnosis Procedure

INFOID:000000006825063

1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

| (+) | | Terminal | (-) | Condition | Voltage (V) (Approx.) | |
|--------------------------|---------|----------|--------|---------------------------------------|---------------------------------------|---------|
| Rear power window switch | | | | | | |
| Connector | | | | | | |
| LH | D63 | 2 | Ground | Power window main switch (rear LH) | NEUTRAL | 0 – 1 |
| | | 3 | | | UP | 9 – 16 |
| 3 | NEUTRAL | | | | 0 – 1 | |
| | 3 | DOWN | | | 9 – 16 | |
| RH | | D43 | | 2 | Power window main switch (rear RH) | NEUTRAL |
| | 3 | | | UP | | 9 – 16 |
| 3 | | NEUTRAL | | 0 – 1 | | |
| | 3 | DOWN | | 9 – 16 | | |

Is the inspection result normal?

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

2. CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

| Power window main switch | | Rear power window switch | | | Continuity |
|--------------------------|----------|--------------------------|----------|---|------------|
| Connector | Terminal | Connector | Terminal | | |
| D35 | 9 | LH | D63 | 2 | Existed |
| | 8 | | | 3 | |
| | 7 | RH | D43 | 2 | |
| | 6 | | | 3 | |

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D35 | 9 | Ground | Not existed |
| | 8 | | |
| | 7 | | |
| | 6 | | |

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-55, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Refer to [PWC-35. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to [PWC-55. "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-51. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000006825064

1. CHECK REAR POWER WINDOW SWITCH

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

| Rear power window switch | | Condition | Continuity |
|--------------------------|---|-----------|------------|
| Terminal | | | |
| 1 | 5 | UP | Existed |
| 3 | 4 | | |
| 3 | 4 | NEUTRAL | |
| 2 | 5 | | |
| 1 | 4 | DOWN | |
| 2 | 5 | | |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window switch. Refer to [PWC-55. "Removal and Installation"](#).

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000006825065

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

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

| (+) | | (-) | Condition | Voltage (V) (Approx.) | |
|--|----------|--------|--------------------------|--------------------------|--------|
| Front power window motor (driver side) | | | | | |
| Connector | Terminal | | | | |
| D37 | 2 | Ground | Power window main switch | NEUTRAL | 0 – 1 |
| | | | | UP | 9 – 16 |
| | 3 | | | NEUTRAL | 0 – 1 |
| | | | | DOWN | 9 – 16 |

Is the inspection result normal?

- YES >> Replace front power window motor (driver side). Refer to [GW-21, "Removal and Installation"](#).
 NO >> GO TO 2.

2. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) CIRCUIT

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

| Power window main switch | | Front power window motor (driver side) | | Continuity |
|--------------------------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D36 | 17 | D37 | 2 | Existed |
| | 19 | | 3 | |

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D36 | 17 | | Not existed |
| | 19 | | |

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006825066

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

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

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|---|----------|--------|--|--------------------------|
| Front power window motor (passenger side) | | | | |
| Connector | Terminal | | | |
| D16 | 1 | Ground | Front power window switch (passenger side) NEUTRAL | 0 – 1 |
| | | | UP | 9 – 16 |
| | 3 | | NEUTRAL | 0 – 1 |
| | | | DOWN | 9 – 16 |

Is the inspection result normal?

- YES >> Replace front power window motor (passenger side). Refer to [GW-21, "Removal and Installation"](#).
 NO >> GO TO 2.

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

- Turn power switch OFF.
- Disconnect front power window switch (passenger side) connector.
- Check continuity between front power window switch (passenger side) harness connector and front power window motor (passenger side) harness connector.

| Front power window switch (passenger side) | | Front power window motor (passenger side) | | Continuity |
|--|----------|---|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D10 | 6 | D16 | 3 | Existed |
| | 7 | | 1 | |

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

| Front power window switch (passenger side) | | Ground | Continuity |
|--|----------|--------|-------------|
| Connector | Terminal | | |
| D10 | 6 | | Not existed |
| | 7 | | |

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Repair or replace harness.

REAR LH

REAR LH : Diagnosis Procedure

INFOID:000000006825067

1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

- Turn power switch OFF.
- Disconnect rear power window motor LH connector.
- Turn power switch ON.
- Check voltage between rear power window motor LH harness connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|----------------------------|----------|--------|-----------|--------------------------|
| Rear power window motor LH | | | | |
| Connector | Terminal | | | |
| D67 | 1 | Ground | NEUTRAL | 0 – 1 |
| | | | DOWN | 9 – 16 |
| | 3 | | NEUTRAL | 0 – 1 |
| | | | UP | 9 – 16 |

Is the inspection result normal?

- YES >> Replace rear power window motor LH. Refer to [GW-21, "Removal and Installation"](#).
 NO >> GO TO 2.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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

| Rear power window switch LH | | Rear power window motor LH | | Continuity |
|-----------------------------|----------|----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D63 | 4 | D67 | 1 | Existed |
| | 5 | | 3 | |

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

| Rear power window switch LH | | Ground | Continuity |
|-----------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D63 | 4 | | Not existed |
| | 5 | | |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

REAR RH

REAR RH : Diagnosis Procedure

INFOID:000000006825068

1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|-----------|----------|--------|-----------|--------------------------|
| Connector | Terminal | | | |
| D47 | 1 | Ground | NEUTRAL | 0 – 1 |
| | | | DOWN | 9 – 16 |
| | 3 | | NEUTRAL | 0 – 1 |
| | | | UP | 9 – 16 |

Is the inspection result normal?

YES >> Replace rear power window motor RH. Refer to [GW-25, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

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

| Rear power window switch RH | | Rear power window motor RH | | Continuity |
|-----------------------------|----------|----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D43 | 4 | D47 | 1 | Existed |
| | 5 | | 3 | |

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

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| Rear power window switch RH | | Ground | Continuity |
|-----------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D43 | 4 | | Not existed |
| | 5 | | |

Is the inspection result normal?

YES >> INSPECTION END
 NO >> Repair or replace harness.

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ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

ENCODER CIRCUIT

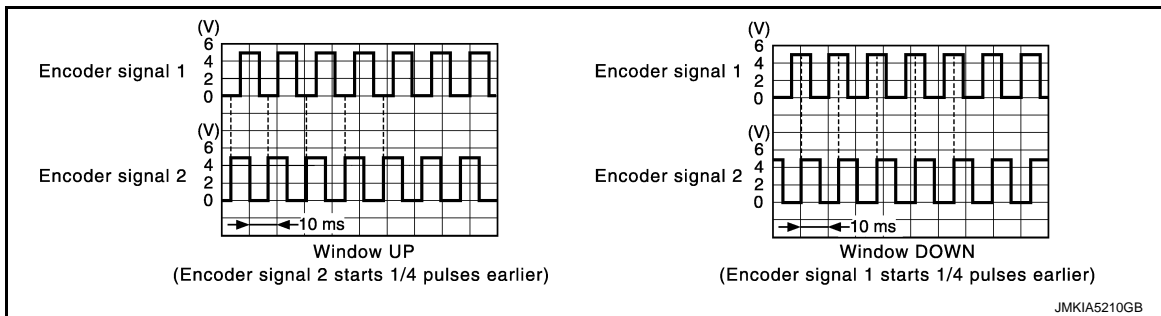
Diagnosis Procedure

INFOID:000000006825069

1. CHECK ENCODER PULSE SIGNAL

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

| (+) | | (-) | Signal (Reference value) |
|--------------------------|----------|--------|-----------------------------|
| Power window main switch | | | |
| Connector | Terminal | Ground | Refer to following signal |
| D35 | 4 | | |
| | 5 | | |



Is the inspection result normal?

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

2. CHECK ENCODER SIGNAL CIRCUIT

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

| Power window main switch | | Front power window motor (driver side) | | Continuity |
|--------------------------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D35 | 4 | D37 | 5 | Existed |
| | 5 | | 4 | |

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D35 | 4 | Ground | Not existed |
| | 5 | | |

Is the inspection result normal?

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

3. CHECK ENCODER POWER SUPPLY

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

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | (-) | Voltage (V) (Approx.) |
|--|----------|--------|--------------------------|
| Front power window motor (driver side) | | | |
| Connector | Terminal | | |
| D37 | 1 | Ground | 9 – 16 |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY CIRCUIT

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

| Power window main switch | | Front power window motor (driver side) | | Continuity |
|--------------------------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D35 | 14 | D37 | 1 | Existed |

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D35 | 14 | | Not existed |

Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

5. CHECK ENCODER GROUND CIRCUIT

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

| Front power window motor (driver side) | | Ground | Continuity |
|--|----------|--------|------------|
| Connector | Terminal | | |
| D37 | 6 | | Existed |

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

6. CHECK ENCODER GROUND CIRCUIT

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

| Power window main switch | | Front power window motor (driver side) | | Continuity |
|--------------------------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D35 | 12 | D37 | 6 | Existed |

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

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D35 | 12 | | Not existed |

Is the inspection result normal?

YES >> Replace front power window motor (driver side).

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-51, "Intermittent Incident"](#).

>> INSPECTION END

POWER WINDOWS DO NOT OPERATE WITH POWER WINDOW MAIN SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

POWER WINDOWS DO NOT OPERATE WITH POWER WINDOW MAIN SWITCH

Diagnosis Procedure

INFOID:000000006825070

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-71, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check power window main switch power supply and ground circuit.

Refer to [PWC-29, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

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PWC

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006825071

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check front power window motor (driver side).

Refer to [PWC-36, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

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

INFOID:000000006825072

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).
Refer to [PWC-32, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

Check front power window motor (passenger side).
Refer to [PWC-36, "PASSENGER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

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

INFOID:000000006825073

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

Check front power window switch (passenger side) power supply and ground circuit.
Refer to [PWC-30, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).
Refer to [PWC-32, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000006825074

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to [PWC-32. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51. "Intermittent Incident"](#).

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE
WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED

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

INFOID:000000006825075

1.CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.
Refer to [PWC-34, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.
Refer to [PWC-37, "REAR LH : Diagnosis Procedure"](#).

Is the inspection result normal?

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

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED : Diagnosis Procedure

INFOID:000000006825076

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

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

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.
Refer to [PWC-34, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

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REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000006825077

1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-34. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51. "Intermittent Incident"](#).

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW DOES NOT OPERATE
WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW
SWITCH RH ARE OPERATED

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

INFOID:000000006825078

1.CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.
Refer to [PWC-34, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.
Refer to [PWC-38, "REAR RH : Diagnosis Procedure"](#).

Is the inspection result normal?

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

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED : Diagnosis Procedure

INFOID:000000006825079

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

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

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.
Refer to [PWC-34, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

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REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000006825080

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-34. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51. "Intermittent Incident"](#).

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:000000006825081

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-40, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

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PWC

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:000000006825082

1. CHECK POWER WINDOW AUTO OPERATION

Check AUTO operation when anti-pinch function does not operate.
Refer to [PWC-51, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> GO TO 2.

2. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000006825083

1. REPLACE POWER WINDOW MAIN SWITCH

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

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51. "Intermittent Incident"](#).

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POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000006825597

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [DLK-97, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

-
- Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).
 - Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-51, "Intermittent Incident"](#).

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION


POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:000000006825084

REMOVAL

1. Remove power window main switch finisher. Refer to [INT-14, "Removal and Installation"](#).
2. Remove power window main switch (1) from power window main switch finisher (2) using flat-head screw driver (A).

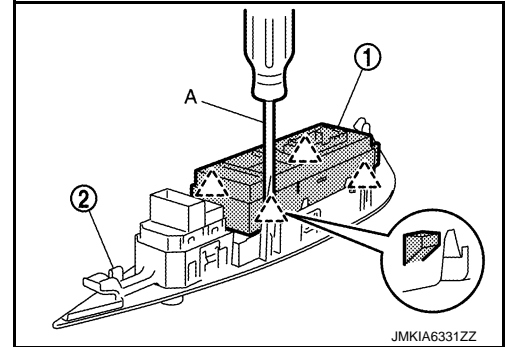
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CAUTION:

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

NOTE:

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



INSTALLATION

Install in the reverse order of removal.

NOTE:

If power window main switch is replaced or is removed, it is necessary to perform the initialization procedure. Refer to [PWC-27, "Work Procedure"](#).

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