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PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery or batteries, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

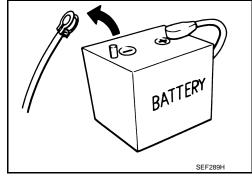
When disconnecting the battery terminal, pay attention to the following.

Always use a 12V battery as power source.

: 4 minutes

- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE : 4 minutes V9X engine : 4 minutes : 20 minutes YD25DDTi D4D engine : 2 minutes YS23DDT HR09DET : 12 minutes : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds : 60 seconds M9R engine : 4 minutes ZD30DDTT



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NOTE:

R9M engine

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

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.
 NOTE:

PRECAUTIONS

< PRECAUTION >

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

 After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC. NOTE:

The removal of 12V battery may cause a DTC detection error.

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PREPARATION

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PREPARATION

PREPARATION

Commercial Service Tools

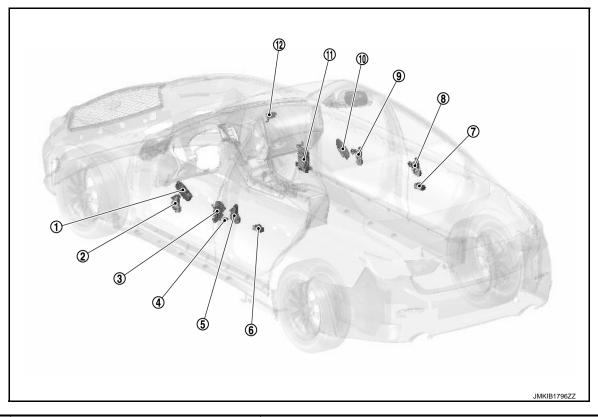
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	Tool name	Description
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



No.	Component	Function
1	Power window main switch	Refer to PWC-8, "Power Window Main Switch".
2	Front power window motor (driver side)	Refer to PWC-9, "Power Window Motor".
3	Front door lock assembly (driver side) (door key cylinder switch)	Transmits operation condition of door key cylinder switch to power window main switch. Refer to <u>DLK-12</u> , " <u>DOOR LOCK SYSTEM</u> : <u>Front Door Lock Assembly"</u> .
4	Front door switch (driver side)	Detects door open/close condition and transmits to BCM. Refer to <u>DLK-11</u> , "DOOR LOCK SYSTEM: Door Switch".
(5)	Rear power window motor LH	Refer to PWC-9, "Power Window Motor".
6	Rear power window switch LH	Refer to PWC-8, "Rear Power Window Switch".
7	Rear power window switch RH	Refer to PWC-8, "Rear Power Window Switch".
8	Rear power window motor RH	Refer to PWC-9, "Power Window Motor".
9	Front power window motor (passenger side)	Refer to PWC-9, "Power Window Motor".
10	Front power window switch (passenger side)	Refer to PWC-8, "Front Power Window Switch (Passenger side)".

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COMPONENT PARTS

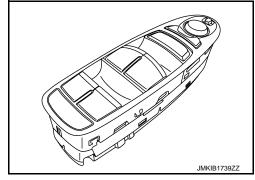
< SYSTEM DESCRIPTION >

No.	Component	Function
11)	ВСМ	Supplies power supply to power window switch. Controls retained power. Receives key ID signal from remote keyless entry receiver. Controls keyless power window operation via serial link. Refer to BCS-5, "BODY CONTROL SYSTEM: Component Parts Location".
12	Remote keyless entry receiver	Receives key ID signal from the Intelligent Key, and then transmits to BCM.Refer to DLK-13, "DOOR LOCK SYSTEM: Remote Keyless Entry Receiver".

Power Window Main Switch

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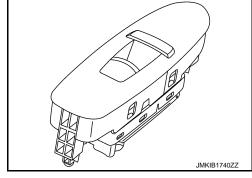
- Integrates the module.
- Power window main switch controls all power windows.
- Power window main switch integrates UP/DOWN switch, power window lock switch, door mirror remote control switch, and door lock/unlock switch.
- Power window main switch controls power window lock function, AUTO UP/DOWN function.
- Receives encoder pulse signal, and then controls anti-pinch system.



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Front Power Window Switch (Passenger side)

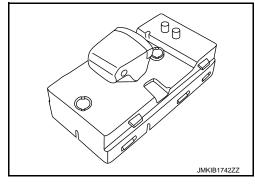
- Integrates the module.
- Front power window switch (passenger side) transmits AUTO UP/ DOWN signal to power window motor (passenger side).
- Receives AUTO UP/DOWN signal from BCM, and then transmits to power window motor (passenger side).
- Receives encoder pulse signal, and then controls anti-pinch system.



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Rear Power Window Switch

- Integrates the module.
- Each power window switch transmits AUTO UP/DOWN signal to each motor.
- Receives AUTO UP/DOWN signal from BCM, and then transmits to each motor.
- Receives encoder pulse signal, and then controls anti-pinch system.



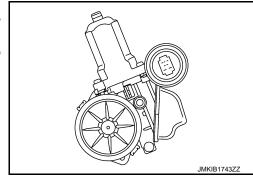
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Power Window Motor

• Integrates the encoder.

- 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.
- Excepting power window motor for driver door, starts operation according to signals from power window main switch or each power window switch.



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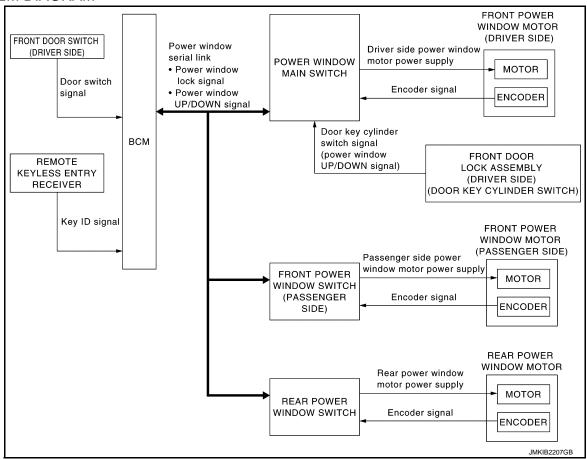
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SYSTEM

System Description

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SYSTEM DIAGRAM



POWER WINDOW OPERATION

- Power window system is activated by each power window switch when ignition switch turns ON.
- Power window main switch opens/closes all door glass.
- Front and rear power window switch opens/closes the corresponding door glass.
- AUTO UP/DOWN operation can be performed when power window main switch turns to AUTO.
- Power window lock switch can lock all power windows other than driver seat.
- If door glass receives resistance that is the specified value or more while power window of driver seat is in AUTO-UP operation, power window of driver seat operates in the reverse direction.

POWER WINDOW AUTO-OPERATION

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

POWER WINDOW SERIAL LINK

- All power window switches and BCM transmit and receive the power window serial link.
- Power window serial link transmits power window UP/DOWN signal and power window lock signal.

RETAINED POWER OPERATION

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

RETAINED POWER FUNCTION CANCEL CONDITIONS

Front door (driver side) CLOSE (door switch OFF) → OPEN (door switch ON).

SYSTEM

< SYSTEM DESCRIPTION >

- When ignition switch turns ON again.
- When timer times out. (45 seconds)

POWER WINDOW LOCK

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

ANTI-PINCH SYSTEM

- Pinch foreign material in the door glass during AUTO-UP operation, and it is the anti-pinch function that lowers the door glass [front: 150 mm (5.9 in), rear: 116 mm (4.5 in)] when detected.
- Encoder continues detecting the movement of power window motor and transmits to power window switch
 as the encoder pulse signal while power window motor is operating.
- 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 controls to lower the window glass for [front: 150 mm (5.9 in), rear: 116 mm (4.5 in)] after it detects encoder pulse signal frequency change.

OPERATION CONDITION

 When all 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.

DOOR KEY CYLINDER SWITCH OPERATION

Hold the door key cylinder to the LOCK or UNLOCK direction for 1 seconds or more to OPEN or CLOSE all power windows when ignition switch is OFF. In addition, it stops when key position is moved to NEUTRAL when operating.

OPERATION CONDITION

- · Ignition switch OFF.
- Hold door key cylinder to LOCK position for 1 seconds or more to perform CLOSE operation of the door glass.
- Hold door key cylinder to UNLOCK position for 1 seconds or more to perform OPEN operation of the door glass.

KEYLESS POWER WINDOW DOWN FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and kept pressed for more than 3 seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening stops when the following operations are performed.

- When encoder in power window motor detects BDC.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activate, keyless power window down function cannot be operated.

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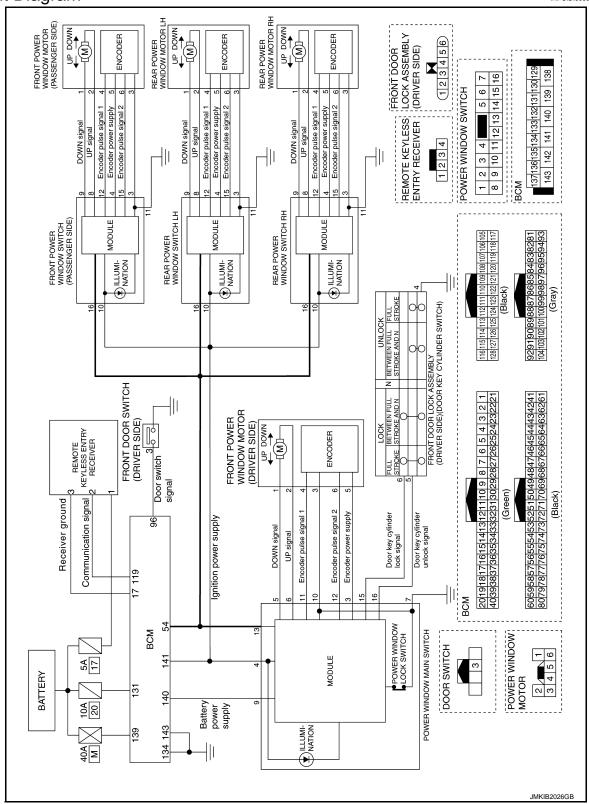
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Circuit Diagram



Fail-safe

FAIL-SAFE CONTROL

Switches to fail-safe control when malfunction is detected in encoder signal that detects up/down speed and direction of door glass. Switches to fail-safe control when a signal that is out of the specified 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 one pulse signal that is the specified value or more is detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Both pulse sensors mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.

If fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

- Auto-up operation
- Anti-pinch function
- Retained power function

When fail-safe control is activated, perform initialization procedure to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

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

^{*:} This item is not used.

FREEZE FRAME DATA (FFD)

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

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description A		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	В
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	С
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"	•
	ACC>ON		While turning power supply position from "ACC" to "IGN"	Г
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	Е
·	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	F
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	-
	OFF>LOCK	Power position status of	While turning power supply position from "OFF" to "LOCK"*	
Vehicle Condition	OFF>ACC	the moment a particular DTC is detected*	While turning power supply position from "OFF" to "ACC"	C
	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	F
	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)*	
	OFF		Power supply position is "OFF" (Ignition switch OFF)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	J
	ON	RUN	Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	P۷
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	The number is 0 where The number increases whenever ignition switches.	th ignition switch is turned ON after DTC is detected a malfunction is detected now. If the interpolar is like $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition that of the OFF \rightarrow ON. If 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".

RETAIND PWR

RETAIND PWR: CONSULT Function (BCM - RETAINED PWR)

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Data monitor

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

< SYSTEM DESCRIPTION >

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

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000001344809

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock function (door request switch) mode can be changed to operation in this mode On: Operate Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this modeOn: OperateOff: Non-operation
TRUNK/GLASS HATCH OPEN	Reminder function (trunk lid opener request switch) mode can be changed to operation with this mode On: Operate Off: Non-operation
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
SHORT CRANKING OUTPUT	Starter motor can operate during the times below
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
RETRACTABLE MIRROR SET	NOTE: This item is displayed, but cannot be used
TOUCH SENSOR UNLOCK FUNCTION SETTING	One touch unlock function can be changed to operation with this mode On: Operate Off: Non-operation
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode On: Operate Off: Non-operation
REMOTE ENGINE STARTE	NOTE: This item is displayed, but cannot be used
INTELLIGENT KEY LINK SET	NOTE: This item is displayed, but cannot be used
ANSWER BACK	Reminder function (door request switch and Intelligent Key) mode can be selected from the following with this mode On: S mode (buzzer or horn reminder non-operation) Off: C mode (buzzer or horn operate)
ANSWER BACK I-KEY LOCK UN- LOCK	Reminder function (door request switch) mode can be selected from the following with this mode • BUZZER: Sound Intelligent Key warning buzzer • HORN: Sound horn • Off: Only hazard warning lamp operate • INVALID: This item is displayed, but cannot be used

< SYSTEM DESCRIPTION >

Monitor item	Description
ANSWERBACK KEYLESS LOCK UNLOCK	Reminder function (Intelligent Key) mode can be selected from the following with this mode On: Horn and hazard warning lamp operate Off: Only hazard warning lamp operate
WELCOME LIGHT OP SET	NOTE: This item is displayed, but cannot be used

SELF-DIAG RESULT

Refer to BCS-63, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of front door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of front door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of trunk lid opener request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
SHFTLCK SLNID PWR SPLY	Indicates [On/Off] condition of the power supply from BCM to shift lock solenoid
CLUCH SW	NOTE: This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	NOTE: This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status

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< SYSTEM DESCRIPTION >

Monitor Item	Condition
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	NOTE: This item is displayed, but not used
DETE SW PWR	Indicates [On/Off] condition of the power supply from BCM to the A/T shift selector (detention switch)
IGN RLY3-REQ	Indicates [On/Off] condition of blower relay control signal
ACC RLY-REQ	Indicates [On/Off] condition of accessory relay control signal
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	Indicates [On/Off] condition of trunk open signal from Intelligent Key
RKE-PANIC	Indicates [On/Off] condition of panic alarm signal from Intelligent Key
RKE-MODE CHG	NOTE: This item is displayed, but cannot be monitored
RKE PBD	NOTE: This item is displayed, but cannot be monitored

^{*:} OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation On: Operates Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Take Out: Take away warning chime sounds when CONSULT screen is touched • Key: Key warning chime sounds when CONSULT screen is touched • Knob: OFF position warning chime sounds when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check information display (combination meter) operation • KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched • KEY IND: [Steering lock unit ID registration complete] displays when CONSULT screen is touched • Off: Non-operation
INT LAMP	This test is able to check interior room lamp operation On: Operates Off: Non-operation
FLASHER	This test is able to check hazard warning lamp operation The hazard warning lamps are activated after "LH/RH/Off" on CONSULT screen is touched

< SYSTEM DESCRIPTION >

Test item	Description				
HORN	This test is able to check horn operation On: Operates				
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) On: Operates Off: Non-operation				
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "On" on CONSULT screen is touched				
PUSH SWITCH INDICATOR	This test is able to check push-ignition switch indicator operation when "On" on CONSULT screen is touched				
ACC CONT	This test is able to operate the accessory relay in fuse block (J/B) On: Operates Off: Non-operation				
IGN CONT1	This test is able to operate the ignition relay in IPDM E/R On: Operates Off: Non-operation				
IGNITION RELAY	This test is able to operate the ignition relay in fuse block (J/B) On: Operates Off: Non-operation				
ST CONT LOW	This test is able to operate the starter relay in IPDM E/R On: Non-operation Off: Operates				
BATTERY SAVER	This test is able to check interior room lamp battery saver operation On: Outputs interior room lamp power supply to turn interior room lamps ON. Off: Cuts interior room lamp power supply to turn interior room lamps OFF.				
TRUNK/BACK DOOR	This test is able to check trunk lid open operation. This actuator opens when "Open" on CONSULT screen is touched.				
RETRACTABLE MIRROR	NOTE: This item is displayed, but cannot be used				
INTELLIGENT KEY LINK(CAN)	NOTE: This item is displayed, but cannot be used				
REVERSE LAMP TEST	NOTE: This item is displayed, but cannot be used				
DOOR HANDLE LAMP TEST	This test is able to check outside handle lamp operation On: Operates Off: Non-operation				
DR SEAT LAMP TEST	NOTE: This item is displayed, but cannot be used				
AS SEAT LAMP TEST	NOTE: This item is displayed, but cannot be used				
SHIFT SPOT LAMP TEST	NOTE: This item is displayed, but cannot be used				
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk room lamp operation On: Operates Off: Non-operation				
KEYFOB P/W TEST	This test is able to check keyless power window up/down operation • Up: Non-operation • Down*: Power window and sunroof open • Off: Non-operation				
SHIFTLOCK SORENOID TEST	NOTE: This item is displayed, but cannot be used				

^{*:} When ignition switch is OFF, driver door opened, power window and sunroof is closed.

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000012797006

ECU	Reference
	BCS-36, "Reference Value"
BCM	BCS-61, "Fail-safe"
BOW	BCS-62, "DTC Inspection Priority Chart"
	BCS-63, "DTC Index"

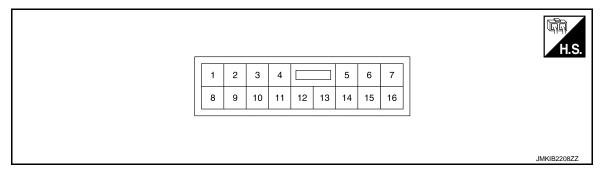
POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		0 !!!	V 16-2-2 (10)	
+	-	Signal name	Input/ Output	Condition	Voltage (V)	
3 (V)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	9 - 16	
4	Cravad	lanitian navvar aventy	lanut	Ignition switch ON	9 - 16	
(Y)	Ground	Ignition power supply	Input	Other than above	0 - 1	
5 (G)	Ground	Front power window motor (driver side) DOWN signal	Output	When front switch (driver side) in power window main switch is operated DOWN	9 - 16	
6 (L)	Ground	Front power window motor (driver side) UP signal	Output	When front switch (driver side) in power window main switch is operated UP	9 - 16	
7 (B)	Ground	Ground	_	_	0 - 1	
9 (BR)	Ground	Battery power supply	Input	_	9 - 16	
10 (B)	Ground	Encoder ground	_	_	0 - 1	
11 (GR)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB	
12 (BR)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0	

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition	Voltage (V)	
+	-	Signal name	Input/ Output		voltage (v)	
13 (SB)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 20ms PKIA7023E	
15 (V)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral →Locked)	4 - 6 → 0 - 1	
16 (Y)	Ground	Door key cylinder switch UN- LOCK signal	Input	Key position (Neutral →Unlocked)	4 - 6 → 0 - 1	

Fail-safe

FAIL-SAFE CONTROL

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

Malfunction	Malfunction condition		
Pulse sensor malfunction When one pulse signal that is the specified value or more is detected continuously for the time or more, while door glass is being operated UP or DOWN.			
Both pulse sensors mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.		
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.		
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.		
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.		

If fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

- Auto-up operation
- Anti-pinch function
- Retained power function

When fail-safe control is activated, perform initialization procedure to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

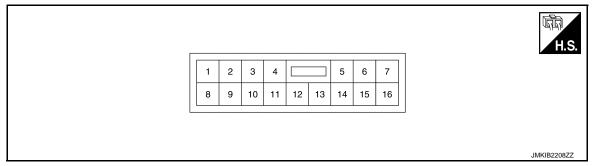
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< ECU DIAGNOSIS INFORMATION >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
3 (LG)	Ground	Encoder ground	_		0 - 1
4 (V)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	9 - 16
8 (L)	Ground	Front power window motor (passenger side) UP signal	Output	When front power window motor (passenger side) is operated UP	9 - 16
9 (G)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front power window motor (passenger side) is operated DOWN	9 - 16
10	Ground	Ignition power supply	Input	Ignition switch ON	9 - 16
(Y)	Ground	igilition power supply	πρατ	Other than above	9 - 16
11 (B)	Ground	Ground	_	_	0 - 1
12 (GR)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms

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FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
15 (BR)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms
16 (GR)	Ground	Power window serial link	Input/ Output	When ignition switch ON or power window timer operates	(V) 15 10 5 0 20ms PKIA7023E

Fail-safe

FAIL-SAFE CONTROL

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

Malfunction	Malfunction condition
Pulse sensor malfunction	When one pulse signal that is the specified value or more is detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Both pulse sensors mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.

If fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

- Auto-up operation
- Anti-pinch function
- Retained power function

When fail-safe control is activated, perform initialization procedure to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

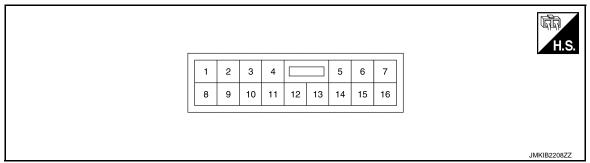
REAR POWER WINDOW SWITCH LH

< ECU DIAGNOSIS INFORMATION >

REAR POWER WINDOW SWITCH LH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
3 (BR)	Ground	Encoder ground	_	_	0 - 1
4 (SB)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	9 - 16
8 (R)	Ground	Rear power window motor LH UP signal	Output	When rear power window motor LH is operated UP	9 - 16
9 (L)	Ground	Rear power window motor LH DOWN signal	Output	When rear power window motor LH is operated DOWN	9 - 16
10	Ground	Ignition nower cumply	Innut	Ignition switch ON	9 - 16
(W)	Ground	Ignition power supply	Input	Other than above	0 - 1
11 (B)	Ground	Ground	_	_	0 - 1
12 (GR)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB

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REAR POWER WINDOW SWITCH LH

< ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output		vollage (v)
15 (BG)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms
16 (Y)	Ground	Power window serial link	Input/ Output	When ignition switch ON or power window timer operates	(V) 15 10 5 0 20ms PKIA7023E

Fail-safe

FAIL-SAFE CONTROL

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

Malfunction	Malfunction condition
Pulse sensor malfunction	When one pulse signal that is the specified value or more is detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Both pulse sensors mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.

If fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

- Auto-up operation
- Anti-pinch function
- · Retained power function

When fail-safe control is activated, perform initialization procedure to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

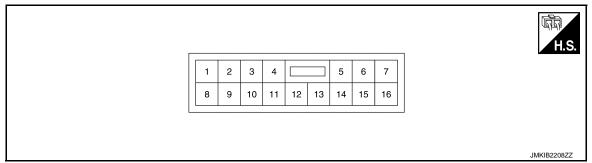
REAR POWER WINDOW SWITCH RH

< ECU DIAGNOSIS INFORMATION >

REAR POWER WINDOW SWITCH RH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
3 (V)	Ground	Encoder ground	_	_	0 - 1
4 (SB)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	9 - 16
8 (R)	Ground	Rear power window motor RH UP signal	Output	When rear power window motor RH is operated UP	9 - 16
9 (L)	Ground	Rear power window motor RH DOWN signal	Output	When rear power window motor RH is operated DOWN	9 - 16
10	Ground	lanition nower cumply	Innut	Ignition switch ON	9 - 16
(W)	Ground	Ignition power supply	Input	Other than above	0 - 1
11 (B)	Ground	Ground	_	_	0 - 1
12 (GR)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB

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REAR POWER WINDOW SWITCH RH

< ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
15 (BG)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB
16 (Y)	Ground	Power window serial link	Input/ Output	When ignition switch ON or power window timer operates	(V) 15 10 5 0 20ms PKIA7023E

Fail-safe

FAIL-SAFE CONTROL

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

Malfunction	Malfunction condition
Pulse sensor malfunction	When one pulse signal that is the specified value or more is detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Both pulse sensors mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.

If fail-safe control, the system changes to a non-initialized condition and the following function do not operate.

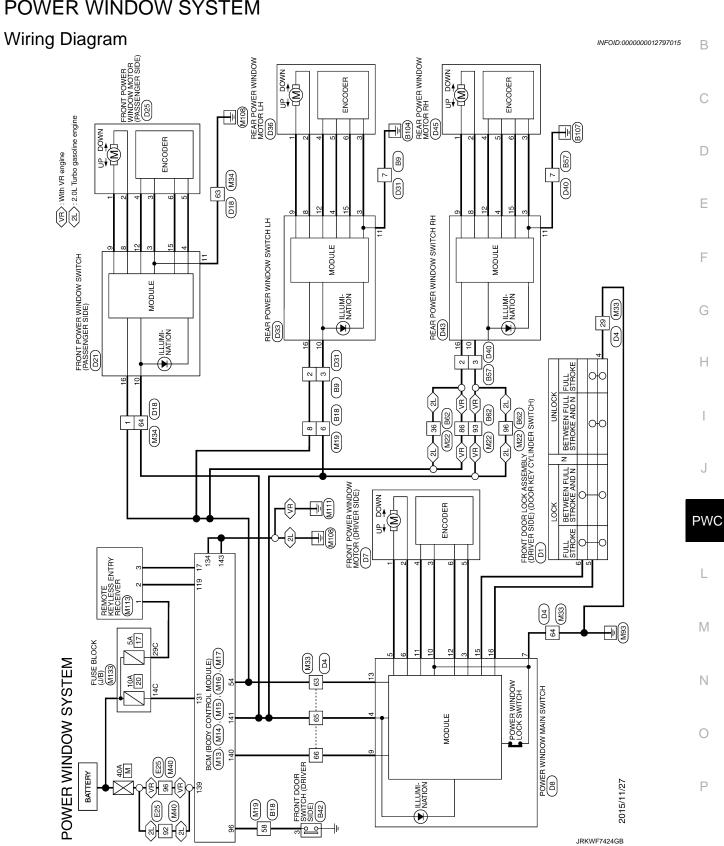
- Auto-up operation
- Anti-pinch function
- · Retained power function

When fail-safe control is activated, perform initialization procedure to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

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WIRING DIAGRAM

POWER WINDOW SYSTEM



POWER WINDOW SYSTEM

POW	/ER W	POWER WINDOW SYSTEM	Ę	9		F	×		On service No	100.7
Connector No.	or No.	69	12	9		I,	8		Connector No.	85/
Connecto	Connector Name	WIRE TO WIRE	13	ğ		77	m :	,	Connector Name	WIRE TO WIRE
,	,		14	~		/3	>			
Connector Type	or lype	NH10FW-CS10	15	7	•	74	_		Connector Type	NH10FW-CS10
ą			16	>		75	æ	- [Without paddle shift]	á	
医		_ _ _	18	≯		75	>	- [With paddle shift]	昼	
¥		6 5 4 3 2 1	19	BR		76	BR		٤	6 5 4 3 2 1
2	_]	20	Μ		77	8		2]
		13 12 11 10 9	22	œ		78	SB			13 12 11 10 9
		17 16 15 14	23	>		79	>	- [With VR30 engine]		7 18 17 16 15 14 8
			24	œ	- [With 2.0L turbo gasoline engine]	79	*	- [With 2.0L turbo gasoline engine]		
			24	>	- [With VR30 engine]	81	8			
Terminal	I Color Of		25	۵	- [With 2.0L turbo gasoline engine and without gateway]	82	œ		Terminal Color Of	5
No.	Wire	Signal Name [Specification]	25	>	- [With 2.0L turbo gasoline engine and with gateway]	83	BG		No. Wire	Signal Name [Specification]
-	9		25	>	- [With VR30 engine]	8	_		1 16	
7	9		26	9		82	æ	- [Without paddle shift]	2 W	,
m	~		27	~		88	>	- [With paddle shift]	e e	
4	>		28	~		86	-		>	
_			3	-	- [With VB30 engine]	8	ی ا		7 B	
10	8	- [With BOSE system]	2	8	- [With 2 OI turbo gasoline engine]	8	>	- [With 2 0] turbo gasoline engine]	19	
19	5 5	- [Without BOSE system]	32	ś	[audio automo and	8	. >	- [With VR30 engine]	ļ	
20	~	- [With BOSE system]	33	-		91	8			
20	88	- [Without BOSE system]	34	9		8	8			
			S.	٩		ş	>		Connector No.	862
			36	*		97	>			
Connector No.	or No.	B18	37	SB		86	BR	- [With VR30 engine and with BOSE system]	Connector Name	WIRE TO WIRE
	1		38	97		86	>	- [Except with VR30 engine and with BOSE system]	Connector Type	TH80FW-CS16-TM4
Sallies	CONTRECTOR INSTITE	WIRE IO WIRE	40	۵						
Connector Type	or Type	TH80FW-CS16-TM4	41	SB					Œ	
	_		42	BR		Connector No.	or No.	B42	-	
E		6	43	BG		00000	Connection Manage	(adia dayada) Haziyas doog Inoda	Ċ F	
ŧ			44	98			al Indille	FROM L DOOR SWITCH (DRIVER SIDE)		
2	_		46	~		Connector Type	or Type	TH04FW-NH		123
			20	>		ľ				
			51	SB		E				
			52	>					Terminal Color Of	
			53	9		S.H.			No. Wire	Signal Name (Specification)
Terminal	I Color Of		54	~				n	1 BR	- [With 2.0L turbo gasoline engine and without BOSE System]
No.	Wire	Signal Name [Specification]	55	~					1 16	- [With VR30 engine]
1	>		57	≥					1 W	- [With 2.0L turbo gasoline engine and with BOSE system]
2	ŋ		28	>					2 r	- [With VR30 engine]
ж	_		59	æ		Terminal	Color O	L	2 SHIELD	- [With 2.0L turbo gasoline engine]
4	97		09	g		No.	Wire	olgnai Name [opecinication]	3 BR	- [With 2.0L turbo gasoline engine]
S	>		61	9		е	>		3	- [With VR30 engine and with BOSE system]
9	ď		62	BG					3 W	- [With VR30 engine and without BOSE system]
7	^		63	BR					4 SHIELD	
œ	91		64	>					4 Y	- [With 2.0L turbo gasoline engine]
10	BG		99	œ					5 6	- [With VR30 engine]
11	BG		20	~					2	- [With 2.0L turbo gasoline engine]

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Connector No. D1	Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)		Connector Type E06FGY-RS					(123456)				Terminal Color Of	No. Wire Signal Name [Specification]	1 P	2 1.6	3 W	4 8	, .	۰ ۸ 9			Connector No. D4	Canada Monday		Connector Type NH60FW-TS12	_		(SECTION SECTION SECTI		23 83 82 12 12 22				la I	21	2 SB -	4 BG		- · · 9	7 1.6	. 9 8	9 GR -	10 Y .	11 SHIELD -	12 BG .	13 L	14 B -	15 Y -	35
- [With 2.0L turbo gasoline engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine and with BOSE system	- [With 2.0L turbo gasoline engine and without BOSE system]	•	- [With VR30 engine and with BOSE system]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine and without BOSE system]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]																
œ	9	SHIELD	В	W	BR	SHIELD	BG	ŋ	~	*	97	SHIELD	91	۵	>	٦	Μ	æ	SHIELD	R	٦	Å	ď	Μ	٦	ď	W	97	BR	Ь	>-	BR	>																
81	82	82	83	83	84	84	82	85	98	98	87	87	68	96	06	95	95	93	93	94	95	95	96	96	46	97	- 6	86	66	66	66	100	100																
- [With 2.0L turbo gasoline engine]	- [With VR30 engine and with BOSE system]						- [With 2.0L turbo gasoline engine]	- [With VR30 engine]				,			- [With 2.0L turbo gasoline engine]	- [With VR30 engine]									- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		•				 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			•	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	Mith Wood opening
œ	Α	9	٦	æ	SHIELD	۵.	8	U	SHIELD	o	BG	o	>	8	*	>	æ	æ	٦	>	œ	91	۵	7	۵	>	_	W	97	٦	۵	ä	œ	<u>.</u>	>	~	SHIELD	BG	_	g.	>	GR	>	Ь	٦	В	GR	^	,
39	39	40	41	42	43	44	42	45	46	47	48	49	20	51	25	25	23	24	22	99	57	28	29	61	62	62	63	64	99	89	69	71	71	72	72	73	73	74	74	75	75	26	9/	77	78	79	80	80	6
POWER WINDOW SYSTEM 6 BG(With VR30 engine)	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine and with BOSE system]	- [With VR30 engine and without BOSE system]	- [With VR30 engine and with BOSE system]	- [With 2.0L turbo gasoline engine and without BOSE System]	- [With VR30 engine and with BOSE system]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine and without BOSE system]	- [With 2.0L turbo gasoline engine]							- [With 2.0L turbo gasoline engine]	- [With VR30 engine]									- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			- [With 2.0L turbo gasoline engine]	4			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine and without BOSE system]	- (With VR30 engine)	- [With 2.0L turbo gasoline engine and with BOSE system]		DAVISH VIDOO contract builthout BOCE contract
/ER W	BR	В	BR	Λ	Υ	8	9	>	97	SHIELD	>	GR	>	œ	BG	BG	GR	>	۵	_	œ	GR	œ	>	*	BG	>	٦	SB	9	≥	œ	5	9	۵.	SHIELD	_	В	97	SHIELD	97	Μ	æ	W	Ь	Я	Λ	Α	٥
ارة ا	9	7	7	7	7	80	∞	8	6	6	10	11	12	13	14	15	15	16	17	18	19	20	21	22	23	24	24	52	25	56	56	27	59	30	30	31	32	33	33	34	35	35	36	36	37	37	37	38	oc

Signal Name [Specification]	•	-					•	•	-		•			•	
Wire	8S	98	В	>	91	9	SR	λ	SHIELD	98	٦	8	Y	SR	
No.	2	4	5	9	7	8	6	10	11	12	13	14	15	16	

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		65 BR .	+	$\frac{1}{1}$	71 86 -	72 Y		Connector No. D21	Connector Name FRONT POWER WANDOW SWITCH (PASSENGER SIDE)	Connector Type NS16FW-CS	¢			3 4 1	8 9 10 11 12 15 16				ler		91	>	8 L FRONT POWER WINDOW MOTOR (PASSENGER SIDE) UP SIGNAL O C REPORT POWER WANDOW MOTOR (PASSENGER SIDE) DOWN SIGNAL	, ,	- 8	F	88	GR POW			Connector No. D25	Connector Name FRONT POWER WINDOW MOTOR (PASSENGER SIDE)	Т	Connector Type T806FW-1V-LC	d)		[<u>[</u>		Ŀ	3 4 5 6						
	No. D18	Name WIRE TO WIRE	Type NH60FW-TS12	1				Ч II		Color Of Stanal Name (Specification)		GR -	٠,	. · 88	BR -	λ	- 91		٠ -		GR	· ·	~ a	: 0	0 8			SHIELD	GR -	. BG		BR -	^		^	· ·		- PI			· ·		88			
	Connector No.	Connector Name	Connector Type		F	HIS				lei	No.	1	2	4	2	9	7	8	6	10	11	13	14	2 1	18	19	20	H	22	23	24	22	56	27	28	59	30	49	52	55	29	57	28	29	9	63
[Т	1						Г	7	7	_		П	Г	П		ı			Т	٦							1		Т	Т	Т	Į.	Æ	_	_	Г	Г	Г	Г	Ļ	₹	[]	
	No. D7	Name FRONT POWER WINDOW MOTOR (DRIVER SIDE)	Type TB06FW-1V-1C	1			2 7 2	ᆌ		Color Of Signal Name (Specification)	a	. 9	٠			۸	BR -			No. D8	Name POWER WINDOW MAIN SWITCH	Т	lype NS16FW-CS			3 4 0 5 6 7	9 10 11 12 13 15 16				Color Of Signal Name [Specification]	9		+	G FRONT POWER WINDOW MOTOR (DRIVER SIDE) DOWN SIGNAL	L FRONT POWER WINDOW MOTOR (DRIVER SIDE) UP SIGNAL		BR BATTERY POWER SUPPLY	B ENCODER GROUND	GR ENCODER SIGNAL 1		SB POWER WINDOW SERIAL LINK	V DOOR KEY CYLINDER SWITCH LOCK SIGNAL	Y DOOR KEY CYLINDER SWITCH UNLOCK SIGNAL		
	Connector No. D7	Connector Name FRONT POWER WINDOW MOTOR (DRIVER SIDE)	Connector Type TB06FW-1V-1C	1	(F	1.5	9 4 5	ᆌ		ial Color Of		1 6	2 L · ·	3 B	4 GR -	۰ ۸ 5	6 BR -			Connector No. D8	Connector Name POWER WINDOW MAIN SWITCH	Т	Connector Lype NS16FW-CS	Œ	ithth	4	10 11 12 13				hal Color Of		>	>	o	6 L FRONT POWER WINDOW MOTOR (DRIVER SIDE) UP SIGN	89			GR			>	· >-	1	
		Connector Name	Т	1			9 4 5	ᆌ		Color Of	Wire	. 1 6	2 L ·		H		H		production]		Connector Name	Т	Connector lype	£	多	3 4 0	10 11 12 13		- [Color of wire differs depending on production]		Color Of	No. Wire	>	γ γ	S G	٦	89	BR	8	GR	BR	SB	>	· >-	1	
WER WINDOW SYSTEM	R Connector No.	GR Connector Name	Connector Type	. 91		1	200		╁	B - Terminal Color Of	W No. Wire		\dashv		4	. 5	GR - 6	9		P - [Color of wire differs depending on production] Connector No.	L Connector Name	. BG	Connector lype	2 0	88	3 4 0	v 9 10 11 12 13	S3 GR .	Н	SB - [Color of wire differs depending on production]	BR - Terminal Color Of	R No. Wire	3 ^	٧ - 4	9 8	1 9 · · · 98	У	SB . 9 BR	B 10 B	,	- 12 BR	Y 13 SB	15 V	, 16 v		72 p

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Control Of the Cont	1		Wire	- Decement	+			Æ
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1	1 1 1 1 1 1 1 1 1 1		, 3	WFR SUPPLY	$\frac{1}{1}$			
13 64 15 15 15 15 15 15 15 1	1		~	QNI	H	- [With BOSE system]		
15 16 17 17 18 19 19 19 19 19 19 19	15 16 17 17 18 18 18 18 18 18		GR	SIGNAL 1	19 R	- [Without BOSE system]	4 5	
Transfer to Wild	1 2 3 1 4 5 6 6 7 1 2 6 7 6 7 6 7 7 6 7 7		BG	SIGNAL 2	H	- [With BOSE system]		
1 2 3 1 4 5 6 6 6 6 6 6 6 6 6	1 2 3 1 4 5 6 6 6 6 6 6 6 6 6	D31	>	W SERIAL LINK	20 L	- [Without BOSE system]		
1 2 3 1 4 5 6 6 6 6 7 6 6 7 6 6	1 2 3 1 1 1 2 3 1 1 2 3 1 1 2 3 1 2 3 1 2 3 4 5 5 5 5 5 5 5 5 5	WIRE TO WIRE					301-1-0	
1 2 3 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 6 6 6 6 6 6 6 6	1 2 3 4 5 6 6 6 6 6 6 6 6 6	- 1			Connector No		Color Of	tion]
1 2 3 1 4 5 6 1 1 2 1 1 2 1 1 2 1 1	1 2 3 1 4 5 5 1 4 5 5 6 6 6 6 6 6 6 6	INTLUMING-CSTO			COLLIECTO NO.	043	+	
1 2 3 1 2 3 1 2 3 1 2 3 1 3 3 3 3 3 3 3 3	1 2 3 1 2 3 1 2 3 1 2 3 1 3 3 3 3 4 5 5 4 5 5 4 5 5 4 5 5			MOTOR LH	Connector Name		+	
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T 8 9 10 11 12 13 14 15 15 15 15 15 15 15	7 8 9 01 11 22 03	2 3				WOOD WOO	╁	
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Signal Name (Specification) Terminal Color Of Signal Name Specification) No. Wire Signal Name Specification	Signal Name (Specification) Terminal Color of Name (Specification) Terminal Color of Name (Specification) Terminal Color of Name (Specification) No. Name (Specification) N	8 14 15 16 17 18 19			C E			
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Signal Name [specification] Signal Name [specification] Name [Signal Name Specification No. Wire No. W		4			8 10 11 12		
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1 1 1 1 1 1 1 1 1 1		- [With BOSE system]	BR		\dashv	REAR POWER WINDOW MOTOR RH UP SIGNAL		n a
10 W GANDO POWER SUPPLY 10 W GANDON POWER SUPPLY 10 W GANDON POWER SUPPLY 11 O W GANDON POWER SUPPLY 12 O GROUND 12 O GROUND 12 O GROUND 12 O GROUND 13 O GROUND 14 O GROUND 15	10 W GROUND POWER SUPPLY 10 W GROUND POWER SUPPLY 11	- [Without BOSE system]	+		+	R POWER WINDOW MOTOR RH		- F
11 12 13 14 15 15 15 15 15 15 15	13 15 15 15 15 15 15 15	- [With BOSE system]	+		+	IGNITION POWER SUPPLY		1
Comector No. D40 15 D40 15 D40 15 D40 15 D40 15 D40	Comector No. D40 15 D40 15 D40 15 D40 D40	- [Without BOSE system]	-		+	GROUND		l
REAR POWER WINDOW SWITCH LH REAR POWER WINDOW SERAL LINK No. Wire	Start Power window strikt link Start Power window window strikt link Start Power window strik				+	ENCODER SIGNAL 1	Color Of	
REAR POWER WINDOW SWITCH LH CONNECTOr Name CONNECTOR Type NISTOWN CS310 CONNECTOR Type CONNE	REAR POWER WINDOW SWITCH LH Connector Name NISF-W-CS.	D33			╁	POWER WINDOW SERIAL LINK	Wire	[lool]
Note of water with control to water with w	NSJ67W-CS NSJ6	Т	Γ,				┝	
Connector Type NH10MW.CS10 8 86 86 86 86 86 86 86	Connector Type NH10MW.CS10 8 80		n)				H	
1 2 3 4 5 6 1 1 2 3 1 4 5 6 1 1 2 3 1 1 2 3 1 3 3 4 3 4 5 6 1 3 3 3 3 4 3 3 3 3 4 3 3	HS 1 2 3 4 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NS16FW-CS						
1 2 3 1 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 5 6 6	1 2 3 1 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 5 6 6						98	_
1 2 3 4 5 6 9 9 9 9 9 9 9 9 9	1 2 3 4 5 6 9 9 9 8 9 9 11 12 13 13 16 15 16						BR	engine]
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15 16 1	15 15 15 15 15 15 15 15		7	ဂ			GR	ding on production]
7 8 910 11 2 3 19 20 11 12 19 20 11 12 19 20 11 12 13 14 15 16 17 18 19 20 13 14 15 15 15 15 15 15 15	7 8 9 10 11 12 13 19 20			I			LG - [With VR30 engine] [Color or	iding on production)
7 6 1415 16 1718 13 20 12 13 14 15 15 15 15 15 15 15	7 8 14 15 16 17 18 19 20	1112 151	9 10	12 13			88	
12 GR 13 SHED 13 W 13 W 15 SHED 13 W 15 SHED 1	12		0 14 15	17 18			╀	
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Connector No. M14			Connector Type TH40FB-NH	Q	THIT I	S	80 79 78 77 78 78 78 78 78 78 78 78 78 78 78				Terminal Color Of Sirmal Name (Specification)	No. Wire	_	9	>	R	59 P CAN-L	60 L CAN-H	61 G REAR WINDOW DEF RLY CONT	62 R STARTER RLY CONT	64 V I-KEY WARN BUZZER	65 B OUTS HD LAMP CONT	66 B BLOWER FAN RLY CONT [With VR30 engine]	66 Y BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]	67 W/B IGN RLYAY (F/B) CONT	68 R DIMMER	69 GR A/T SHIFT SELECT PWR SPLY	70 B IGN RLYAY (IPDM E/R) CONT	71 G DR DOOR REQ SW	72 SB PASS DOOR REQ SW	75 BR COMBISW INPUT 5	BG	^	>-	0 91	80 L TR LID OPNR SW												
- [With VR30 engine]				M13	BCM (BODY CONTROL MODULE)	TH40EG-NH				20 10 10 10 10 10 10 10 10 10 10 10 10 10	33 27 28 25 27 28 25 27 28 25 27 28 25 27 28 25 27 28 2				Signal Name [Specification]		PUSH SW	SENS PWR SPLY	OPTICAL SENSOR	•	COMBI SW OUTPUT 5	COMBI SW OUTPUT 4	COMBI SW OUTPUT 3	COMBI SW OUTPUT 2	COMBI SW OUTPUT 1	ONE TOUCH UNLK SENS (DR)	ONE TOUCH UNLK SENS (PASS)	RECEIVER/SENSOR GND	SECURITY IND LAMP CONT	DETENT SW	STEP LAMP CONT	STOP LAMP SW2	EXTENDED STORAGE FUSE SW	STOP LAMP SW	DR DOOR UNLK SENS	TR LID OP CANCEL SW	HAZARD SW	P/N POSITION										
	SHIELD				Connector Name	Connector Type	1			_				- 1	0	Wire	В	Υ	BG	91	^	SB	٦	U	Ь	9	g	Ь	_	æ	SB	ď	ĸ	۵	≥	>	9	BR										
66	100			Connector No.	Connec	Connect		Œ		Ž.					Terminal	No.	1	3	4	2	10	11	12	13	14	15	16	17	18	20	21	25	56	22	8	33	36	33										
- [Color of wire differs depending on production]				- [Color of wire differs depending on production]	- [Color of wire differs depending on production]					- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine and without gateway]	- [With 2.0L turbo gasoline engine and with gateway]	- [With VR30 engine]			- [With 2.0L turbo gasoline engine and with ADAS]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine and without ADAS]					- [With 2.0L turbo gasoline engine]	- [With VR30 engine]					- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine and without gateway]	- [With 2.0L turbo gasoline engine and with gateway]				- [With 2.0L turbo gasoline engine]
B/W	. *	æ	>	BR	# E	2	2 28	_	œ	9	91	1	>	g	>	BR	٦	Ь	В	۸	9	٨	91	۵	>	88	9	R	>	BR	ч	PJ	BG	G	9	O	g.	9	BG	GR	7	BG	۵	В	*	ΡΠ	_	9
28	29	61	64	92	99	67	689	69	70	71	7.1	72	72	73	73	74	74	75	75	75	9/	77	78	78	78	79	80	81	82	83	83	84	98	87	8	90	06	91	93	94	94	95	92	95	96	97	86	66
POWER WINDOW SYSTEM	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2 OI turbo gasoline engine]	- [With VR30 engine]		- [With 2.0L turbo gasoline engine]		- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]				- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine and without gateway]	- [With 2.0L turbo gasoline engine and with gateway]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]				- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		,	ů.		 [With 2.0L turbo gasoline engine] 				- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	0.1	- [Color of wire differs depending on production]
R WIN	GR	SB	88	>	88 88	5 6	0 0.	>	×	>	9	GR	_	>	۵	GR	ď	٦	۸	٦]- -	П	BR	>	SB	97	>	1	>	8	>	ŋ	SHIELD	œ	æ	GR	_	>	>	Ь	W	В	Α	BG	SB	BG	Α	
POWE	15	15	16	16	17	18	18	19	31	31	32	32	33	33	34	35	36	37	37	38	38	38	39	39	40	41	44	45	45	46	46	47	48	49	20	20	51	52	53	54	54	55	55	95	99	57	57	28

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MISON Connector No. MISON Connector No. MISON WIRE MISON WIRE MISON WIRE MISON MISON MISON MISON MISON MISON MIS	
116 BR	
Connector Name BCM (BODY CONTROL MODULE)	JRKWF8789GB

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Connector No.	No.	M22	25	SB	- [With VR30 engine]	99	~	•	66	۵	- [With 2.0L turbo gasoline engine]
H	١,	TOWN CT TOWN	56	9	- [With VR30 engine]	89	٦		66	٨	- [With VR30 engine and without BOSE system
ē	Connector Name	WIRE IO WIRE	56	>	- [With 2.0L turbo gasoline engine]	69	۵		100	BR	- [With VR30 engine]
ctor	Connector Type	TH80MW-CS16-TM4	27	æ		7.1	GR	- [With 2.0L turbo gasoline engine]	100	W	- [With 2.0L turbo gasoline engine]
			53	PΠ		71	В	- [With VR30 engine]			
•			30	SB	- [With VR30 engine]	72	g	- [With VR30 engine]			
ĕ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30	>	- [With 2.0L turbo gasoline engine]	72	>	- [With 2.0L turbo gasoline engine]	Connector No.	No.	M33
9		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	31	SHIELD		73	97	 [With 2.0L turbo gasoline engine] 	Connector Name	Name	WIRE TO WIRE
		8 × 8 × 8 × 8 × 8 × 8 × 8 × 8 × 8 × 8 ×	32	٦		73	SHIELD	- [With VR30 engine]			
			33	В	- [With VR30 engine]	74	_	- [With VR30 engine]	Connector Type	Type	NH60MW-TS12
			33	LG	- [With 2.0L turbo gasoline engine]	74	10	 [With 2.0L turbo gasoline engine] 	4		
			34	SHIELD		75	Ь		B		[
rerminal	Color Of	Circuit Name (Coorigination)	32	97	- [With VR30 engine]	9/	SB	- [With 2.0L turbo gasoline engine]	É		20 22 22
	Wire	orginal reality [operation]	35	W	- [With 2.0L turbo gasoline engine]	92	^	- [With VR30 engine]	Ċ		147833682388
П	91	•	36	Я	- [With VR30 engine]	77	λ				3 6 9 12 15 18 22 18 25 30 67 18 18 19 71 72
Г	_	- [With VR30 engine]	36	>	- [With 2.0L turbo gasoline engine]	78	_	•			
Г	SHIELD	- [With 2.0L turbo gasoline engine]	37	~	- [With VR30 engine]	79	ø				
Г	BR	- [With 2.0L turbo gasoline engine]	37	>	- [With 2.0L turbo gasoline engine]	80	g	- [With 2.0L turbo gasoline engine]			
Г	~	- [With VR30 engine]	38	>		80	>	- [With VR30 engine]	Terminal	Color Of	[action of control of
	SHIELD	- [With VR30 engine]	39	۵	- [With VR30 engine and without BOSE system]	81	В	- [With VR30 engine]	No.	Wire	olgilal Ivallie [Specification]
Г	>	- [With 2.0L turbo gasoline engine]	39	œ	- [With 2.0L turbo gasoline engine]	81	æ	- [With 2.0L turbo gasoline engine]	2	W	
Г	9	- [With VR30 engine]	39	>	- [With VR30 engine and with BOSE system]	82	σ	- [With 2.0L turbo gasoline engine]	4	9	,
Г	>	- [With 2.0L turbo gasoline engine]	40	9		82	SHIELD	- [With VR30 engine]	2	9	,
9	BG	- [With VR30 engine]	41	_		83	~	- [With 2.0L turbo gasoline engine]	9	×	1
9	BR	- [With 2.0L turbo gasoline engine]	42	В		83	Μ	- [With VR30 engine]	7	R	
	91	- [With VR30 engine]	43	SHIELD		84	BR	- [With VR30 engine]	80	GR	
	Ь	- [With 2.0L turbo gasoline engine]	44	Ь		84	SHIELD	- [With 2.0L turbo gasoline engine]	6	GR	•
П	9	- [With 2.0L turbo gasoline engine]	45	В	- [With 2.0L turbo gasoline engine]	85	BR	- [With VR30 engine]	10	W	•
	Ь	- [With VR30 engine]	45	9	- [With VR30 engine]	85	g	 [With 2.0L turbo gasoline engine] 	11	SHIELD	-
╛	97	- [With 2.0L turbo gasoline engine]	46	SHIELD		98	æ	- [With 2.0L turbo gasoline engine]	12	Ь	
T	SHIELD	- [With VR30 engine]	47	9		98	>	- [With VR30 engine]	13	SB	
	^		48	BG	- [Except with VR30 engine and with BOSE system]	87	PI	- [With VR30 engine]	14	LG	
	GR		48	BR	- [With VR30 engine and with BOSE system]	87	SHIELD	 [With 2.0L turbo gasoline engine] 	15	γ	
	^		49	9		88	BR	- [With VR30 engine]	16	Y	•
13	97		20	^		89	97	- [With 2.0L turbo gasoline engine]	17	Р	
14	91		51	۸	•	06	SB	- [With 2.0L turbo gasoline engine]	18	W/B	
15	BR	- [With 2.0L turbo gasoline engine]	52	1	- [With 2.0L turbo gasoline engine]	06	>	- [With VR30 engine]	19	LG	- [With DRPO]
15	Ь	- [With VR30 engine]	52	٨	- [With VR30 engine]	92	٦	- [With 2.0L turbo gasoline engine]	19	Υ	- [Without DRPO]
16	SB	- [With DCM]	53	ж		92	Μ	- [With VR30 engine]	20	۸	
П	۸	- [Without DCM]	54	GR	•	93	Я	- [With VR30 engine]	21	В	•
	٨		25	1		93	SHIELD	- [With 2.0L turbo gasoline engine]	22	BG	- [Without DRPO]
Г	_		99	-		94	ď		22	9	- [With DRPO]
19	9		22	æ		92	٦	- [With 2.0L turbo gasoline engine]	23	L	•
П	GR		28	97		95	λ	- [With VR30 engine]	24	Υ	•
Г	œ		59	SB		96	œ	- [With 2.0L turbo gasoline engine]	25	BG	- [Without DRPO]
Г	>		61	1		96	>	- [With VR30 engine]	25	7	- [With DRPO]
	_		62	-	- [With 2.0L turbo gasoline engine]	46	_	- [With VR30 engine]	56	+	
	BG	- [With 2.0L turbo gasoline engine]	62	۸	- [With VR30 engine]	26	ж	- [With 2.0L turbo gasoline engine]	27	GR	
24	>	- [With VR30 engine]	63	7		86	BR		28	^	•
ī	_	[Mith 2 Of turbo garding online]	6.4	/4/		00	QQ	- Mith VR30 engine and with BOSE eyetem!	20	1	

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69	_		Connector No.		M113	27C	٦.	
70	æ		Consorter Name	omely.	GENERAL SECTION OF THE PROPERTY OF THE PROPERT	28C	W	
77	>	- [With VR30 engine]	onnecto	- Name	NEIMO IE NETLESS EN INT RECEIVER	29C	Μ	
71	Μ	- [With 2.0L turbo gasoline engine]	Connector Type	r Type	AAC04FB	2C	R	
72	_	- [With 2.0L turbo gasoline engine]	(30C	В	
7.5	91	- [With VR30 engine]				31C	Μ	
73	ч	- [With VR30 engine]	Š		[32C	В	
73	Μ	- [With 2.0L turbo gasoline engine]	2		<u></u>	33C	8	- [With VR30 engine]
74	BR	- [With VR30 engine]			123	330	В	- [With 2.0L turbo gasoline engine]
74	_	- [With 2.0L turbo gasoline engine]				34C	W/B	
75	8	- [With VR30 engine]				350	SB	
13	۵	- [With 2.0L turbo gasoline engine and without gateway]				360	æ	
75	œ	- [With 2.0L turbo gasoline engine and with gateway]	Terminal	Color Of	5	37C	Μ	
9/	M/B		No.	Wire	Signal Name [Specification]	380	SB	
7	88		П	Μ	+12V	390	>	
78	ŋ	- [With VR30 engine]	2	1	SIGNAL	30	Ь	٠
8	9	- [With 2.0L turbo gasoline engine]	8	۵	GND	40C	o	
79	œ					4C	۵	
8	9					25	۵	
81	~		Connector No.		M133	9	G	
82	97			l	200	70	9	٠
83	88	- [With 2.0L turbo gasoline engine]	Connector Name	r Name	FUSE BLOCK (J/B)	SC 8	o	
83	~	- [With VR30 engine]	Connector Type	- Type	TH40FW-NH	36	>	
84	>							
98	>		Œ					
82	9							
68	>		Š					
le	9	- [With VR30 engine]						
6	>	- With 2 Ol turbo gasoline engine						
5	. 3	[a0]						
ءاء								
7 6	9 8		Torminal	Color Of				
اء	5 8	Carrier Appropriate		Wise	Signal Name [Specification]			
: 1	ž .	- [with viso engine]	NO.	ann				
94	-	- [With 2.0L turbo gasoline engine]	100	>				
92	BR	- [With VR30 engine]	12C	_				
اي	۵.	- [With 2.0L turbo gasoline engine and without gateway]	13C	_				
95	~	- [With 2.0L turbo gasoline engine and with gateway]	14C	>				
96	W		15C	R				
97	91		16C	æ				
86	>		17C	_				
9	BR	- [With VR30 engine]	18C	BG	- [Without DRPO]			
66	9	- [With 2.0L turbo gasoline engine]	18C	۵	- [With DRPO]			
100	SHIELD		19C	8				
ı			1C	~				
			20C	М				
			21C	_				
			226	-				
			330	-				
			200	وا				
			757	3				
			250	ç				

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000012797016 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurred) as possible when the customer brings the vehicle in. D >> GO TO 2. $2.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Е Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. F >> GO TO 3. 3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS" Use "Symptom diagnosis" from the symptom inspection result in step 2. Then identify where to start the diagnosis based on possible causes and symptoms. Н >> GO TO 4. f 4.IDENTIFY MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS" Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system. >> GO TO 5. J ${f 5}$. REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. **PWC** >> GO TO 6. 6. FINAL CHECK Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2. Is the malfunctioning part repaired or replaced? M YES >> Trouble diagnosis is completed. NO >> GO TO 3. N

Revision: November 2016 PWC-39 2016 Q50

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description INFOID:000000012797017

Initialize the system if any of the following work has been done. Refer to PWC-40, "Work Procedure".

- When control unit replaced.
- Electric power supply to power window switch or motor is interrupted by blown (open) fuse or disconnection and connection of the negative terminal of battery, etc.
- · Removal and installation of regulator assembly.
- Power supply to the power window main switch or power window motor is cut off by the removal
 of battery terminal or if the battery fuse is blown (open).
- Disconnection and connection of power window main switch harness connector.
- · Removal and installation of motor from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of door 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

Work Procedure

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to PWC-42, "Description".

>> GO TO 2.

2. CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to PWC-43, "Description".

>> END

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN SWITCH

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MAIN **SWITCH**

Description INFOID:0000000012797019

When the control unit replaced, the initialization in necessary for normal operation of power window system. Refer to PWC-41, "Work Procedure".

CAUTION:

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

- Auto-up operation
- Anti-pinch function

Work Procedure

INFOID:0000000012797020

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1. SYSTEM INITIALIZATION

Perform system initialization. Refer to PWC-42, "Description".

>> GO TO 2.

2. CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to PWC-43, "Description".

>> END

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PWC-41 Revision: November 2016 2016 Q50

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SYSTEM INITIALIZATION

< BASIC INSPECTION >

SYSTEM INITIALIZATION

Description INFOID:000000012797021

Initialize the system if any of the following work has been done. Refer to PWC-42, "Work Procedure".

- When control unit replaced.
- Electric power supply to power window switch or motor is interrupted by blown (open) fuse or disconnection and connection of the negative terminal of battery, etc.
- Removal and installation of regulator assembly.
- Power supply to the power window main switch or power window motor is cut off by the removal
 of battery terminal or if the battery fuse is blown (open).
- Disconnection and connection of power window main switch harness connector.
- Removal and installation of motor from regulator assembly.
- · Operation of regulator assembly as an independent unit.
- · Removal and installation of door 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

Work Procedure

INFOID:0000000012797022

1.STEP 1

- 1. Close the door.
- 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)

>> GO TO 2.

2.STEP 2

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.

>> GO TO 3.

3.STEP 3

Check that auto-up function operates normally.

>> GO TO 4.

4.STEP 4

Check anti-pinch function. Refer to PWC-43, "Description".

>> END

CHECK ANTI-PINCH FUNCTION

< BASIC INSPECTION > **CHECK ANTI-PINCH FUNCTION** Α Description INFOID:0000000012797023 Initialize the system if any of the following work has been done. Refer to PWC-43, "Work Procedure". В When control unit replaced. Electric power supply to power window switch or motor is interrupted by blown (open) fuse or disconnection and connection of the negative terminal of battery, etc. Removal and installation of regulator assembly. Power supply to the power window main switch or power window motor is cut off by the removal of battery terminal or if the battery fuse is blown (open). Disconnection and connection of power window main switch harness connector. D Removal and installation of motor from regulator assembly. Operation of regulator assembly as an independent unit. Removal and installation of door glass. Е 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 Work Procedure INFOID:0000000012797024 **1**.STEP 1 Fully open the door window. Н >> GO TO 2. 2.STEP $_{ m 2}$ Place a piece of wood near fully closed position. >> GO TO 3. 3.STEP $_{3}$

Close door glass completely with AUTO-UP.

>> GO TO 4.

4.STEP 4

Check the following conditions

- Check that glass lowers for approximately [front: 150 mm (5.9 in), rear: 116 mm (4.5 in)] without pinching piece of wood and stops.
- Check that glass does not rise not when operating the power window main switch while lowering.

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- 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-42, "Description".

PWC-43

>> END

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< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000012797025

1. CHECK POWER SUPPLY CIRCUIT 1

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

(+)			
Power windo	Power window main switch		Voltage (V)	
Connector	Terminal			
D8	4	Ground	9 - 16	
Do	9	Giouna	9 - 10	

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK GROUND CIRCUIT

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

Power windo	w main switch		Continuity	
Connector	Terminal	Ground	Continuity	
D8	7		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK POWER SUPPLY CIRCUIT 2

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

В	CM	Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M17	140	D8	9	Existed
IVI I 7	141	D6	4	Existed

4. Check continuity between BCM harness connector and ground.

В	BCM		Continuity
Connector	Terminal	Ground	Continuity
M17	140	Ground	Not existed
IVI I /	141		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-99, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

NFOID:0000000012797026

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1. CHECK POWER SUPPLY CIRCUIT 1

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

(+)				
Front power window s	Front power window switch (passenger side)		Voltage (V)	
Connector	Connector Terminal			
D21	10	Ground	9 - 16	

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK GROUND CIRCUIT

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

Front power window s	switch (passenger side)		Continuity	
Connector	Terminal	Ground	Continuity	
D21	11		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK POWER SUPPLY CIRCUIT 2

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

В	BCM		Front power window switch (passenger side)	
Connector	Terminal	Connector	Terminal	Continuity
M17	141	D21	10	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		
Connector	Terminal	Ground	Continuity
M17	141		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-99, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

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< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000012797027

1. CHECK POWER SUPPLY CIRCUIT 1

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

	(+)			
	Rear power window switch		(–)	Voltage (V)
Con	Connector			
LH	D33	10	Ground	9 - 16
RH	D43	10	Giodila	9-10

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK GROUND CIRCUIT

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

	Rear power window switch			Continuity
Conr	nector	Terminal	Ground	Continuity
LH	D33	11	Giouna	Existed
RH	D43			Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK POWER SUPPLY CIRCUIT 2

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

В	СМ	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
M17	141	LH	D33	10	Existed
IVI I 7	141	RH	D43	10	LXISIEG

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector Terminal		Ground	Continuity	
M17	141		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-99, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE: Component Function Check

INFOID:0000000012797028

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Front power window motor (driver side) is OK.

NO >> Refer to PWC-48, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000012797029

1. CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

(+)			Condition		
Front power window motor (driver side)		(-)			Voltage (V)
Connector	Terminal				1
D7 1	2	Ground		NEUTRAL	0 - 1
	2		Power window main switch	UP	9 - 16
	Giouria	Fower window main switch	NEUTRAL	0 - 1	
	1			DOWN	9 - 16

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-38</u>, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW MOTOR CIRCUIT

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

Power window main switch		Front power (drive	Continuity		
Connector	Terminal	Connector	Terminal		
	5	D7	1	Existed	
	6	וט	2		

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

Power windo	w main switch		Continuity	
Connector	Terminal	Ground	Continuity	
Do	5	Ground	Not existed	
D8	6		Not existed	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE: Component Function Check

INFOID:0000000012797030

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1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

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

NO >> Refer to PWC-49, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000012797031

1. CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

((+)			Voltage (V)	
	Front power window motor (passenger side)		Condition		
Connector	Terminal				
	2		Front power window switch (passenger side)	NEUTRAL	0 - 1
D25	2	Ground		UP	9 - 16
D23	4	Ground		NEUTRAL	0 - 1
	1			DOWN	9 - 16

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to <u>GW-38, "Removal and Installation"</u>. NO >> GO TO 2.

2.CHECK POWER WINDOW MOTOR CIRCUIT

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

Front power window switch (passenger side)		Front power window r	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D21	8	D25	2	Existed
DZT	9	D23	1	LAISIGU

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

Front power window s	witch (passenger side)		Continuity	
Connector	Connector Terminal		Continuity	
D21	8	Ground	Not existed	
DZT	9		Not existed	

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-81, "Removal and Installation".

NO >> Repair or replace harness.

REAR LH

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< DTC/CIRCUIT DIAGNOSIS >

REAR LH: Component Function Check

INFOID:0000000012797032

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to PWC-50, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

INFOID:0000000012797033

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

(+)					
Rear power w	Rear power window motor LH		Condition		Voltage (V)
Connector	Terminal				
	2	Ground		NEUTRAL	0 - 1
D36	2		Rear power window switch LH	UP	9 - 16
D30	1	Giodila		NEUTRAL	0 - 1
	1			DOWN	9 - 16

Is the inspection result normal?

YES >> Replace rear power window motor LH. Refer to <u>GW-45</u>, "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.
- Check continuity between rear power window switch LH harness connector and rear power window motor LH harness connector.

Rear power w	Rear power window switch LH		Rear power window motor LH		
Connector	Terminal	Connector Terminal		Continuity	
D33	8	D36	2	Existed	
D33	9	D30	1	LAISIEU	

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

Rear power v	vindow switch LH		Continuity
Connector	Terminal	Ground	Continuity
D33	8	Ground	Not existed
D33	9	-	Not existed

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation".

NO >> Repair or replace harness.

REAR RH

REAR RH: Component Function Check

INFOID:0000000012797034

1. CHECK POWER WINDOW MOTOR CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to PWC-51, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

EAR RH : Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

(+)					
Rear power window motor RH		(–)	Condition		Voltage (V)
Connector	Terminal				
	2		Ground Rear power window switch RH	NEUTRAL	0 - 1
D45	2	Ground		UP	9 - 16
D45	1	Giodila		NEUTRAL	0 - 1
				DOWN	9 - 16

Is the inspection result normal?

YES >> Replace rear power window motor RH. Refer to <u>GW-45</u>, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW MOTOR CIRCUIT

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

Rear power wi	ndow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D43	8	D45	2	Existed
D43	9	D43	1	LAISIEU

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

Rear power	window switch RH		Continuity
Connector	Terminal	Cround	Continuity
	8	- Ground	Not existed
D43	9		Not existed

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-82, "Removal and Installation".

NO >> Repair or replace harness.

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DRIVER SIDE

DRIVER SIDE: Component Function Check

INFOID:0000000012797036

1. CHECK ENCODER

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

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-52, "DRIVER SIDE : Diagnosis Procedure".

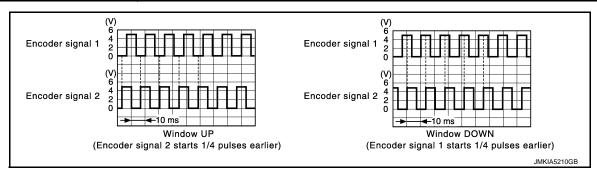
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000012797037

1. CHECK ENCODER SIGNAL

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

	+) w main switch	(-)	Signal (Reference value)	
Connector	Terminal	(Notorolloo value	(,	
	11	Ground	Refer to following signal	
Do	12	Giound	Refer to following signal	



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

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

Power windo	w main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector Terminal		
D8	11	D7	4	Existed
Do	12	D7	6	Existed

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

< DTC/CIRCUIT DIAGNOSIS >

Power wind	ow main switch		Continuity
Connector	Terminal	Ground	Continuity
D8	11	Ground	Not existed
Do	12		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3.}$ CHECK ENCORDER POWER SUPPLY CIRCUIT 1

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

(+)			
Front power window motor (driver side)		(–)	Voltage (V)
Connector	Terminal		
D7	5	Ground	9 - 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCORDER POWER SUPPLY CIRCUIT 2

Turn ignition switch OFF.

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

Power windo	Power window main switch Front p		Front power window motor (driver side)	
Connector	Terminal	Connector Terminal		Continuity
D8	3	D7	5	Existed

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	3		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> Repair or replace harness.

${f 5.}$ CHECK GROUND CIRCUIT 1

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

Power windo	w main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
D8	10	D7	3	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK GROUND CIRCUIT 2

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< DTC/CIRCUIT DIAGNOSIS >

- Connect power window main switch connector.
- Check continuity between power window main switch connector and ground.

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	10		Existed

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-38</u>, "Removal and Installation".

NO >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Component Function Check

INFOID:0000000012797038

1. CHECK ENCODER

Check that passenger side door glass performs AUTO open/close operation normally by power window main switch or front power window switch (passenger side).

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-54, "PASSENGER SIDE : Diagnosis Procedure".

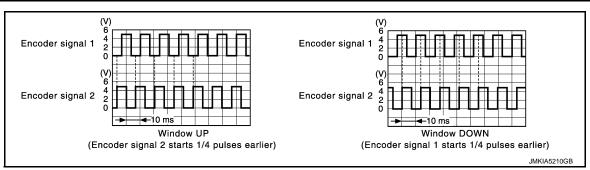
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000012797039

1. CHECK ENCODER SIGNAL

- 1. Turn ignition switch ON.
- Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope.

(+)		Oima al
Front power window s	Front power window switch (passenger side) (–)		Signal (Reference value)
Connector	Terminal		,
D21	12	Ground	Refer to following signal
D21	15	Giodila	ixelei to lollowing signal



Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-81, "Removal and Installation".

NO >> GO TO 2.

2.check encorder signal circuit

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

< DTC/CIRCUIT DIAGNOSIS >

Front power window	switch (passenger side)	Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
D21	12	D25	4	Existed
DZT	15	D25	6	LXISIEU

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

Front power window switch (passenger side)			Continuity
Connector	Terminal	Ground	Continuity
D21	12	Ground	Not existed
DZT	15		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCORDER POWER SUPPLY CIRCUIT 1

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

(+)			
Front power window motor (passenger side)		(–)	Voltage (V)
Connector	Connector Terminal		
D25	5	Ground	9 - 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCORDER POWER SUPPLY CIRCUIT 2

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

Front power window s	witch (passenger side)	Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D21	4	D25	5	Existed

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

Front power window switch (passenger side)			Continuity
Connector Terminal		Ground	Continuity
D21	4		Not existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-81, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

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

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Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D21	3	D25	3	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

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

Front power window switch (passenger side)			Continuity
Connector Terminal		Ground	Continuity
D21	3		Existed

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to <u>GW-38, "Removal and Installation"</u>.

NO >> Replace front power window switch (passenger side). Refer to PWC-81, "Removal and Installation".

REAR LH

REAR LH: Component Function Check

INFOID:0000000012797040

1. CHECK ENCODER OPERATION

Check that rear door LH glass performs AUTO open/close operation normally by power window main switch or rear power window switch LH.

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-56, "REAR LH: Diagnosis Procedure".

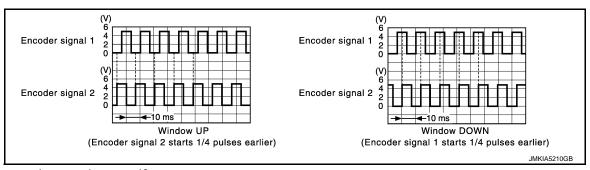
REAR LH: Diagnosis Procedure

INFOID:0000000012797041

1. CHECK ENCODER SIGNAL

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

(+) Rear power window switch LH		(-)	Signal (Reference value)
Connector	Terminal		(1.01010100 Valido)
D33	12	Ground	Poter to following signal
D33	15	Giouna	Refer to following signal



Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2.

2.CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect rear power window switch LH connector and rear power window motor LH connector.
- Check continuity between rear power window switch LH harness connector and rear power window motor LH harness connector.

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Rear power w	Rear power window switch LH		ndow motor LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D33	12	D36	4	Existed
D33	15	D36	6	Existed

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

Rear power window switch LH			Continuity
Connector	Terminal	Ground	Continuity
D33	12	Giouna	Not existed
D33	15		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCORDER POWER SUPPLY CIRCUIT 1

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

((+)		
Rear power window motor LH		(–)	Voltage (V)
Connector	Terminal		
D36	5	Ground	9 - 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCORDER POWER SUPPLY CIRCUIT2

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

Rear power window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D33	4	D36	5	Existed

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

Rear power window switch LH			Continuity
Connector	Terminal	Ground	Continuity
D33	4		Not existed

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation".

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

5. CHECK GROUND CIRCUIT 1

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

Rear power wi	ndow switch LH	Rear power window motor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D33	3	D36	3	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

- 1. Connect rear power window switch LH connector.
- 2. Check continuity between rear power window switch LH connector and ground.

Rear power window switch LH			Continuity
Connector	Terminal	Ground	Continuity
D33	3		Existed

Is the inspection result normal?

YES >> Replace rear power window motor LH. Refer to <u>GW-45</u>, "Removal and Installation".

NO >> Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation".

REAR RH

REAR RH: Component Function Check

INFOID:0000000012797042

1. CHECK ENCODER OPERATION

Check that rear door RH glass performs AUTO open/close operation normally by power window main switch or rear power window switch RH.

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-58, "REAR RH: Diagnosis Procedure".

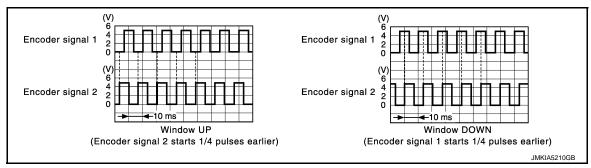
REAR RH: Diagnosis Procedure

INFOID:0000000012797043

1. CHECK ENCODER SIGNAL

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

(+) Rear power window switch RH		(-)	Signal (Reference value)	
Connector	Terminal		(**************************************	
D43	12	Ground	Refer to following signal	
D43	15	- Ground		



Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-82, "Removal and Installation".

NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

Turn ignition switch OFF.

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

Rear power w	indow switch RH	Rear power window motor RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
D43	D43 12 D45		4	Existed	
D43	15	D43	6	LAISIGU	

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

Rear power window switch RH			Continuity
Connector	Terminal	Ground	Continuity
D43	12	Ground	Not existed
	15	1	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY CIRCUIT 1

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

(+)		
Rear power wi	Rear power window motor RH		Voltage (V)
Connector	Terminal		
D45	5	Ground	9 - 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCORDER POWER SUPPLY CIRCUIT 2

- Turn ignition switch OFF.
- Disconnect rear power window switch RH connector.
- Check continuity between rear power window switch RH harness connector and rear power window motor RH harness connector.

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< DTC/CIRCUIT DIAGNOSIS >

Rear power wi	ndow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D43	4	D45	5	Existed

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

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

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-82, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK GROUND CIRCUIT 1

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

Rear power wii	ndow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D43	3	D45	3	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

- 1. Connect rear power window switch RH connector.
- 2. Check continuity between rear power window switch RH connector and ground.

Rear power window switch RH			Continuity
Connector	Terminal	Ground	Continuity
D43	3		Existed

Is the inspection result normal?

YES >> Replace rear power window motor RH. Refer to <u>GW-45, "Removal and Installation"</u>.

NO >> Replace rear power window switch RH. Refer to PWC-82, "Removal and Installation".

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH

Component Function Check

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1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Refer to DLK-106, "Component Function Check".

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to PWC-61, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012797045

1. CHECK DOOR KEY CYLINDER SWITCH SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect front door lock assembly (driver side) (door key cylinder switch) connect.
- 3. Turn ignition switch ON.
- Check voltage between front door lock assembly (driver side) (door key cylinder switch) harness connector and ground.

(+)				
Front door lock assembly (driver side) (door key cylinder switch)		(–)	Voltage (V)	
Connector	Terminal			
	5	Ground	4 - 6	
וט	6	Ground	4-0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- Check continuity between power window main switch harness connector and front door lock assembly (driver side) (door key cylinder switch) harness connector.

Power window main switch		Front door lock assembly (driver side) (door key cylinder switch)		Continuity
Connector	Terminal	Connector Terminal		
D8	15	D1	6	Existed
50	16		5	LAISIEU

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

Power window main switch			Continuity	
Connector	Terminal	Cround	Continuity	
	15	— Ground	Not evieted	
D8	16	1	Not existed	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) (door key cylinder switch) harness connector and ground.

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Front door lock assembly (driver side	e) (door key cylinder switch)		Continuity
Connector	Terminal	Ground	Continuity
D1	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

Check front door lock assembly (driver side) (door key cylinder switch).

Refer to PWC-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side) (door key cylinder switch). Refer to <u>DLK-235, "DOOR LOCK: Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000012797046

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect front door lock assembly (driver side) (door key cylinder switch) connector.
- 3. Check front door lock assembly (driver side) (door key cylinder switch).

Front door lock assembly (driver side) (door key cylinder switch) Terminal		Key position	Continuity
		Ney position	
5	Unlock	Existed	
	4	Neutral / Lock	Not existed
4	Lock	Existed	
6		Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO

>> Replace front door lock assembly (driver side) (door key cylinder switch). Refer to <u>DLK-236,</u> "OUTSIDE HANDLE: Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

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POWER WINDOW MAIN SWITCH: Diagnosis Procedure

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

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

	power window main switch		power window main switch (–)		Signal (Reference value)
Connector	Terminal				
D8	13	Ground	(V) 15 10 5 0 20ms PKIA7023E		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+)		
Power window main switch		(–)	Voltage (V)
Connector	Terminal		
D8	13	Ground	9 - 16

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> GO TO 3.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

В	CM	Power windo	w main switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M14	54	D8	13	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M14	54		Not existed

Is the inspection result normal?

>> Replace BCM. Refer to BCS-99, "Removal and Installation". YES

NO >> Repair or replace harness.

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4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

INFOID:0000000012797048

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope.

(+) Front power window sw Connector	itch (passenger side) Terminal	(-)	Signal (Reference value)
D21	16	Ground	(V) 15 10 5 0 20ms PKIA7023E

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-81, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+)			
Front power window switch (passenger side)		(–)	Voltage (V)
Connector	Terminal		
D21	16	Ground	9 - 16

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> GO TO 3.

3.check power window serial link circuit

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

Power windo	w main switch	Front power window s	witch (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	13	D21	16	Existed

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

< DTC/CIRCUIT DIAGNOSIS >

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	13		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

REAR POWER WINDOW SWITCH LH

REAR POWER WINDOW SWITCH LH: Diagnosis Procedure

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- Turn ignition switch ON.
- 2. Check signal between rear power window switch LH harness connector and ground with oscilloscope.

(+) Rear power wind Connector		(-)	Signal (Reference value)
D33	16	Ground	(V) 15 10 5 0 20ms PKIA7023E

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+) Rear power window switch LH			Voltage (V)
		(–)	
Connector	Terminal		
D33	16	Ground	9 - 16

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> GO TO 3.

3.check power window serial link circuit

- Disconnect power window main switch connector.
- 2. Check continuity between power window main switch harness connector and rear power window switch LH harness connector.

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INFOID:0000000012797049

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< DTC/CIRCUIT DIAGNOSIS >

Power windo	Power window main switch		Rear power window switch LH	
Connector	Terminal	Connector	Terminal	Continuity
D8	13	D33	16	Existed

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	13		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

REAR POWER WINDOW SWITCH RH

REAR POWER WINDOW SWITCH RH: Diagnosis Procedure

INFOID:0000000012797050

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

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

(+) Rear power window switch RH Connector Terminal		(–)	Signal (Reference value)
D43	16	Ground	(V) 15 10 5 0 20ms PKIA7023E

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-82, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+)			
Rear power window switch RH		(–)	Voltage (V)
Connector	Terminal		
D43	16	Ground	9 - 16

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> GO TO 3.

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Disconnect power window main switch connector.

2. Check continuity between power window main switch harness connector and rear power window switch RH harness connector.

Power window main switch		Rear power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	13	D43	16	Existed

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

Power window main switch			Continuity	
	Connector	Terminal	Ground	Continuity
	D8	13		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:0000000012797051

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to BCS-92, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check power window switch power supply and ground circuit.

Refer to PWC-44, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure	INFOID:000000012797052
1. CHECK DRIVER SIDE POWER WINDOW MOTOR	E
Check front power window motor (driver side). Refer to PWC-48, "DRIVER SIDE: Component Function Check". Is the measurement value within the specification?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	[
2.CONFIRM THE OPERATION Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1.	E
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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

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

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

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

Refer to PWC-45, "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 PASSENGER SIDE POWER WINDOW MOTOR CIRCUIT

Check front power window motor (passenger side) circuit.

Refer to PWC-49, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

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

Diagnosis Procedure

INFOID:0000000012797054

1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to PWC-81, "Removal and Installation".

>> INSPECTION END

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure

INFOID:0000000012797055

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) SERIAL LINK CIRCUIT

Check front power window switch (passenger side) serial link circuit.

Refer to PWC-64, "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.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE	
WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW	Α
SWITCH LH ARE OPERATED	
SWITCH LIT ARE OPERATED	_
WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW	В
SWITCH LH ARE OPERATED: Diagnosis Procedure	
	С
1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT	
Check rear power window switch power supply and ground circuit.	
Refer to PWC-46, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".	D
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	Е
2.CHECK REAR POWER WINDOW MOTOR LH	_
Check rear power window motor LH. Refer to PWC-50, "REAR LH: Component Function Check".	F
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	G
3.CONFIRM THE OPERATION	
Confirm the operation again.	Н
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".	
NO >> GO TO 1.	
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED	
WHEN REALTH OWER WINDOW OWN ON EITHOUT EITHOUT	
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WHEN REAR POWER WINDOW SWITCH LH IS OPERATED : Diagnosis Procedure	J
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED : Diagnosis Procedure	J
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NFOID:000000012797057 1.REPLACE REAR POWER WINDOW SWITCH LH	J
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NFOID:000000012797057	
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NFOID:000000012797057 1.REPLACE REAR POWER WINDOW SWITCH LH	
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation".	
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END	
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED	
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NFOID-000000012797057 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure NFOID-000000012797058	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure NPOID-0000000012797058 1.CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT Check rear power window switch LH serial link circuit.	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NOTICE OF THE PROCESS OF THE	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure NHFOID-000000012797000 1.CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT Check rear power window switch LH serial link circuit. Refer to PWC-65, "REAR POWER WINDOW SWITCH LH: Diagnosis Procedure". Is the inspection result normal?	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NOTICE OF THE PROCESS OF THE	PWC L M N
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure NFOID-000000012797057 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure NFOID-000000012797058 1.CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT Check rear power window switch LH serial link circuit. Refer to PWC-65, "REAR POWER WINDOW SWITCH LH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2.	PWC
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure **PROID-000000012797057** 1. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure **PROID-000000012797098** 1. CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT Check rear power window switch LH serial link circuit. Refer to PWC-65, "REAR POWER WINDOW SWITCH LH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CONFIRM THE OPERATION	PWC L M N
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure North Commonwealth	PWC L M N
WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure 1. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-82, "Removal and Installation". >> INSPECTION END WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure 1. CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT Check rear power window switch LH serial link circuit. Refer to PWC-65, "REAR POWER WINDOW SWITCH LH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CONFIRM THE OPERATION Confirm the operation again.	PWC L M N

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REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

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

1.check rear power window switch power supply and ground circuit

Check rear power window switch power supply and ground circuit.

Refer to PWC-46, "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-50, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED: Diagnosis Procedure

INFOID:0000000012797060

1. REPLACE REAR POWER WINDOW SWITCH RH

Replace rear power window switch RH.

Refer to PWC-82, "Removal and Installation"

>> INSPECTION END

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure

INFOID:0000000012797061

1. CHECK REAR POWER WINDOW SWITCH RH SERIAL LINK CIRCUIT

Check rear power window switch RH serial link circuit.

Refer to PWC-66, "REAR POWER WINDOW SWITCH RH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DRIVER SIDE : Diagnosis Procedure	
Divers olde : Diagnosis i roccadic	INFOID:000000012797062
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is performed and operation is confirmed. Refer to PWC-42, "Description".	•
Is the inspection result normal?	
YES >> INSPECTION END NO >> GO TO 2.	
2. CHECK ENCODER (DRIVER SIDE) CIRCUIT	
Check encoder (driver side) circuit.	
Refer to PWC-52, "DRIVER SIDE: Component Function Check". Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-45, "Intermittent Incident"</u> . NO >> GO TO 1.	
PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000012797063
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is performed and operation is confirmed. Refer to PWC-42, "Description".	
Is the inspection result normal?	
YES >> INSPECTION END	
NO >> GO TO 2.	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit.	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54, "PASSENGER SIDE : Component Function Check".	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3.	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54. "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54. "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54. "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54. "PASSENGER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54. "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal?	
NO >> GO TO 2. 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT Check encoder (passenger side) circuit. Refer to PWC-54. "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1.	INFOID:000000012797064

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMAL-LY

< SYMPTOM DIAGNOSIS >

Refer to PWC-42, "Description"

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER (REAR LH) CIRCUIT

Check encoder (rear LH) circuit.

Refer to PWC-56, "REAR LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.confirm the operation

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

REAR RH

REAR RH: Diagnosis Procedure

INFOID:0000000012797065

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to PWC-42, "Description".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER (REAR RH) CIRCUIT

Check encoder (rear RH) circuit.

Refer to PWC-58, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000012797066

1. CHECK POWER WINDOW AUTO OPERATION

Check AUTO operation of the door when anti-pinch function does not operate.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to

>> Refer to <u>PWC-73</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>" (driver side), <u>PWC-73</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>" (passenger side), <u>PWC-73</u>, "<u>REAR LH</u>: <u>Diagnosis Procedure</u>" (rear LH), <u>PWC-74</u>, "<u>REAR RH</u>: <u>Diagnosis Procedure</u>" (rear RH).

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2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

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Revision: November 2016 PWC-75 2016 Q50

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000012797067

1. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-117, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER WINDOW MAIN SWITCH SERIAL LINK CIRCUIT

Check power window main switch serial link circuit.

Refer to PWC-63, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >	
DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WIN- DOWS	Α
Diagnosis Procedure	В
1.PERFORM INITIALIZATION PROCEDURE	
Perform Initialization procedure and check that inspection result is normal. Refer to PWC-42 , "Description"	С
Is the inspection result normal? YES >> INSPECTION END NO >> GO TO 2.	D
2.CHECK DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR KEY CYLINDER SWITCH)	_
Check driver side door lock assembly (door key cylinder switch). Refer to PWC-61, "Component Function Check" Is the inspection result normal?	Е
YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
Confirm the operation again.	G
Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident" NO >> GO TO 1.	Н
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KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000012797069

1. CHECK POWER WINDOW OPERATION

Check power window operation.

Does power window up/down with power window main switch?

YES >> GO TO 2.

NO >> Refer to PWC-68, "Diagnosis Procedure".

2. CHECK DOOR LOCK OPERATION

Check door lock/unlock using Intelligent Key.

Does door lock/unlock using Intelligent Key?

YES >> GO TO 3.

NO >> Refer to <u>DLK-152</u>, "<u>Diagnosis Procedure</u>".

3.check "keyfob p/w test" in "active test"

Check "KEYFOB P/W TEST" in "ACTIVE TEST".

Refer to DLK-51, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-81, "Removal and Installation".

NO >> GO TO 4.

f 4.REPLACE POWER WINDOW MAIN SWITCH

- 1. Replace power window main switch. Refer to PWC-81, "Removal and Installation".
- 2. Confirm the operation again.

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace BCM. Refer to BCS-99, "Removal and Installation".

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000012797070 1. REPLACE POWER WINDOW MAIN SWITCH В Replace power window main switch. Refer to PWC-81, "Removal and Installation". С >> INSPECTION END D Е F G Н J

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POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000012797071

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

Refer to PWC-81, "Removal and Installation".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000012797072

1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to PWC-81, "Removal and Installation".

>> INSPECTION END

REAR LH

REAR LH: Diagnosis Procedure

INFOID:0000000012797073

1. REPLACE REAR POWER WINDOW SWITCH LH

Replace rear power window switch LH.

Refer to PWC-82, "Removal and Installation".

>> INSPECTION END

REAR RH

REAR RH: Diagnosis Procedure

INFOID:0000000012797074

1. REPLACE REAR POWER WINDOW SWITCH RH

Replace rear power window switch RH.

Refer to PWC-82, "Removal and Installation".

>> INSPECTION END

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

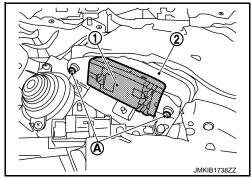
REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-14, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Remove power window main switch mounting screws (A), and then remove power window main switch (1) from front door finisher (2).



INSTALLATION

Note the following, and then install in the reverse order of removal.

NOTE:

• If power window main switch is replaced or is removed, it is necessary to perform the initialization procedure. Refer to PWC-41, "Description".

• The same procedure is also performed for front power window switch (passenger side).

PWC

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Revision: November 2016 PWC-81 2016 Q50

REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

REAR POWER WINDOW SWITCH

Removal and Installation

INFOID:0000000012797076

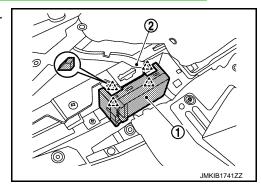
CAUTION:

Never bend the pawl of rear door finisher.

REMOVAL

- 1. Remove rear door finisher. Refer to INT-19, "REAR DOOR FINISHER: Removal and Installation".
- 2. Remove rear power window switch ① from rear door finisher ②.





INSTALLATION

Install in the reverse order of removal.