

SECTION **PWC**

POWER WINDOW CONTROL SYSTEM

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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000010988842

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4.IDENTIFY MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS"

Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system.

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[FRONT & REAR WINDOW ANTI-PINCH]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000010988843

When battery negative terminal is disconnected, initialization is necessary.

If any of the following operations are performed, initialization is necessary as well as when battery negative terminal is disconnected.

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

The operations as per the following cannot be performed while initialization is not complete.

- AUTO-UP operation
- Anti-pinch function
- Door key cylinder power window function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000010988844

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or power window control unit connector. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open door glass. (This operation is unnecessary if door glass is already fully open.)
4. Pull and hold power window switch UP (AUTO-UP operation). Even after door glass stops at the fully closed position, pull the switch for 2 seconds or more.
5. Initialization procedure is complete.
6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- **Perform initialization when AUTO-UP operation or anti-pinch function does not operate normally.**
- **Check that AUTO-UP operates before inspection when initialization is performed.**
- **Never check with hands or other body parts because they may be pinched. Never get pinched.**
- **Finish initialization. Otherwise, the next operation cannot be done.**

1. **AUTO-UP operation**
2. **Anti-pinch function**
3. **Door key cylinder power window function**

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000010988845

When the control unit is replaced, initialization is necessary.

If any of the following operations are performed, initialization is necessary as well as when the control unit is disconnected.

- Power supply to the power window control unit is cut off by the removal of battery terminal or the battery fuse is blown.

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INSPECTION AND ADJUSTMENT

[FRONT & REAR WINDOW ANTI-PINCH]

< BASIC INSPECTION >

- Disconnection and connection of power window control unit harness connector.
- Removal and installation of motor from regulator assembly.
- Disconnection and connection of battery negative terminal.
- Removal and installation of rear power window control unit.
- Removal and installation of door glass.
- Removal and installation of door glass run.

The following specified operations cannot be performed while initialization is not complete.

- AUTO-UP operation
- Anti-pinch function
- Door key cylinder power window function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000010988846

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or power window control unit connector. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open door glass. (This operation is unnecessary if door glass is already fully open.)
4. Pull and hold power window switch UP (AUTO-UP operation). Even after door glass stops at the fully closed position, pull the switch for 2 seconds or more.
5. Initialization procedure is complete.
6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- **Perform initialization when AUTO-UP operation or anti-pinch function does not operate normally.**
 - **Check that AUTO-UP operates before inspection when initialization is performed.**
 - **Never check with hands or other body parts because they may be pinched. Never get pinched.**
 - **Finish initialization. Otherwise, the next operation cannot be done.**
1. **AUTO-UP operation**
 2. **Anti-pinch function**
 3. **Door key cylinder power window function**

POWER WINDOW SYSTEM

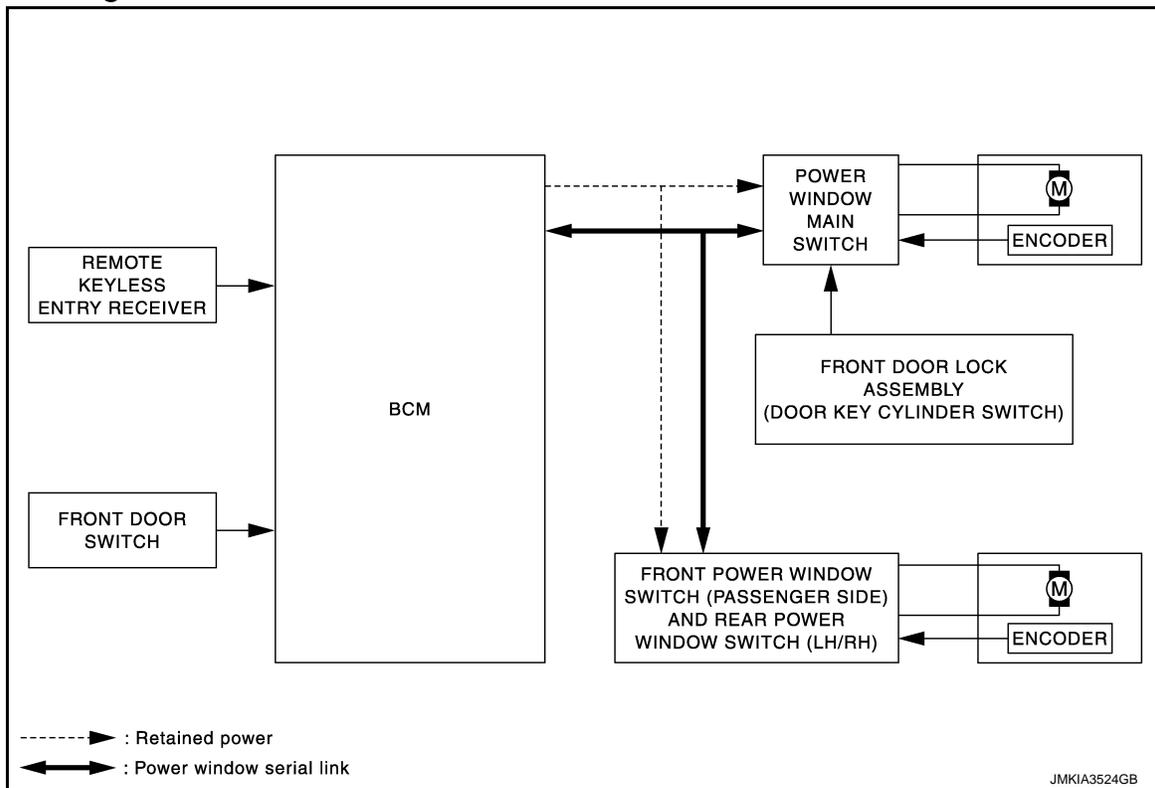
[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:0000000010988848

- Power window system is activated by power window switch when ignition switch turns ON, or during the retained power operation after ignition switch turns OFF.
- 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 switch turns to AUTO.
- Power window serial link transmits the signals from power window main switch to each module.
- 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 each seat is in AUTO-UP operation, power window of each seat operates in the reverse direction.
- Hold the door key cylinder to the LOCK or UNLOCK direction for 1 second or more to OPEN or CLOSE all power windows when ignition switch OFF.
- All power windows open when pressing Intelligent Key unlock button for 3 seconds.

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.

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 Cancel Conditions

- Front door CLOSE (door switch OFF) → OPEN (door switch ON).
- When ignition switch turns ON again.

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POWER WINDOW SYSTEM

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

- When timer times out (45 seconds).

POWER WINDOW LOCK FUNCTION

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

POWER WINDOW SERIAL LINK

- All power window switches and BCM transmit and receive the power window serial link.
- Power window serial link transmits the power window main switch operation signals and IGN signal to power window main switch module, front power window switch (passenger side) module, and rear power window switches.

ANTI-PINCH OPERATION

- Pinch the foreign matter in the door glass during AUTO-UP operation is the anti-pinch function that lowers the door glass 150 mm (5.9 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 door glass for 150 mm (5.9 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 POWER WINDOW FUNCTION

Hold the door key cylinder to the LOCK or UNLOCK direction for 1.5 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 1.5 seconds or more to perform CLOSE operation of the door glass.
- Hold door key cylinder to UNLOCK position for 1.5 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 the unlock button is kept pressed more than 15 seconds.
- 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.

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUPPORT". Refer to [DLK-53, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

NOTE:

Use CONSULT to change settings.

MODE 1 (3 sec) / MODE 2 (OFF) / MODE 3 (5 sec)

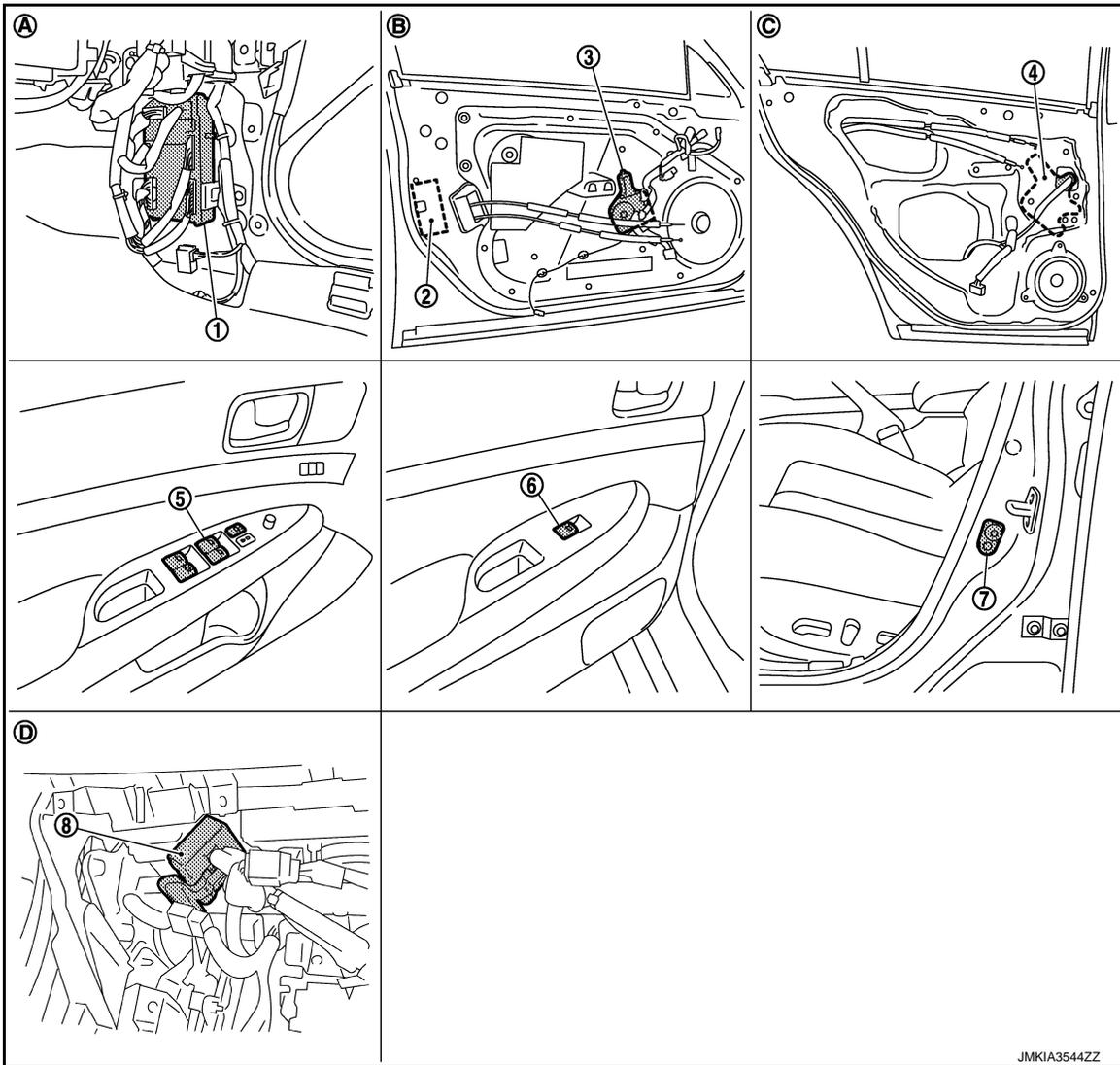
POWER WINDOW SYSTEM

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000010988849



- | | | |
|--|--|---|
| 1. BCM | 2. Front door lock assembly (driver side) (door key cylinder switch) | 3. Front power window motor (driver side) |
| 4. Rear power window motor LH | 5. Power window main switch | 6. Rear power window switch LH |
| 7. Front door switch (driver side) | 8. Remote keyless entry receiver | |
| A. View with dash side lower (passenger side) | B. View with front door finisher removed | C. View with rear door finisher removed |
| D. View with instrument lower panel (passenger side) removed | | |

Component Description

INFOID:000000010988850

Component	Function
BCM	<ul style="list-style-type: none"> Supplies power supply to power window switch. Controls retained power function.
Power window main switch	<ul style="list-style-type: none"> Directly controls all power window motor of all doors. Controls anti-pinch operation of power window.
Front power window switch (passenger side)	<ul style="list-style-type: none"> Controls anti-pinch operation of power window. Controls power window motor of passenger door.

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POWER WINDOW SYSTEM

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

Component	Function
Rear power window switch	<ul style="list-style-type: none">• Controls anti-pinch operation of power window.• Controls power window motor of rear right and left doors.
Power window motor	<ul style="list-style-type: none">• Integrates the ENCODER and WINDOW MOTOR.• Starts operating with signals from each power window switch.• Transmits power window motor rotation as a pulse signal to power window switch.
Front door lock assembly (door key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.
Front door switch	Detects door open/close condition and transmits to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the intelligent Key, and then transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011419974

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	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*			
<ul style="list-style-type: none"> 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		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE:

*: This item is displayed, but 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.

DIAGNOSIS SYSTEM (BCM)

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

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

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.

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

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

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:000000010988852

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.

DIAGNOSIS SYSTEM (BCM)

[FRONT & REAR WINDOW ANTI-PINCH]

< 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:000000011419980

WORK SUPPORT

Monitor item	Description
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.
AUTO LOCK SET	Auto door lock time can be changed in this mode. <ul style="list-style-type: none"> • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side and passenger side) mode can be changed to operate (ON) or not operate (OFF) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk opener request switch can be changed to operate (ON) or not operate (OFF) with this mode.
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. <ul style="list-style-type: none"> • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. <ul style="list-style-type: none"> • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.
TRUNK OPEN DELAY	Trunk button pressing on Intelligent Key button can be selected as per the following in this mode. <ul style="list-style-type: none"> • MODE 1: Press and hold • MODE 2: Press twice • MODE 3: Press and hold, or press twice
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. <ul style="list-style-type: none"> • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. <ul style="list-style-type: none"> • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operation
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.

DIAGNOSIS SYSTEM (BCM)

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

Monitor item	Description
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. <ul style="list-style-type: none"> • 70 msec • 100 msec • 200 msec
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.

SELF-DIAG RESULT

Refer to [PWC-81. "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 door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.
CLUTCH SW* ¹	Indicates [ON/OFF] condition of clutch switch.
BRAKE SW 1	Indicates [ON/OFF]* ² condition of brake switch power supply.
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	NOTE: This item is displayed, but can not be monitored.
S/L -UNLOCK	NOTE: This item is displayed, but can not be monitored.
S/L RELAY -F/B	NOTE: This item is displayed, but can not be monitored.
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.
S/L LOCK-IPDM	NOTE: This item is displayed, but can not be monitored.
S/L UNLK-IPDM	NOTE: This item is displayed, but can not be monitored.
S/L RELAY-REQ	NOTE: This item is displayed, but can not be monitored.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].

DIAGNOSIS SYSTEM (BCM)

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

Monitor Item	Condition
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/UNLOCK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of 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.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
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 button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.
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.

*1: It is displayed but does not operate on M/T models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT screen is touched.
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down is activated after "ON" on CONSULT screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated after "ON" on CONSULT screen is touched.
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. <ul style="list-style-type: none"> • Take away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. • Key warning chime sounds when "KEY" on CONSULT screen is touched. • OFF position warning chime sounds when "KNOB" on CONSULT screen is touched.
INDICATOR	This test is able to check warning lamp operation. <ul style="list-style-type: none"> • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT screen is touched. • "KEY" Warning lamp blinks when "KEY IND" on CONSULT screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT screen is touched.
LCD	This test is able to check meter display information <ul style="list-style-type: none"> • Engine start information displays when "BP N" on CONSULT screen is touched. • Engine start information displays when "BP I" on CONSULT screen is touched. • Key ID warning displays when "ID NG" on CONSULT screen is touched. • ROTAT: This item is displayed, but can not be monitored. • P position warning displays when "SFT P" on CONSULT screen is touched. • Intelligent Key insert information displays when "INSRT" on CONSULT screen is touched. • Intelligent Key low battery warning displays when "BATT" on CONSULT screen is touched. • Take away through window warning displays when "NO KY" on CONSULT screen is touched. • Take away warning display when "OUTKEY" on CONSULT screen is touched. • OFF position warning display when "LK WN" on CONSULT screen is touched.

DIAGNOSIS SYSTEM (BCM)

[FRONT & REAR WINDOW ANTI-PINCH]

< SYSTEM DESCRIPTION >

Test item	Description
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT screen is touched.
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps are activated after "LH/RH/OFF" on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn is activated after "ON" on CONSULT screen is touched.
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT screen is touched.
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.
LOCK INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. ACC indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
IGNITION ON IND	This test is able to check on indicator in push-ignition switch operation. ON indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT screen is touched.
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT screen is touched.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000010988853

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.

(+)		(-)	Voltage (V) (Approx.)
Power window main switch			
Connector	Terminal	Ground	12
D8	10		
D9	19		

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2. 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.

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M118	2	D9	19	Existed
	3	D8	10	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M118	2		Not existed
	3		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-90. "Exploded View"](#).

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D9	17		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:000000010988854

1. CHECK POWER SUPPLY CIRCUIT 1

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.

(+)		(-)	Voltage (V) (Approx.)
Front power window switch (passenger side)	Terminal		
Connector	Terminal	Ground	12
D38	10		

Is the measurement value within the specification?

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

2. CHECK POWER SUPPLY CIRCUIT 2

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

BCM		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M118	2	D38	10	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M118	2		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-90, "Exploded View"](#).
NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D38	11		Existed

Is the inspection result normal?

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

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000010988855

1. CHECK POWER SUPPLY CIRCUIT 1

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

(+)		Terminal	(-)	Voltage (V) (Approx.)
Rear power window switch				
Connector				
LH	D57	10	Ground	12
RH	D77			

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT 2

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

BCM		Rear power window switch		Continuity
Connector	Terminal	Connector	Terminal	
M118	2	LH	D57	Existed
		RH	D77	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-90, "Exploded View"](#).

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Rear power window switch		Terminal	Ground	Continuity
Connector				
LH	D57	11	Ground	Existed
RH	D77			

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

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POWER WINDOW MOTOR

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000010988856

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

DRIVER SIDE : Component Function Check

INFOID:000000010988857

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

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

Is the inspection result normal?

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

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

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010988858

1.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) 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	Voltage (V) (Approx.)	
Connector	Terminal				
D10	1	Ground	Power window main switch	NEUTRAL	0
			DOWN	12	
	2		NEUTRAL	0	
			UP	12	

Is the measurement value within the specification?

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

NO >> GO TO 2.

2.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) 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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	8	D10	2	Existed
	11		1	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	8		Not existed
	11		

Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

POWER WINDOW MOTOR

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000010988859

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

PASSENGER SIDE : Component Function Check

INFOID:000000010988860

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

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 >> Power window motor (passenger side) is OK.
- NO >> Refer to [PWC-21, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010988861

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

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
D40	1	Ground	NEUTRAL	0
			UP	12
	2		NEUTRAL	0
			DOWN	12

Is the measurement value within the specification?

- YES >> Replace front power window motor (passenger side).
- NO >> GO TO 2.

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

1. Turn ignition switch OFF.
2. 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 switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D38	8	D40	2	Existed
	9		1	

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D38	8		Not existed
	9		

Is the inspection result normal?

- YES >> Replace front power window switch (passenger side).

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POWER WINDOW MOTOR

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:000000010988862

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

REAR LH : Component Function Check

INFOID:000000010988863

1.CHECK REAR POWER WINDOW MOTOR LH OPERATION

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

Is the inspection result normal?

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

REAR LH : Diagnosis Procedure

INFOID:000000010988864

1.CHECK REAR POWER WINDOW MOTOR LH 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 window motor LH		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
D52	1	Ground	Rear power window switch LH NEUTRAL	0
			UP	12
	3		NEUTRAL	0
			DOWN	12

Is the measurement value within the specification?

- YES >> Replace rear power window motor LH.
 NO >> GO TO 2.

2.CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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

Rear power window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D57	8	D52	1	Existed
	9		3	

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

Rear power window switch LH		Ground	Continuity
Connector	Terminal		
D57	8		Not existed
	9		

Is the inspection result normal?

POWER WINDOW MOTOR

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace rear power window switch LH.
- NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:000000010988865

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

REAR RH : Component Function Check

INFOID:000000010988866

1. CHECK REAR POWER WINDOW MOTOR RH OPERATION

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

Is the inspection result normal?

- YES >> Power window motor RH is OK.
- NO >> Refer to [PWC-23, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010988867

1. CHECK REAR POWER WINDOW MOTOR RH 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.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal				
D72	1	Ground	Rear power window switch RH	NEUTRAL	0
			UP	12	
	3		NEUTRAL	0	
			DOWN	12	

Is the measurement value within the specification?

- YES >> Replace rear power window motor RH.
- NO >> GO TO 2.

2. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

1. 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 window switch RH		Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D77	8	D72	1	Existed
	9		3	

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

Rear power window switch RH		Ground	Continuity
Connector	Terminal		
D77	8		Not existed
	9		

Is the inspection result normal?

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

- YES >> Replace rear power window switch RH.
- NO >> Repair or replace harness.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

ENCODER DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000010988868

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

DRIVER SIDE : Component Function Check

INFOID:0000000010988869

1.CHECK ENCODER OPERATION

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

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to [PWC-25, "DRIVER SIDE : Diagnosis Procedure"](#).

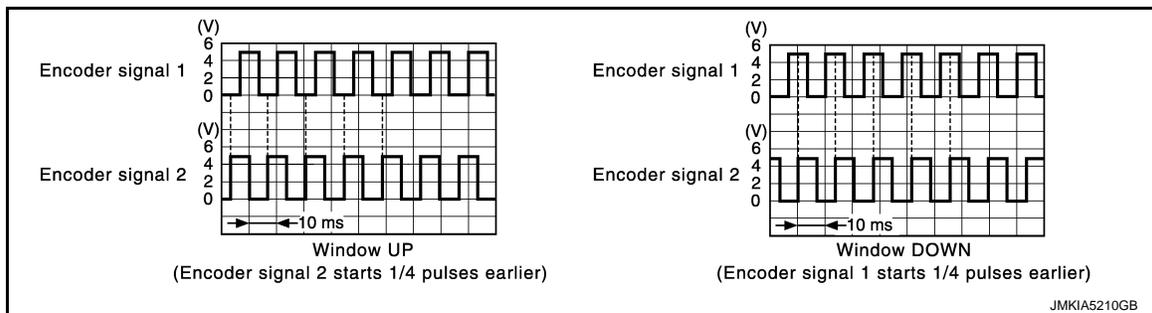
DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010988870

1.CHECK ENCODER SIGNAL

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

(+)		(-)	Signal (Reference value)
Power window main switch			
Connector	Terminal	Ground	Refer to following signal
D8	9		
	13		



Is the inspection result normal?

YES >> Replace power window main switch.

NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

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

Power window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	9	D10	3	Existed
	13		5	

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

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	9		
	13		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 power window main switch connector.
2. Turn ignition switch ON.
3. Check voltage between front power window motor (driver side) harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Front power window motor (driver side)			
Connector	Terminal		
D10	4	Ground	12

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	15	D10	4	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	15		

Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

5. CHECK GROUND CIRCUIT 1

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 window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	2	D10	6	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	2		Existed

Is the inspection result normal?

- YES >> Replace front power window motor (driver side).
 NO >> Replace power window main switch.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000010988871

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

PASSENGER SIDE : Component Function Check

INFOID:000000010988872

1.CHECK ENCODER OPERATION

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

Is the inspection result normal?

- YES >> Encoder operation is OK.
 NO >> Refer to [PWC-27, "PASSENGER SIDE : Diagnosis Procedure"](#).

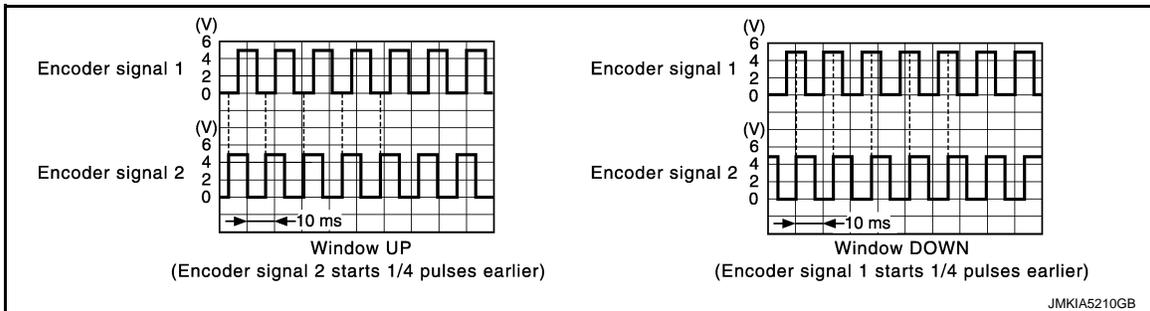
PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010988873

1.CHECK ENCODER SIGNAL

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

(+)		(-)	Signal (Reference value)
Front power window switch (passenger side)			
Connector	Terminal		
D38	12	Ground	Refer to following signal
	15		



Is the inspection result normal?

- YES >> Replace front power window switch (passenger side).
 NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window switch (passenger side) connector and front power window motor (passenger side) connector.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

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

Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D38	12	D40	5	Existed
	15		3	

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D38	12		Not existed
	15		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER 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.

(+)		(-)	Voltage (V) (Approx.)
Front power window motor (passenger side)			
Connector	Terminal		
D40	4	Ground	12

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT 2

1. Turn ignition switch OFF.
2. 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 switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D38	4	D40	4	Existed

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

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D38	4		Not existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side).

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

1. Turn ignition switch OFF.
2. 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.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D38	3	D40	6	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.
2. Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window switch (passenger side)		Ground	Continuity
Connector	Terminal		
D38	3		Existed

Is the inspection result normal?

- YES >> Replace front power window motor (passenger side).
- NO >> Replace front power window switch (passenger side).

REAR LH

REAR LH : Description

INFOID:000000010988874

Detects condition of the rear power window motor LH operation and transmits to rear power window switch LH as the pulse signal.

REAR LH : Component Function Check

INFOID:000000010988875

1.CHECK ENCODER OPERATION

Check rear door LH glass perform 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-29, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010988876

1.CHECK ENCODER SIGNAL

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

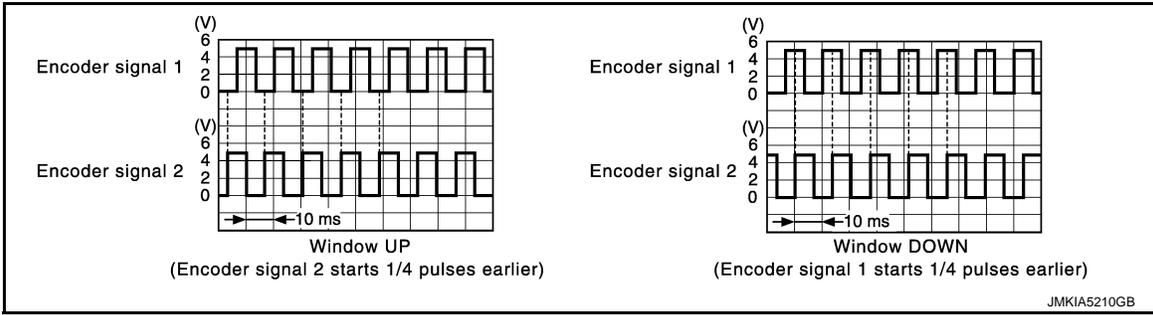
(+)		(-)	Signal (Reference value)
Rear power window switch LH			
Connector	Terminal		
D57	12	Ground	Refer to following signal
	15		

PWC

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]



Is the inspection result normal?

- YES >> Replace rear power window switch LH.
NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

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

Rear power window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D57	12	D52	5	Existed
	15		6	

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

Rear power window switch LH		Ground	Continuity
Connector	Terminal		
D57	12		Not existed
	15		

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

(+)		(-)	Voltage (V) (Approx.)
Rear power window motor LH			
Connector	Terminal		
D52	2	Ground	12

Is the inspection result normal?

- YES >> GO TO 5.
NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT 2

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

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Rear power window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D57	4	D52	2	Existed

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

Rear power window switch LH		Ground	Continuity
Connector	Terminal		
D57	4		Not existed

Is the inspection result normal?

- YES >> Replace rear power window switch LH.
NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

- Turn ignition switch OFF.
- 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 window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	
D57	3	D52	4	Existed

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Repair or replace harness.

6.CHECK GROUND CIRCUIT 2

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

Rear power window switch LH		Ground	Continuity
Connector	Terminal		
D57	3		Existed

Is the inspection result normal?

- YES >> Replace rear power window motor LH.
NO >> Replace rear power window switch LH.

REAR RH

REAR RH : Description

INFOID:00000001098877

Detects condition of the rear power window motor RH operation and transmits to rear power window switch RH as the pulse signal.

REAR RH : Component Function Check

INFOID:00000001098878

1.CHECK ENCODER OPERATION

Check rear door RH glass perform 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-32. "REAR RH : Diagnosis Procedure"](#).

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

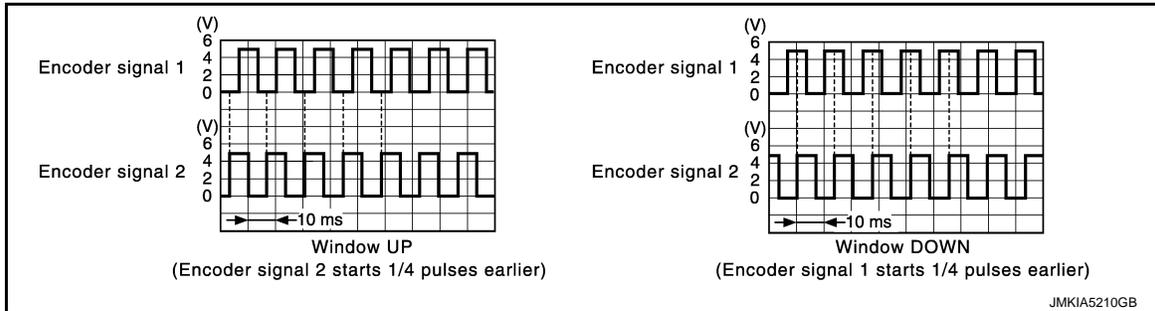
REAR RH : Diagnosis Procedure

INFOID:000000010988879

1.CHECK ENCODER SIGNAL

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

(+)		(-)	Signal (Reference value)
Rear power window switch RH			
Connector	Terminal	Ground	Refer to following signal
D77	12		
	15		



Is the inspection result normal?

- YES >> Replace rear power window switch RH.
 NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

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

Rear power window switch RH		Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D77	12	D72	5	Existed
	15		6	

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

Rear power window switch RH		Ground	Continuity
Connector	Terminal		
D77	12		Not existed
	15		

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

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

(+)		(-)	Voltage (V) (Approx.)
Rear power window motor RH			
Connector	Terminal		
D72	2	Ground	12

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT 2

1. 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 window switch RH		Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D77	4	D72	2	Existed

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

Rear power window switch RH		Ground	Continuity
Connector	Terminal		
D77	4		Not existed

Is the inspection result normal?

YES >> Replace rear power window switch RH.

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

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

Rear power window switch RH		Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	
D77	3	D72	4	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 harness connector.
2. Check continuity between rear power window switch RH harness connector and ground.

Rear power window switch RH		Ground	Continuity
Connector	Terminal		
D77	3		Existed

Is the inspection result normal?

YES >> Replace rear power window motor RH.

NO >> Replace rear power window switch RH.

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PWC

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DOOR KEY CYLINDER SWITCH

Description

INFOID:000000010988880

Power window main switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signals.

Component Function Check

INFOID:000000010988881

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-51, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Door key cylinder switch is OK.
NO >> Refer to [PWC-34, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010988882

1. CHECK DOOR KEY CYLINDER SWITCH SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Front door lock assembly (driver side) (key cylinder switch)			
Connector	Terminal	Ground	5
D15	5		
	6		

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.
3. Check continuity between power window main switch harness connector and front door lock assembly (driver side) (key cylinder switch) harness connector.

Power window main switch		Front door lock assembly (driver side) (key cylinder switch)		Continuity
Connector	Terminal	Connector	Terminal	
D8	4	D15	6	Existed
	6		5	

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

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	4		Not existed
	6		

Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Front door lock assembly (driver side) (key cylinder switch)		Ground	Continuity
Connector	Terminal		
D15	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) (key cylinder switch).

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side) (key cylinder switch).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010988883

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) (key cylinder switch) connector.
3. Check front door lock assembly (driver side) (key cylinder switch) terminals under the following conditions.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side) (key cylinder switch).

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SERIAL LINK

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000010988884

Power window main switch, front power window switch (passenger side), rear power window switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, front power window switch (passenger side) and rear power window switch.

- Keyless power window down signal

The signals mentioned below are transmitted from power window main switch to front power window switch (passenger side) and rear power window switch.

- Front passenger side door window and rear door window operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000010988885

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

With CONSULT

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-51, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

YES >> Power window serial link is OK.

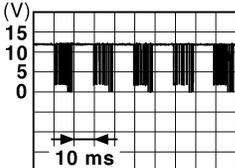
NO >> Refer to [PWC-36, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000010988886

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D8	14	Ground	 <p>(V)</p> <p>15 10 5 0</p> <p>10 ms</p> <p>JPMIA0013GB</p>

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

POWER WINDOW SERIAL LINK

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

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

(+)		(-)	Voltage (V) (Approx.)
Power window main switch			
Connector	Terminal	Ground	12
D8	14		

Is the measurement value within the specification?

YES >> Replace power window main switch.

NO >> GO TO 3.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	132	D8	14	Existed

4. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-90, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> INSPECTION END

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Description

INFOID:000000010988887

Power window main switch, front power window switch (passenger side), rear power window switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, front power window switch (passenger side) and rear power window switch.

- Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to front power window switch (passenger side) and rear power window switch.

- Front passenger side door window and rear door window operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Component Function

Check

INFOID:000000010988888

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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POWER WINDOW SERIAL LINK

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

Ⓟ With CONSULT

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-51, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

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

Is the inspection result normal?

YES >> Power window serial link is OK.

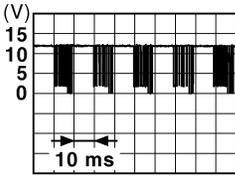
NO >> Refer to [PWC-38, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Diagnosis Procedure".](#)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure

INFOID:000000010988889

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D38	16	Ground	 <p>JPMA0013GB</p>

Is the inspection result normal?

YES >> Replace front power window switch (passenger side).

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

Power window main switch		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	14	D38	16	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	14		Not existed

Is the inspection result normal?

YES >> Replace power window main switch.

POWER WINDOW SERIAL LINK

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:000000010988890

Power window main switch, front power window switch (passenger side), rear power window switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, front power window switch (passenger side) and rear power window switch.

- Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to front power window switch (passenger side) and rear power window switch.

- Front passenger side door window and rear door window operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

REAR LH : Component Function Check

INFOID:000000010988891

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

With CONSULT

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-51, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

YES >> Power window serial link is OK.

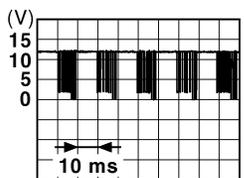
NO >> Refer to [PWC-39, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010988892

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D57	16	Ground	 <p>JPMA0013GB</p>

Is the inspection result normal?

YES >> Replace rear power window switch LH.

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK CIRCUIT



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POWER WINDOW SERIAL LINK

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

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

Power window main switch		Rear power window switch LH		Continuity
Connector	Terminal	Connector	Terminal	
D8	14	D57	16	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	14		Not existed

Is the inspection result normal?

- YES >> Replace power window main switch.
 NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:000000010988893

Power window main switch, front power window switch (passenger side), rear power window switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, front power window switch (passenger side) and rear power window switch.

- Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to front power window switch (passenger side) and rear power window switch.

- Front passenger side door window and rear door window operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

REAR RH : Component Function Check

INFOID:000000010988894

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

With CONSULT

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-51. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

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

Is the inspection result normal?

- YES >> Power window serial link is OK.
 NO >> Refer to [PWC-40. "REAR RH : Diagnosis Procedure".](#)

REAR RH : Diagnosis Procedure

INFOID:000000010988895

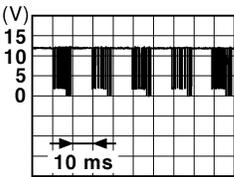
1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

POWER WINDOW SERIAL LINK

[FRONT & REAR WINDOW ANTI-PINCH]

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Signal (Reference value)
Rear power window switch RH			
Connector	Terminal		
D77	16	Ground	 <p style="text-align: right; font-size: small;">JPMA0013GB</p>

Is the inspection result normal?

- YES >> Replace rear power window switch RH.
- NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector and rear power window switch RH connector.
3. 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	
D8	14	D77	16	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	14		Not existed

Is the inspection result normal?

- YES >> Replace power window main switch.
- NO >> Repair or replace harness.

PWC

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011419975

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial position
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status
DOOR SW-RR	Rear RH door closed	Off
	Rear LH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK	Off
	Driver door key cylinder LOCK	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK	Off
	Driver door key cylinder LOCK	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status	
ENGINE STATE	Engine stopped	Stop	A
	While the engine stalls	Stall	
	At engine cranking	Crank	B
	Engine running	Run	
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off	C
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off	
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off	D
VEH SPEED 1	While driving	Equivalent to speedometer reading	E
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DOOR STAT-DR	Driver door is locked	LOCK	F
	Wait with selective UNLOCK operation (60 seconds)	READY	
	Driver door is unlocked	UNLOCK	G
DOOR STAT-AS	Passenger door is locked	LOCK	H
	Wait with selective UNLOCK operation (60 seconds)	READY	
	Passenger door is unlocked	UNLOCK	I
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset	
	Ignition switch ON	Set	I
PRMT ENG STRT	The engine start is prohibited	Reset	J
	The engine start is permitted	Set	
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off	PWC
	The Intelligent Key is inserted into key slot	On	
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key	L
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	M
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done	
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet	N
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	O
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	P
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

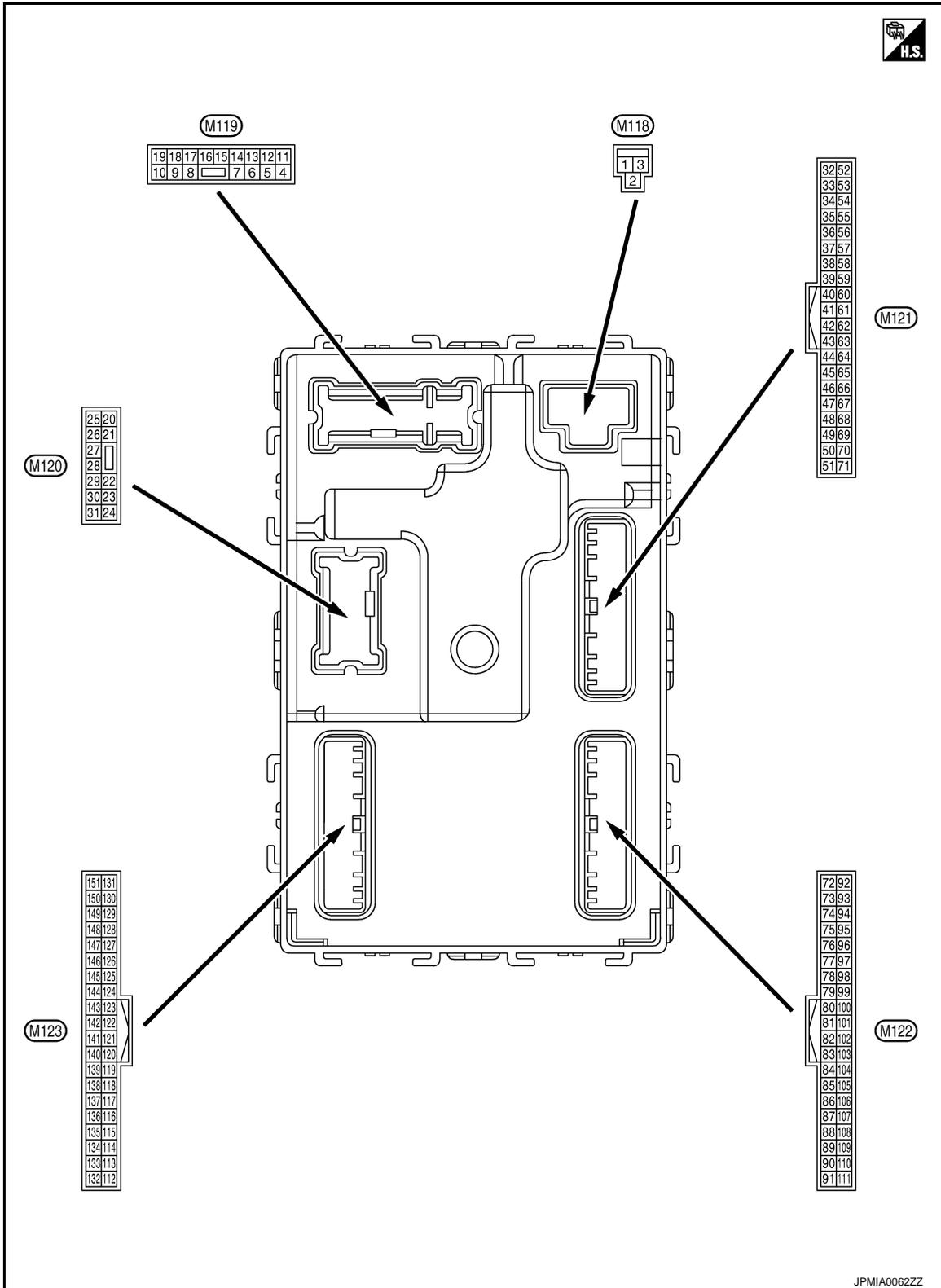
Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

TERMINAL LAYOUT



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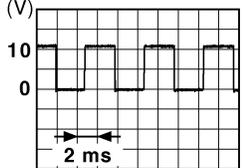
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PHYSICAL VALUES

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

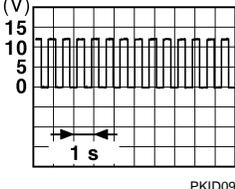
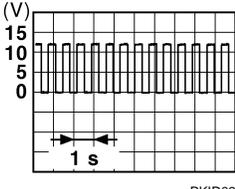
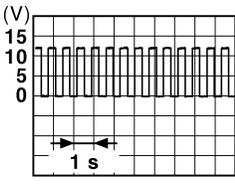
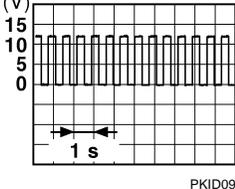
[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
4 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
5 (P)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK) Actuator is not activated	0 V
7 (SB)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	12 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
10 (P)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position.</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
19 (V)	Ground	Interior room lamp control	Output	Interior room lamp	OFF	12 V
					ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
23 (LG)	Ground	Trunk lid open	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V
					Other than OPEN (Trunk lid opener actuator is not activated)	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
30 (P)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0 V
					OFF	12 V

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BCM (BODY CONTROL MODULE)

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[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (SB)	Ground	Trunk room antenna (-)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p>JMKIA0063GB</p>
35 (V)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p>JMKIA0063GB</p>
38 (B)	Ground	Rear bumper anten- na (-)	Output	When the trunk lid opener re- quest switch is operated with ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

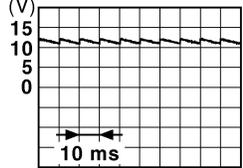
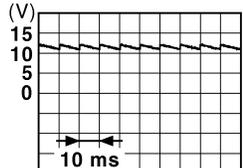
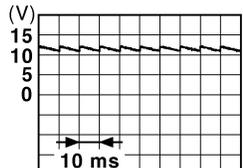
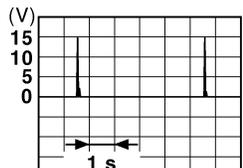
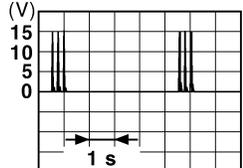
Terminal No. (Wire color)		Description		Condition	Value (Approx.)				
+	-	Signal name	Input/ Output						
39 (W)	Ground	Rear bumper antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p>JMKIA0062GB</p>				
				When the trunk lid opener request switch is operated with ignition switch OFF	<p>JMKIA0063GB</p>				
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	<table border="1"> <tr> <td>OFF or ACC</td> <td>12 V</td> </tr> <tr> <td>ON</td> <td>0 V</td> </tr> </table>	OFF or ACC	12 V	ON	0 V
				OFF or ACC	12 V				
ON	0 V								
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	<table border="1"> <tr> <td>OFF (Trunk lid is closed)</td> <td> <p>JPMIA0011GB</p> </td> </tr> <tr> <td>ON (Trunk lid is opened)</td> <td>0 V</td> </tr> </table>	OFF (Trunk lid is closed)	<p>JPMIA0011GB</p>	ON (Trunk lid is opened)	0 V
				OFF (Trunk lid is closed)	<p>JPMIA0011GB</p>				
ON (Trunk lid is opened)	0 V								
52 (R)	Ground	Starter relay control	Output	Ignition switch ON	<table border="1"> <tr> <td>When selector lever is in P or N position</td> <td>12 V</td> </tr> <tr> <td>When selector lever is not in P or N position</td> <td>0 V</td> </tr> </table>	When selector lever is in P or N position	12 V	When selector lever is not in P or N position	0 V
				When selector lever is in P or N position	12 V				
When selector lever is not in P or N position	0 V								
60 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (push switch)	<table border="1"> <tr> <td>Pressed</td> <td>0 V</td> </tr> <tr> <td>Not pressed</td> <td>Battery voltage</td> </tr> </table>	Pressed	0 V	Not pressed	Battery voltage
				Pressed	0 V				
Not pressed	Battery voltage								
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid opener request switch	<table border="1"> <tr> <td>ON (Pressed)</td> <td>0 V</td> </tr> <tr> <td>OFF (Not pressed)</td> <td> <p>JPMIA0016GB</p> </td> </tr> </table>	ON (Pressed)	0 V	OFF (Not pressed)	<p>JPMIA0016GB</p>
				ON (Pressed)	0 V				
OFF (Not pressed)	<p>JPMIA0016GB</p>								
64 (G)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	<table border="1"> <tr> <td>Sounding</td> <td>0 V</td> </tr> <tr> <td>Not sounding</td> <td>12 V</td> </tr> </table>	Sounding	0 V	Not sounding	12 V
				Sounding	0 V				
Not sounding	12 V								

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
				Trunk lid opener switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
68 (BG)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
				Rear RH door switch	ON (When rear RH door opens)	0 V
69 (L)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
				Rear LH door switch	ON (When rear LH door opens)	0 V
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				Ignition switch OFF	When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p>JMKIA0063GB</p>
74 (SB)	Ground	Passenger door an- tenna (-)	Output	When the pas- senger door re- quest switch is operated with ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>
75 (BR)	Ground	Passenger door an- tenna (+)	Output	When the pas- senger door re- quest switch is operated with ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>

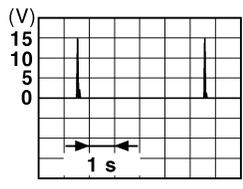
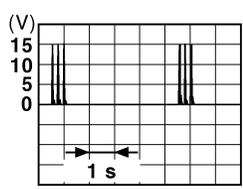
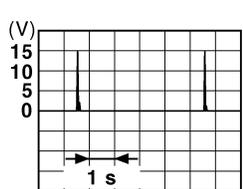
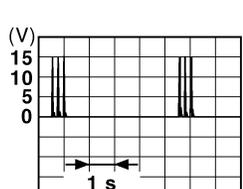
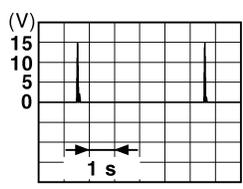
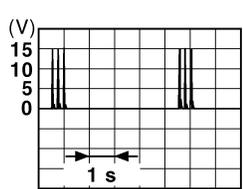
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

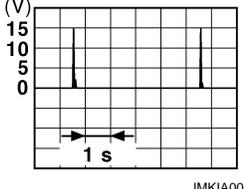
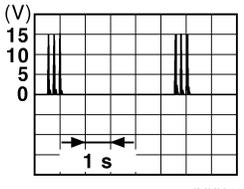
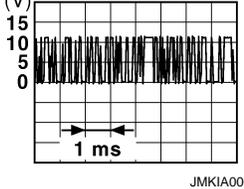
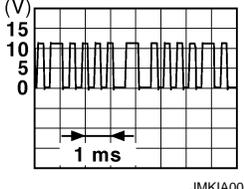
[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	
				When Intelligent Key is not in the antenna detection area		
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	
				When Intelligent Key is not in the antenna detection area		
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF		
				When Intelligent Key is not in the passenger compart- ment		
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
				ON		12 V
83 (Y)	Ground	Remote keyless entry receiver communica- tion	Input/ Output	During waiting		
				When operating either button on the Intelli- gent Key		

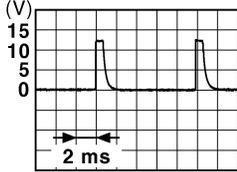
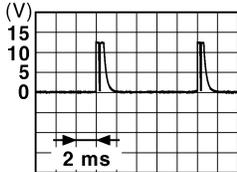
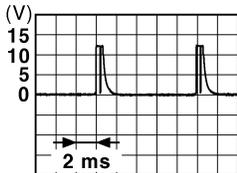
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BCM (BODY CONTROL MODULE)

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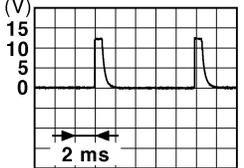
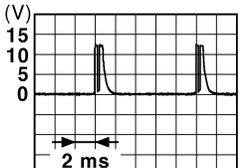
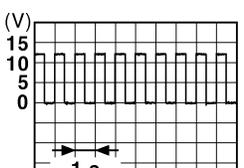
[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
87 (Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 <p style="text-align: right; font-size: small;">JPMA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Front fog lamp switch ON (Wiper volume dial 4)	 <p style="text-align: right; font-size: small;">JPMA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume dial 7 	 <p style="text-align: right; font-size: small;">JPMA0040GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
88 (BG)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch HI (Wiper volume dial 4)	 <small>JPMIA0036GB</small> 1.3 V
					Lighting switch 2ND (Wiper volume dial 4)	 <small>JPMIA0037GB</small> 1.3 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3	 <small>JPMIA0040GB</small> 1.3 V
90 (P)	Ground	CAN-L	Input/ Output	—	—	
91 (L)	Ground	CAN-H	Input/ Output	—	—	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	12 V
					Blinking	 <small>JPMIA0015GB</small> 6.5 V
				ON	0 V	
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V

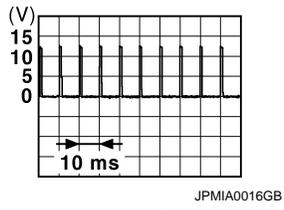
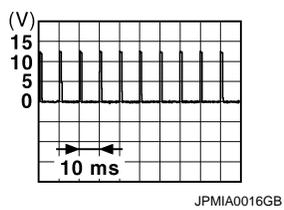
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BCM (BODY CONTROL MODULE)

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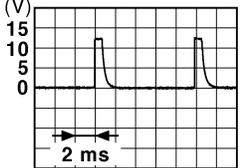
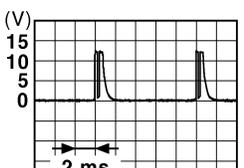
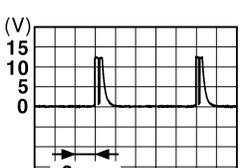
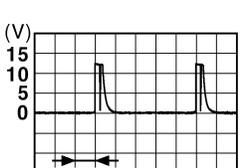
[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—		12 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	12 V
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <p style="text-align: center;">1.0 V</p>
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <p style="text-align: center;">1.0 V</p>
102 (BG)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		12 V

BCM (BODY CONTROL MODULE)

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[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	All switches OFF	 <p>1.4 V</p>
					Turn signal switch LH	 <p>1.3 V</p>
					Turn signal switch RH	 <p>1.3 V</p>
					Front wiper switch LO	 <p>1.3 V</p>
					Front washer switch ON	 <p>1.3 V</p>

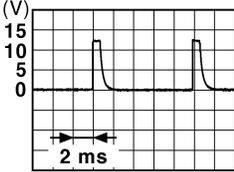
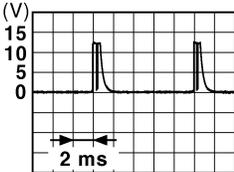
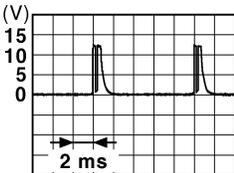
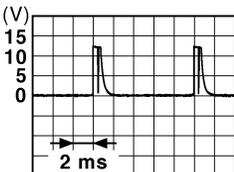
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BCM (BODY CONTROL MODULE)

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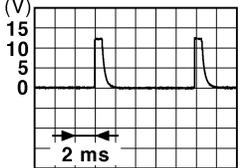
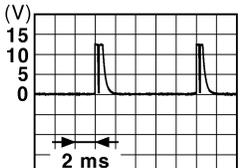
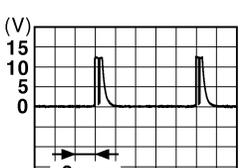
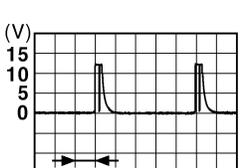
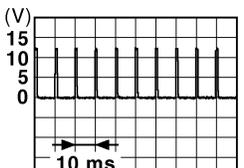
[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper volume dial 4) <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.4 V</p> </div>
				Lighting switch AUTO (Wiper volume dial 4)	Lighting switch AUTO (Wiper volume dial 4) <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.3 V</p> </div>
				Lighting switch 1ST (Wiper volume dial 4)	Lighting switch 1ST (Wiper volume dial 4) <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.3 V</p> </div>
				Any of the conditions below with all switches OFF	<ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6 <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.3 V</p> </div>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	All switches OFF	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch PASS	 <small>JPMIA0037GB</small> 1.3 V
					Lighting switch 2ND	 <small>JPMIA0036GB</small> 1.3 V
					Front wiper switch INT/ AUTO	 <small>JPMIA0038GB</small> 1.3 V
					Front wiper switch HI	 <small>JPMIA0040GB</small> 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	 <small>JPMIA0012GB</small> 1.1 V

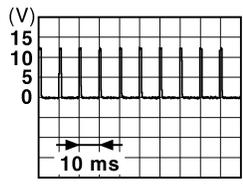
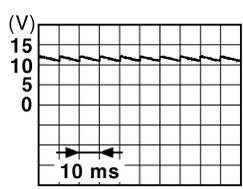
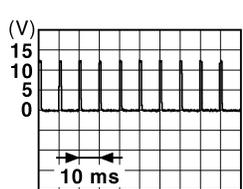
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BCM (BODY CONTROL MODULE)

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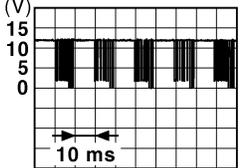
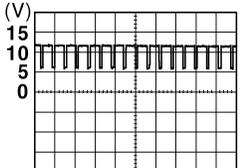
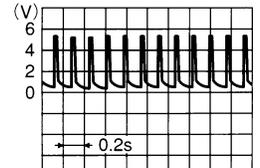
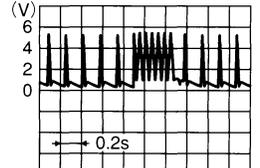
[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
113 (BG)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
116 (SB)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (BR)	Ground	Stop lamp switch 2 (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF	0 V	
				Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON	Battery voltage	
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (SB)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot	12 V	
				When the Intelligent Key is not inserted into key slot	0 V	
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 11.8 V
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 1.1 V
					ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON	 <small>JPMIA0013GB</small> 10.2 V
				Ignition switch OFF or ACC	12 V
133 (L)	Ground	Push-button ignition switch illumination	Output	ON (Tail lamps OFF)	9.5 V
				ON (Tail lamps ON)	<p>NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.</p>  <small>JPMIA0159GB</small>
				OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF
				ON	Battery voltage
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V
138 (V)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF
				ACC or ON	5.0 V
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	 <small>OCC3881D</small>
				When receiving the signal from the transmitter	 <small>OCC3880D</small>
140 (B)	Ground	Selector lever P/N position	Input	Selector lever	P or N position
				Except P and N positions	0 V

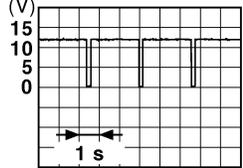
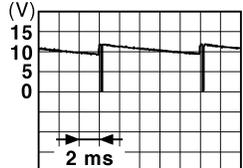
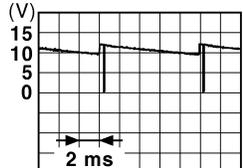
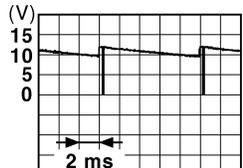
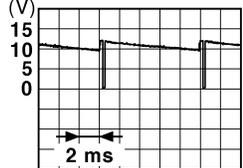
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< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
141 (W)	Ground	Security indicator lamp	Output	Security indicator lamp	ON	0 V
				Security indicator lamp	Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p>
						11.3 V
				OFF		12 V
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMIA0031GB</p>
					Lighting switch HI	
					Lighting switch 2ND	
	Turn signal switch RH					
						10.7 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0032GB</p>
					Any of the conditions below with all switches OFF	
					<ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 • Wiper volume dial 6 • Wiper volume dial 7 	
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0033GB</p>
					Any of the conditions below with all switches OFF	
					<ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6 	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Front wiper switch INT/AUTO	 <p style="text-align: right; font-size: small;">JPMIA0034GB</p>
					Front wiper switch LO	
					Lighting switch AUTO	10.7 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
146 (SB)	Ground	Combination switch OUTPUT 4	Output	All switches OFF	0 V	
				Front fog lamp switch ON		
				Lighting switch 2ND		
				Lighting switch PASS		
				Turn signal switch LH		10.7 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch		
				OFF (Door close)		11.8 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
				Not activated	Battery voltage	

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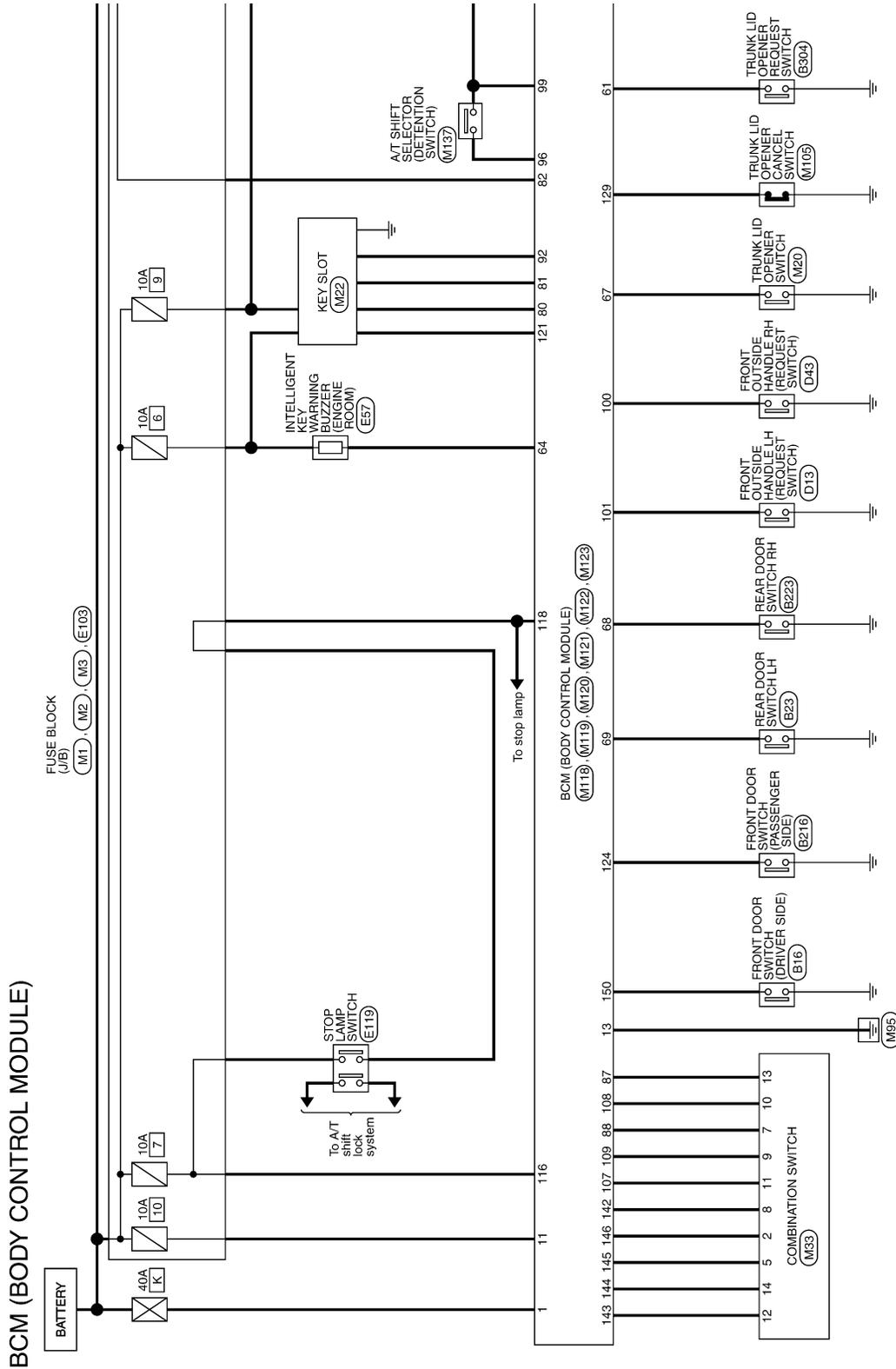
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Wiring Diagram - BCM -

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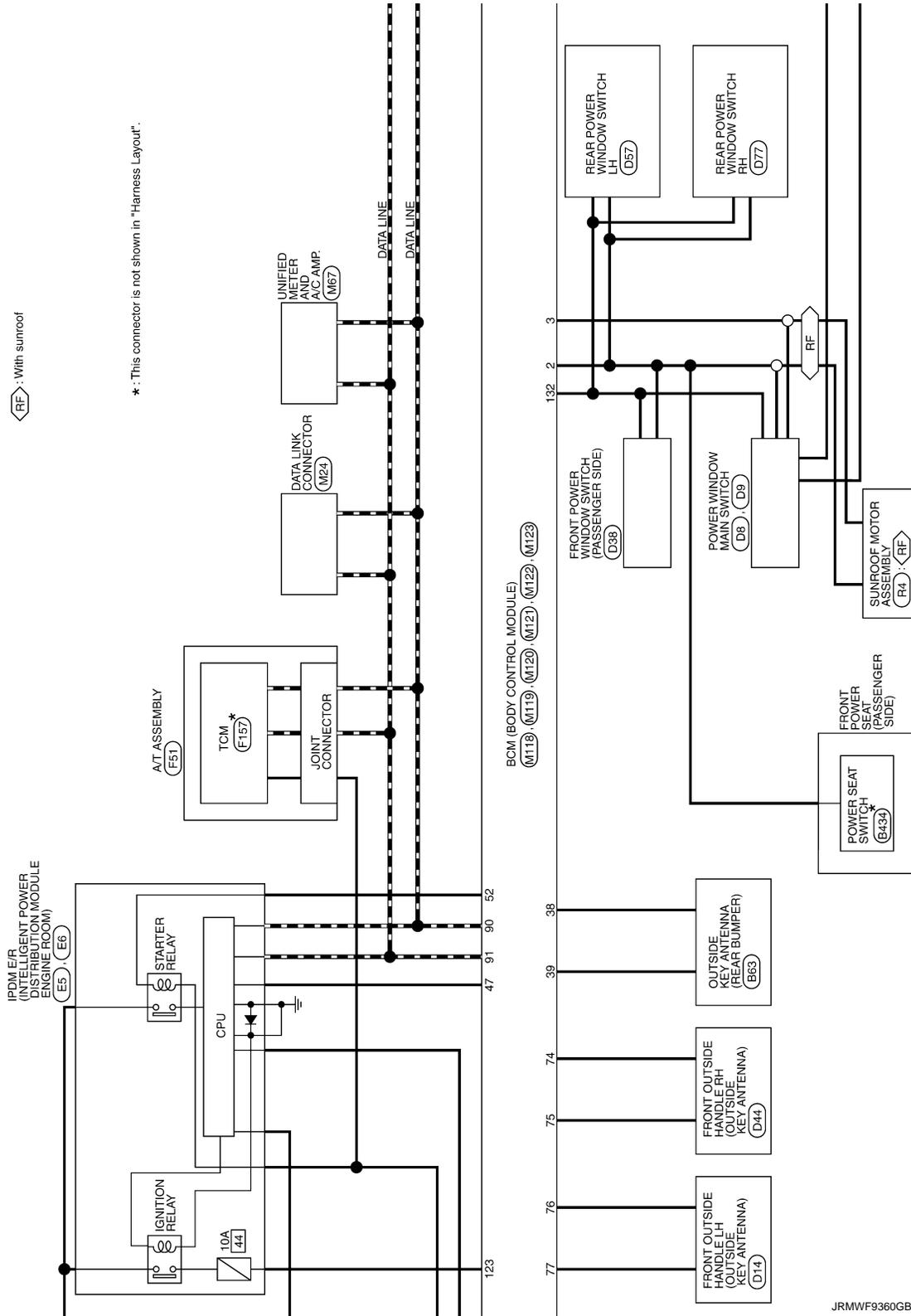
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

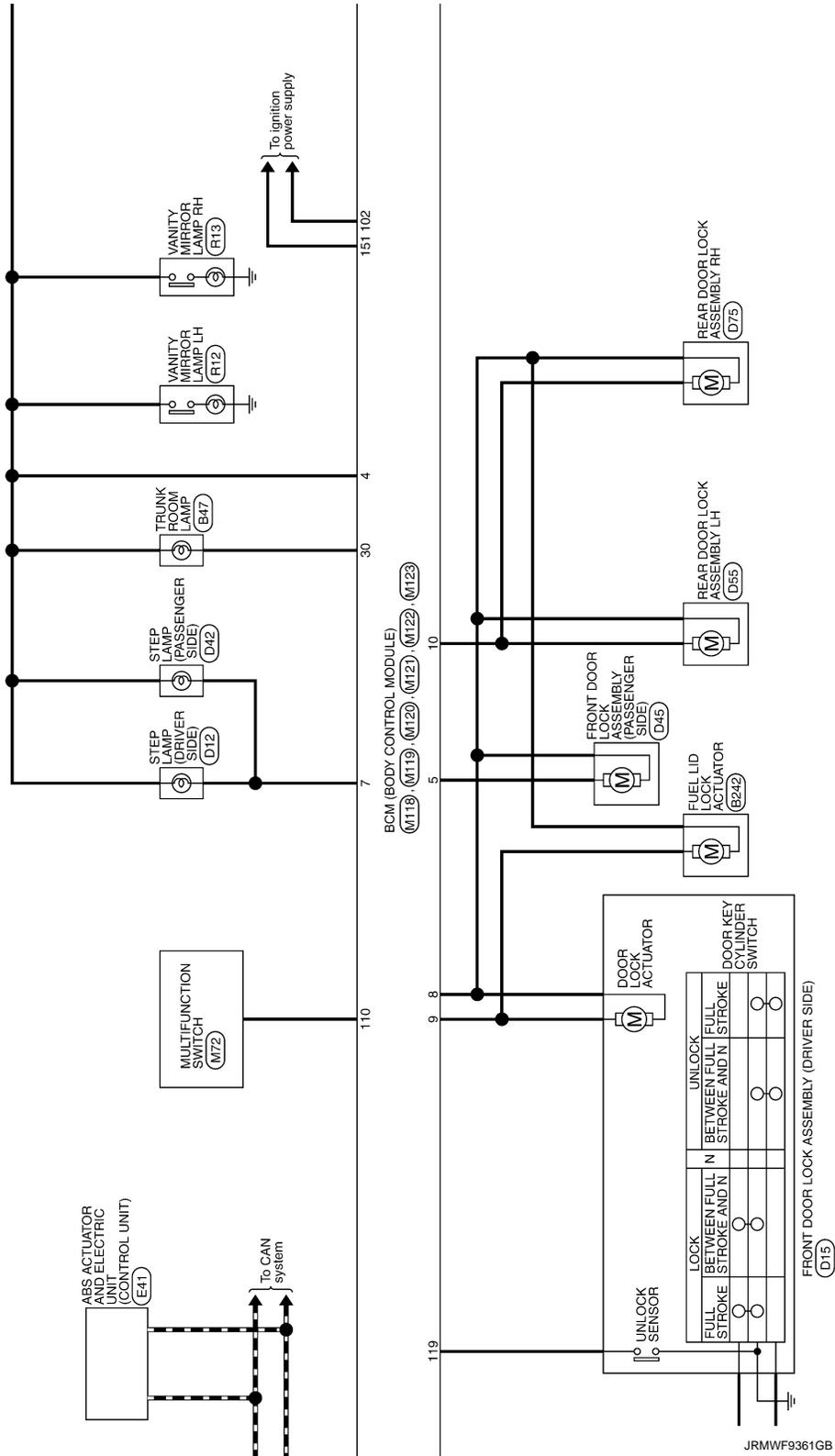


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]



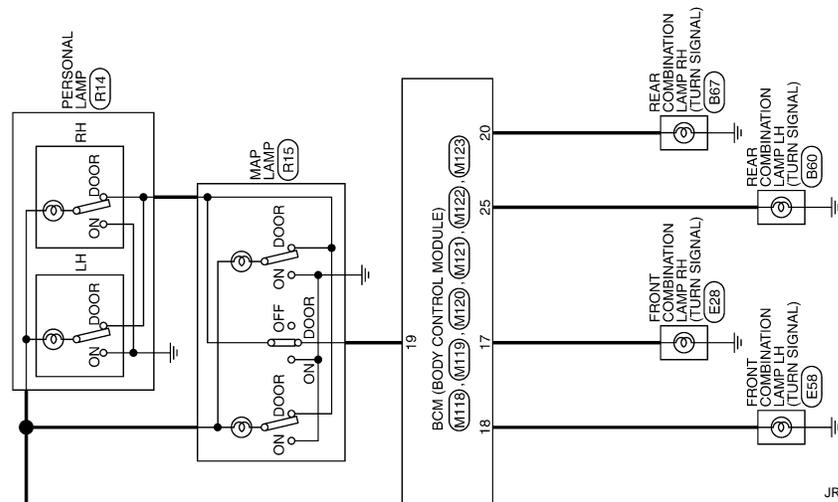
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

BCM (BODY CONTROL MODULE)

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-

Connector No.	B23
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B47
Connector Name	TRUNK ROOM LAMP
Connector Type	S02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B49
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	LG	-
3	SB	-
4	B	-

Connector No.	B83
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	FR02FGY



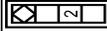
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	B87
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04FW-CS



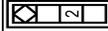
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	LG	-
3	V	-
4	B	-

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	MM0FW-LC



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

BCM (BODY CONTROL MODULE)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-

Connector No.	Connector Name	Connector Type
EB003	TRUNK LID LOCK ASSEMBLY	TB03FW



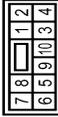
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-
3	G	-

Connector No.	Connector Name	Connector Type
EB004	TRUNK LID OPENER REQUEST SWITCH	TB02MR-P



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	Connector Name	Connector Type
BA44	POWER SEAT SWITCH	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G/Y	-
3	L/Y	-
4	B	-
5	G/W	-
6	SB	-
7	V	-
8	W	-
9	L/R	-
10	L	-

Connector No.	Connector Name	Connector Type
DB	POWER WINDOW MAIN SWITCH	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
4	V	-
6	L	-
8	L	-
9	RG	-
10	SB	-
11	G	-
13	P	-
14	V	-
15	B	-

Connector No.	Connector Name	Connector Type
D9	POWER WINDOW MAIN SWITCH	NS03FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
19	Y	-

Connector No.	Connector Name	Connector Type
D12	STEP LAMP (DRIVER SIDE)	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-

Connector No.	Connector Name	Connector Type
D13	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)	RK02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	Connector Name	Connector Type
D14	FRONT OUTSIDE HANDLE LH (OUTSIDE REARVIEW)	RK02MGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

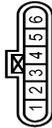
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

BCM (BODY CONTROL MODULE)

Connector No.	D35
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EDBFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	B	-
4	B	-
5	Y	-
6	V	-

Connector No.	D38
Connector Name	REAR POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
8	L	-
9	G	-
10	Y	-
11	B	-
12	P	-
15	BG	-
16	Y	-

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	SB	-

Connector No.	D43
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	D44
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	FR02MGY



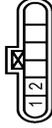
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

Connector No.	D45
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	EDBFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	LG	-

Connector No.	D55
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	EDBFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D57
Connector Name	REAR POWER WINDOW SWITCH-LH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
4	SB	-
8	W	-
9	L	-
10	W	-
11	B	-
12	GR	-
15	BG	-
16	Y	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

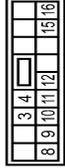
BCM (BODY CONTROL MODULE)

Connector No.	D75
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	EMBED-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-

Connector No.	D77
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
4	SB	-
8	W	-
9	L	-
10	W	-
11	B	-
12	GR	-
15	BG	-
16	Y	-

Connector No.	E5
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH03PW-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	-
5	SP	-
6	SP	-
7	P	-
12	B/W	-
13	Y	-
16	LG	-
19	R	-
25	G	-
27	BG	-
28	L	-
30	GR	-
36	G	-

Connector No.	E5
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH03PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/W	-
42	GR	-
43	G	-
44	LG	-
45	V	-

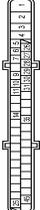
46	SB	-
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Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
3	B	-
4	B/W	-
5	R	-
6	V	-
7	BR	-
8	G	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC JET CONTROL UNIT
Connector Type	BAM42FB-AH24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	GR	UBMR
3	BG	DBVR
4	D	GRND
5	EG	DS FR
6	EG	DP FR
7	BR	DP FR
9	B	DP FR
10	W	DS FR
11	V	DIAG-K
14	P	CAN-L

29	V	BUS-L
30	LG	DS FL
21	GR	DC RL
22	G	DC RL
23	G	UZ
24	P	DS RR
25	SB	BLS
31	R	VDC OFF SW
35	L	CAN-H
45	B	BUS-H

Connector No.	E57
Connector Name	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)
Connector Type	RK03FB-R



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
3	LG	-

Connector No.	E58
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
3	B	-
4	B/W	-
5	V	-
6	GR	-
7	P	-
8	BG	-

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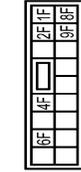
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

BCM (BODY CONTROL MODULE)

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
1F	SB	-
4F	G	-
6F	BR	-
8F	L	-
9F	P	-

Connector No.	E109
Connector Name	ASC0 BRAKE SWITCH
Connector Type	IS02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-

Connector No.	E119
Connector Name	STOP LAMP SWITCH
Connector Type	MR0FL-C



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	Y	-
4	Y	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DQY



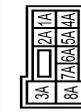
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	L	-
4	V	-
5	B	-
6	G	-
7	R	-
8	P	-
9	GR	-
10	B	-

Connector No.	E157
Connector Name	TCM
Connector Type	SP10EG



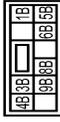
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	VIGN
2	SHIELD	IGN
3	SHIELD	IGN
4	SHIELD	IGN
5	SHIELD	GROUND
6	SHIELD	VIGN
7	SHIELD	REV LAMP RLY
8	SHIELD	CAN-L
9	SHIELD	STARTER RLY
10	SHIELD	GROUND

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



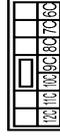
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	Y	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	SB	-
3B	G	-
4B	Y	-
5B	RG	-
6B	Y	-
8B	R	-
9B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	G	-
6C	SB	-
7C	B	-
8C	W	-
9C	BG	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

BCM (BODY CONTROL MODULE)

Connector No.	M19
Connector Name	DIODE
Connector Type	24335.C0900



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

Connector No.	M20
Connector Name	TRUNK LID OPERIER SWITCH
Connector Type	T045FW



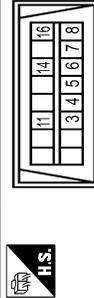
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GB	-
2	GR	-
3	LG	-
4	R	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BAT
2	GR	GGCK
3	W	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GROUND
11	SB	KEY SWITCH SIGNAL

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW-P



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	V	-
8	SS	-
14	P	-
16	R	-

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



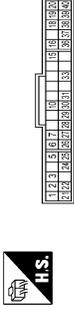
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	FR WASHER (-)
2	SB	OUTPUT 3
5	B	GROUND
6	B	INPUT 3
7	EG	OUTPUT 5
8	BR	INPUT 2
9	W	INPUT 4
10	R	INPUT 1
11	LG	INPUT 5
12	P	OUTPUT 1
13	Y	INPUT 5
14	G	OUTPUT 2

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08BER



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	I	-
4	BR	-
5	LG	-
6	EG	-
7	GR	-
8	P	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER-AMP)
3	GR	COMMUNICATION SIGNAL (AMP-METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	LG	AIR BAG SIGNAL
10	W	SECURITY SIGNAL
15	B	GROUND
16	BR	METER CONTROL SWITCH GROUND
18	GR	ILL GND
19	B	ILL GND
20	R	ILL
21	G	IGNITION SIGNAL
22	B	GROUND
24	BR	COMMUNICATION SIGNAL (GPS-IMP)
25	GR	COMMUNICATION SIGNAL (AMP-LED)
26	R	VEHICLE SPEED SIGNAL (E-PHLS SE)
27	P	PARKING BRAKE SWITCH SIGNAL
28	SB	BRAKE FLUID LEVEL SWITCH
29	P	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	R	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	Y	ENTER SWITCH SIGNAL
38	G	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	EG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

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BCM (BODY CONTROL MODULE)

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[FRONT & REAR WINDOW ANTI-PINCH]

BCM (BODY CONTROL MODULE)

Connector No.	M67
Connector Name	UNIFIED METER AND A.C. AMP.
Connector Type	TH82FPV-4H



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	A/C POWER SUPPLY
42	BR	FUEL LEVEL SENSOR SIGNAL
43	BR	REAR WHEEL SPEED SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	Y	AMBIENT SENSOR SIGNAL
46	Y	SUNLOAD SENSOR SIGNAL
53	W	IGNITION POWER SUPPLY
54	SB	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	LG	BRAKE FLUID LEVEL SWITCH
58	Y	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	W	IN-VEHICLE SENSOR GROUND
61	B	AMBIENT SENSOR GROUND
62	B	SUNLOAD SENSOR GROUND
66	P	A/C CLAR SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	GR	GROUND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FPV-4H



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	B	ACC
3	EG	ILL CONT
5	B	ILL CONT
6	SB	AV COMM (H)
8	LG	AV COMM (L)
9	BR	SW GND
14	V	DISK EJECT SIGNAL
16	G	HAZARD ON

Connector No.	M84
Connector Name	OPTICAL SENSOR
Connector Type	TK63FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	EG	OUTPUT
3	B	GROUND

Connector No.	M101
Connector Name	TIRE PRESSURE RECEIVER
Connector Type	TK64FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	GROUND
2	L	SIGNAL
4	V	BATTERY

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	EG	GROUND
2	Y	SIGNAL OUTPUT
4	P	BATTERY

Connector No.	M105
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Type	S02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	EG	—
2	B	—

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MD3FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT.(E/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

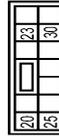
BCM (BODY CONTROL MODULE)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
4	G	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
6	B	STEERING LAMP CONT
7	SB	ALL DOOR FUEL LID LOCK OUTPUT
8	V	DRIVER DOOR FUEL LID UNLOCK OUTPUT
9	P	REAR DOOR UNLOCK OUTPUT
10	G	BAT (FUSE)
11	R	GROUND
13	B	ACC IND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	BG	TURN SIGNAL RH (FRONT)
17	W	TURN SIGNAL LH (FRONT)
18	BG	INT ROOM LAMP CONT
19	V	

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
20	Y	TURN SIGNAL RH (REAR)
23	LG	TRUNK LID OPEN OUTPUT
25	Y	TURN SIGNAL LH (REAR)
30	P	TRUNK ROOM LAMP CONT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
34	SB	TRUNK ROOM ANT-
35	SB	TRUNK ROOM ANT+
36	B	REAR BUMPER ANT-
37	W	REAR BUMPER ANT+
47	Y	IGN RELAY (IPDM E/R) CONT
50	BG	TRUNK ROOM LAMP SW
52	R	STARTER RELAY CONT
60	BR	PUSH SW
61	SB	TRUNK LID OPENER REQUEST SW
64	G	1-KEY WARN BLIZZER (ENG ROOM)
67	GR	TRUNK LID OPENER SW
68	BG	REAR RH DOOR SW
69	L	REAR LH DOOR SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
32	Y	ROOM ANT 2-
33	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-

Terminal No.	Color Of Wire	Signal Name [Specification]
79	BR	ROOM ANT 1+
80	GR	MISC ANT LAMP
81	W	MISC ANT AMP
82	SB	IGN RELAY (E) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 1
90	P	COMBI SW INPUT 3
91	L	CAN-L
92	LG	KEY SLOT ILL CONT
93	GR	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	Y	PASSENGER DOOR REQUEST SW
101	B	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	P	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
113	BG	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	Y	KEYLESS SW
124	R	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	V	POWER WINDOW SW COMM
133	L	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND

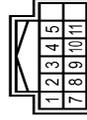
Terminal No.	Color Of Wire	Signal Name [Specification]
138	V	RECEIVER / SENSOR POWER SUPPLY
140	L	TIME PRESSURE RECEIVER COMM
140	B	SECURITY ILL SW
141	W	SECURITY ILL LAMP CONT
142	BR	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M131
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	PRO2FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	Y	

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	V	
3	L	
4	B	
5	G	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

A
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BCM (BODY CONTROL MODULE)

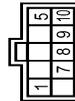
7	V	
8	G	
10	GR	
11	R	

Connector No.	M146
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



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

Connector No.	R4
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEA1BEGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	SW-BIT 1
5	P	SW-BIT -
7	BR	IB
8	V	SPEED SENSOR (2P)
10	G	THICK (30V) GROUND

Connector No.	RI2
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MC40EWF



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	
2	R	

Connector No.	RI3
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MC40EWF



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	
2	R	

Connector No.	RI4
Connector Name	PERSONAL LAMP
Connector Type	TR04EWF-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	
2	B	
3	V	

Connector No.	RI5
Connector Name	MAP LAMP
Connector Type	TK06FCY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	
2	V	
3	Y	
4	B	
5	SHIELD	
6	B	

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

JRMWF9513GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (12 V) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

DTC Inspection Priority Chart

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM • U1010: CONTROL UNIT(CAN)
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI-SCANNING

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Priority	DTC	
4	• B2553: IGNITION RELAY	A
	• B2555: STOP LAMP	
	• B2556: PUSH-BTN IGN SW	B
	• B2557: VEHICLE SPEED	
	• B2560: STARTER CONT RELAY	C
	• B2601: SHIFT POSITION	
	• B2602: SHIFT POSITION	D
	• B2603: SHIFT POSI STATUS	
	• B2604: PNP/CLUTCH SW	E
	• B2605: PNP/CLUTCH SW	
	• B2608: STARTER RELAY	F
	• B260A: IGNITION RELAY	
	• B260F: ENG STATE SIG LOST	G
	• B2614: BCM	
	• B2615: BCM	
	• B2616: BCM	
	• B2617: BCM	
	• B2618: BCM	
	• B261A: PUSH-BTN IGN SW	
	• B261E: VEHICLE TYPE	
• B26EA: KEY REGISTRATION		
• C1729: VHCL SPEED SIG ERR		
• U0415: VEHICLE SPEED		
5	• C1704: LOW PRESSURE FL	H
	• C1705: LOW PRESSURE FR	
	• C1706: LOW PRESSURE RR	I
	• C1707: LOW PRESSURE RL	
	• C1708: [NO DATA] FL	J
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	
	• C1716: [PRESSDATA ERR] FL	
	• C1717: [PRESSDATA ERR] FR	
	• C1718: [PRESSDATA ERR] RR	
	• C1719: [PRESSDATA ERR] RL	
	• C1734: CONTROL UNIT	
6	• B2621: INSIDE ANTENNA	PWC
	• B2622: INSIDE ANTENNA	
	• B2623: INSIDE ANTENNA	

DTC Index

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NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [PWC-11. "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	BCS-36
U1010: CONTROL UNIT(CAN)	—	—	—	—	BCS-37
U0415: VEHICLE SPEED	—	—	—	—	BCS-38
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-43

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-46
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-47
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-49
B2195: ANTI-SCANNING	×	—	—	—	SEC-50
B2553: IGNITION RELAY	—	×	—	—	PCS-49
B2555: STOP LAMP	—	×	—	—	SEC-51
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-53
B2557: VEHICLE SPEED	×	×	×	—	SEC-55
B2560: STARTER CONT RELAY	×	×	×	—	SEC-56
B2562: LOW VOLTAGE	—	×	—	—	BCS-39
B2601: SHIFT POSITION	×	×	×	—	SEC-57
B2602: SHIFT POSITION	×	×	×	—	SEC-60
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-63
B2604: PNP/CLUTCH SW	×	×	×	—	SEC-66
B2605: PNP/CLUTCH SW	×	×	×	—	SEC-68
B2608: STARTER RELAY	×	×	×	—	SEC-70
B260A: IGNITION RELAY	×	×	×	—	PCS-51
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-72
B2614: BCM	—	×	×	—	PCS-53
B2615: BCM	—	×	×	—	PCS-55
B2616: BCM	—	×	×	—	PCS-57
B2617: BCM	×	×	×	—	SEC-74
B2618: BCM	×	×	×	—	PCS-59
B261A: PUSH-BTN IGN SW	—	×	×	—	PCS-60
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-76
B2621: INSIDE ANTENNA	—	×	—	—	DLK-59
B2622: INSIDE ANTENNA	—	×	—	—	DLK-61
B2623: INSIDE ANTENNA	—	×	—	—	DLK-63
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-73
C1704: LOW PRESSURE FL	—	—	—	×	WT-25
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-27
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-30
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-31
C1734: CONTROL UNIT	—	—	—	×	WT-32

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PWC

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

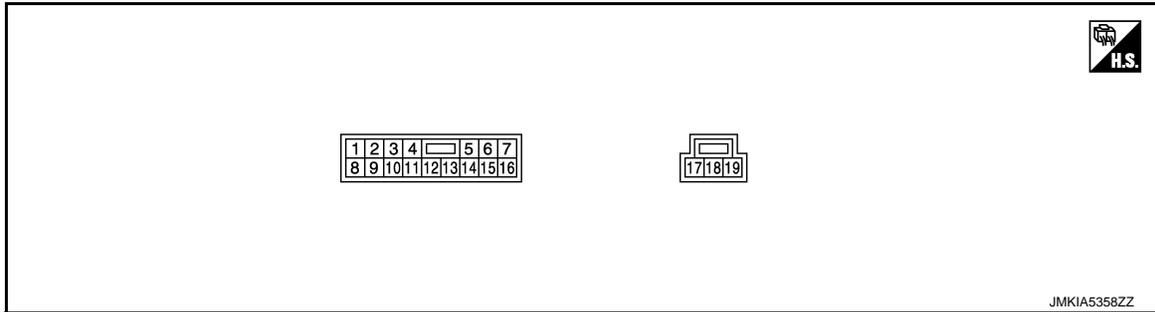
[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW MAIN SWITCH

Reference Value

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TERMINAL LAYOUT



PHYSICAL VALUES

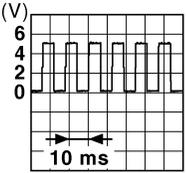
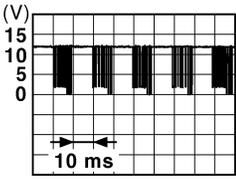
Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output		
2 (LG)	Ground	Encoder ground	—	—	0
4 (V)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral → Locked)	5 → 0
6 (Y)	Ground	Door key cylinder switch UNLOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0
8 (L)	Ground	Front driver side power win- dow motor UP signal	Output	When front LH switch in power window main switch is UP at operated.	12
9 (BG)	Ground	Encoder pulse signal 2	Input	When power window mo- tor operates.	
10 (SB)	Ground	Rap signal	Input	Ignition switch ON	12
				Within 45 second after ig- nition switch is turned to OFF	12
				When driver side or pas- senger side door is opened during retained power operation	0
11 (G)	Ground	Front driver side power win- dow motor DOWN signal	Output	When front LH switch in power window main switch is DOWN at operated.	12

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output		
13 (P)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	
14 (V)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating.	
15 (B)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	12
17 (B)	Ground	Ground	—	—	0
19 (Y)	Ground	Battery power supply	Input	—	12

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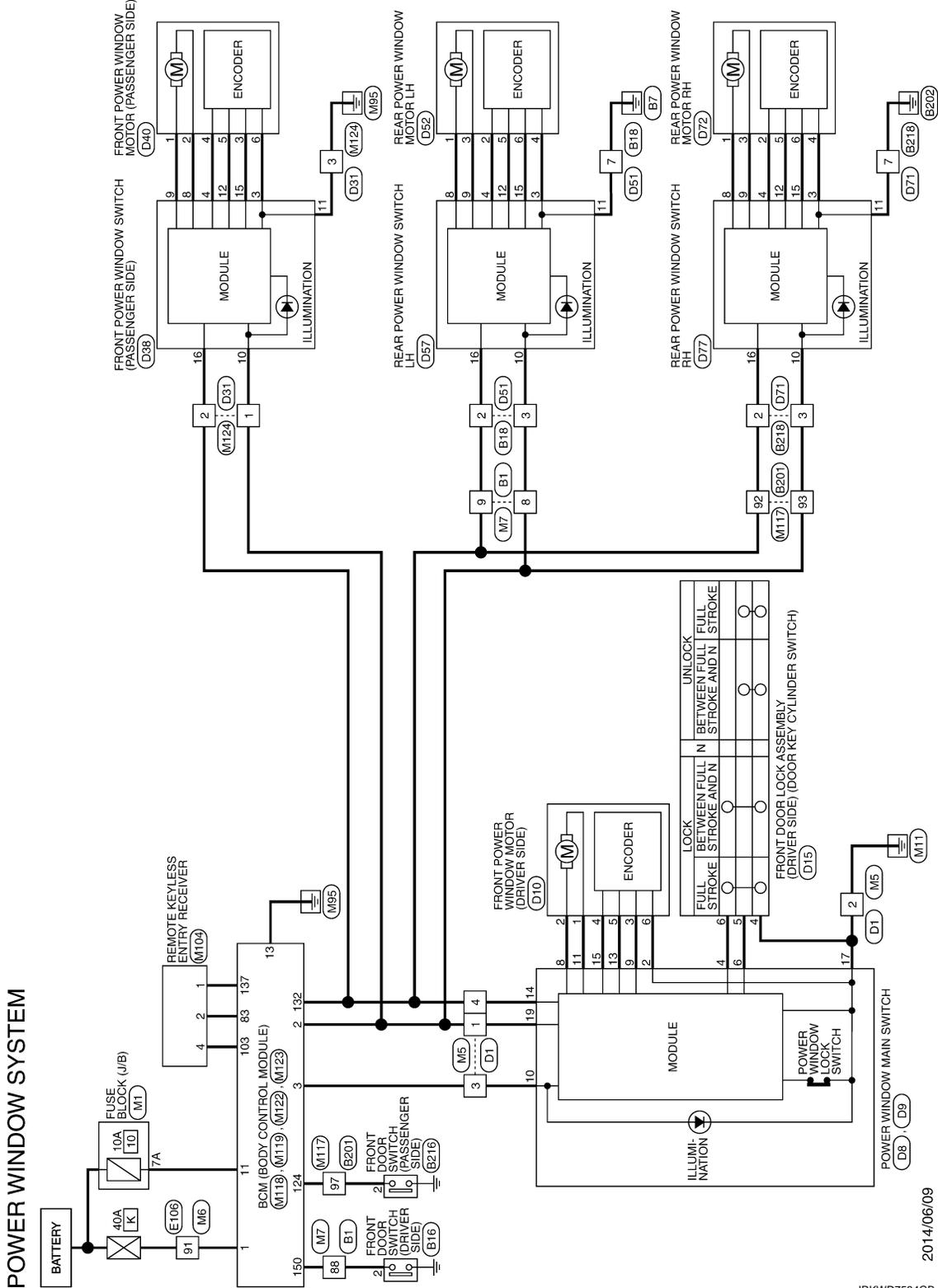
POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

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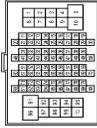
POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

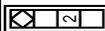
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	
2	BG	
3	V	
4	Y	
6	R	
8	W	
9	LG	
24	V	
25	SB	
26	G	
27	W	
28	R	
31	V	
32	SB	
33	SHIELD	
34	R	
35	BR	
36	Y	
37	SHIELD	
38	Y	
39	SB	
40	P	
41	L	
42	SHIELD	
43	R	
44	G	
45	SHIELD	
46	SB	
48	BR	
56	V	
58	Y	
59	SB	
71	BG	
72	GR	
73	P	

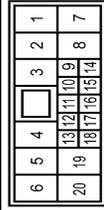
74	L	--
75	L	--
81	S	--
82	Y	--
84	G	--
85	G	--
86	W	--
87	R	--
88	BR	--
89	Y	--
90	SB	--
92	BR	--
93	P	--
95	BG	--

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	AG8W



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	

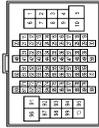
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	
3	W	
5	P	

6	BR	--
8	B	--
16	L	--
19	SB	--
20	P	--
20	Y	--

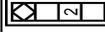
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
6	L	
7	V	
31	L	
32	P	
33	G	
34	R	
40	GR	
41	LG	
42	BG	
43	R	
45	G	
46	SHIELD	
47	G	
48	Y	
49	SHIELD	
50	W	
71	R	
80	BG	
81	SHIELD	
82	G	
83	P	
84	L	
85	SHIELD	
86	G	
87	R	
88	W	

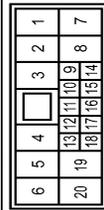
89	B	--
90	V	--
92	W	--
93	BG	--
94	R	--
95	SB	--
96	G	--
97	GR	--
98	BR	--
99	P	--
100	L	--

Connector No.	B218
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	AG3PW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	
3	BG	
5	G	
6	V	

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PWC

POWER WINDOW MAIN SWITCH

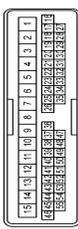
< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

7	B	-
10	P	-
20	P	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-
3	SB	-
4	V	-
8	L	-
9	P	-
10	LG	-
12	GR	- [With BOSE system]
12	L	- [Without BOSE system]
13	V	-
14	G	-
15	R	-
25	R	-
26	V	-
33	B	-
42	G	-
43	GR	-
44	BG	-
47	V	-
48	R	-
49	SB	-
50	W	-
51	L	-
52	V	-
54	G	-
55	R	-
55	SHIELD	-

Connector No.	DB
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
4	Y	-
6	B	-
8	L	-
9	BG	-
10	SB	-
11	G	-
13	P	-
14	V	-
15	B	-

Connector No.	DD
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS33FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
19	Y	-

Connector No.	D10
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	NS26FW-CS



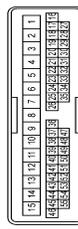
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	BG	-
4	B	-
5	P	-
6	LG	-

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED06FY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	B	-
5	Y	-
6	V	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	V	-
3	B	-
7	LG	-
8	P	-
10	L	-
11	W	-
12	G	-
13	R	-
24	R	-
25	G	-
26	SHIELD	-
42	L	-
47	R	-
48	SB	-
50	P	-
52	V	-
52	GR	-
53	BG	-
54	G	-

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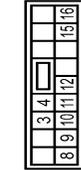
POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



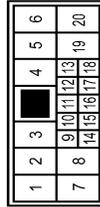
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	G	-
4	V	-
5	Y	-
6	B	-
7	L	-
8	G	-
9	LG	-
10	P	-
11	B	-
12	P	-
13	B	-
14	B	-
15	BG	-
16	V	-

Connector No.	D40
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	BG	-
4	B	-
5	B	-
6	LG	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH1DMV-CS10



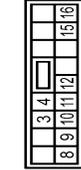
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	G	-
4	V	-
5	V	-
6	V	-
7	B	-
8	B	-
9	L	-
10	L	-
11	B	-
12	GR	-
13	GR	-
14	GR	-
15	P	-
16	P	-
17	P	-
18	P	-
19	LG	-
20	P	-
21	Y	-
22	Y	-

Connector No.	D52
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	RS9BFG



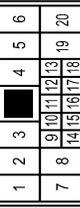
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-
3	SB	-
4	L	-
5	GR	-
6	GR	-
7	B	-
8	BR	-

Connector No.	D57
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	SB	-
4	W	-
5	Y	-
6	Y	-
7	W	-
8	W	-
9	W	-
10	W	-
11	B	-
12	GR	-
13	GR	-
14	GR	-
15	BG	-
16	Y	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH1DMV-CS10



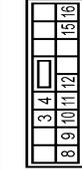
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	W	-
4	W	-
5	P	-
6	LG	-
7	B	-
8	B	-
9	P	-
10	P	-
11	P	-
12	P	-
13	P	-
14	P	-
15	P	-
16	P	-
17	P	-
18	P	-
19	P	-
20	P	-

Connector No.	D72
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	RS9BFG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-
3	SB	-
4	BR	-
5	GR	-
6	BG	-

Connector No.	D77
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	BR	-
4	SB	-
5	W	-
6	W	-
7	L	-
8	L	-
9	L	-
10	W	-
11	B	-
12	GR	-
13	GR	-
14	BG	-
15	BG	-
16	Y	-

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	GR	-
3	GR	-
4	Y	-
5	Y	-
6	Y	-
7	V	-
8	R	-
9	R	-
10	V	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
18	BG	-
19	LG	-
20	LG	-
21	BG	-
22	BG	-
23	SB	-
24	Y	-
25	R	-
26	R	-
27	B	-
28	LG	-
29	G	-
30	GR	-
31	BR	-
32	LG	-
33	V	-
34	L	-
35	L	-
36	GR	-
37	Y	-
38	R	-
39	B	-
40	R	-
41	R	-
42	LG	-
43	G	-
44	GR	-
45	BR	-
46	LG	-
47	V	-
48	L	-
49	L	-
50	GR	-
51	LG	-
52	LG	-
53	G	-
54	GR	-
55	BR	-
56	BR	-
57	BR	-
58	BR	-
59	BR	-
60	BR	-
61	BR	-
62	BR	-
63	BR	-
64	BR	-
65	BR	-
66	BR	-
67	BR	-
68	BR	-
69	BR	-
70	BR	-
71	BR	-
72	BR	-
73	BR	-
74	BR	-
75	BR	-
76	BR	-
77	BR	-
78	BR	-
79	BR	-
80	R	-
81	P	-
82	G	-
83	V	-

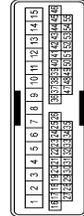
84	L	-
85	W	-
86	V	-
87	W	-
88	GR	-
89	LG	-
90	SB	-
91	SHIELD	-
92	L	-
93	P	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-
99	-	-
100	-	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSB5FH-W2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	-	-
3A	-	-
4A	L	-
5A	L	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



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

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	-	-
3	R	-
4	G	-
5	G	-
6	LG	-
7	W	-
8	G	-
9	G	-
10	V	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	BR	-
18	P	-
19	L	-
20	L	-
21	L	-
22	Y	-
23	Y	-
24	Y	-
25	Y	-
26	Y	-
27	Y	-
28	Y	-
29	Y	-
30	Y	-
31	Y	-
32	Y	-
33	Y	-
34	Y	-
35	Y	-
36	Y	-
37	Y	-
38	R	-
39	SB	-
40	P	-
41	V	-
42	LG	-
43	P	-
44	B	-
45	BG	-
46	G	-
47	L	-
48	L	-
49	L	-
50	L	-
51	L	-
52	L	-
53	L	-
54	L	-
55	L	-
56	L	-
57	L	-
58	L	-
59	L	-
60	L	-
61	L	-
62	L	-
63	L	-
64	L	-
65	L	-
66	L	-
67	L	-
68	L	-
69	L	-
70	L	-
71	L	-
72	L	-
73	L	-
74	L	-
75	L	-
76	L	-
77	L	-
78	L	-
79	L	-
80	SB	-
81	B	-
82	V	-
83	W	-

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

84	LG	-
85	GR	-
86	G	-
87	W	-
88	W	-
89	W	-
90	Y	-
91	GR	-
92	SHIELD	-
93	V	-
94	SB	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	T1808MW-CS16-TM4



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	LG	-
3	SB	-
4	SB	-
5	SB	-
6	SB	-
7	SB	-
8	SB	-
9	SB	-
10	SB	-
11	SB	-
12	SB	-
13	SB	-
14	SB	-
15	SB	-
16	SB	-
17	SB	-
18	SB	-
19	SB	-
20	SB	-
21	SB	-
22	SB	-
23	SB	-
24	SB	-
25	SB	-
26	SB	-
27	SB	-
28	SB	-
29	SB	-
30	SB	-
31	SB	-
32	SB	-
33	SB	-
34	SB	-
35	SB	-
36	SB	-
37	SB	-
38	SB	-
39	SB	-
40	SB	-
41	SB	-
42	SB	-
43	R	-
44	R	-
45	G	-
46	SHIELD	-
47	P	-
48	L	-
49	SHIELD	-
50	V	-
51	R	-
52	R	-
53	R	-
54	R	-
55	R	-
56	R	-
57	R	-
58	R	-
59	R	-
60	R	-
61	R	-
62	R	-
63	R	-
64	R	-
65	R	-
66	R	-
67	R	-
68	R	-
69	R	-
70	R	-
71	R	-
72	R	-
73	R	-
74	R	-
75	R	-
76	R	-
77	R	-
78	R	-
79	R	-
80	R	-
81	R	-
82	R	-
83	R	-
84	R	-
85	R	-
86	R	-
87	R	-
88	R	-
89	R	-
90	R	-
91	R	-
92	R	-
93	R	-
94	R	-
95	R	-
96	R	-

Connector No.	MTD4
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	J4804F5



Terminal No.	Color Of Wire	Signal Name [Specification]
1	EG	GROUND
2	Y	SIGNAL OUTPUT
4	P	BATTERY

97	R	-
98	EG	-
99	P	-
100	L	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	EG	POWER WINDOW POWER SUPPLY (BAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP CONT
8	V	ALL DOOR FUEL ID LOCK OUTPUT
9	G	DRIVER DOOR UNLOCK OUTPUT
10	P	REAR DOOR UNLOCK OUTPUT
11	R	BAT (ELSES)
12	B	GROUND
13	B	GROUND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	EG	ACC. IND
16	W	ACC. IND
17	W	TURN SIGNAL RH (FRONT)

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POWER WINDOW MAIN SWITCH

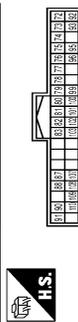
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[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

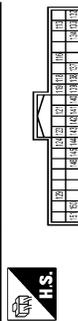
18	BG	TURN SIGNAL LAMP (FRONT)
19	Y	INT ROOM LAMP CONT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



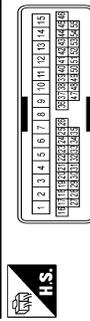
Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	ROOM ANT AMP
81	W	NAVS ANT AMP
82	SB	IGN RELAY
83	Y	KEYLESS ENTRY RECEIVER COMM
84	W	COMBI SW INPUT 1
85	Y	COMBI SW INPUT 2
86	BG	COMBI SW INPUT 3
87	W	CAN-L
88	BG	CAN-H
89	L	KEY SLOT ILL CONT
90	L	KEY SLOT ILL CONT
91	LG	ON/IND
92	GR	ACC RELAY CONT
93	GR	A/T SHIFT SELECTOR POWER SUPPLY
94	R	SHIFT P
95	R	PASSENGER DOOR REQUEST SW
96	Y	DRIVER DOOR REQUEST SW
97	P	BLOWER FAN MOTOR RELAY CONT
98	BG	KEYLESS ENTRY RECEIVER COMM
99	LG	COMBI SW INPUT 1
100	LG	COMBI SW INPUT 2
101	R	COMBI SW INPUT 3
102	W	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
118	BG	OPTICAL SENSOR
119	BR	STOP LAMP SW 2
120	BR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
122	V	IGN F/B
123	R	PASSENGER DOOR SW
124	R	TRUNK LID OPERATOR CANCEL SW
125	BG	POWER WINDOW SW COMM
126	V	PUSH-BUTTON IGNITION SW ILL POWER
127	L	LOCK IND
128	LG	RECEIVER / SENSOR GND
129	BG	RECEIVER / SENSOR POWER SUPPLY
130	V	TIRE PRESSURE RECEIVER COMM
131	W	SECURITY LAMP CONT
132	W	COMBI SW OUTPUT 1
133	BR	COMBI SW OUTPUT 2
134	P	COMBI SW OUTPUT 3
135	G	COMBI SW OUTPUT 4
136	L	COMBI SW OUTPUT 5
137	SB	COMBI SW OUTPUT 6
138	L	DRIVER DOOR SW
139	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MM-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	GR	-
4	W	-
5	V	-
6	P	-
7	V	-
8	P	-
9	BR	-
10	BR	-
11	R	-
12	G	-
13	R	-
14	R	-
15	R	-
16	G	-
17	G	-
18	SHIELD	-
19	BG	-
20	BG	-
21	LG	-
22	V	-
23	V	-
24	EP	-
25	SB	-
26	L	-
27	L	-
28	L	-
29	Y	-
30	Y	-

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.

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INFOID:000000010988903

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

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 malfunction	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
- Door key cylinder switch power window 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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FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

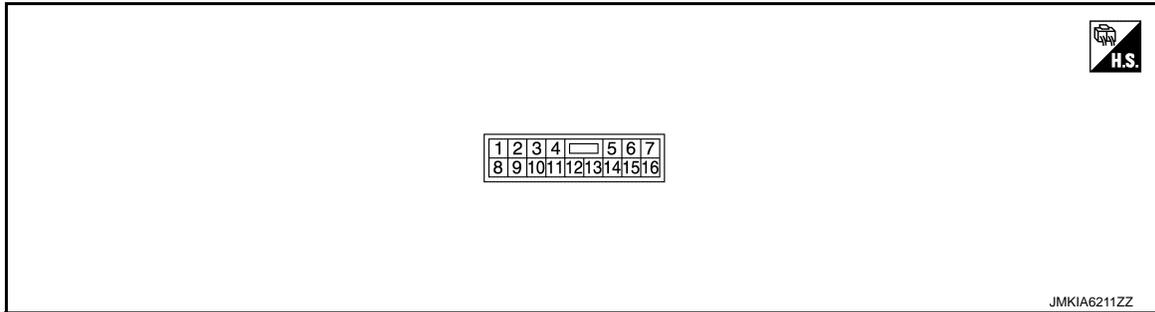
[FRONT & REAR WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH

Reference Value

INFOID:000000010988904

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output		
3 (LG)	Ground	Encoder ground	—	—	0
4 (B)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	12
8 (L)	Ground	Power window motor DOWN signal	Output	When power window motor is DOWN at operated.	12
9 (G)	Ground	Power window motor UP signal	Output	When power window motor is UP at operated.	12
10 (Y)	Ground	Battery power supply	Input	—	12
11 (B)	Ground	Ground	—	—	0
12 (P)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	
15 (BG)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	
16 (V)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating.	

FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

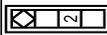
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BG	-
3	Y	-
4	W	-
5	R	-
6	W	-
7	LG	-
8	V	-
9	SB	-
10	SB	-
11	G	-
12	W	-
13	R	-
14	V	-
15	SB	-
16	SHIELD	-
17	GR	-
18	BR	-
19	Y	-
20	SHIELD	-
21	SB	-
22	V	-
23	SB	-
24	LG	-
25	SB	-
26	G	-
27	W	-
28	R	-
29	R	-
30	V	-
31	SB	-
32	SHIELD	-
33	SHIELD	-
34	GR	-
35	BR	-
36	Y	-
37	SHIELD	-
38	Y	-
39	SB	-
40	P	-
41	L	-
42	SHIELD	-
43	R	-
44	G	-
45	SHIELD	-
46	SB	-
47	SB	-
48	V	-
49	SB	-
50	V	-
51	SB	-
52	V	-
53	SB	-
54	SB	-
55	V	-
56	V	-
57	SB	-
58	SB	-
59	SB	-
60	SB	-
61	SB	-
62	SB	-
63	SB	-
64	SB	-
65	SB	-
66	SB	-
67	SB	-
68	SB	-
69	SB	-
70	SB	-
71	BG	-
72	GR	-
73	P	-

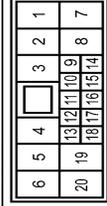
74	L	-
75	Y	-
76	B	-
77	B	-
78	Y	-
79	G	-
80	W	-
81	R	-
82	BR	-
83	Y	-
84	SB	-
85	BR	-
86	P	-
87	EG	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	AG3FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-

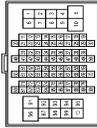
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	W	-
5	P	-

5	BR	-
6	B	-
7	L	-
19	SB	- (With BOSE system)
19	SB	- (Without BOSE system)
20	P	- (With BOSE system)
20	P	- (Without BOSE system)
20	Y	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
6	L	-
7	Y	-
31	L	-
32	P	-
33	G	-
34	R	-
41	LG	-
42	BR	-
43	R	-
45	G	-
46	SHIELD	-
47	G	-
48	Y	-
49	SHIELD	-
50	W	-
71	R	-
80	BG	-
81	SHIELD	-
82	G	-
84	L	-
85	SHIELD	-
86	G	-
87	R	-
88	W	-

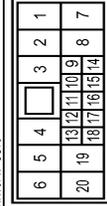
89	B	-
90	V	-
91	V	-
92	W	-
93	BG	-
94	R	-
95	SB	-
96	G	-
97	GR	-
98	BR	-
99	P	-
100	L	-

Connector No.	B218
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	AG3FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	BG	-
5	G	-
6	V	-

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FRONT POWER WINDOW SWITCH

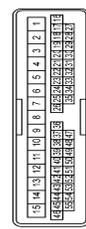
< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

7	B	-
8	P	-
20	P	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-
3	SB	-
4	V	-
8	L	-
9	P	-
10	LG	-
12	GR	-
13	W	-
14	R	-
15	B	-
25	R	-
26	V	-
33	B	-
42	G	-
43	GR	-
44	BG	-
47	V	-
48	R	-
49	SB	-
50	W	-
51	P	-
52	V	-
53	R	-
55	SHIELD	-

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
4	V	-
6	L	-
8	L	-
9	BG	-
10	SB	-
11	G	-
13	P	-
14	V	-
15	B	-

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS33PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
19	Y	-

Connector No.	D10
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	NS8PW-CS



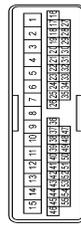
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	V	-
3	BG	-
4	B	-
5	P	-
6	LG	-

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED6FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	B	-
5	Y	-
6	V	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-
3	LG	-
7	LG	-
8	P	-
10	L	-
11	W	-
12	G	-
13	R	-
24	R	-
25	G	-
26	SHIELD	-
42	L	-
47	R	-
48	SB	-
49	P	-
50	W	-
52	GR	-
53	BG	-
54	G	-

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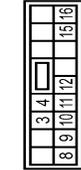
FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



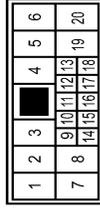
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	W	-
3	B	-
4	G	-
5	Y	-
6	V	-
11	B	- [Without BOSE system]
12	P	- [With BOSE system]
15	BG	-
16	V	-

Connector No.	D40
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	NS36FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	BG	-
4	B	-
5	EG	-
6	LG	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



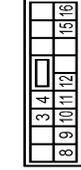
Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	GR	-
4	SP	-
5	W	-
6	V	-
7	B	-
19	L	- [Without BOSE system]
19	LG	- [With BOSE system]
20	P	- [Without BOSE system]
20	Y	- [With BOSE system]

Connector No.	D52
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	RS36FG



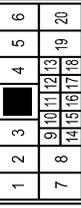
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SD	-
3	L	-
4	B	-
5	EG	-
6	BG	-

Connector No.	D57
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
4	SP	-
5	W	-
6	L	-
10	W	-
11	B	-
12	GR	-
15	BG	-
16	Y	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



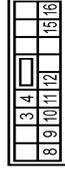
Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	-
3	W	-
5	P	-
6	LG	-
7	B	-
19	L	-
20	P	-

Connector No.	D72
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	RS36FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-
3	L	-
4	BR	-
5	GR	-
6	BG	-

Connector No.	D77
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
4	SB	-
8	W	-
9	L	-
10	W	-
11	B	-
12	GR	-
15	BG	-
16	Y	-

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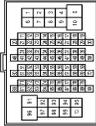
FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BG	-
3	G	-
4	Y	-
5	V	-
6	R	-
7	V	-
8	R	-
9	R	-
10	V	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
18	BG	-
19	LG	-
20	LG	-
21	BG	-
22	BG	-
23	SB	-
24	Y	-
25	Y	-
26	R	-
27	B	-
28	B	-
29	LG	-
30	LG	-
31	LG	-
32	LG	-
33	LG	-
34	LG	-
35	LG	-
36	LG	-
37	Y	-
38	R	-
39	B	-
40	B	-
41	R	-
42	LG	-
43	G	-
44	GR	-
45	BR	-
46	LG	-
47	V	-
48	P	-
49	CB	-
50	CB	-
51	LG	-
52	LG	-
53	G	-
54	GR	-
55	BR	-
56	LG	-
57	LG	-
58	CB	-
59	LG	-
60	R	-
61	P	-
62	G	-
63	V	-
64	V	-
65	V	-
66	V	-
67	V	-
68	V	-
69	V	-
70	V	-
71	V	-
72	V	-
73	V	-
74	V	-
75	V	-
76	V	-
77	V	-
78	V	-
79	V	-
80	R	-
81	P	-
82	G	-
83	V	-

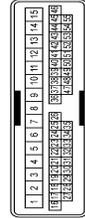
84	L	-
85	V	-
86	V	-
87	W	-
88	GR	-
89	LG	-
90	SB	-
91	SHIELD	-
92	L	-
93	P	-
94	P	-
95	P	-
96	P	-
97	P	-
98	P	-
99	P	-
100	P	-

Connector No.	MT
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FH-#2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	L	-
5A	L	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-CS15



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

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MK-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	R	-
3	G	-
4	LG	-
5	LG	-
6	LG	-
7	W	-
8	V	-
9	G	-
10	V	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	BR	-
18	P	-
19	P	-
20	L	-
21	L	-
22	L	-
23	L	-
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25	L	-
26	L	-
27	L	-
28	L	-
29	L	-
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31	L	-
32	L	-
33	L	-
34	L	-
35	L	-
36	L	-
37	Y	-
38	R	-
39	SB	-
40	P	-
41	V	-
42	LG	-
43	P	-
44	B	-
45	BG	-
46	G	-
47	L	-
48	L	-
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73	L	-
74	L	-
75	L	-
76	L	-
77	L	-
78	L	-
79	L	-
80	SB	-
81	B	-
82	V	-
83	W	-

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FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

82	GR	-	-
83	GR	-	-
84	LG	-	-
85	W	-	-
86	Y	-	-
87	GR	-	-
88	SHIELD	-	-
89	V	-	-
90	SB	-	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH880MP-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	P	-
3	Y	-
4	L	-
5	G	-
6	LG	-
7	W	-
8	Y	-
9	GR	-
10	V	-
11	LG	-
12	BR	-
13	EG	-
14	LG	-
15	V	-
16	SHIELD	-
17	GR	-
18	BR	-
19	LG	-
20	O	-
21	W	-
22	SHIELD	-

Connector No.	M17
Connector Name	WIRE TO WIRE
Connector Type	TH880MP-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-
3	SB	-
4	LG	-
5	SB	-
6	SB	-
7	SB	-
8	SB	-
9	SB	-
10	SB	-
11	SB	-
12	SB	-
13	SB	-
14	SB	-
15	SB	-
16	SB	-
17	SB	-
18	SB	-
19	SB	-
20	SB	-
21	SB	-
22	SB	-
23	SB	-
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27	SB	-
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29	SB	-
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33	SB	-
34	SB	-
35	SB	-
36	SB	-
37	SB	-
38	SB	-
39	SB	-
40	SB	-
41	SB	-
42	SB	-
43	R	-
44	G	-
45	G	-
46	SHIELD	-
47	P	-
48	SHIELD	-
49	V	-
50	V	-
51	R	-
52	R	-
53	R	-
54	R	-
55	R	-
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85	R	-
86	R	-
87	R	-
88	R	-
89	R	-
90	R	-
91	R	-
92	R	-
93	R	-
94	R	-
95	R	-
96	R	-

97	R	-	-
98	EG	-	-
99	P	-	-
100	L	-	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MD3FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	EG	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
6	SB	STEP LAMP COIL
7	Y	ALL DOOR LOCK OUTPUT
8	G	DRIVER DOOR FUEL LOCK COIL OUTPUT
9	V	DRIVER DOOR UNLOCK OUTPUT
10	P	REAR DOOR UNLOCK OUTPUT
11	R	BAT (E/SE)
12	B	GROUND
13	B	GROUND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	EG	ACC IND
16	W	ACC IND
17	W	TURN SIGNAL RH (FRONT)

FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

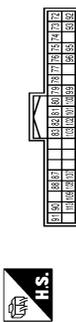
[FRONT & REAR WINDOW ANTI-PINCH]

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POWER WINDOW SYSTEM

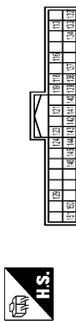
18	BG	TURN SIGNAL L(LEFT)
19	V	INT ROOM LAMP CONT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



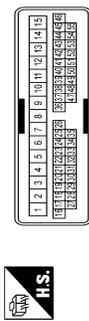
Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT Z-
73	G	ROOM ANT Z+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT I-
79	BR	ROOM ANT I+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP
82	SB	IGN RELAY (FBI) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
84	Y	COMBI SW INPUT 1
86	BG	COMBI SW INPUT 3
86	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL CONT
93	GR	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIF SELECTOR POWER SUPPLY
99	R	SHIF P
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	P	KEYLESS ENTRY RECEIVER POWER SUPPLY
104	Y	COMBI SW INPUT 1
106	G	COMBI SW INPUT 1
106	W	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
113	BG	OPTICAL SENSOR
114	GR	STOP LAMP SW
116	SB	STOP LAMP 2
118	SR	DR DOOR UNLOCK SENSOR
121	SB	KEY-SLOT SW
123	V	IGN F/B
124	R	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	V	POWER WINDOW SW COMM
133	L	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	V	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	B	SHIF IN P
141	Y	SECURITY TRANSMITTER CONT
142	BR	COMBI SW OUTPUT 1
143	P	COMBI SW OUTPUT 2
144	G	COMBI SW OUTPUT 3
145	L	COMBI SW OUTPUT 4
146	SB	COMBI SW OUTPUT 5
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	V	-
4	V	-
5	P	-
10	BR	-
11	R	-
12	G	-
13	R	-
24	R	-
25	G	-
26	SHIELD	-
42	BG	-
47	LG	-
48	P	-
49	Y	-
51	BR	-
51	SB	-
52	L	-
53	L	-
54	Y	-

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.

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INFOID:000000011449276

FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

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 malfunction	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
- Door key cylinder switch power window 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

< ECU DIAGNOSIS INFORMATION >

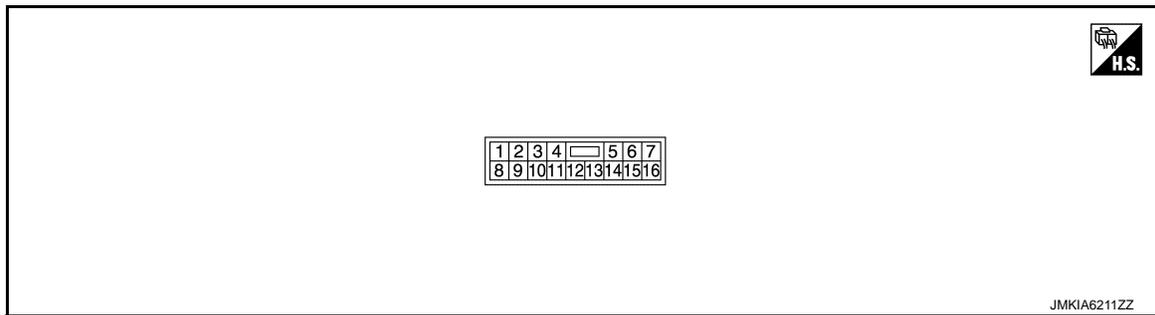
[FRONT & REAR WINDOW ANTI-PINCH]

REAR POWER WINDOW SWITCH

Reference Value

INFOID:000000010988907

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output		
3 (BR)	Ground	Encoder ground	—	—	0
4 (SB)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	12
8 (W)	Ground	Power window motor UP signal	Output	When power window motor is UP at operated.	12
9 (L)	Ground	Power window motor DOWN signal	Output	When power window motor is DOWN at operated.	12
10 (W)	Ground	Battery power supply	Input	—	12
11 (B)	Ground	Ground	—	—	0
12 (GR)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	 <small>JMKIA0070GB</small>
15 (BG)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	 <small>JMKIA0070GB</small>
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating.	 <small>JPMIA0013GB</small>

A
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PWC

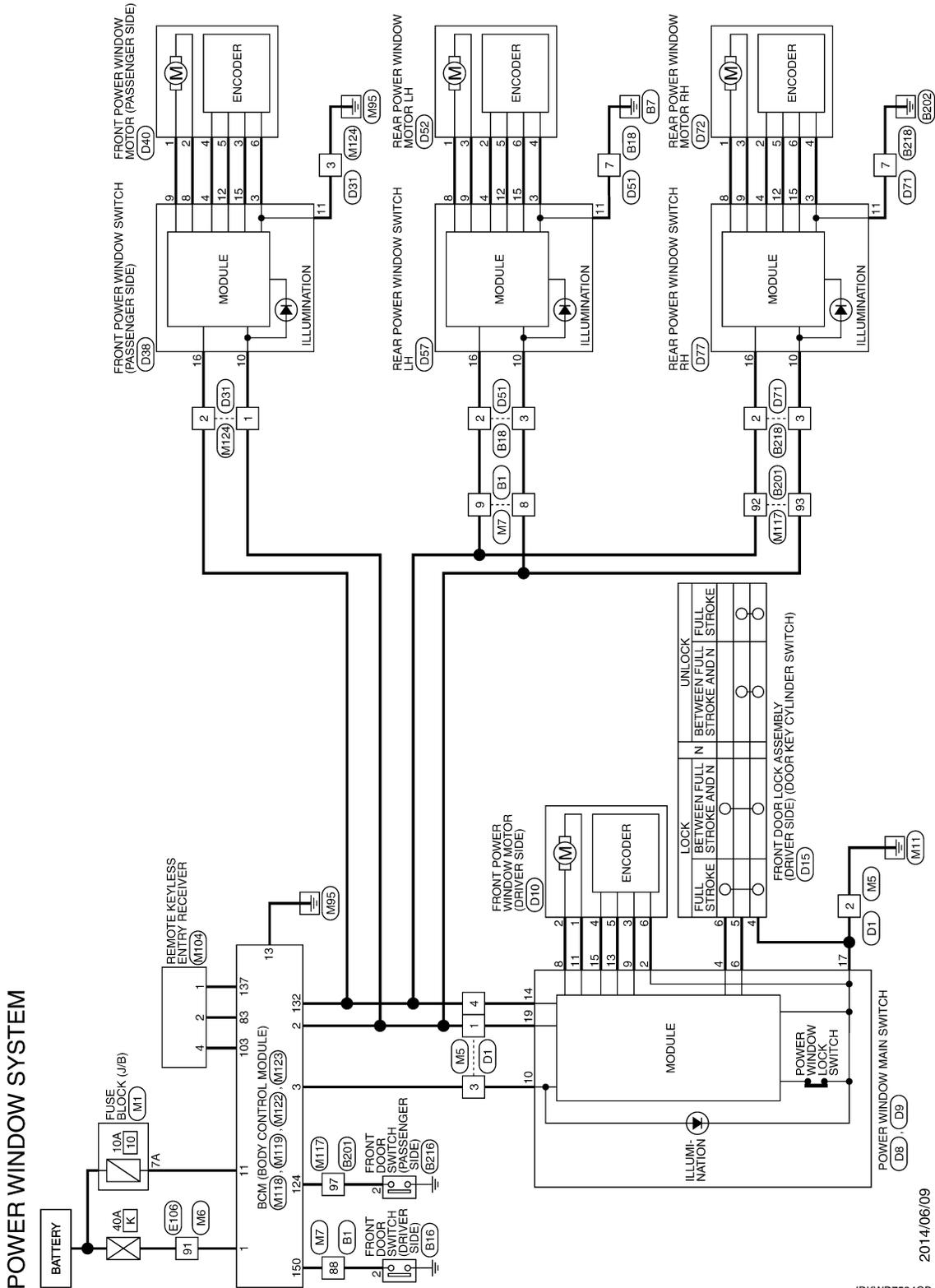
REAR POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

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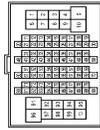
REAR POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

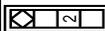
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	
2	BG	
3	Y	
4	W	
5	G	
6	R	
7	W	
8	R	
9	LG	
10	L	
11	B	
12	W	
13	BG	
14	Y	
15	W	
16	R	
17	P	
18	W	
19	P	
20	P	
21	P	
22	P	
23	P	
24	V	
25	SB	
26	G	
27	W	
28	R	
29	V	
30	SB	
31	V	
32	SB	
33	SHIELD	
34	SHIELD	
35	SHIELD	
36	BR	
37	Y	
38	Y	
39	SB	
40	P	
41	L	
42	SHIELD	
43	R	
44	G	
45	SHIELD	
46	SB	
47	BR	
48	Y	
49	SB	
50	Y	
51	SB	
52	Y	
53	SB	
54	Y	
55	SB	
56	Y	
57	SB	
58	Y	
59	SB	
60	Y	
61	SB	
62	Y	
63	SB	
64	Y	
65	SB	
66	Y	
67	SB	
68	Y	
69	SB	
70	Y	
71	BG	
72	GR	
73	P	

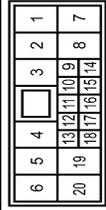
74	L	--
75	L	--
76	S	--
77	Y	--
78	G	--
79	W	--
80	R	--
81	BR	--
82	BR	--
83	Y	--
84	SB	--
85	BR	--
86	P	--
87	EG	--

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	AG8W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	
2	BR	

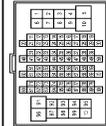
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	
2	W	
3	W	
4	P	
5	P	

6	BR	--
7	B	--
8	L	--
9	Y	--
10	SB	--
11	W	--
12	W	--
13	W	--
14	W	--
15	W	--
16	W	--
17	W	--
18	W	--
19	W	--
20	P	--
21	Y	--
22	Y	--

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	L	
3	L	
4	L	
5	L	
6	L	
7	V	
8	L	
9	L	
10	L	
11	L	
12	L	
13	L	
14	L	
15	L	
16	L	
17	L	
18	L	
19	L	
20	L	
21	L	
22	L	
23	L	
24	L	
25	L	
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31	L	
32	L	
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39	L	
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41	L	
42	L	
43	L	
44	L	
45	L	
46	L	
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85	L	
86	L	
87	L	
88	L	

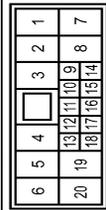
89	B	--
90	V	--
91	W	--
92	W	--
93	BG	--
94	R	--
95	SB	--
96	G	--
97	GR	--
98	BR	--
99	P	--
100	L	--

Connector No.	B218
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	AG3PW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	
2	GR	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	
2	W	
3	BG	
4	G	
5	G	
6	V	

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REAR POWER WINDOW SWITCH

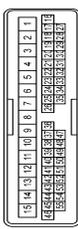
< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

7	B	-
10	P	-
20	P	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-
3	SB	-
4	V	-
8	L	-
9	P	-
10	LG	-
12	GR	- [With BOSE system]
12	L	- [Without BOSE system]
13	V	-
14	G	-
15	R	-
23	V	-
26	R	-
33	B	-
42	G	-
43	GR	-
44	BG	-
47	V	-
48	R	-
49	SB	-
50	W	-
51	L	-
52	V	-
54	G	-
55	R	-
55	SHIELD	-

Connector No.	DB
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
4	Y	-
6	B	-
8	L	-
9	BG	-
10	SB	-
11	G	-
13	P	-
14	V	-
15	B	-

Connector No.	DD
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS33FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
19	Y	-

Connector No.	D10
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	NS26FW-CS



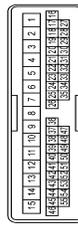
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	BG	-
4	B	-
5	P	-
6	LG	-

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED06FY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	B	-
5	Y	-
6	V	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	V	-
3	B	-
7	LG	-
8	P	-
10	L	-
11	W	-
12	G	-
13	R	-
24	R	-
25	G	-
26	SHIELD	-
42	L	-
47	R	-
48	SB	-
50	P	-
52	V	-
52	GR	-
53	BG	-
54	G	-

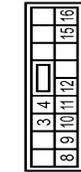
REAR POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



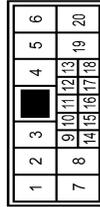
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	G	-
4	V	-
5	Y	-
6	B	-
7	L	-
8	LG	- [Without BOSE system]
9	P	- [With BOSE system]
10	BG	- [Without BOSE system]
11	V	- [With BOSE system]
12	Y	-
13	B	-
14	L	-
15	LG	-
16	V	-

Connector No.	D40
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	BG	-
4	B	-
5	LG	-
6	V	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH1DMV-CS10



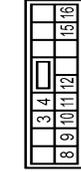
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BR	-
3	SB	-
4	W	-
5	V	-
6	Y	-
7	B	-
8	L	-
9	LG	- [Without BOSE system]
10	P	- [With BOSE system]
11	BG	- [Without BOSE system]
12	V	- [With BOSE system]
13	Y	-
14	B	-
15	L	-
16	LG	-
17	P	-
18	BG	-
19	V	-
20	Y	-

Connector No.	D52
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	RS9BFG



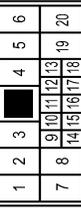
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-
3	L	-
4	BR	-
5	B	-
6	BR	-

Connector No.	D57
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	SB	-
3	W	-
4	Y	-
5	V	-
6	Y	-
7	B	-
8	L	-
9	LG	-
10	W	-
11	B	-
12	GR	-
13	BG	-
14	Y	-
15	BG	-
16	Y	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH1DMV-CS10



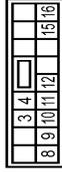
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	W	-
3	W	-
4	P	-
5	LG	-
6	B	-
7	L	-
8	P	-
9	Y	-
10	Y	-
11	Y	-
12	Y	-
13	Y	-
14	Y	-
15	Y	-
16	Y	-
17	Y	-
18	Y	-
19	Y	-
20	P	-

Connector No.	D72
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	RS9BFG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-
3	L	-
4	BR	-
5	GR	-
6	BG	-

Connector No.	D77
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	SB	-
3	W	-
4	L	-
5	W	-
6	B	-
7	GR	-
8	BG	-
9	Y	-
10	Y	-
11	Y	-
12	Y	-
13	Y	-
14	Y	-
15	Y	-
16	Y	-

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PWC

REAR POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TR80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	GR	-
3	CG	-
4	CG	-
5	Y	-
6	Y	-
7	V	-
8	R	-
9	R	-
10	V	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
18	BG	-
19	LG	-
20	LG	-
21	BG	-
22	BG	-
23	SB	-
24	SB	-
25	Y	-
26	R	-
27	R	-
28	B	-
29	R	-
30	R	-
31	LG	-
32	LG	-
33	G	-
34	GR	-
35	BR	-
36	BR	-
37	LG	-
38	LG	-
39	L	-
40	L	-
41	GR	-
42	GR	-
43	P	-
44	P	-
45	G	-
46	G	-
47	V	-
48	V	-
49	L	-
50	L	-
51	GR	-
52	GR	-
53	P	-
54	P	-
55	BR	-
56	BR	-
57	LG	-
58	LG	-
59	L	-
60	L	-
61	GR	-
62	GR	-
63	P	-
64	P	-
65	G	-
66	G	-
67	V	-
68	V	-
69	L	-
70	L	-
71	GR	-
72	GR	-
73	P	-
74	P	-
75	G	-
76	G	-
77	V	-
78	V	-
79	L	-
80	L	-
81	GR	-
82	GR	-
83	P	-
84	P	-
85	G	-
86	G	-
87	V	-
88	V	-
89	L	-
90	L	-
91	GR	-
92	GR	-
93	P	-
94	P	-
95	G	-
96	G	-
97	V	-
98	V	-
99	L	-
100	L	-

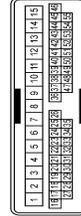
84	L	-
85	W	-
86	V	-
87	W	-
88	W	-
89	GR	-
90	LG	-
91	SB	-
92	SHIELD	-
93	L	-
94	P	-
95	P	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS56FW-H2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	V	-
3A	G	-
4A	L	-
5A	L	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



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

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TR80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	EG	-
2	EG	-
3	R	-
4	G	-
5	G	-
6	LG	-
7	W	-
8	W	-
9	G	-
10	V	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	BR	-
18	P	-
19	L	-
20	L	-
21	L	-
22	Y	-
23	Y	-
24	Y	-
25	Y	-
26	Y	-
27	Y	-
28	Y	-
29	Y	-
30	Y	-
31	Y	-
32	Y	-
33	Y	-
34	Y	-
35	Y	-
36	Y	-
37	Y	-
38	R	-
39	SB	-
40	P	-
41	V	-
42	LG	-
43	P	-
44	B	-
45	BG	-
46	G	-
47	L	-
48	L	-
49	L	-
50	L	-
51	L	-
52	L	-
53	L	-
54	L	-
55	L	-
56	L	-
57	L	-
58	L	-
59	L	-
60	L	-
61	L	-
62	L	-
63	L	-
64	L	-
65	L	-
66	L	-
67	L	-
68	L	-
69	L	-
70	L	-
71	L	-
72	L	-
73	L	-
74	L	-
75	L	-
76	L	-
77	L	-
78	L	-
79	L	-
80	L	-
81	B	-
82	V	-
83	W	-

REAR POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

84	LG	-
85	GR	-
86	GR	-
87	G	-
88	W	-
89	W	-
90	W	-
91	W	-
92	Y	-
93	Y	-
94	Y	-
95	Y	-
96	GR	-
97	GR	-
98	SHIELD	-
99	V	-
100	SB	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	T1808MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	P	-
3	P	-
4	P	-
5	L	-
6	L	-
7	L	-
8	Y	-
9	G	-
24	V	-
25	LG	-
26	BR	-
27	BG	-
28	LG	-
31	V	-
32	LG	-
33	SHIELD	-
34	GR	-
35	BR	-
36	BR	-
37	SHIELD	-
38	LG	-
39	LG	-
40	O	-
41	W	-
42	SHIELD	-

43	R	-
44	SHIELD	-
45	SHIELD	-
46	SS	-
47	W	-
48	B	-
49	V	-
50	Y	-
51	Y	-
52	P	-
53	P	-
54	SB	-
55	SB	-
56	V	-
57	V	-
58	BR	-
59	LG	-
60	EG	-
61	EG	-
62	G	-
63	G	-
64	GR	-
65	L	-
66	P	-
67	L	-
68	L	-
69	P	-
70	P	-
71	P	-
72	P	-
73	SB	-
74	V	-
75	V	-
76	W	-
77	W	-
78	BR	-
79	LG	-
80	EG	-
81	EG	-
82	G	-
83	G	-
84	GR	-
85	L	-
86	P	-
87	L	-
88	L	-
89	P	-
90	L	-
91	L	-
92	L	-
93	P	-
94	P	-
95	BG	-

Connector No.	MTD4
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	J4804F5



Terminal No.	Color Of Wire	Signal Name [Specification]
1	EG	GROUND
2	Y	SIGNAL OUTPUT
4	P	BATTERY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	T1808MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	LG	-
3	SB	-
4	SB	-
5	SB	-
6	SB	-
7	SB	-
8	SB	-
9	SB	-
10	SB	-
11	SB	-
12	SB	-
13	SB	-
14	SB	-
15	SB	-
16	SB	-
17	SB	-
18	SB	-
19	SB	-
20	SB	-
21	SB	-
22	SB	-
23	SB	-
24	SB	-
25	SB	-
26	SB	-
27	SB	-
28	SB	-
29	SB	-
30	SB	-
31	SB	-
32	SB	-
33	SB	-
34	SB	-
35	SB	-
36	SB	-
37	SB	-
38	SB	-
39	SB	-
40	SB	-
41	SB	-
42	SB	-
43	R	-
44	R	-
45	G	-
46	SHIELD	-
47	P	-
48	L	-
49	SHIELD	-
50	V	-
51	R	-
52	R	-
53	R	-
54	R	-
55	R	-
56	R	-
57	R	-
58	R	-
59	R	-
60	R	-
61	R	-
62	R	-
63	R	-
64	R	-
65	R	-
66	R	-
67	R	-
68	R	-
69	R	-
70	R	-
71	R	-
72	R	-
73	R	-
74	R	-
75	R	-
76	R	-
77	R	-
78	R	-
79	R	-
80	R	-
81	SHIELD	-
82	P	-
83	L	-
84	G	-
85	SHIELD	-
86	W	-
87	B	-
88	R	-
89	R	-
90	G	-
91	V	-
92	V	-
93	V	-
94	BR	-
95	Y	-
96	G	-
97	G	-
98	G	-
99	G	-
100	G	-

87	R	-
88	BG	-
89	P	-
100	L	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (BAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP CONT
8	V	ALL DOOR FUEL ID LOCK OUTPUT
9	V	DRIVER DOOR UNLOCK OUTPUT
10	P	REAR DOOR UNLOCK OUTPUT
11	R	BAT (ELSES)
13	B	GROUND
14	W	PUSH-BUTTON (IGNITION SW) ILL GND
15	BG	ACC. IND
17	W	TURN SIGNAL RH (FRONT)

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PWC

REAR POWER WINDOW SWITCH

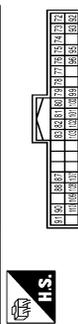
< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SYSTEM

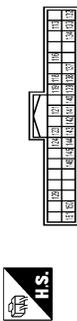
18	BG	TRN SIGNAL LTR (FRONT)
19	Y	INT ROOM LAMP CONT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



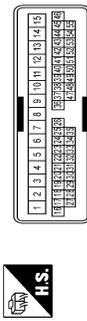
Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NAVS ANT AMP
81	W	NAVS ANT AMP
82	SB	IGN RELAY
83	Y	KEYLESS ENTRY RECEIVER COMM
84	W	COMBI SW INPUT 1
85	BG	COMBI SW INPUT 3
86	BG	CAN-L
87	L	CAN-H
88	LG	KEY SLOT ILL CONT
89	GR	ON/IND
90	GR	ACC RELAY CONT
91	R	A/T SHIFT SELECTOR POWER SUPPLY
92	Y	SHIFT P
93	Y	PASSENGER DOOR REQUEST SW
94	P	DRIVER DOOR REQUEST SW
95	BG	BLOWER FAN MOTOR RELAY CONT
96	LG	KEYLESS ENTRY RECEIVER COMM
97	LG	COMBI SW INPUT 1
98	R	COMBI SW INPUT 4
99	W	COMBI SW INPUT 2
100	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
118	BG	OPTICAL SENSOR
119	BR	STOP LAMP SW 2
120	BR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
122	V	IGN F/B
123	R	PASSENGER DOOR SW
124	BG	TRUNK LID OPERATOR CANCEL SW
125	V	POWER WINDOW SW COMM
126	L	PUSH-BUTTON IGNITION SW ILL POWER
127	LG	LOCK IND
128	BG	RECEIVER / SENSOR GND
129	V	RECEIVER / SENSOR POWER SUPPLY
130	L	TIRE PRESSURE RECEIVER COMM
131	W	SECURITY LAMP CONT
132	BR	COMBI SW OUTPUT 3
133	P	COMBI SW OUTPUT 2
134	G	COMBI SW OUTPUT 1
135	L	COMBI SW OUTPUT 4
136	SB	COMBI SW OUTPUT 3
137	GR	DRIVER DOOR SW
138	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MM-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	-
4	V	-
5	V	-
6	P	-
7	BR	-
8	R	-
9	R	-
10	G	-
11	G	-
12	R	-
13	R	-
14	R	-
15	G	-
16	SHIELD	-
17	BG	-
18	LG	-
19	V	-
20	BR	-
21	L	-
22	L	-
23	L	-
24	Y	-

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.

JRKWD7662GB

INFOID:000000011449278

REAR POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

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 malfunction	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
- Door key cylinder switch power window 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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PWC

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

SYMPTOM DIAGNOSIS

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

Diagnosis Procedure

INFOID:0000000010988910

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

[BCS-40, "Diagnosis Procedure"](#).

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 serial link circuit.

Refer to [PWC-36, "POWER WINDOW MAIN SWITCH : 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-41, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010988911

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

Check power window switch power supply and ground circuit.

Refer to [PWC-17, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DRIVER SIDE POWER WINDOW MOTOR

Check driver side power window motor.

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

Is the measurement value within the specification?

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-41, "Intermittent Incident"](#).

NO >> GO TO 1.

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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE WHEN POWER WINDOW MAIN SWITCH IS OPERATED

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000010988912

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

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

Refer to [PWC-37. "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-41. "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:000000010988913

1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to [PWC-126. "Removal and Installation"](#)

>> INSPECTION END

WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED

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

INFOID:000000010988914

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

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

Refer to [PWC-18. "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 passenger side power window motor circuit.

Refer to [PWC-21. "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-41. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

REAR LH SIDE POWER WINDOW DOES NOT OPERATE WHEN POWER WINDOW MAIN SWITCH IS OPERATED

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000010988915

1. CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT

Check rear power window switch LH serial link circuit.

Refer to [PWC-39, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED : Diagnosis Procedure

INFOID:000000010988916

1. REPLACE REAR POWER WINDOW SWITCH LH

Replace rear power window switch LH.

Refer to [PWC-126, "Removal and Installation"](#)

>> INSPECTION END

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED

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

INFOID:000000010988917

PWC

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

Check rear power window switch power supply and ground circuit.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-22, "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-41, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

REAR LH SIDE POWER WINDOW DOES NOT OPERATE WHEN POWER WINDOW MAIN SWITCH IS OPERATED

WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure

INFOID:000000010988918

1. CHECK REAR POWER WINDOW SWITCH RH SERIAL LINK CIRCUIT

Check rear power window switch RH serial link circuit.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-41, "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:000000010988919

1. REPLACE REAR POWER WINDOW SWITCH RH

Replace rear power window switch RH.

Refer to [PWC-126, "Removal and Installation"](#)

>> INSPECTION END

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH ARE OPERATED

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

INFOID:000000010988920

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

Check rear power window switch power supply and ground circuit.

Refer to [PWC-18, "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-23, "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-41, "Intermittent Incident"](#).

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010988921

1. CHECK POWER WINDOW AUTO OPERATION

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [PWC-118, "Diagnosis Procedure"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

Diagnosis Procedure

INFOID:000000010988922

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

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

2.CHECK ENCODER CIRCUIT

Check encoder circuit. Refer to the following.

- Driver side: Refer to [PWC-25, "DRIVER SIDE : Component Function Check"](#).
- Passenger side: Refer to [PWC-27, "PASSENGER SIDE : Component Function Check"](#).
- Rear LH side: Refer to [PWC-29, "REAR LH : Component Function Check"](#).
- Rear RH side: Refer to [PWC-31, "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-41, "Intermittent Incident"](#).
NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Diagnosis Procedure

INFOID:000000010988923

1. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-66, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Diagnosis Procedure

INFOID:000000010988924

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to [PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR KEY CYLINDER SWITCH)

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

Refer to [PWC-34, "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-41, "Intermittent Incident"](#).

NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Description

INFOID:000000010988925

Power window down does not operate when pressing unlock button on Intelligent Key.

Diagnosis Procedure

INFOID:000000010988926

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-191, "Description"](#).

2. CHECK POWER WINDOW OPERATION

Check power window operation.

Does power window operate up/down using power window main switch?

YES >> GO TO 3.

NO >> Refer to [PWC-113, "Diagnosis Procedure"](#).

3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"

Check "PW DOWN SET" setting in "WORK SUPPORT".

Refer to [DLK-53, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> GO TO 1.

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000010988927

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to [PWC-126. "Removal and Installation"](#).

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000010988928

1. REPLACE POWER WINDOW SWITCH

Replace power window switch.

Refer to [PWC-126, "Removal and Installation"](#).

>> INSPECTION END

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PRECAUTIONS

< PRECAUTION >

[FRONT & REAR WINDOW ANTI-PINCH]

PRECAUTION

PRECAUTIONS

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

INFOID:000000010988929

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, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the 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, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

INFOID:000000011401923

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

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.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

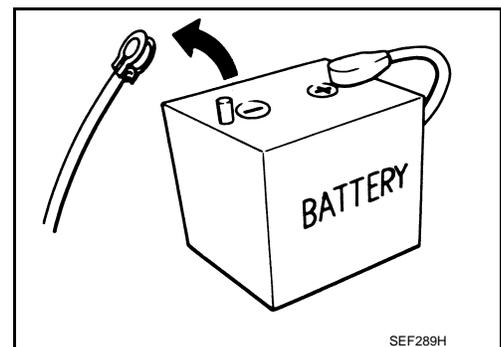
NOTE:

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.



PREPARATION

< PREPARATION >

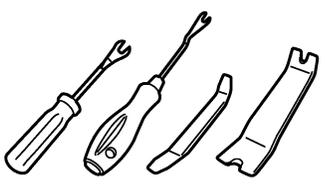
[FRONT & REAR WINDOW ANTI-PINCH]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000010988930

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

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POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

[FRONT & REAR WINDOW ANTI-PINCH]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000010988931

REMOVAL

1. Remove the power window main switch finisher. Refer to [INT-12. "Removal and Installation"](#).
2. Power window main switch (1) is removed from power window main switch finisher (2) using remover tool (A).

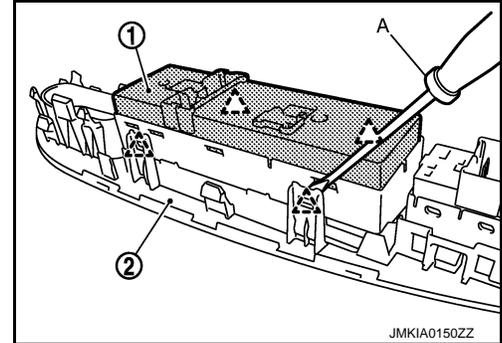
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CAUTION:

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

NOTE:

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



INSTALLATION

Install in the reverse order of removal.

NOTE:

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

Refer to [PWC-6. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).