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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:0000000014391417

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

WARNING:

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

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

WARNING:

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

Precaution for Work

INFOID:0000000014391418

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

PREPARATION

< PREPARATION >

PREPARATION

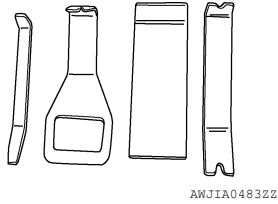
PREPARATION

Special Service Tool

INFOID:0000000014391419

The actual shape of the tools may differ from those illustrated here.

| Tool number (TechMate No.) Tool name | Description |
|--|--------------------------|
| — (J-46534) Trim Tool Set | Removing trim components |



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COMPONENT PARTS

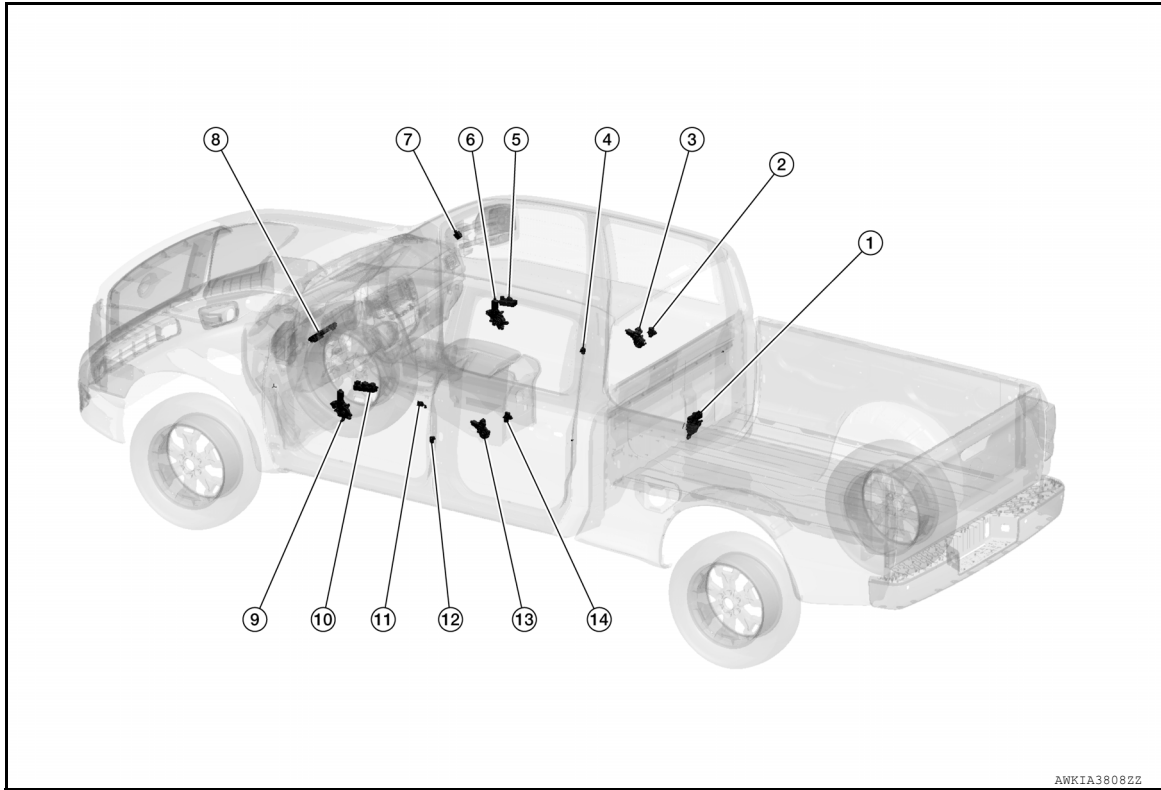
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000014391420



| No. | Part | Function |
|-----|---|--|
| 1. | Rear power slide glass motor | Refer to PWC-8, "Rear Power Slide Glass Motor" . |
| 2. | Rear power window switch RH | Refer to PWC-7, "Rear Power Window Switch" . |
| 3. | Rear power window motor RH | Refer to PWC-7, "Power Window Motor" . |
| 4. | Front door switch RH | <ul style="list-style-type: none"> • Detects door open/close condition and transmits to BCM. • Refer to DLK-15, "Front Door Switch". |
| 5. | Power window and door lock/unlock switch RH | Refer to PWC-7, "Power Window and Door Lock/Unlock Switch RH" . |
| 6. | Front power window motor RH | Refer to PWC-7, "Power Window Motor" . |
| 7. | Rear power slide glass switch | Refer to PWC-8, "Rear Power Slide Glass Switch" . |
| 8. | BCM | <ul style="list-style-type: none"> • Supplies power to the window switches. • Controls retained power. • Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| 9. | Front power window motor LH | Refer to PWC-7, "Power Window Motor" . |
| 10. | Main power window and door lock/unlock switch | Refer to PWC-7, "Main Power Window and Door Lock/Unlock Switch" . |
| 11. | Front door lock assembly LH (key cylinder switch) | Transmits operation condition of door key cylinder switch to main power window and door lock/unlock switch. |
| 12. | Front door switch LH | <ul style="list-style-type: none"> • Detects door open/close condition and transmits to BCM. • Refer to DLK-15, "Front Door Switch". |
| 13. | Rear power window motor LH | Refer to PWC-7, "Power Window Motor" . |
| 14. | Rear power window switch LH | Refer to PWC-7, "Rear Power Window Switch" . |

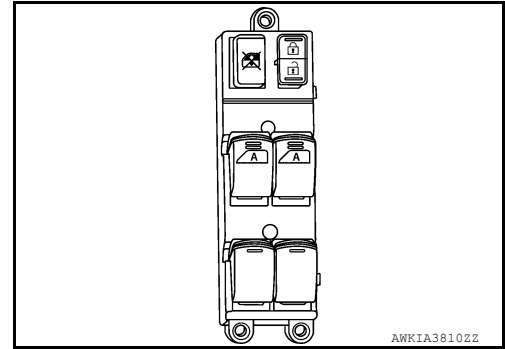
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Main Power Window and Door Lock/Unlock Switch

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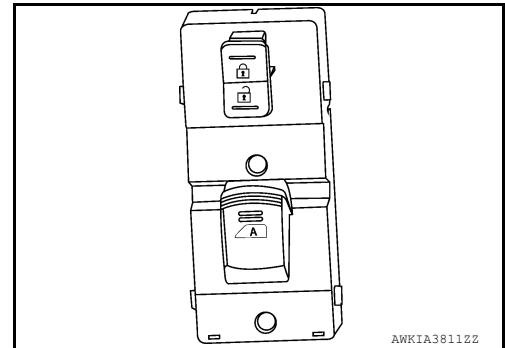
- Main power window and door lock/unlock switch controls all power windows.
- Main power window and door lock/unlock switch integrates UP/DOWN switch, power window lock switch, and door lock/unlock switch.
- Main power window and door lock/unlock switch controls power window lock function and AUTO UP/DOWN function.
- Receives encoder pulse signal and then controls anti-pinch system.



Power Window and Door Lock/Unlock Switch RH

INFOID:0000000014391422

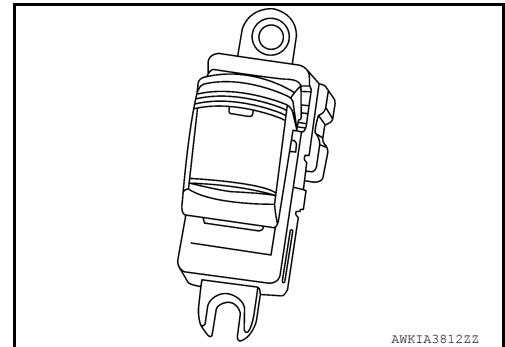
- Power window and door lock/unlock switch RH transmits AUTO UP/DOWN signal to front power window motor RH.
- Receives AUTO UP/DOWN signal from BCM and then transmits to front power window motor RH.
- Receives encoder pulse signal and then controls anti-pinch system.



Rear Power Window Switch

INFOID:0000000014391423

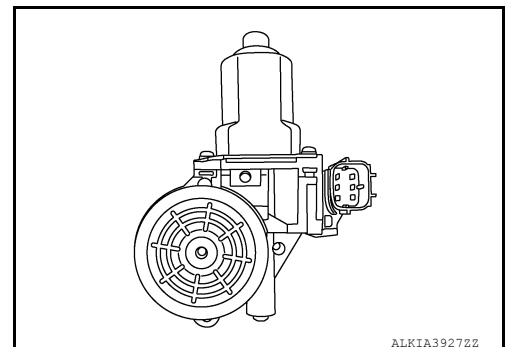
- Each power window switch transmits UP/DOWN signal to each motor.
- Each power window switch transmits UP/DOWN signal from main power window and door lock/unlock switch to each motor.



Power Window Motor

INFOID:0000000014391424

- Integrates the encoder for front power windows.
- Starts operation according to signals from each power window switch.
- Transmits each power window motor rotation as a pulse signal to each power window switch.



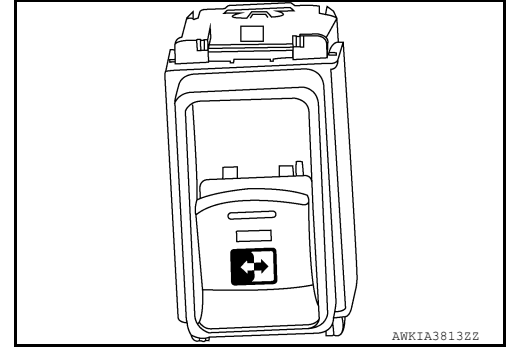
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Rear Power Slide Glass Switch

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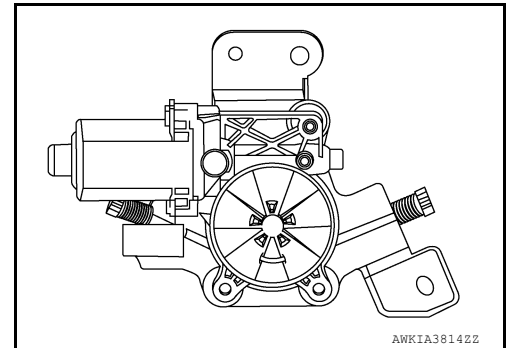
- Rear power slide glass switch is located in the overhead console.
- Rear power slide glass transmits OPEN/CLOSE signal to the rear power slide glass motor.



Rear Power Slide Glass Motor

INFOID:0000000014391426

- Starts operation according to signal from rear power sliding glass switch.
- Transmits rear power sliding glass motor rotation as a pulse signal to rear power sliding glass switch.



SYSTEM

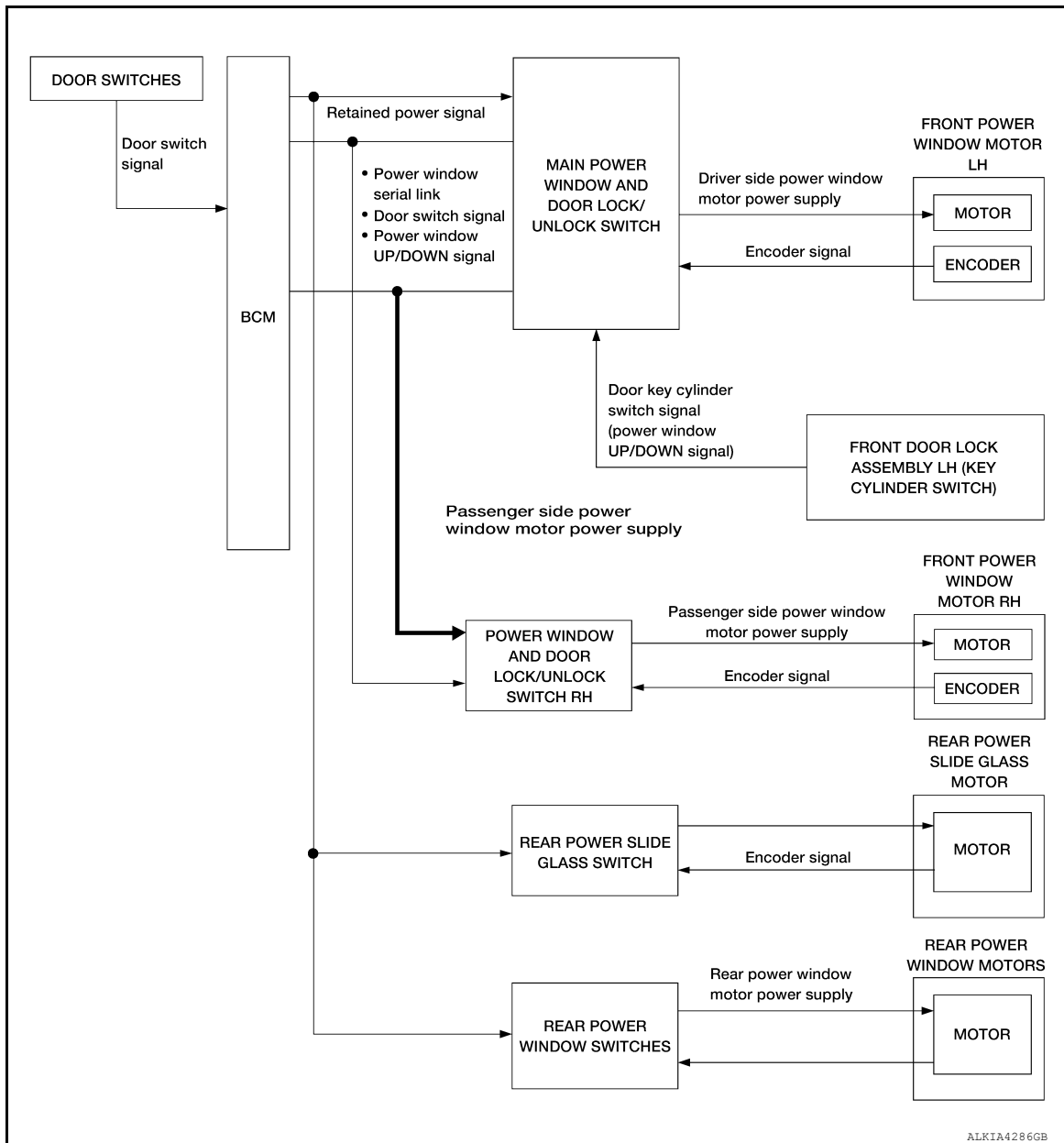
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SYSTEM

System Description

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SYSTEM DIAGRAM



POWER WINDOW OPERATION

- Power window system is activated by the power window switches when the ignition switch is in the ON position or during the retained power operation after ignition switch turns OFF.
- Main power window and door lock/unlock switch can open/close door glass.
- Front and rear power window switches can open/close the corresponding door glass.
- Power window lock switch can lock all power windows other than driver front.
- Front power windows open when pressing Intelligent Key unlock button for 3 seconds.
- If door glass receives resistance that is more than the specified value and the power window is in the AUTO-UP operation, power window will move in the reverse direction (anti-pinch function).

REAR POWER SLIDE GLASS OPERATION (IF EQUIPPED)

- Rear power slide glass system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Rear power slide glass switch can open/close the rear power slide glass.

SYSTEM

< SYSTEM DESCRIPTION >

POWER WINDOW AUTO-OPERATION

- AUTO-UP/DOWN operation can be performed when each power window motor turns to AUTO.
- Encoder continues detecting the movement of power window motor and outputs the encoder pulse signal to power window switch 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 open/closed position.
- Power window motor is operable in case encoder is malfunctioning.
- AUTO function does not operate if encoder is malfunctioning.

POWER WINDOW SERIAL LINK

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signals mentioned below are transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH.

- Keyless power window down signal.
- Door switch signal.
The signals mentioned below are transmitted from power window main switch to front power window switch (passenger side).
- Front passenger side door window operation signal.
- Retained power operation signal.

RETAINED POWER OPERATION

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

Retained Power Function Cancel Conditions:

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

POWER WINDOW LOCK FUNCTION

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.

ANTI-PINCH OPERATION

- 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) or 2 seconds when detected.
- Encoder continues detecting the movement of power window motor and transmits to the power window switch as the encoder pulse signal while power window motor is operating.
- Resistance is applied to the power window motor rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window switch lowers the door glass for 150 mm (5.9 in) or 2 seconds after it detects encoder pulse signal frequency change.

Operation Condition

When front door glass AUTO-UP operation is performed, anti-pinch function does not operate just before the door glass closes and is fully closed.

NOTE:

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

Fail-safe

INFOID:0000000014391428

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 an error beyond the regulation value is detected between the fully closed position and the actual position of the glass.

SYSTEM

< SYSTEM DESCRIPTION >

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

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

- Auto-up operation
- Anti-pinch function
- Retained power 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 switch or in motor.

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PWC

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000014697570

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions:

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|--------------------------------------|-----------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| | | ECU Identification | Self Diagnostic Result | Data Monitor | Active Test | Work support | Configuration | CAN Diag Support Mntr |
| Door lock | DOOR LOCK | | × | × | × | × | | |
| Rear window defogger | REAR DEFOGGER | | | × | × | × | | |
| Warning chime | BUZZER | | | × | × | | | |
| Interior room lamp timer | INT LAMP | | | × | × | × | | |
| Exterior lamp | HEADLAMP | | | × | × | × | | |
| Wiper and washer | WIPER | | | × | × | × | | |
| Turn signal and hazard warning lamps | FLASHER | | | × | × | × | | |
| Air conditioner | AIR CONDITIONER | | | × | | | | |
| Intelligent Key system | INTELLIGENT KEY | | × | × | × | × | | |
| Combination switch | COMB SW | | | × | | | | |
| BCM | BCM | × | × | | | × | × | × |
| Immobilizer | IMMU | | × | × | × | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | × | × | | | |
| Vehicle security system | THEFT ALM | | | × | × | × | | |
| RAP system | RETAINED PWR | | | × | | | | |
| Signal buffer system | SIGNAL BUFFER | | | × | | | | |

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| CONSULT screen item | Indication/Unit | Description | | |
|---------------------|-----------------|---|---|-----|
| Vehicle Speed | km/h | Vehicle speed at the moment a particular DTC is detected | | A |
| Odo/Trip Meter | km | Total mileage (Odometer value) at the moment a particular DTC is detected | | |
| Vehicle Condition | SLEEP>LOCK | Power position status at the moment a particular DTC is detected* | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*). | B |
| | SLEEP>OFF | | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".) | C |
| | LOCK>ACC | | While turning power supply position from "LOCK" *to "ACC" | |
| | ACC>ON | | While turning power supply position from "ACC" to "IGN" | D |
| | RUN>ACC | | While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.) | |
| | CRANK>RUN | | While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it) | E |
| | RUN>URGENT | | While turning power supply position from "RUN" to "ACC" (Emergency stop operation) | |
| | ACC>OFF | | While turning power supply position from "ACC" to "OFF" | F |
| | OFF>LOCK | | While turning power supply position from "OFF" to "LOCK"* | |
| | OFF>ACC | | While turning power supply position from "OFF" to "ACC" | G |
| | ON>CRANK | | While turning power supply position from "IGN" to "CRANKING" | |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode | H |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode | |
| | LOCK | | Power supply position is "LOCK" (Ignition switch OFF)* | I |
| | OFF | | Power supply position is "OFF" (Ignition switch OFF) | |
| | ACC | | Power supply position is "ACC" (Ignition switch ACC) | J |
| | ON | | Power supply position is "IGN" (Ignition switch ON with engine stopped) | |
| | ENGINE RUN | | Power supply position is "RUN" (Ignition switch ON with engine running) | PWC |
| | CRANKING | | Power supply position is "CRANKING" (At engine cranking) | |
| IGN Counter | 0 - 39 | The number of times that ignition 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 ignition is switched OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. | | L |

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever 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 push-button ignition switch (push switch) is pushed at "LOCK".

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000014697571

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000014391431

| ECU | Reference |
|-----|---|
| BCM | BCS-32, "Reference Value" |
| | BCS-51, "Fail Safe" |
| | BCS-51, "DTC Inspection Priority Chart" |
| | BCS-52, "DTC Index" |

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

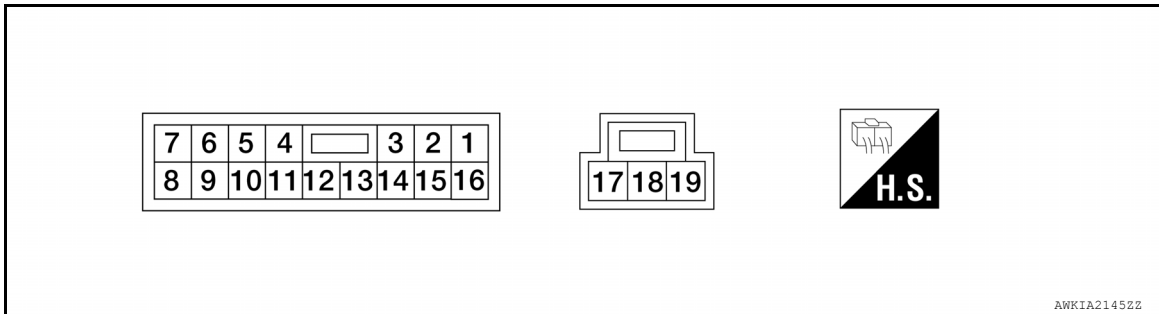
< ECU DIAGNOSIS INFORMATION >

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

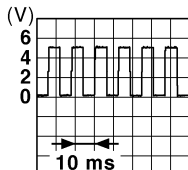
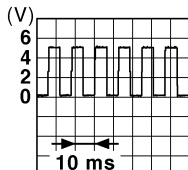
Reference Value

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TERMINAL LAYOUT

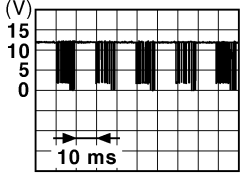


PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | Voltage (Approx.) |
|------------------------------|-----------|---|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 1 (B) | Ground | Ground | Output | — | 0 V |
| 3 (W/R) | Ground | Door lock actuator signal | Output | — | — |
| 4 (R) | 12 (B) | Encoder pulse signal 2 | Input | When power window motor operates |  <small>JMKIA0070GB</small> |
| 5 (BG) | 12 (B) | Encoder pulse signal 1 | Input | When power window motor operates |  <small>JMKIA0070GB</small> |
| 6 (SB) | Ground | Rear power window motor RH DOWN signal. | Output | When rear power window switch RH is operated DOWN | Battery voltage |
| 7 (V) | Ground | Rear power window motor RH UP signal. | Output | When rear power window switch RH is operated UP | Battery voltage |
| 8 (L) | Ground | Rear power window motor LH DOWN signal. | Output | When rear power window switch LH is operated DOWN | Battery voltage |
| 9 (Y) | Ground | Rear power window motor LH UP signal. | Output | When rear power window switch LH is operated UP | Battery voltage |
| 10 (LG) | Ground | Ignition switch power supply | Input | Ignition switch ON | Battery voltage |
| | | | | Other than above | 0 V |

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Voltage (Approx.) |
|------------------------------|-----------|---|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 11 (W/L) | Ground | Power window serial link | Input/ Output | IGN SW ON or power window operating |  |
| 12 (B) | Ground | Encoder ground | — | — | 0 V |
| 14 (P) | Ground | Encoder power supply | Output | When ignition is ON or power window timer operates | Battery voltage |
| 15 (B/W) | Ground | Door lock actuator signal | Output | — | Battery voltage |
| 17 (W) | 19 (R) | Main power window and door lock/unlock switch UP signal | Output | When main power window and door lock/unlock switch is operated UP | Battery voltage |
| 18 (V) | Ground | Battery power supply | Input | — | Battery voltage |
| 19 (R) | 17 (W) | Main power window and door lock/unlock switch DOWN signal | Output | When main power window and door lock/unlock switch is operated DOWN | Battery voltage |

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POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

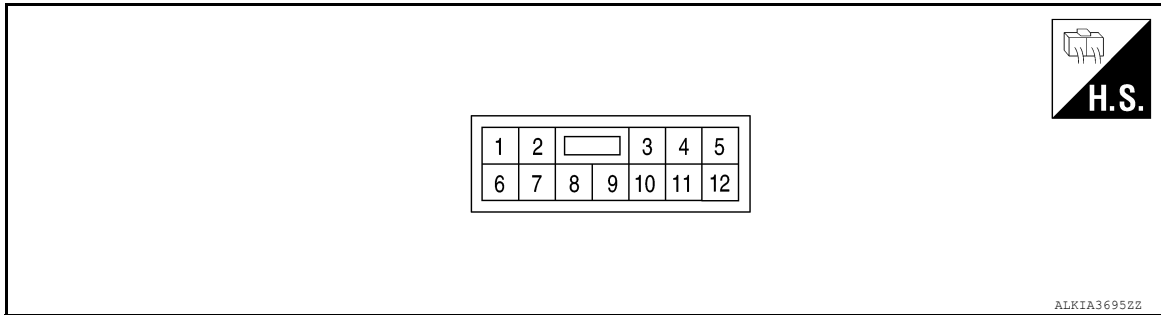
< ECU DIAGNOSIS INFORMATION >

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

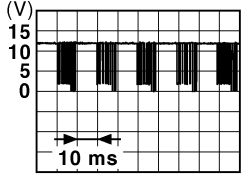
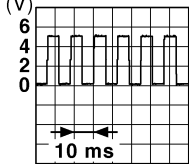
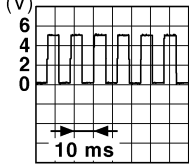
Reference Value

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TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | Voltage (Approx.) |
|------------------------------|------------|--------------------------|------------------|--|--|
| + | - | Signal name | Input/ Output | | |
| 3 (W/L) | Ground | Power window serial link | Input/ Output | IGN SW ON or power window operating |  JPMIA0013GB |
| 4 (G/B) | Ground | Encoder ground | — | — | — |
| 5 (W) | Ground | Encoder power supply | Output | When ignition switch is ON or power window timer operates | Battery voltage |
| 7 (B) | Ground | Ground | — | — | — |
| 8 (V) | Ground | Battery power supply | Input | — | Battery voltage |
| 9 (R/L) | 4 (G/B) | Encoder pulse signal 1 | Input | When power window motor operates |  JMKIA0070GB |
| 10 (L/W) | 4 (G/B) | Encoder pulse signal 2 | Input | When power window motor operates |  JMKIA0070GB |

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Voltage (Approx.) |
|------------------------------|-----------|--|------------------|---|----------------------|
| + | - | Signal name | Input/ Output | | |
| 11 (G) | 12 (L) | Assistant window switch UP signal | Output | When power window and door lock/unlock switch RH is oper- ated UP | Battery voltage |
| 12 (L) | 11 (G) | Assistant window switch DOWN signal | Output | When power window and door lock/unlock switch RH is oper- ated DOWN | Battery voltage |

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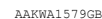
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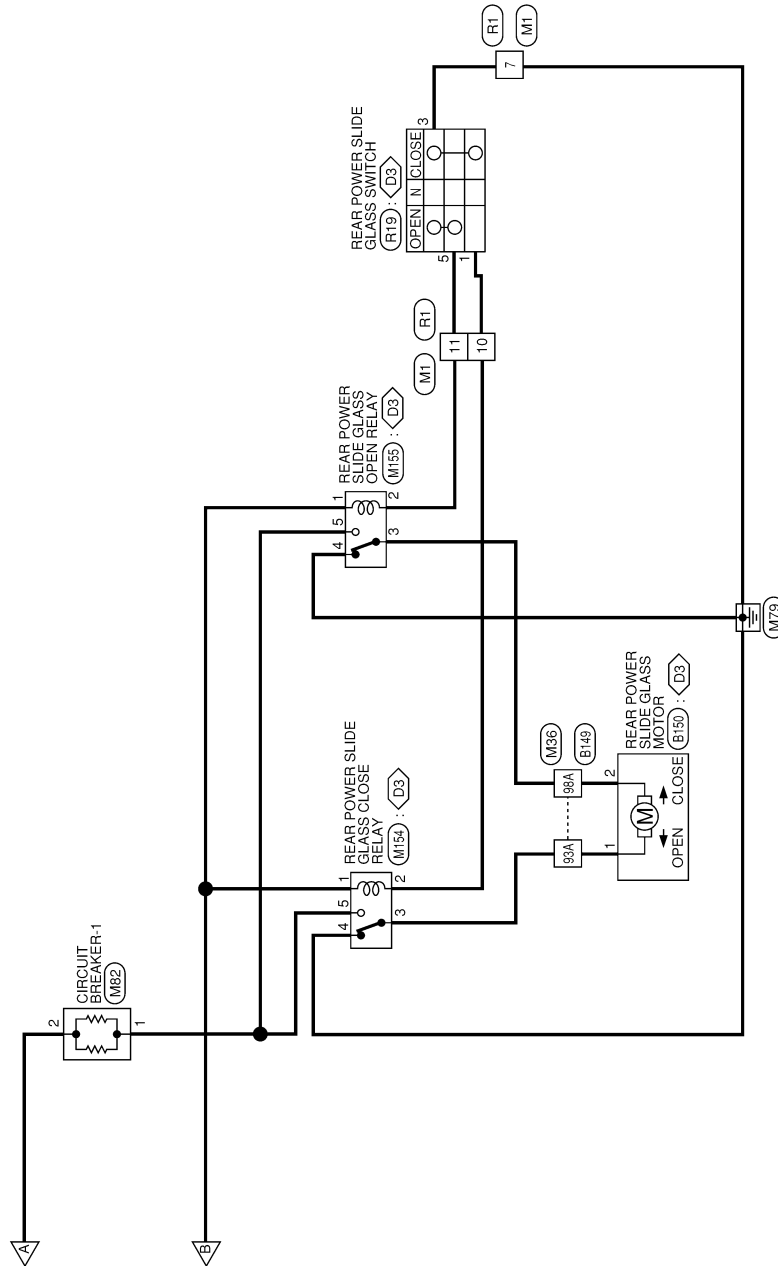
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POWER WINDOW SYSTEM

< WIRING DIAGRAM >



AAKWA1580GB

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|--------------|
| Connector No. | B6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |
| Connector Color | WHITE |



| | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|---|
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------|
| 1 | - | TO REAR DOOR LH HARNESS |
| 2 | - | TO REAR DOOR LH HARNESS |
| 3 | - | TO REAR DOOR LH HARNESS |
| 4 | - | TO REAR DOOR LH HARNESS |
| 5 | - | TO REAR DOOR LH HARNESS |
| 6 | - | TO REAR DOOR LH HARNESS |
| 7 | - | TO REAR DOOR LH HARNESS |
| 8 | O/L | TO REAR DOOR LH HARNESS |
| 9 | - | TO REAR DOOR LH HARNESS |
| 10 | - | TO REAR DOOR LH HARNESS |
| 11 | B/Y | TO REAR DOOR LH HARNESS |
| 12 | SB | TO REAR DOOR LH HARNESS |
| 13 | BR | TO REAR DOOR LH HARNESS |
| 14 | Y | TO REAR DOOR LH HARNESS |
| 15 | B | TO REAR DOOR LH HARNESS |
| 16 | L/G | TO REAR DOOR LH HARNESS |
| 17 | L | TO REAR DOOR LH HARNESS |
| 18 | SB | TO REAR DOOR LH HARNESS |

| | |
|-----------------|----------------------|
| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | - | - |
| 2 | - | - |
| 3 | L | DR DOOR SW |
| 4 | - | - |

| | |
|-----------------|-----------------|
| Connector No. | B69 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 1J | P | TO MAIN HARNESS |
| 2J | P/Y | TO MAIN HARNESS |
| 3J | L | TO MAIN HARNESS |
| 4J | L/B | TO MAIN HARNESS |
| 5J | G/W | TO MAIN HARNESS |
| 6J | L/G/Y | TO MAIN HARNESS |
| 7J | BR/LG | TO MAIN HARNESS |
| 8J | SB/BR | TO MAIN HARNESS |
| 9J | BR | TO MAIN HARNESS |
| 10J | BR | TO MAIN HARNESS |
| 11J | O/B | TO MAIN HARNESS |
| 12J | L | TO MAIN HARNESS |
| 13J | SB/O | TO MAIN HARNESS |
| 14J | Y | TO MAIN HARNESS |
| 15J | - | TO MAIN HARNESS |
| 16J | R | TO MAIN HARNESS |
| 17J | G | TO MAIN HARNESS |
| 18J | SB | TO MAIN HARNESS |
| 19J | O | TO MAIN HARNESS |
| 20J | O/B | TO MAIN HARNESS |
| 21J | Y/R | TO MAIN HARNESS |
| 22J | P | TO MAIN HARNESS |
| 23J | W | TO MAIN HARNESS |
| 24J | W/R | TO MAIN HARNESS |
| 25J | V | TO MAIN HARNESS |
| 26J | L | TO MAIN HARNESS |
| 27J | R | TO MAIN HARNESS |

| | | |
|------|--------|-----------------|
| 80J | W | TO MAIN HARNESS |
| 81J | SHIELD | TO MAIN HARNESS |
| 82J | L/R | TO MAIN HARNESS |
| 83J | - | TO MAIN HARNESS |
| 84J | - | TO MAIN HARNESS |
| 85J | Y/B | TO MAIN HARNESS |
| 86J | G | TO MAIN HARNESS |
| 87J | B/R | TO MAIN HARNESS |
| 88J | SHIELD | TO MAIN HARNESS |
| 89J | GR/R | TO MAIN HARNESS |
| 90J | L | TO MAIN HARNESS |
| 91J | L/B | TO MAIN HARNESS |
| 92J | SB | TO MAIN HARNESS |
| 93J | B | TO MAIN HARNESS |
| 94J | L | TO MAIN HARNESS |
| 95J | L/G | TO MAIN HARNESS |
| 96J | R | TO MAIN HARNESS |
| 97J | B/Y | TO MAIN HARNESS |
| 98J | L/B | TO MAIN HARNESS |
| 99J | W/L | TO MAIN HARNESS |
| 100J | SB | TO MAIN HARNESS |

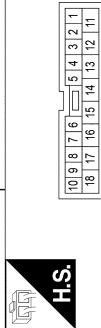
| | | |
|-----|--------|-----------------|
| 28J | L | TO MAIN HARNESS |
| 29J | G/O | TO MAIN HARNESS |
| 30J | SB | TO MAIN HARNESS |
| 31J | LG | TO MAIN HARNESS |
| 32J | R | TO MAIN HARNESS |
| 33J | L | TO MAIN HARNESS |
| 34J | Y | TO MAIN HARNESS |
| 35J | P | TO MAIN HARNESS |
| 36J | G/R | TO MAIN HARNESS |
| 37J | LG/B | TO MAIN HARNESS |
| 38J | SB | TO MAIN HARNESS |
| 39J | Y/L | TO MAIN HARNESS |
| 40J | BR | TO MAIN HARNESS |
| 41J | L | TO MAIN HARNESS |
| 42J | L | TO MAIN HARNESS |
| 43J | SB | TO MAIN HARNESS |
| 44J | BR | TO MAIN HARNESS |
| 45J | BG | TO MAIN HARNESS |
| 46J | P/Y | TO MAIN HARNESS |
| 47J | Y/GR | TO MAIN HARNESS |
| 48J | V | TO MAIN HARNESS |
| 49J | BR/Y | TO MAIN HARNESS |
| 50J | G/W | TO MAIN HARNESS |
| 51J | - | TO MAIN HARNESS |
| 52J | SHIELD | TO MAIN HARNESS |
| 53J | R | TO MAIN HARNESS |
| 54J | L | TO MAIN HARNESS |
| 55J | R | TO MAIN HARNESS |
| 56J | W | TO MAIN HARNESS |
| 57J | L/G | TO MAIN HARNESS |
| 58J | O | TO MAIN HARNESS |
| 59J | - | TO MAIN HARNESS |
| 60J | SHIELD | TO MAIN HARNESS |
| 61J | G | TO MAIN HARNESS |
| 62J | - | TO MAIN HARNESS |
| 63J | R/W | TO MAIN HARNESS |
| 64J | L/W | TO MAIN HARNESS |
| 65J | SHIELD | TO MAIN HARNESS |
| 66J | B | TO MAIN HARNESS |
| 67J | SHIELD | TO MAIN HARNESS |
| 68J | O/L | TO MAIN HARNESS |
| 69J | SHIELD | TO MAIN HARNESS |
| 70J | BR | TO MAIN HARNESS |
| 71J | L/W | TO MAIN HARNESS |
| 72J | - | TO MAIN HARNESS |
| 73J | - | TO MAIN HARNESS |
| 74J | SHIELD | TO MAIN HARNESS |
| 75J | LG/B | TO MAIN HARNESS |
| 76J | R | TO MAIN HARNESS |
| 77J | SHIELD | TO MAIN HARNESS |
| 78J | GR/B | TO MAIN HARNESS |
| 79J | B | TO MAIN HARNESS |

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

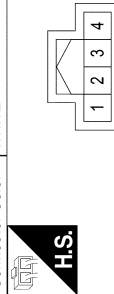
POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|--------------|
| Connector No. | B106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |
| Connector Color | WHITE |



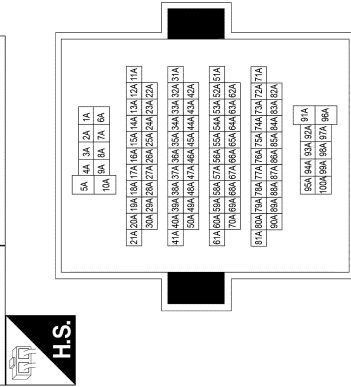
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------|
| 1 | - | TO REAR DOOR RH HARNESS |
| 2 | - | TO REAR DOOR RH HARNESS |
| 3 | - | TO REAR DOOR RH HARNESS |
| 4 | - | TO REAR DOOR RH HARNESS |
| 5 | - | TO REAR DOOR RH HARNESS |
| 6 | - | TO REAR DOOR RH HARNESS |
| 7 | - | TO REAR DOOR RH HARNESS |
| 8 | O/L | TO REAR DOOR RH HARNESS |
| 9 | - | TO REAR DOOR RH HARNESS |
| 10 | - | TO REAR DOOR RH HARNESS |
| 11 | R/L | TO REAR DOOR RH HARNESS |
| 12 | O/L | TO REAR DOOR RH HARNESS |
| 13 | Y/LG | TO REAR DOOR RH HARNESS |
| 14 | BR/O | TO REAR DOOR RH HARNESS |
| 15 | B | TO REAR DOOR RH HARNESS |
| 16 | SB/R | TO REAR DOOR RH HARNESS |
| 17 | L | TO REAR DOOR RH HARNESS |
| 18 | V | TO REAR DOOR RH HARNESS |

| | |
|-----------------|----------------------|
| Connector No. | B108 |
| Connector Name | FRONT DOOR SWITCH RH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | - | - |
| 2 | - | - |
| 3 | L/R | AS DOOR SW |
| 4 | - | - |

| | |
|-----------------|-------------------|
| Connector No. | B149 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MDGY-CS16-TM4 |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--|
| 1A | SB/G | TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS) |
| 1A | SB | TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEATS) |
| 2A | L | TO MAIN HARNESS |
| 3A | V | TO MAIN HARNESS |
| 4A | SB/R | TO MAIN HARNESS |
| 5A | - | TO MAIN HARNESS |
| 6A | L/R | TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS) |
| 6A | LG | TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEATS) |
| 7A | W | TO MAIN HARNESS |
| 8A | B | TO MAIN HARNESS |
| 9A | L/B | TO MAIN HARNESS |
| 10A | W | TO MAIN HARNESS |
| 11A | LG | TO MAIN HARNESS |
| 12A | BR/O | TO MAIN HARNESS |
| 13A | Y/W | TO MAIN HARNESS |
| 14A | R/G | TO MAIN HARNESS |
| 15A | Y/L | TO MAIN HARNESS |
| 16A | O/L | TO MAIN HARNESS |
| 17A | L | TO MAIN HARNESS |
| 18A | Y | TO MAIN HARNESS |
| 19A | LG | TO MAIN HARNESS |
| 20A | R | TO MAIN HARNESS |
| 21A | BG | TO MAIN HARNESS |
| 22A | L/R | TO MAIN HARNESS |

| | | |
|------|--------|-----------------|
| 76A | GR/R | TO MAIN HARNESS |
| 77A | L | TO MAIN HARNESS |
| 78A | SHIELD | TO MAIN HARNESS |
| 79A | Y | TO MAIN HARNESS |
| 80A | L | TO MAIN HARNESS |
| 81A | R | TO MAIN HARNESS |
| 82A | SHIELD | TO MAIN HARNESS |
| 83A | LG/B | TO MAIN HARNESS |
| 84A | R | TO MAIN HARNESS |
| 85A | SHIELD | TO MAIN HARNESS |
| 86A | GR/B | TO MAIN HARNESS |
| 87A | B | TO MAIN HARNESS |
| 88A | W | TO MAIN HARNESS |
| 89A | SHIELD | TO MAIN HARNESS |
| 90A | G | TO MAIN HARNESS |
| 91A | W/L | TO MAIN HARNESS |
| 92A | BR | TO MAIN HARNESS |
| 93A | L/Y | TO MAIN HARNESS |
| 94A | R/L | TO MAIN HARNESS |
| 95A | BR | TO MAIN HARNESS |
| 96A | R | TO MAIN HARNESS |
| 97A | LG | TO MAIN HARNESS |
| 98A | B/V | TO MAIN HARNESS |
| 99A | O/L | TO MAIN HARNESS |
| 100A | BR/W | TO MAIN HARNESS |

| | |
|-----------------|------------------------------|
| Connector No. | B150 |
| Connector Name | REAR POWER SLIDE GLASS MOTOR |
| Connector Type | RS02FB |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---|
| 1 | L/Y | REAR POWER SLIDE GLASS CLOSE RELAY OUTPUT |
| 2 | B/V | REAR POWER SLIDE GLASS OPEN RELAY OUTPUT |

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

PWC

AAK1A4143GB

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|--------------|
| Connector No. | D2 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 1 | B/W | TO MAIN HARNESS |
| 2 | G/B | TO MAIN HARNESS |
| 3 | L | TO MAIN HARNESS |
| 4 | R | TO MAIN HARNESS |
| 5 | W/R | TO MAIN HARNESS |
| 6 | W/L | TO MAIN HARNESS |
| 7 | V | TO MAIN HARNESS |
| 8 | B | TO MAIN HARNESS |
| 9 | L/W | TO MAIN HARNESS |
| 10 | L/R | TO MAIN HARNESS |
| 11 | L/W | TO MAIN HARNESS |
| 12 | L | TO MAIN HARNESS |
| 13 | Y | TO MAIN HARNESS |
| 14 | SB | TO MAIN HARNESS |
| 15 | V | TO MAIN HARNESS |
| 16 | LG | TO MAIN HARNESS |

| | |
|-----------------|---|
| Connector No. | D7 |
| Connector Name | MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------|
| 1 | B | GND |
| 2 | - | - |
| 3 | W/R | D LOCK ACTR DR |
| 4 | R | ENCODER SIG2 |
| 5 | BG | ENCODER SIG1 |

| | | |
|----|-----|----------------|
| 6 | SB | RR DN |
| 7 | V | RR UP |
| 8 | L | RL DN |
| 9 | Y | RL UP |
| 10 | LG | IGN |
| 11 | W/L | COM |
| 12 | B | ENCODER GND |
| 13 | - | - |
| 14 | P | ENCODER+ |
| 15 | B/W | D LOCK ACTR DR |
| 16 | - | - |

| | |
|-----------------|---|
| Connector No. | D8 |
| Connector Name | MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH |
| Connector Type | NS03FW-CS |
| Connector Color | WHITE |

| | | |
|----|----|----|
| 17 | 18 | 19 |
|----|----|----|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17 | W | DR UP |
| 18 | V | BAT |
| 19 | R | DR DN |

| | |
|-----------------|-----------------------------|
| Connector No. | D9 |
| Connector Name | FRONT POWER WINDOW MOTOR LH |
| Connector Type | RS06FG |
| Connector Color | GREEN |

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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | W | DR UP |
| 2 | P | ENCODER + |
| 3 | R | DR DN |
| 4 | B | ENCODER GND |
| 5 | R | ENCODER SIG2 |

| | | |
|---|----|--------------|
| 6 | BG | ENCODER SIG1 |
|---|----|--------------|

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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 1 | L | DOOR LOCK DR/AS/FL |
| 2 | V | DOOR UNLOCK DR/AS/FL |
| 3 | LG | DR DOOR LOCK STATUS |
| 4 | B | GROUND |
| 5 | B/W | D LOCK ACTUATOR DR |
| 6 | W/R | D LOCK ACTUATOR DR |

| | |
|-----------------|--------------|
| Connector No. | D101 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10FW-CS |
| Connector Color | WHITE |

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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 1 | B/W | TO MAIN HARNESS |
| 2 | B | TO MAIN HARNESS |
| 3 | W/L | TO MAIN HARNESS |
| 4 | V | TO MAIN HARNESS |
| 5 | W/B | TO MAIN HARNESS |
| 6 | GY | TO MAIN HARNESS |
| 7 | W/B | TO MAIN HARNESS |
| 8 | L/B | TO MAIN HARNESS |
| 9 | GY | TO MAIN HARNESS |
| 10 | - | TO MAIN HARNESS |

| | |
|-----------------|-----------------------------|
| Connector No. | D105 |
| Connector Name | FRONT POWER WINDOW MOTOR RH |
| Connector Type | RS06FG |
| Connector Color | GREEN |

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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | G | AS UP |
| 2 | W | ENCODER + |
| 3 | L | AS DN |
| 4 | G/B | ENCODER GND |
| 5 | L/W | ENCODER SIG2 |
| 6 | P/L | ENCODER SIG1 |

| | |
|-----------------|---|
| Connector No. | D129 |
| Connector Name | POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH |
| Connector Type | NS12FW-CS |
| Connector Color | WHITE |

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

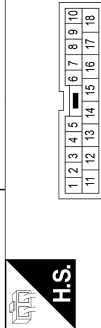
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | - | - |
| 2 | - | - |
| 3 | W/L | COM |
| 4 | G/B | ENCODER GND |
| 5 | W | ENCODER + |
| 6 | - | - |
| 7 | B | GND |
| 8 | V | BAT |
| 9 | P/L | ENCODER SIG1 |
| 10 | L/W | ENCODER SIG2 |
| 11 | G | AS UP |
| 12 | L | AS DN |

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

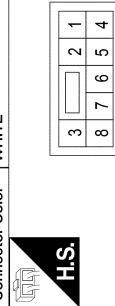
POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|--------------|
| Connector No. | D201 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS8 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 1 | - | TO BODY HARNESS |
| 2 | - | TO BODY HARNESS |
| 3 | - | TO BODY HARNESS |
| 4 | - | TO BODY HARNESS |
| 5 | - | TO BODY HARNESS |
| 6 | - | TO BODY HARNESS |
| 7 | - | TO BODY HARNESS |
| 8 | O/L | TO BODY HARNESS |
| 9 | - | TO BODY HARNESS |
| 10 | - | TO BODY HARNESS |
| 11 | B/Y | TO BODY HARNESS |
| 12 | SB | TO BODY HARNESS |
| 13 | BR | TO BODY HARNESS |
| 14 | Y | TO BODY HARNESS |
| 15 | B | TO BODY HARNESS |
| 16 | BR | TO BODY HARNESS |
| 17 | Y | TO BODY HARNESS |
| 18 | V | TO BODY HARNESS |

| | |
|-----------------|-----------------------------|
| Connector No. | D203 |
| Connector Name | REAR POWER WINDOW SWITCH LH |
| Connector Type | NS08FW-CS |
| Connector Color | WHITE |

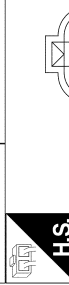


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | - | - |
| 2 | B | GND |
| 3 | - | - |
| 4 | Y | IGN |

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| | | |
|---|----|------|
| 5 | L | UP |
| 6 | LG | DOWN |
| 7 | BR | DOWN |
| 8 | V | UP |

| | |
|-----------------|----------------------------|
| Connector No. | D204 |
| Connector Name | REAR POWER WINDOW MOTOR LH |
| Connector Type | RS06FG |
| Connector Color | GREEN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | UP |
| 2 | - | - |
| 3 | LG | DOWN |
| 4 | - | - |
| 5 | - | - |
| 6 | - | - |

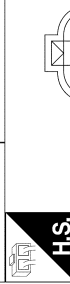
| | |
|-----------------|--------------|
| Connector No. | D301 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS8 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 1 | - | TO BODY NO. 2 HARNESS |
| 2 | - | TO BODY NO. 2 HARNESS |
| 3 | - | TO BODY NO. 2 HARNESS |
| 4 | - | TO BODY NO. 2 HARNESS |
| 5 | - | TO BODY NO. 2 HARNESS |
| 6 | - | TO BODY NO. 2 HARNESS |
| 7 | - | TO BODY NO. 2 HARNESS |
| 8 | O/L | TO BODY NO. 2 HARNESS |
| 9 | - | TO BODY NO. 2 HARNESS |
| 10 | - | TO BODY NO. 2 HARNESS |
| 11 | R/L | TO BODY NO. 2 HARNESS |

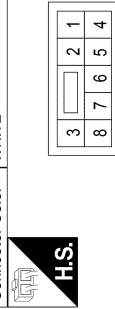
| | | |
|----|-----|-----------------------|
| 12 | O/L | TO BODY NO. 2 HARNESS |
| 13 | Y | TO BODY NO. 2 HARNESS |
| 14 | BR | TO BODY NO. 2 HARNESS |
| 15 | B | TO BODY NO. 2 HARNESS |
| 16 | BR | TO BODY NO. 2 HARNESS |
| 17 | Y | TO BODY NO. 2 HARNESS |
| 18 | V | TO BODY NO. 2 HARNESS |

| | |
|-----------------|----------------------------|
| Connector No. | D304 |
| Connector Name | REAR POWER WINDOW MOTOR RH |
| Connector Type | RS06FG |
| Connector Color | GREEN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | UP |
| 2 | - | - |
| 3 | LG | DOWN |
| 4 | - | - |
| 5 | - | - |
| 6 | - | - |

| | |
|-----------------|-----------------------------|
| Connector No. | D309 |
| Connector Name | REAR POWER WINDOW SWITCH RH |
| Connector Type | NS08FW-CS |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | - | - |
| 2 | B | GND |
| 3 | - | - |
| 4 | Y | IGN |
| 5 | L | UP |
| 6 | LG | DOWN |
| 7 | BR | DOWN |

| | | |
|---|---|----|
| 8 | V | UP |
|---|---|----|

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< WIRING DIAGRAM >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------------------|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BRW | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VKE6V0) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/W | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |

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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | - | - |
| 11P | - | - |
| 12P | - | - |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| | |
|-----------------|--------------|
| Connector No. | M8 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |
| 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 |
|--------------|---------------|--------------------------|
| 1 | B/W | TO FRONT DOOR LH HARNESS |
| 2 | G/B | TO FRONT DOOR LH HARNESS |
| 3 | L | TO FRONT DOOR LH HARNESS |
| 4 | R | TO FRONT DOOR LH HARNESS |
| 5 | W/R | TO FRONT DOOR LH HARNESS |
| 6 | W/L | TO FRONT DOOR LH HARNESS |
| 7 | V | TO FRONT DOOR LH HARNESS |

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| | | |
|----|-----|--------------------------|
| 8 | B | TO FRONT DOOR LH HARNESS |
| 9 | L/W | TO FRONT DOOR LH HARNESS |
| 10 | L/R | TO FRONT DOOR LH HARNESS |
| 11 | L/W | TO FRONT DOOR LH HARNESS |
| 12 | L | TO FRONT DOOR LH HARNESS |
| 13 | Y | TO FRONT DOOR LH HARNESS |
| 14 | SB | TO FRONT DOOR LH HARNESS |
| 15 | V | TO FRONT DOOR LH HARNESS |
| 16 | LG | TO FRONT DOOR LH HARNESS |

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 1 | G | ENG START SW NO ESCL |
| 2 | - | - |
| 3 | R | ALL POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |
| 9 | - | - |
| 10 | SB | COMBI SW N 5 |
| 11 | G/Y | COMBI SW N 4 |
| 12 | Y | COMBI SW N 3 |
| 13 | G/B | COMBI SW N 2 |
| 14 | V | COMBI SW N 1 |
| 15 | - | - |
| 16 | - | - |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | - | - |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | - | - |
| 23 | Y | AIRCON SW |
| 24 | - | - |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | - | - |

| | | |
|----|-----|---------------------|
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | - | - |
| 32 | Y | REAR DEFOGGER SW |
| 33 | - | - |
| 34 | - | - |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | - | - |
| 38 | - | - |
| 39 | B/R | SHIFT N/P |
| 40 | - | - |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |



| |
|---|
| 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 |
| 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------------|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | - | - |
| 44 | - | - |
| 45 | - | - |
| 46 | - | - |
| 47 | - | - |
| 48 | R | HIGH SIDE START SW LED |
| 49 | - | - |
| 50 | - | - |
| 51 | - | - |
| 52 | W | AUDIO DONGLE |
| 53 | - | - |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | - | - |
| 57 | - | - |
| 58 | - | - |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | - | - |
| 64 | P | BUZZER OUT |

| | | |
|----|-----|----------------------|
| 65 | - | - |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | P/B | AT DEVICE OUT |
| 70 | P | IGN USW OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | - | - |
| 74 | - | - |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | - | - |

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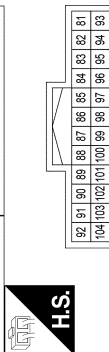
PWC

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

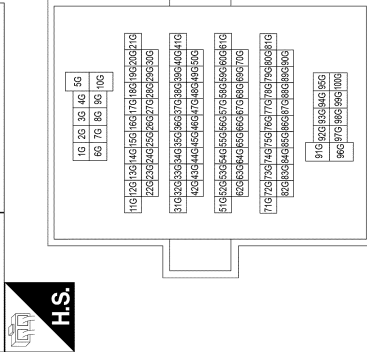
POWER WINDOW SYSTEM CONNECTORS

| Connector No. | M20 |
|-----------------|---------------------------|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FGY-NH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------|
| 81 | - | - |
| 82 | W | RL DOOR SW |
| 83 | - | - |
| 84 | - | - |
| 85 | - | - |
| 86 | G/B | TRAILER FLASHER RL |
| 87 | Y/B | TRAILER FLASHER RR |
| 88 | - | - |
| 89 | - | - |
| 90 | - | - |
| 91 | - | - |
| 92 | O | RR FLASHER |
| 93 | R | RR DOOR SW |
| 94 | G | AS DOOR SW |
| 95 | - | - |
| 96 | B/G | DR DOOR SW |
| 97 | P/L | CARGO LAMP SW |
| 98 | - | - |
| 99 | - | - |
| 100 | - | - |
| 101 | - | - |
| 102 | - | - |
| 103 | G/B | RL FLASHER |
| 104 | - | - |

| Connector No. | M31 |
|-----------------|-----------------|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | - | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |

| | | |
|------|------|------------------------|
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| | | |
|-----|--------|------------------------|
| 27G | L/G | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | - | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | L/G | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | - | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | B/G | TO ENGINE ROOM HARNESS |
| 59G | B/G | TO ENGINE ROOM HARNESS |
| 60G | B/G | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | B/G | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | B/G | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | - | TO ENGINE ROOM HARNESS |

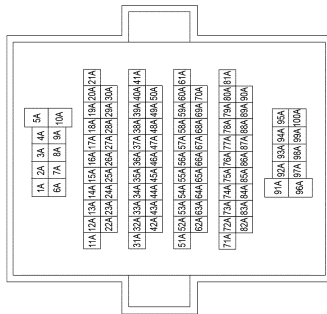
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POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|-------------------|
| Connector No. | M36 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FDGY-CS16-TM4 |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---|
| 1A | W | TO BODY NO. 2 HARNESS |
| 2A | L | TO BODY NO. 2 HARNESS |
| 3A | V | TO BODY NO. 2 HARNESS |
| 4A | SB | TO BODY NO. 2 HARNESS |
| 5A | - | TO BODY NO. 2 HARNESS |
| 6A | BG | TO BODY NO. 2 HARNESS - (WITH CLIMATE CONTROLLED SEAT) |
| 6A | LG | TO BODY NO. 2 HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT) |
| 7A | W | TO BODY NO. 2 HARNESS |
| 8A | B | TO BODY NO. 2 HARNESS |
| 9A | L/B | TO BODY NO. 2 HARNESS |
| 10A | W | TO BODY NO. 2 HARNESS |
| 11A | R | TO BODY NO. 2 HARNESS |
| 12A | BR | TO BODY NO. 2 HARNESS |
| 13A | G | TO BODY NO. 2 HARNESS |
| 14A | R/G | TO BODY NO. 2 HARNESS |
| 15A | O | TO BODY NO. 2 HARNESS |
| 16A | O/L | TO BODY NO. 2 HARNESS |
| 17A | L | TO BODY NO. 2 HARNESS |
| 18A | Y | TO BODY NO. 2 HARNESS |
| 19A | B/W | TO BODY NO. 2 HARNESS |
| 20A | R | TO BODY NO. 2 HARNESS |
| 21A | BG | TO BODY NO. 2 HARNESS |
| 22A | G | TO BODY NO. 2 HARNESS |

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| | | |
|------|--------|-----------------------|
| 76A | R | TO BODY NO. 2 HARNESS |
| 77A | L | TO BODY NO. 2 HARNESS |
| 78A | SHIELD | TO BODY NO. 2 HARNESS |
| 79A | GR | TO BODY NO. 2 HARNESS |
| 80A | V | TO BODY NO. 2 HARNESS |
| 81A | R | TO BODY NO. 2 HARNESS |
| 82A | SHIELD | TO BODY NO. 2 HARNESS |
| 83A | R | TO BODY NO. 2 HARNESS |
| 84A | O | TO BODY NO. 2 HARNESS |
| 85A | SHIELD | TO BODY NO. 2 HARNESS |
| 86A | W | TO BODY NO. 2 HARNESS |
| 87A | B | TO BODY NO. 2 HARNESS |
| 88A | W | TO BODY NO. 2 HARNESS |
| 89A | SHIELD | TO BODY NO. 2 HARNESS |
| 90A | G | TO BODY NO. 2 HARNESS |
| 91A | W/L | TO BODY NO. 2 HARNESS |
| 92A | BR | TO BODY NO. 2 HARNESS |
| 93A | L/Y | TO BODY NO. 2 HARNESS |
| 94A | R/L | TO BODY NO. 2 HARNESS |
| 95A | BR | TO BODY NO. 2 HARNESS |
| 96A | R | TO BODY NO. 2 HARNESS |
| 97A | LG | TO BODY NO. 2 HARNESS |
| 98A | B/V | TO BODY NO. 2 HARNESS |
| 99A | O/L | TO BODY NO. 2 HARNESS |
| 100A | BR/W | TO BODY NO. 2 HARNESS |

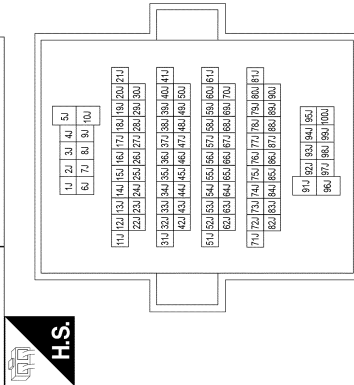
| | | |
|-----|--------|-----------------------|
| 23A | Y | TO BODY NO. 2 HARNESS |
| 24A | L | TO BODY NO. 2 HARNESS |
| 25A | - | TO BODY NO. 2 HARNESS |
| 26A | GR | TO BODY NO. 2 HARNESS |
| 27A | LG | TO BODY NO. 2 HARNESS |
| 28A | LG | TO BODY NO. 2 HARNESS |
| 29A | GR | TO BODY NO. 2 HARNESS |
| 30A | BR | TO BODY NO. 2 HARNESS |
| 31A | W/R | TO BODY NO. 2 HARNESS |
| 32A | G/R | TO BODY NO. 2 HARNESS |
| 33A | - | TO BODY NO. 2 HARNESS |
| 34A | SHIELD | TO BODY NO. 2 HARNESS |
| 35A | P | TO BODY NO. 2 HARNESS |
| 36A | B | TO BODY NO. 2 HARNESS |
| 37A | - | TO BODY NO. 2 HARNESS |
| 38A | R/B | TO BODY NO. 2 HARNESS |
| 39A | G/O | TO BODY NO. 2 HARNESS |
| 40A | V | TO BODY NO. 2 HARNESS |
| 41A | SHIELD | TO BODY NO. 2 HARNESS |
| 42A | SHIELD | TO BODY NO. 2 HARNESS |
| 43A | R | TO BODY NO. 2 HARNESS |
| 44A | G | TO BODY NO. 2 HARNESS |
| 45A | - | TO BODY NO. 2 HARNESS |
| 46A | - | TO BODY NO. 2 HARNESS |
| 47A | Y | TO BODY NO. 2 HARNESS |
| 48A | R/W | TO BODY NO. 2 HARNESS |
| 49A | R/L | TO BODY NO. 2 HARNESS |
| 50A | B | TO BODY NO. 2 HARNESS |
| 51A | - | TO BODY NO. 2 HARNESS |
| 52A | - | TO BODY NO. 2 HARNESS |
| 53A | - | TO BODY NO. 2 HARNESS |
| 54A | - | TO BODY NO. 2 HARNESS |
| 55A | - | TO BODY NO. 2 HARNESS |
| 56A | - | TO BODY NO. 2 HARNESS |
| 57A | - | TO BODY NO. 2 HARNESS |
| 58A | - | TO BODY NO. 2 HARNESS |
| 59A | - | TO BODY NO. 2 HARNESS |
| 60A | G/W | TO BODY NO. 2 HARNESS |
| 61A | - | TO BODY NO. 2 HARNESS |
| 62A | - | TO BODY NO. 2 HARNESS |
| 63A | - | TO BODY NO. 2 HARNESS |
| 64A | - | TO BODY NO. 2 HARNESS |
| 65A | - | TO BODY NO. 2 HARNESS |
| 66A | - | TO BODY NO. 2 HARNESS |
| 67A | - | TO BODY NO. 2 HARNESS |
| 68A | - | TO BODY NO. 2 HARNESS |
| 69A | Y/R | TO BODY NO. 2 HARNESS |
| 70A | R/G | TO BODY NO. 2 HARNESS |
| 71A | - | TO BODY NO. 2 HARNESS |
| 72A | W | TO BODY NO. 2 HARNESS |
| 73A | G | TO BODY NO. 2 HARNESS |
| 74A | W | TO BODY NO. 2 HARNESS |
| 75A | SHIELD | TO BODY NO. 2 HARNESS |

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POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|-----------------|
| Connector No. | M40 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

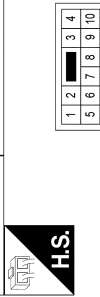


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 1J | G | TO BODY HARNESS |
| 2J | PV | TO BODY HARNESS |
| 3J | L | TO BODY HARNESS |
| 4J | L/B | TO BODY HARNESS |
| 5J | B | TO BODY HARNESS |
| 6J | BR | TO BODY HARNESS |
| 7J | BG | TO BODY HARNESS |
| 8J | SB | TO BODY HARNESS |
| 9J | BR | TO BODY HARNESS |
| 10J | R | TO BODY HARNESS |
| 11J | O/B | TO BODY HARNESS |
| 12J | L | TO BODY HARNESS |
| 13J | W | TO BODY HARNESS |
| 14J | Y | TO BODY HARNESS |
| 15J | - | TO BODY HARNESS |
| 16J | R | TO BODY HARNESS |
| 17J | G | TO BODY HARNESS |
| 18J | SB | TO BODY HARNESS |
| 19J | O | TO BODY HARNESS |
| 20J | O/B | TO BODY HARNESS |
| 21J | Y | TO BODY HARNESS |
| 22J | P | TO BODY HARNESS |
| 23J | W | TO BODY HARNESS |
| 24J | W/R | TO BODY HARNESS |
| 25J | P | TO BODY HARNESS |
| 26J | L | TO BODY HARNESS |
| 27J | R | TO BODY HARNESS |

AAKIA4150GB

| | | |
|------|--------|-----------------|
| 81J | SHIELD | TO BODY/HARNESS |
| 82J | L/R | TO BODY/HARNESS |
| 83J | - | TO BODY/HARNESS |
| 84J | - | TO BODY/HARNESS |
| 85J | W | TO BODY/HARNESS |
| 86J | G | TO BODY/HARNESS |
| 87J | W | TO BODY/HARNESS |
| 88J | SHIELD | TO BODY/HARNESS |
| 89J | R | TO BODY/HARNESS |
| 90J | L | TO BODY/HARNESS |
| 91J | L/B | TO BODY/HARNESS |
| 92J | S/B | TO BODY/HARNESS |
| 93J | B | TO BODY/HARNESS |
| 94J | L/G | TO BODY/HARNESS |
| 95J | L | TO BODY/HARNESS |
| 96J | G | TO BODY/HARNESS |
| 97J | B/Y | TO BODY/HARNESS |
| 98J | L/B | TO BODY/HARNESS |
| 99J | W/L | TO BODY/HARNESS |
| 100J | Y | TO BODY/HARNESS |

| | |
|-----------------|--------------|
| Connector No. | M75 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10MW-CS |
| Connector Color | WHITE |



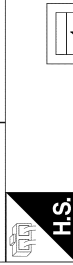
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------------|
| 1 | B/W | TO FRONT DOOR RH HARNESS |
| 2 | B | TO FRONT DOOR RH HARNESS |
| 3 | W | TO FRONT DOOR RH HARNESS |
| 4 | V | TO FRONT DOOR RH HARNESS |
| 5 | W/B | TO FRONT DOOR RH HARNESS |
| 6 | G/Y | TO FRONT DOOR RH HARNESS |
| 7 | W/B | TO FRONT DOOR RH HARNESS |
| 8 | L/B | TO FRONT DOOR RH HARNESS |
| 9 | G/Y | TO FRONT DOOR RH HARNESS |
| 10 | | TO FRONT DOOR RH HARNESS |

| | |
|-----------------|---------------------------|
| Connector No. | M81 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/R/FL |
| 133 | BR | DOOR UNLOCK AS/R/R/L |
| 134 | B | GN02 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT- POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GN01 |

| | |
|-----------------|-------------------|
| Connector No. | M82 |
| Connector Name | CIRCUIT BREAKER-1 |
| Connector Type | M02FW-LC |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L/B | BATTERY |
| 2 | W | BATTERY |

POWER WINDOW SYSTEM

< WIRING DIAGRAM >

POWER WINDOW SYSTEM CONNECTORS

| | |
|-----------------|------------------------------------|
| Connector No. | M154 |
| Connector Name | REAR POWER SLIDE GLASS CLOSE RELAY |
| Connector Type | MS03FB-M2-LC |
| Connector Color | BLACK |



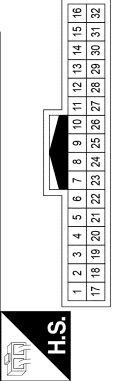
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 1 | LG | P/W POWER SUPPLY IGN |
| 2 | G | RELAY CONTROL |
| 3 | L/Y | RELAY OUTPUT |
| 4 | B | GROUND |
| 5 | L/W | BATTERY |

| | |
|-----------------|-----------------------------------|
| Connector No. | M155 |
| Connector Name | REAR POWER SLIDE GLASS OPEN RELAY |
| Connector Type | MS03FB-M2-LC |
| Connector Color | BLACK |



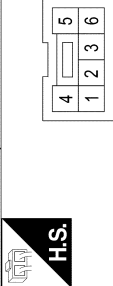
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 1 | LG | P/W POWER SUPPLY IGN |
| 2 | L/W | RELAY CONTROL |
| 3 | B/V | RELAY OUTPUT |
| 4 | B | GROUND |
| 5 | L/BR | BATTERY |

| | |
|-----------------|--------------|
| Connector No. | R1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH32MMW-NH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 1 | SHIELD | TO MAIN HARNESS |
| 2 | R | TO MAIN HARNESS |
| 3 | W | TO MAIN HARNESS |
| 4 | Y/R | TO MAIN HARNESS |
| 5 | G/W | TO MAIN HARNESS |
| 6 | G/R | TO MAIN HARNESS |
| 7 | B | TO MAIN HARNESS |
| 8 | L | TO MAIN HARNESS |
| 9 | R/G | TO MAIN HARNESS |
| 10 | G | TO MAIN HARNESS |
| 11 | L/W | TO MAIN HARNESS |
| 12 | L | TO MAIN HARNESS |
| 13 | GR | TO MAIN HARNESS |
| 14 | R | TO MAIN HARNESS |
| 15 | W/B | TO MAIN HARNESS |
| 16 | L/B | TO MAIN HARNESS |
| 17 | - | TO MAIN HARNESS |
| 18 | P | TO MAIN HARNESS |
| 19 | W/L | TO MAIN HARNESS |
| 20 | W/B | TO MAIN HARNESS |
| 21 | - | TO MAIN HARNESS |
| 22 | - | TO MAIN HARNESS |
| 23 | - | TO MAIN HARNESS |
| 24 | - | TO MAIN HARNESS |
| 25 | - | TO MAIN HARNESS |
| 26 | - | TO MAIN HARNESS |
| 27 | - | TO MAIN HARNESS |
| 28 | Y/R | TO MAIN HARNESS |
| 29 | G/R | TO MAIN HARNESS |
| 30 | G/W | TO MAIN HARNESS |
| 31 | LQ/B | TO MAIN HARNESS |
| 32 | Y/V | TO MAIN HARNESS |

| | |
|-----------------|-------------------------------|
| Connector No. | R19 |
| Connector Name | REAR POWER SLIDE GLASS SWITCH |
| Connector Type | TK06FW-1V |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 1 | G | SWITCH OUTPUT (CLOSE) |
| 2 | GR | ILLUMINATION - |
| 3 | B | GROUND |
| 4 | L | ILLUMINATION + |
| 5 | L/W | SWITCH OUTPUT (OPEN) |
| 6 | - | - |

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

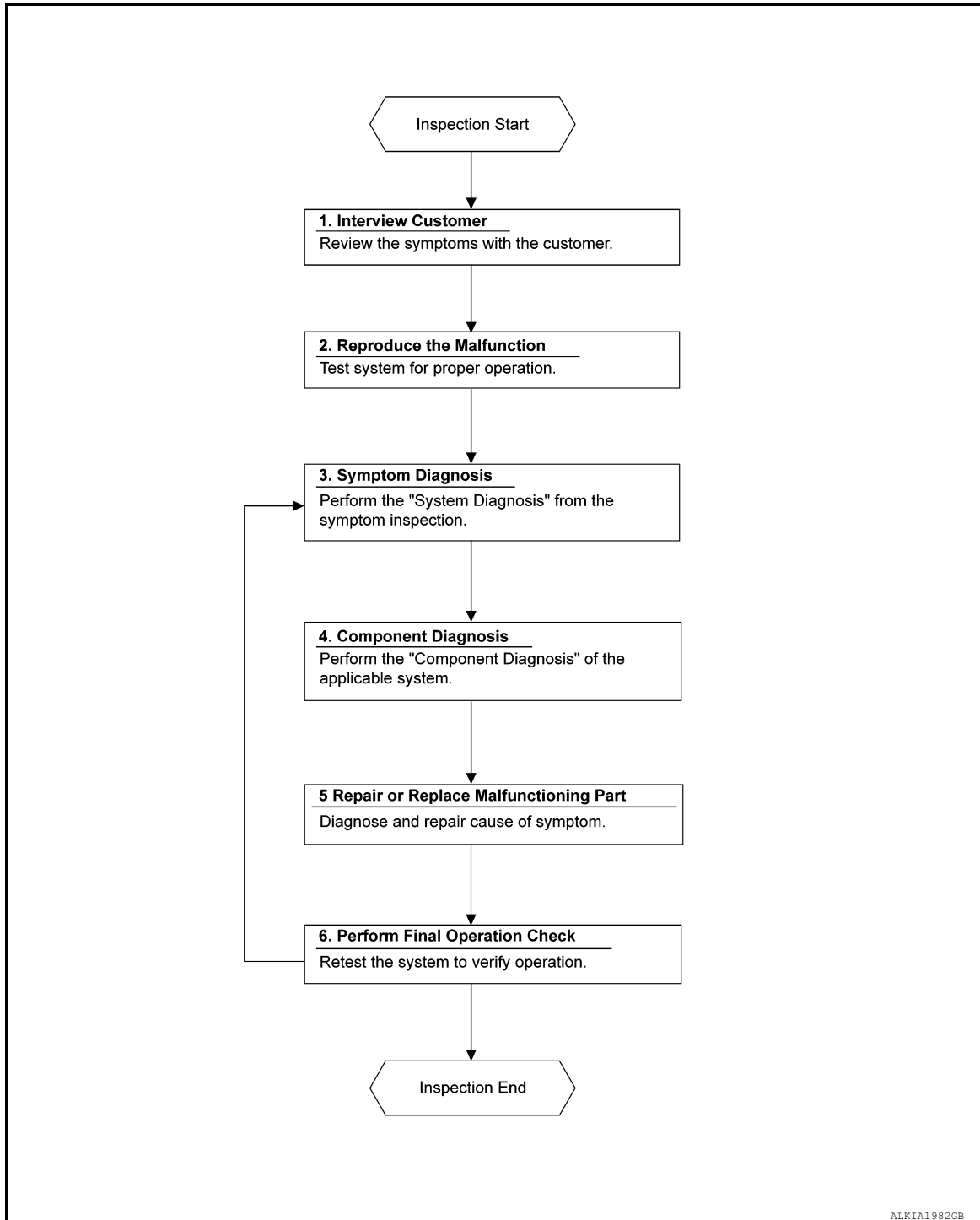
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000014391435

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW CUSTOMER

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

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2.

2. REPRODUCE THE MALFUNCTION

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

>> GO TO 3.

3. 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. COMPONENT DIAGNOSIS

Perform the diagnosis with Component Diagnosis of the applicable system.

>> GO TO 5.

5. REPAIR OR REPLACE THE MALFUNCTIONING PART

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. PERFORM FINAL OPERATIONAL 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.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:0000000014391436

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

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

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

- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:0000000014391437

INITIALIZATION PROCEDURE

1. Disconnect battery minus terminal or main power and window door lock/unlock switch connector. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. 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.
5. Initializing procedure is completely.
6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Do not check with hands and other body parts because they may be pinched. Do not get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without full close. Perform initial setting in that situation. Refer to [PWC-10, "Fail-safe"](#)
- Finish initial setting. Otherwise, next operation cannot be done.

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000014391438

Refer to [PWC-34, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Re-

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

quirement

INFOID:0000000014391439

Refer to [PWC-34. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#) for initialization procedure and check anti-pinch function.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000014697572

Regarding Wiring Diagram information, refer to [BCS-54, "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

| Signal name | Fuse and fusible link No. | |
|----------------------------|---------------------------|---------|
| | Cummins 5.0L | VK56VD |
| Fusible link battery power | R (50A) | N (50A) |
| BCM battery fuse | 1 (10A) | 1 (10A) |

Is the fuse or fusible link blown?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M81.

2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

| BCM | | Ground | Voltage (Approx.) |
|-----------|----------|--------|----------------------|
| Connector | Terminal | | |
| M81 | 131 | (—) | Battery voltage |
| | 139 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M81 | 134 | — | Yes |
| | 143 | | |

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000014391441

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1.CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connectors.
3. Turn ignition switch ON.
4. Check voltage between main power window and door lock/unlock switch harness connectors and ground.

| (+) | | (-) | Voltage (Approx.) |
|---|----------|--------|----------------------|
| Main power window and door lock/unlock switch | | | |
| Connector | Terminal | | |
| D7 | 10 | Ground | Battery voltage |
| D8 | 18 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M81.
3. Check continuity between BCM harness connector M81 and main power window and door lock/unlock switch harness connector.

| BCM | | Main power window and door lock/unlock switch | | Continuity |
|-----------|----------|---|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 | 140 | D7 | 10 | Yes |
| | 141 | D8 | 18 | |

4. Check continuity between BCM harness connector M81 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M81 | 140 | | No |
| | 141 | | |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

| Main power window and door lock/unlock switch | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D7 | 1 | | Yes |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:0000000014391442

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1. CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector D129.
3. Turn ignition switch ON.
4. Check voltage between power window and door lock/unlock switch RH harness connector D129 and ground.

| (+) | | (-) | Voltage (Approx.) |
|---|----------|--------|----------------------|
| Power window and door lock/unlock switch RH | | | |
| Connector | Terminal | | |
| D129 | 8 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M81.
3. Check continuity between BCM harness connector M81 and power window and door lock/unlock switch RH harness connector D129.

| BCM | | Power window and door lock/unlock switch RH | | Continuity |
|-----------|----------|---|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M81 | 141 | D129 | 8 | Yes |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between power window and door lock/unlock switch RH harness connector D129 and ground.

| Power window and door lock/unlock switch RH | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D129 | 7 | | Yes |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

REAR POWER WINDOW SWITCH

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000014391443

Regarding Wiring Diagram information, refer to [PWC-20. "Wiring Diagram"](#).

1.CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect rear power window switch LH connector D203 and rear power window switch RH connector D309.
3. Turn ignition switch ON.
4. Check voltage between rear power window switch harness connector D203, D309, and ground.

| (+) | | Terminal | (−) | Voltage (Approx.) |
|--------------------------|------|----------|--------|----------------------|
| Rear power window switch | | | | |
| Connector | | | | |
| LH | D203 | 4 | Ground | Battery voltage |
| RH | D309 | | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM harness connector M17 and rear power window switch harness connector D203 and D309.

| BCM | | Rear power window switch | | Continuity |
|-----------|----------|--------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 | 140 | LH | D203 | Yes |
| | | RH | D309 | |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between rear power window switch harness connector D203, D309, and ground.

| Rear power window switch | | Terminal | Ground | Continuity |
|--------------------------|------|----------|--------|------------|
| Connector | | | | |
| LH | D203 | | | Yes |
| RH | D309 | 2 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> Inspection End.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000014391444

1.CHECK POWER WINDOW MOTOR CIRCUIT

Check front power window motor LH operation with 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-40, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000014391445

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1.CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

| (+) Front power window motor LH | | (-) | Condition | | Voltage (Approx.) |
|---------------------------------|----------|--------|---|------|-------------------|
| Connector | Terminal | | | | |
| D9 | 1 | Ground | Main power window and door lock/unlock switch | UP | Battery voltage |
| | | | | DOWN | 0 |
| | 3 | | | UP | 0 |
| | | | | DOWN | Battery voltage |

Is the inspection result normal?

YES >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector D8.
3. Check continuity between main power window and door lock/unlock switch harness connector D8 and front power window motor LH harness connector D9.

| Main power window and door lock/unlock switch | | Front power window motor LH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D8 | 17 | D9 | 1 | Yes |
| | 19 | | 3 | |

4. Check continuity between main power window and door lock/unlock switch harness connector D8 and ground.

| Main power window and door lock/unlock switch | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D8 | 17 | | No |
| | 19 | | |

Is the inspection result normal?

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation"](#).
- NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000014391446

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check front power window motor RH operation with 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-41, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000014391447

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1. CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH connector D105.
3. Turn ignition switch ON.
4. Check voltage between front power window motor RH harness connector D105 and ground.

| (+) | | (-) | Condition | | Voltage (Approx.) |
|-----------------------------|----------|--------|---|------|----------------------|
| Front power window motor RH | | | | | |
| Connector | Terminal | | | | |
| D105 | 1 | Ground | Power window and door lock/ unlock switch RH | UP | Battery voltage |
| | | | | DOWN | 0 |
| | 3 | | | UP | 0 |
| | | | | DOWN | Battery voltage |

Is the inspection result normal?

- YES >> Replace front power window motor RH. Refer to [GW-19, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/switch RH connector D129.
3. Check continuity between power window and door lock/unlock switch RH harness connector D129 and front power window motor RH harness connector D105.

| Power window and door lock/unlock switch RH | | Front power window motor RH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D129 | 11 | D105 | 1 | Yes |
| | 12 | | 3 | |

4. Check continuity between power window and door lock/unlock switch RH harness connector D105 and ground.

| Power window and door lock/unlock switch RH | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D129 | 11 | | No |
| | 12 | | |

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR LH

REAR LH : Component Function Check

INFOID:0000000014391448

1.CHECK POWER WINDOW MOTOR 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-42, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:0000000014391449

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1.CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear power window motor LH connector D204.
3. Turn ignition switch ON.
4. Check voltage between rear power window motor LH harness connector D204 and ground.

| (+) | | (−) | Condition | | Voltage (Approx.) |
|----------------------------|----------|--------|-----------------------------|------|----------------------|
| Rear power window motor LH | | | | | |
| Connector | Terminal | | | | |
| D204 | 3 | Ground | Rear power window switch LH | UP | Battery voltage |
| | | | | DOWN | 0 |
| | 1 | | | UP | 0 |
| | | | | DOWN | Battery voltage |

Is the inspection result normal?

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

NO >> GO TO 2.

2.CHECK POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear power window switch LH connector D203.
3. Check continuity between rear power window switch LH harness connector D203 and rear power window motor LH harness connector D204.

| Rear power window switch LH Connector Terminal | | Rear power window motor LH Connector Terminal | | Continuity |
|--|---|---|---|------------|
| | | | | |
| D203 | 5 | D204 | 1 | Yes |
| | 6 | | 3 | |

4. Check continuity between rear power window switch LH harness connector D203 and ground.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to [PWC-80. "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR RH

REAR RH : Component Function Check

INFOID:0000000014391450

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to [PWC-43. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:0000000014391451

Regarding Wiring Diagram information, refer to [PWC-20. "Wiring Diagram"](#).

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear power window motor RH connector D304.
3. Turn ignition switch ON.
4. Check voltage between rear power window motor RH harness connector D304 and ground.

| (+) (–) | | (–) | Condition | | Voltage (Approx.) |
|----------------------------|----------|--------|-----------------------------|------|-------------------|
| Rear power window motor RH | | | | | |
| Connector | Terminal | | | | |
| D304 | 1 | Ground | Rear power window switch RH | UP | Battery voltage |
| | | | | DOWN | 0 |
| | 3 | | | UP | Battery voltage |
| | | | | DOWN | 0 |

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 POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear power window switch RH connector D309.
3. Check continuity between rear power window switch RH harness connector D309 and rear power window motor RH harness connector D304.

| Rear power window switch RH | | Rear power window motor RH | | Continuity |
|-----------------------------|----------|----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D309 | 5 | D304 | 1 | Yes |
| | 6 | | 3 | |

4. Check continuity between rear power window switch RH harness connector D309 and ground.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| Rear power window switch RH | | Ground | Continuity |
|-----------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D309 | 5 | | No |
| | 6 | | |

Is the inspection result normal?

- YES >> Replace rear power window switch RH. Refer to [PWC-80, "Removal and Installation"](#).
NO >> Repair or replace harness.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

ENCODER DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000014391452

1.CHECK ENCODER

Check that driver side door glass performs AUTO open/close operation normally by main power window and door lock/unlock switch.

Is the inspection result normal?

- YES >> Encoder is OK.
NO >> Refer to [PWC-45, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

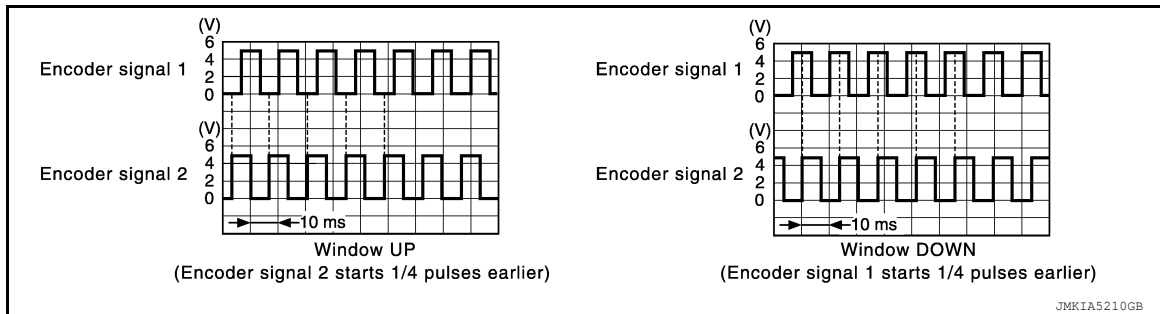
INFOID:0000000014391453

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1.CHECK ENCODER SIGNAL

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

| Signal name | (+) | | (−) | Signal (Reference value) |
|------------------|---|----------|--------|-----------------------------|
| | Main power window and door lock/unlock switch | | | |
| | Connector | Terminal | | |
| Encoder signal 1 | D7 | 5 | Ground | Refer to following signals |
| Encoder signal 2 | | 4 | | |



Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

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

| Main power window and door lock/unlock switch | | Front power window motor LH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D7 | 4 | D9 | 5 | Yes |
| | 5 | | 6 | |

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

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

| Main power window and door lock/unlock switch | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D7 | 4 | | No |
| | 5 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY

1. Connect main power window and door lock/unlock switch connector D9.
2. Turn ignition switch ON.
3. Check voltage between front power window motor LH harness connector D9 and ground.

| (+) | | (-) | Voltage (Approx.) |
|-----------------------------|----------|--------|----------------------|
| Front power window motor LH | | | |
| Connector | Terminal | | |
| D9 | 2 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT

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

| Main power window and door lock/unlock switch | | Front power window motor LH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D7 | 14 | D9 | 2 | Yes |

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

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

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

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

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

Is the inspection result normal?

YES >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#).

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 6.

6.CHECK GROUND CIRCUIT 2

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

| Main power window and door lock/unlock switch | | Front power window motor LH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D7 | 12 | D9 | 4 | Yes |

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

| Main power window and door lock/unlock switch | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D7 | 12 | | No |

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000014391454

1.CHECK ENCODER

Check that passenger side door glass performs AUTO open/close operation normally by main power window and door lock/unlock switch or power window and door lock/unlock switch RH.

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to [PWC-47, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000014391455

PWC

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

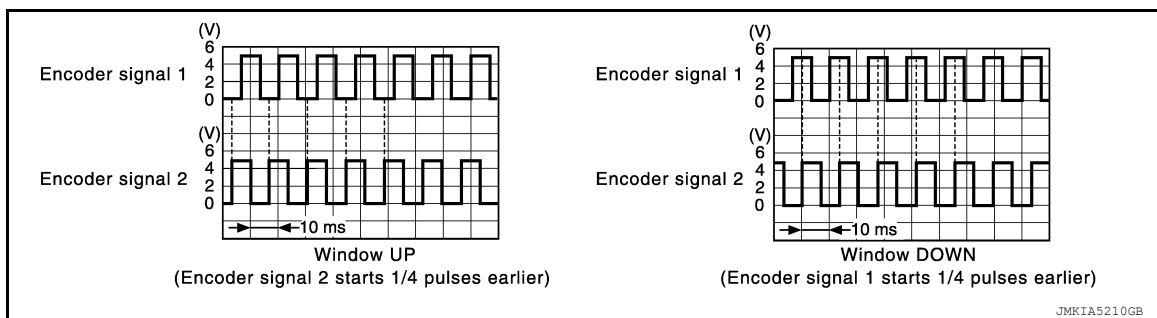
1.CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Check signal between power window and door lock/unlock switch RH harness connector D129 and ground with oscilloscope.

| Signal name | (+) Power window and door lock/unlock switch RH | | (-) Ground | Signal (Reference value) |
|------------------|---|----------|------------|----------------------------|
| | Connector | Terminal | | |
| | D129 | 9 | | |
| Encoder signal 1 | | 10 | | Refer to following signals |
| Encoder signal 2 | | | | |

ENCODER

< DTC/CIRCUIT DIAGNOSIS >



Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector D129 and front power window motor RH connector D105.
3. Check continuity between power window and door lock/unlock switch RH harness connector D129 and front power window motor RH harness connector D105.

| Power window and door lock/unlock switch RH | | Front power window motor RH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D129 | 9 | D105 | 6 | Yes |
| | 10 | | 5 | |

4. Check continuity between power window and door lock/unlock switch RH harness connector D129 and ground.

| Power window and door lock/unlock switch RH | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D129 | 9 | | No |
| | 10 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY

1. Connect power window and door lock/unlock switch RH connector D129.
2. Turn ignition switch ON.
3. Check voltage between power window and door lock/unlock switch RH harness connector D129 and ground.

| (+) | | (-) | Voltage (Approx.) |
|---|----------|--------|----------------------|
| Power window and door lock/unlock switch RH | | | |
| Connector | Terminal | | |
| D129 | 2 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector D129.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between power window and door lock/unlock switch RH harness connector D129 and power window and door lock/unlock motor RH harness connector D105.

| Power window and door lock/unlock switch RH | | Front power window motor RH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D129 | 5 | D105 | 2 | Yes |

- Check continuity between power window and door lock/unlock switch RH harness connector D129 and ground.

| Power window and door lock/unlock switch RH | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D129 | 5 | | No |

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

- Turn ignition switch OFF.
- Check continuity between front power window motor RH harness connector D105 and ground.

| Front power window motor RH | | Ground | Continuity |
|-----------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D105 | 4 | | Yes |

Is the inspection result normal?

YES >> Replace front power window motor RH. Refer to [GW-19, "Removal and Installation"](#).

NO >> GO TO 6.

6.CHECK GROUND CIRCUIT 2

- Disconnect power window and door lock/unlock switch RH connector D129.
- Check continuity between power window and door lock/unlock switch RH harness connector D129 and front power window motor RH harness connector D105.

| Power window and door lock/unlock switch RH | | Front power window motor RH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D129 | 4 | D105 | 4 | Yes |

- Check continuity between power window and door lock/unlock switch RH harness connector D129 and ground.

| Power window and door lock/unlock switch RH | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D129 | 4 | | No |

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

INFOID:0000000014697573

1.CHECK FUNCTION

CONSULT

1. Select "DOOR LOCK" of "BCM".
2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL" or "DOOR SW-RR" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

| Monitor Item | Condition | | Status |
|--------------|---------------|--------|--------|
| DOOR SW-DR | Front door LH | Open | On |
| | | Closed | Off |
| DOOR SW-AS | Front door RH | Open | On |
| | | Closed | Off |
| DOOR SW-RL | Rear door LH | Open | On |
| | | Closed | Off |
| DOOR SW-RR | Rear door RH | Open | On |
| | | Closed | Off |

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [PWC-50, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000014697574

Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

| (+) | | (-) | Signal (Reference value) |
|-------------|----------|--------|---|
| Door switch | | | |
| Connector | Terminal | Ground | <div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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|

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between door switch harness connector and BCM harness connector.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Door switch | | BCM | | Continuity |
|-------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| Front LH | B8 | M20 | 96 | Yes |
| Front RH | B108 | | 94 | |
| Rear LH | B18 | | 82 | |
| Rear RH | B116 | | 93 | |

3. Check continuity between door switch harness connector and ground.

| Door switch | | Ground | Continuity |
|-------------|----------|--------|------------|
| Connector | Terminal | | |
| Front LH | B8 | 3 | No |
| Front RH | B108 | | |
| Rear LH | B18 | | |
| Rear RH | B116 | | |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to [DLK-99, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to [DLK-191, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000014697575

PWC

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

| Door switch | | Condition | | Continuity |
|-------------|---------------------------------------|-------------|----------|------------|
| Terminal | | | | |
| 3 | Ground contact is part of the switch. | Door switch | Pressed | No |
| | | | Released | Yes |

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to [DLK-191, "Removal and Installation"](#).

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000014697576

1.CHECK FUNCTION

CONSULT

1. Select "DOOR LOCK" of "BCM".
2. Select "KEY CYL LK-SW" or "KEY CYL UN-SW" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

| Monitor Item | Condition | | Status |
|---------------|-------------------------------|------------------|--------|
| KEY CYL LK-SW | Driver side door key cylinder | Lock | ON |
| | | Neutral / Unlock | OFF |
| KEY CYL UN-SW | | Unlock | ON |
| | | Neutral / Lock | OFF |

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to [PWC-52. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000014697577

Regarding Wiring Diagram information, refer to [DLK-56. "Wiring Diagram"](#).

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check voltage between front door lock assembly LH harness connector and ground.

| (+) | | (-) | Voltage (Approx.) |
|-----------------------------|----------|--------|----------------------|
| Front door lock assembly LH | | | |
| Connector | Terminal | | |
| D14 | 5 | Ground | 5 V |
| | 6 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

1. Disconnect main power window and door lock/unlock switch connector.
2. Check continuity between main power window and door lock/unlock switch harness connector and front door lock assembly LH harness connector.

| Main power window and door lock/unlock switch | | Front door lock assembly LH | | Continuity |
|---|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D7 | 3 | D14 | 6 | Yes |
| | 15 | | 5 | |

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

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Main power window and door lock/unlock switch | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| D7 | 3 | | No |
| | 15 | | |

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly LH harness connector and ground.

| Front door lock assembly LH | | Ground | Continuity |
|-----------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D14 | 4 | | Yes |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

Refer to [DLK-111, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000014697578

PWC

1.CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check continuity between front door lock assembly LH terminals.

| Front door lock assembly LH | | Condition | | Continuity |
|-----------------------------|---|-------------------------------|------------------|------------|
| Terminal | | | | |
| 5 | 4 | Driver side door key cylinder | Unlock | Yes |
| | | | Neutral / Lock | No |
| 6 | | | Lock | Yes |
| | | | Neutral / Unlock | No |

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation"](#).

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SERIAL LINK

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:0000000014391462

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signals mentioned below are transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH:

- Keyless power window down signal

The signal mentioned below is transmitted from main power window and door lock/unlock switch to power window and door lock/unlock switch RH:

- Front door window RH operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:0000000014391463

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

Check "CDL LOCK SW " or "CDL UNLOCK SW" in "Data Monitor" mode of "BCM (DOOR LOCK)" with CONSULT. Refer to [BCS-20, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

| Monitor item | Condition | |
|---------------|-----------|-------|
| CDL LOCK SW | LOCK | : ON |
| | UNLOCK | : OFF |
| CDL UNLOCK SW | LOCK | : OFF |
| | UNLOCK | : ON |

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to [PWC-54, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000014391464

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

Power Window Serial Link Check

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Remove key and close front door LH and RH.
2. Check signal between BCM harness connector M20 and ground with oscilloscope when door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".
3. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

| Terminal | | | Signal (Reference value) |
|----------|----------|--------|--|
| (+) | | (-) | |
| BCM | Terminal | | |
| M20 | 54 | Ground | <div><div><div>(V)</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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|

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and main power window and door lock/unlock switch.
- Check continuity between BCM harness connector M20 and main power window and door lock/unlock switch harness connector D7.

| BCM connector | Terminal | Main power window and door lock/unlock switch connector | Terminal | Continuity |
|---------------|----------|---|----------|------------|
| M20 | 54 | D7 | 11 | Yes |

- Check continuity between BCM connector M20 and ground.

| BCM connector | Terminal | Ground | Continuity |
|---------------|----------|--------|------------|
| M20 | 54 | | No |

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH : Description

INFOID:0000000014391465

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signals mentioned below are transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH:

- Keyless power window down signal

The signal mentioned below is transmitted from main power window and door lock/unlock switch to power window and door lock/unlock switch RH:

- Front door window RH operation signal
- Power window control by key cylinder switch signal
- Retained power operation signal
- Power window lock switch signal

FRONT POWER WINDOW SWITCH : Component Function Check

INFOID:0000000014391466

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

Check "CDL LOCK SW" or "CDL UNLOCK SW" in "Data Monitor" mode of " " with CONSULT. Refer to [BCS-20, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

| Monitor item | Condition |
|---------------|--------------|
| CDL LOCK SW | LOCK : ON |
| | UNLOCK : OFF |
| CDL UNLOCK SW | LOCK : OFF |
| | UNLOCK : ON |

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to [PWC-56, "FRONT POWER WINDOW SWITCH : Diagnosis Procedure"](#).

FRONT POWER WINDOW SWITCH : Diagnosis Procedure

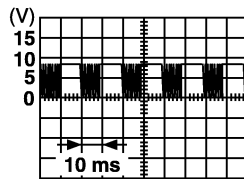
INFOID:0000000014391467

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

Power Window Serial Link Check

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

1. Remove key and close the front door LH and RH.
2. Check signal between BCM harness connector M20 and ground with oscilloscope when door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".
3. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".

| Terminal | | | Signal (Reference value) |
|---------------|----------|--------|---|
| (+) | | (-) | |
| BCM connector | Terminal | | |
| M20 | 54 | Ground | <div><p>(V) 15 10 5 0</p><p>10 ms</p></div> <div>PIIA1297E</div> |

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM.
3. Check continuity between BCM harness connector M20 and power window and door lock/unlock switch RH harness connector M129.

| BCM connector | Terminal | Power window and door lock/unlock switch RH connector | Terminal | Continuity |
|---------------|----------|---|----------|------------|
| M20 | 54 | D129 | 3 | Yes |

4. Check continuity between BCM connector M20 and ground.

| BCM connector | Terminal | Ground | Continuity |
|---------------|----------|--------|------------|
| M20 | 54 | | No |

Is the inspection result normal?

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77. "Removal and Installation"](#).
- NO >> Repair or replace the harness or connectors.

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PWC

REAR POWER SLIDE GLASS CIRCUIT CHECK

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER SLIDE GLASS CIRCUIT CHECK

Rear Power Slide Glass Circuit Inspection

INFOID:0000000014391468

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1. CHECK REAR POWER SLIDE GLASS SWITCH OPERATION

1. Turn ignition switch OFF.
2. Disconnect rear power slide glass switch connector R19.
3. Check continuity between rear power slide glass switch terminals 1, 3 and 5.

| Terminals | | Condition | Continuity |
|-----------|---|---|------------|
| 3 | 5 | Rear power drop glass switch is pressed OPEN | Yes |
| | 1 | Rear power drop glass switch is pressed CLOSE | Yes |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace rear power slide glass switch. Refer to [PWC-81, "Removal and Installation"](#).

2. CHECK REAR POWER SLIDE GLASS SWITCH GROUND CIRCUIT HARNESS CONTINUITY

Check continuity between rear power slide glass switch connector R19 and ground.

| Connector | Terminal | Ground | Continuity |
|-----------|----------|--------|------------|
| R19 | 3 | | Yes |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK REAR POWER SLIDE GLASS SIGNAL

1. Connect rear power slide glass switch.
2. Disconnect rear power slide glass motor connector B150.
3. Turn ignition switch ON.
4. Check voltage between rear power slide glass motor connector B150 and ground.

| Connector | (+) | (-) | Condition | Voltage (Approx.) |
|-----------|-----|--------|-----------|----------------------|
| B150 | 1 | Ground | Close | Battery voltage |
| | | | Open | 0 |
| | 2 | | Close | 0 |
| | | | Open | Battery voltage |

Is the inspection result normal?

YES >> Replace rear power slide glass motor. Refer to [GW-27, "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR POWER SLIDE GLASS OPEN RELAY CHECK

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER SLIDE GLASS OPEN RELAY CHECK

Rear Power Slide Glass Open Relay Check

INFOID:000000014391469

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1. CHECK REAR POWER SLIDE GLASS OPEN RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear power slide glass open relay connector M155.
3. Turn ignition switch ON.
4. Check voltage between rear power slide glass open relay connector M155 and ground.

| Connector | (+) | (-) | Voltage (Approx.) |
|-----------|-----|--------|----------------------|
| M155 | 1 | Ground | Battery voltage |
| | 5 | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK REAR POWER SLIDE GLASS OPEN RELAY

Check continuity between rear power slide glass open relay terminals.

| Terminals | | Condition | Continuity |
|-----------|---|---|------------|
| 3 | 4 | 12V direct current supply between terminals 1 and 2 | No |
| | | No current supply | Yes |
| | 5 | 12V direct current supply between terminals 1 and 2 | Yes |
| | | No current supply | No |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace rear power slide glass open relay.

3. CHECK REAR POWER SLIDE GLASS OPEN RELAY GROUND CIRCUIT

Check continuity between rear power slide glass open relay connector M155 and ground.

| Connector | Terminal | Ground | Continuity |
|-----------|----------|--------|------------|
| M155 | 4 | | Yes |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK REAR POWER SLIDE GLASS OPEN RELAY CIRCUIT

1. Disconnect rear power slide glass switch.
2. Check continuity between rear power slide glass open relay connector M155 and rear power slide glass switch connector R19.

| Rear power slide glass open relay | | Rear power slide switch | | Continuity |
|-----------------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M155 | 2 | R19 | 5 | Yes |

Is the inspection result normal?

REAR POWER SLIDE GLASS OPEN RELAY CHECK

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace rear power slide glass switch. Refer to [PWC-81, "Removal and Installation"](#).
NO >> Repair or replace harness.

REAR POWER SLIDE GLASS CLOSE RELAY CHECK

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER SLIDE GLASS CLOSE RELAY CHECK

Rear Power Slide Glass Close Relay Check

INFOID:000000014391470

Regarding Wiring Diagram information, refer to [PWC-20, "Wiring Diagram"](#).

1. CHECK REAR POWER SLIDE GLASS CLOSE RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear power slide glass close relay connector M154.
3. Turn ignition switch ON.
4. Check voltage between rear power slide glass close relay connector M154 and ground.

| Connector | (+) | (-) | Voltage (Approx.) |
|-----------|-----|--------|----------------------|
| M154 | 1 | Ground | Battery voltage |
| | 5 | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK REAR POWER SLIDE GLASS CLOSE RELAY

Check continuity between rear power slide glass close relay terminals.

| Terminals | | Condition | Continuity |
|-----------|---|---|------------|
| 3 | 4 | 12V direct current supply between terminals 1 and 2 | No |
| | | No current supply | Yes |
| | 5 | 12V direct current supply between terminals 1 and 2 | Yes |
| | | No current supply | No |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace rear power drop glass close relay.

3. CHECK REAR POWER SLIDE GLASS CLOSE RELAY GROUND CIRCUIT

Check continuity between rear power slide glass close relay connector M154 and ground.

| Connector | Terminal | Ground | Continuity |
|-----------|----------|--------|------------|
| M154 | 4 | | Yes |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK REAR POWER SLIDE GLASS CLOSE RELAY CIRCUIT

1. Disconnect rear power slide glass switch.
2. Check continuity between rear power slide glass close relay connector M154 and rear power slide glass switch connector R19.

| Rear power slide glass open relay | | Rear power slide switch | | Continuity |
|-----------------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M154 | 2 | R19 | 1 | Yes |

Is the inspection result normal?

REAR POWER SLIDE GLASS CLOSE RELAY CHECK

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace rear power slide glass switch. Refer to [PWC-81, "Removal and Installation"](#).
NO >> Repair or replace harness.

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:0000000014391471

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-72, "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 POWER SUPPLY AND GROUND CIRCUIT

Check power window switch main power supply and ground circuit.

Refer to [PWC-36, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

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

Check main power window and door lock/unlock switch serial circuit.

Refer to [PWC-54, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

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

Check main power window and door lock/unlock switch.

Refer to [PWC-36, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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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:0000000014391472

1. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to [PWC-40, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "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:0000000014391473

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

Check power window and door lock/unlock switch RH.

Refer to [PWC-38, "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 POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH SERIAL LINK CIRCUIT

Check power window and door lock/unlock switch RH serial link circuit.

Refer to [PWC-54, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH circuit.

Refer to [PWC-40, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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PWC

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000014391474

1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-39, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-42, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "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:0000000014391475

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-39, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-43, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "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:0000000014391476

1. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-45, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000014391477

1. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-45, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "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:0000000014391478

1. PERFORM INITIALIZATION PROCEDURE

Refer to [PWC-34, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

Does automatic function operate normally?

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

2. CHECK ENCODER

Check encoder.

Refer to [PWC-45, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000014391479

1. PERFORM INITIALIZATION PROCEDURE

Refer to [PWC-34, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

Does automatic function operate normally?

YES >> Inspection End.
NO >> GO TO 2.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-45, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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PWC

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000014391480

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [DLK-98, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

DOES NOT OPERATE BY KEY CYLINDER SWITCH

< SYMPTOM DIAGNOSIS >

DOES NOT OPERATE BY KEY CYLINDER SWITCH

Diagnosis Procedure

INFOID:0000000014391481

1. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH)

Check front door lock assembly LH (key cylinder switch).

Refer to [DLK-102. "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

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PWC

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000014391482

1. CHECK KEYFOB FUNCTION

Check keyfob function.

Refer to [BCS-26. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#) with remote keyless entry system.

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).
- NO >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000014391483

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

Replace main power window and door lock/unlock switch.

Refer to [PWC-77. "Removal and Installation"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

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PWC

REAR POWER SLIDE GLASS DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR POWER SLIDE GLASS DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000014391484

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-72, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER SLIDE GLASS SWITCH

Check rear power slide glass switch.

Refer to [PWC-58, "Rear Power Slide Glass Circuit Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR POWER SLIDE GLASS MOTOR CIRCUIT

Check rear power slide glass motor circuit.

Refer to [PWC-58, "Rear Power Slide Glass Circuit Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK REAR POWER SLIDE GLASS RELAYS

Check rear power slide glass relays.

Refer to [PWC-59, "Rear Power Slide Glass Open Relay Check"](#) and [PWC-61, "Rear Power Slide Glass Close Relay Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

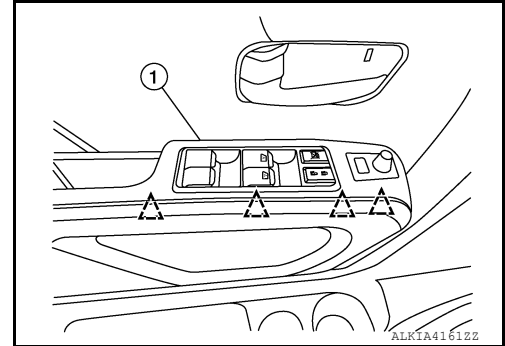
Removal and Installation

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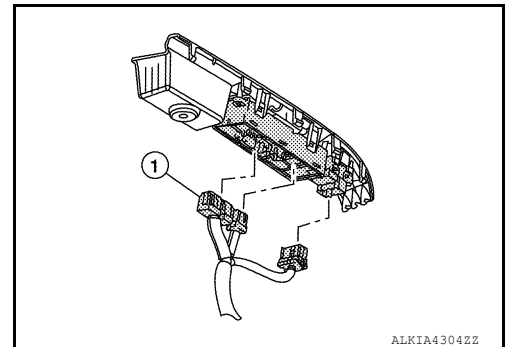
REMOVAL

1. Remove the main power window and door lock/unlock switch finisher and main power window and door lock/unlock switch (1) from the door finisher using suitable tool.

△ : Clip

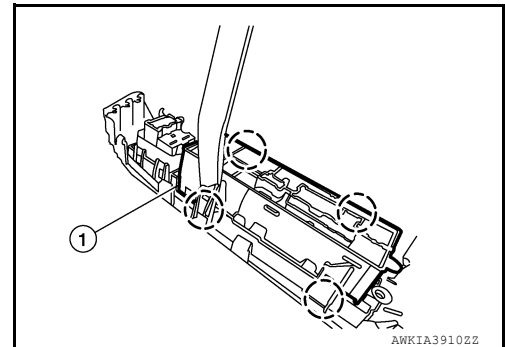


2. Disconnect the harness connector (1) from the main power window and door lock/unlock switch.

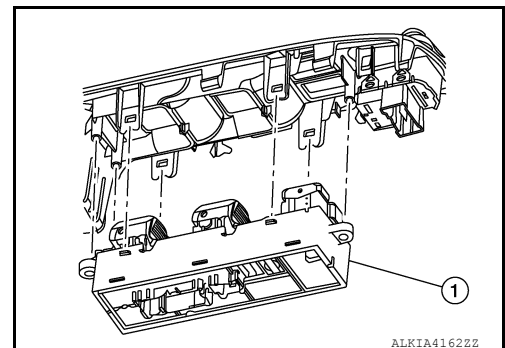


3. Release the main power window and door lock/unlock switch finisher pawls from the main power window and door lock/unlock switch (1) using suitable tool.

○ : Pawl



4. Remove the main power window and door lock/unlock switch (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

< REMOVAL AND INSTALLATION >

Whenever the main power window and door lock/unlock switch is disconnected from the harness connector, it is necessary to perform the initialization procedure. Refer to [PWC-34, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

< REMOVAL AND INSTALLATION >

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

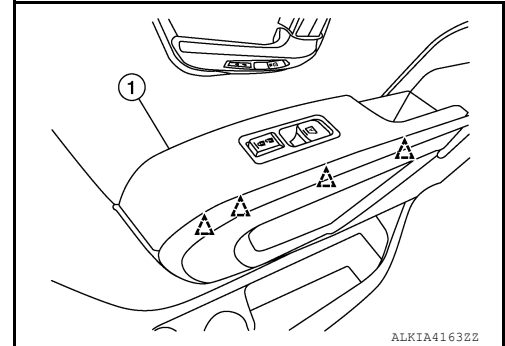
Removal and Installation

INFOID:0000000014391486

REMOVAL

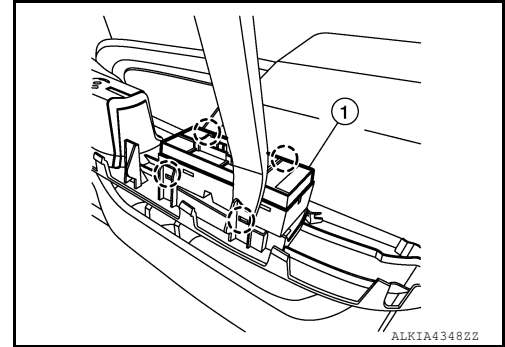
1. Using a suitable tool release the clips and remove power window and door lock/unlock switch RH and the power window and door lock/unlock switch RH finisher (1).

△ : Clip



2. Disconnect the harness connector from the power window and door lock/unlock switch RH.
3. Using a suitable tool, release the pawls and remove the power window and door lock/unlock switch RH (1).

○ : Pawl



INSTALLATION

Installation is in the reverse order of removal.

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PWC

REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

REAR POWER WINDOW SWITCH

Removal and Installation

INFOID:0000000014391487

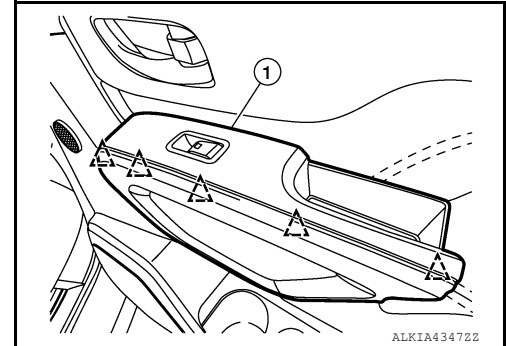
REMOVAL

1. Remove the rear power window switch finisher and rear power window switch (1) using suitable tool.

NOTE:

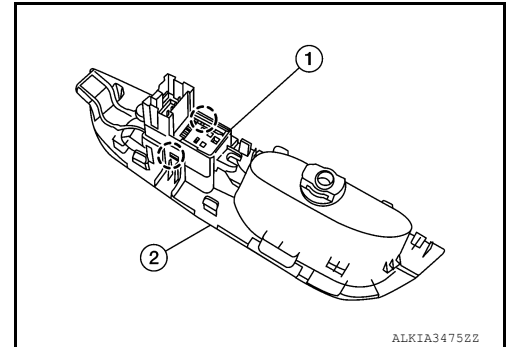
RH shown, LH similar.

△ : Clip



2. Disconnect the harness connector from the rear power window switch.
3. Using a suitable tool, release the pawls and remove the rear power window switch (1) from the rear power window switch finisher (2).

○ : Pawl



INSTALLATION

Installation is in the reverse order of removal.

REAR POWER SLIDE GLASS SWITCH

< REMOVAL AND INSTALLATION >

REAR POWER SLIDE GLASS SWITCH

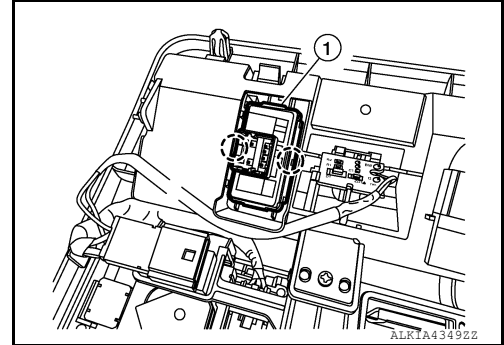
Removal and Installation

INFOID:0000000014391488

REMOVAL

1. Remove the overhead console. Refer to [INT-32. "Removal and Installation"](#).
2. Disconnect the harness connector from the rear power slide glass switch.
3. Remove rear power slide glass switch (1) from the overhead console using suitable tool.

○ : Pawl



INSTALLATION

Installation is in the reverse order of removal.

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PWC