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DIAGNOSIS AND REPAIR WORKFLOW

[FRONT & REAR WINDOW ANTI-PINCH] < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000005248143 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurred) as possible when the customer brings the vehicle in. D >> GO TO 2. $2.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Е Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. F >> GO TO 3. ${f 3.}$ IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS" Use "Symptom diagnosis" from the symptom inspection result in step 2. Then identify where to start the diagnosis based on possible causes and symptoms. Н >> GO TO 4. f 4.IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 5. J ${f 5}$. REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. **PWC** >> GO TO 6. 6. FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

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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

When the battery negative terminal is disconnected, the initialization is necessary.

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

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

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

- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INITIALIZATION PROCEDURE

- 1. Disconnect the battery negative terminal or power window main switch connector. Reconnect it after a minute or more.
- 2. Turn ignition switch ON.
- 3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
- 4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 5. Initializing procedure is completed.
- 6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Never check with hands or other body parts because they may be pinched. Never get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without fully closing. Perform initial setting in that situation. Refer to PWC-93, "Fail-safe"
- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000005248146

When the control unit replaced, the initialization in necessary.

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

Power supply to the power window main switch or power window motor is cut off by the removal
of battery terminal or if the battery fuse is blown.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[FRONT & REAR WINDOW ANTI-PINCH]

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

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

- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

INITIALIZATION PROCEDURE

- 1. Disconnect battery negative terminal or power window main switch connector. Reconnect it after a minute or more.
- Turn ignition switch ON.
- 3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
- 4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 5. Initializing procedure is completed.
- 6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Never check with hands or other body parts because they may be pinched. Never get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without fully closing. Perform initial setting in that situation. Refer to PWC-93, "Fail-safe"
- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

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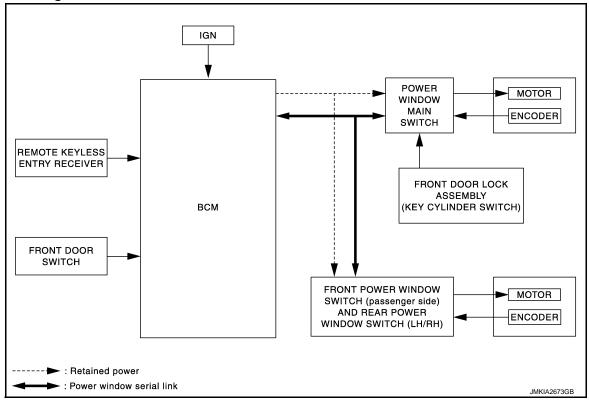
Revision: 2009 August PWC-9 2010 FX35/FX50

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

INFOID:0000000005248148



System Description

INFOID:0000000005248149

POWER WINDOW OPERATION

- Power window system is activated by power window switch operation when ignition switch turns ON, or during the retained power operation after ignition switch turns OFF.
- Power window main switch (driver side) can open/close all windows.
- Front & rear power window switch can open/close the corresponding windows.

POWER WINDOW AUTO-OPERATION

- AUTO UP/DOWN operation can be performed when each power window motor turns to AUTO.
- Encoder continues detecting the movement of power window motor and 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 during the 45 seconds even when ignition switch is turned OFF.

Retained power function cancel conditions

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

POWER WINDOW LOCK FUNCTION

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

ANTI-PINCH OPERATION

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[FRONT & REAR WINDOW ANTI-PINCH]

- 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) or for 2 seconds 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) or for 2 seconds 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)

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

DOOR KEY CYLINDER SWITCH OPERATION

Hold the door key cylinder to the LOCK or UNLOCK direction for 1.5 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
- 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 SUP-PORT". Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

NOTE:

Use CONSULT-III to change settings.

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

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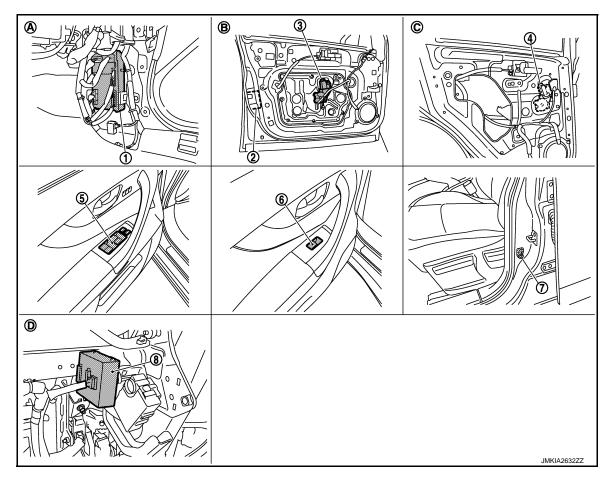
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Component Parts Location

INFOID:0000000005248150



- 1. BCM M118, M119, M122, M123
- 4. Rear power window motor LH D52
- 7. Front door switch (driver side) B16
- A. View with dash side lower (passenger side) removed
- D. View whit instrument lower panel (driver side) removed
- Front door lock assembly (driver side) (key cylinder switch) D15
- 5. Power window main switch D8, D9
- 8. Remote keyless entry receiver M104
- 3. View with front door finisher removed C.
- Front power window motor (driver side) D10
- 6. Rear power window switch LH D57
 - View with rear door finisher removed

Component Description

INFOID:0000000005248151

Component	Function
BCM	Supplies power supply to power window switch.Controls retained power.
Power window main switch	 Directly controls all power window motor of all doors. Controls anti-pinch operation of power window.
Front power window switch (passenger side)	 Controls anti-pinch operation of power window. Controls power window motor of passenger door.
Rear power window switch	 Controls anti-pinch operation of power window. Controls power window motor of rear right and left doors.
Power window motor	 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.
Remote keyless entry receiver	Receives lock/unlock signal from the intelligent key, and then transmits to BCM.

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[FRONT & REAR WINDOW ANTI-PINCH]

Component	Function
Front door lock assembly (key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.
Front door switch (driver side/passenger side)	Front door open/close condition and transmits to BCM.

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000005248152

APPLICATION ITEM

CONSULT-III 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 MNTR	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.
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.

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

^{*:} This item is displayed, but is not used.

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odd Trip Meter

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[FRONT & REAR WINDOW ANTI-PINCH]

• Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description		
SLEEP>LOCK	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" (Ignition switch OFF with steering is locked.)		
OFF	Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)		
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

IGN counter indicates the number of times that ignition switch is turned ON after DTC is detected.

- The number is 0 when a malfunction is detected now.
- The number increases like 1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

RETAIND PWR

RETAIND PWR : CONSULT-III Function (BCM - RETAINED PWR)

INFOID:0000000005248153

Data monitor

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

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000005248154

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	L (40A)
11	Battery power supply	10 (10A)

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

(+) BCM		(-)	Voltage (Approx.)
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
M118	1	Ground	Pottory voltage
M119	11	Giound	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Connector Terminal		Continuity
M119	13		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000005248155

1. CHECK POWER SUPPLY CIRCUIT 1

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connectors.

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Turn ignition switch ON.

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

(+) Power window main switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		(/ .pp. 3/)
D8	10	Ground	Pattory voltage
D9	19	Giound	Battery voltage

Is the inspection result normal?

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

2.CHECK GROUND CIRCUIT

Turn ignition switch OFF.

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

Power window main switch			Continuity
Connector Terminal		Ground	Continuity
D9	17		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK POWER SUPPLY CIRCUIT 2

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

В	CM	Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M118	2	D9	19	Existed
WITTO	3	D8	10	LXISTEG

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	2	Giodila	Not existed
WITTO	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT 1

Turn ignition switch OFF.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

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

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

Is the inspection result normal?

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

2.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK POWER SUPPLY CIRCUIT 2

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

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

3. Check continuity between BCM harness connector and ground.

В	CM		
Connector	Terminal	Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000005248157

1. CHECK POWER SUPPLY CIRCUIT 1

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

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

	(+) Rear power window switch		(–)	Voltage (V) (Approx.)
Coni	Connector			(πρριοχ.)
LH	D57	- 10	Ground	Pottory voltage
RH	D77	- 10	Giouna	Battery voltage

Is the inspection result normal?

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

2. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Rear power window switch				Continuity
Conr	nector	Terminal	Ground	Continuity
LH	D57	11	Giouria	Existed
RH	D77	11		LXISIGU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK POWER SUPPLY CIRCUIT 2

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

В	CM	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
M118	2	LH	D57	10	Existed
IVITO	18 2	RH	D77	10	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M118	2		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000005248158

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

DRIVER SIDE : Component Function Check

INFOID:0000000005248159

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

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

NO >> Refer to PWC-20, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000005248160

${\sf 1.}$ CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

(+)					\/oltogo (\/)
Front power window motor (driver side)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(F.b.o.v.)
	2		Power window main switch	UP	Battery voltage
D10	D10 2 G	Ground		DOWN	0
ы			Fower window main switch	UP	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK POWER WINDOW MOTOR

Check front power window motor (driver side).

Refer to PWC-21, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window motor (driver side). Refer to <u>GW-21, "Removal and Installation"</u>.

3.check power window motor circuit

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

Power windo	w main switch		window motor er side)	Continuity
Connector	Terminal	Connector	Terminal	
	8	D10	2	Existed
Do	11	010	1	Existed

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

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

V D TO/OH COTT DI/ CONOC	10 /	•	•
Dawar wiada	u main autich		
	w main switch		Continuity
Connector	Terminal 8	Ground	
D8	11	_	Not existed
Is the inspection result norm			
	 window main switch. Refei	r to <u>PWC-136, "Removal an</u>	d Installation".
4. CHECK INTERMITTENT			
Refer to GI-36, "Intermittent			
>> INSPECTION E	ND		
DRIVER SIDE : Comp	onent Inspection		INFOID:0000000005248161
COMPONENT INSPECTION	ΩNI		
1.CHECK POWER WINDO			
 Turn ignition switch OFF Disconnect front power 	i. window motor (driver side)	connector.	
			er window motor (driver side)
connector.			
Front power window motor	Teri	minal	
(driver side) connector	(+)	(–)	Motor operation
	1	2	DOWN
D10	2	1	UP
Is the inspection result norm	al?		
	dow motor (driver side) is		
NO >> Replace front popular po	ower window motor (driver	side). Refer to GW-21, "Re	moval and Installation".
PASSENGER SIDE : I	Description		INFOID:0000000005248162
Door glass moves UP/DOWI	N by receiving the signal p	ower window main switch o	r front power window switch
(passenger side).		•	
PASSENGER SIDE : (Component Function	Check	INFOID:0000000005248163
1. CHECK POWER WINDO	OW MOTOR CIRCUIT		
Check front power window r		eration with power window	main switch or front power
window switch (passenger s	,		
Is the inspection result norm		a) ia OK	
	dow motor (passenger sid 1, "PASSENGER SIDE : D		
PASSENGER SIDE : I			HEAD accessors to the
. , .SOLITOLIT OIDE . I	siagnosio i roccadio	•	INFOID:0000000005248164

PASSENGER SIDE : Diagnosis Procedure

- $1.\mathsf{CHECK}$ FRONT POWER WINDOW MOTOR INPUT SIGNAL
- Turn ignition switch OFF.
- 2. Disconnect front power window motor (passenger side) connector.
- 3. Turn ignition switch ON.
- Check voltage between front power window motor (passenger side) harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

((+)				
	Front power window motor (passenger side)		Condition		Voltage (V) (Approx.)
Connector	Terminal				
	D40 2	- Ground	Front power window switch	UP	Battery voltage
D40				DOWN	0
D40			(passenger side)	UP	0
	2			DOWN	Battery voltage

Is the inspection result normal?

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

2.CHECK POWER WINDOW MOTOR

Check front power window motor (passenger side).

Refer to PWC-22, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window motor (passenger side). Refer to GW-21, "Removal and Installation".

3.check power window motor circuit

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

Front power window s	switch (passenger side)	Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	D39 8		1	Existed
9		D40	2	LAISIGU

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

Front power window switch (passenger side)			Continuity
Connector	Terminal	Ground	Continuity
D38	8	Ground	Not existed
D36	9		Not existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-137, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000005248165

COMPONENT INSPECTION

1. CHECK POWER WINDOW MOTOR

- Turn ignition switch OFF.
- Disconnect front power window motor (passenger side) connector.

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Check motor operation by connecting the battery voltage directly to front power window motor (passenger side) connector.

Front power window motor (passen-	Terr	minal	- Motor condition	
ger side) connector	(+)	(-)	Wotor condition	
D40	1	2	UP	
	2	1	DOWN	

Is the inspection result normal?

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

NO >> Replace front power window motor (passenger side). Refer to GW-21, "Removal and Installation".

REAR LH

REAR LH: Description

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

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

>> Refer to PWC-23, "REAR LH: Diagnosis Procedure". NO

REAR LH : Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

(+) Rear power window motor LH		(–) Condition		Voltage (V) (Approx.)	
Connector	Terminal				, , ,
	4			UP	Battery voltage
D52	1	Ground	Rear power window switch LH	DOWN	0
3	2		ixear power window switch Err	UP	0
	3			DOWN	Battery voltage

Is the inspection result normal?

>> GO TO 2. YES

NO >> GO TO 3.

2.CHECK REAR POWER WINDOW MOTOR

Check rear power window motor LH.

Refer to PWC-24, "REAR LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

Revision: 2009 August

NO >> Replace rear power window motor LH. Refer to GW-27, "Removal and Installation".

3.CHECK POWER WINDOW MOTOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect rear power window switch LH connector.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

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

Rear power wi	ndow switch LH	Rear power wi	ndow motor LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D57	8	D52	1	Existed
<i>D31</i>	9	D32	3	LXISIEU

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

Rear power wi	ndow switch LH	Ground	Continuity	
Connector	Terminal			
D57	8	Giodila	Not existed	
D37	9			

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-138, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

REAR LH: Component Inspection

INFOID:0000000005248169

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR LH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor LH connector.
- Check motor operation by connecting the battery voltage directly to rear power window motor LH connector.

Rear power window motor LH	Terr	Motor condition	
connector	(+)	(–)	Wotor condition
D52	1	3	UP
	3	1	DOWN

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to <u>GW-27, "Removal and Installation"</u>.

REAR RH

REAR RH: Description

INFOID:0000000005248170

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:0000000005248171

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to PWC-25, "REAR RH : Diagnosis Procedure".

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

REAR RH: Diagnosis Procedure

INFOID:0000000005248172

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${f 1}$.CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

(+) Rear power window motor RH		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 -)
	4			UP	Battery voltage
D72	•	- Ground	Rear power window switch RH	DOWN	0
DIZ	3			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-26, "REAR RH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor RH. Refer to <u>GW-27</u>, "Removal and Installation".

3.CHECK POWER WINDOW MOTOR CIRCUIT

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

Rear power wi	Rear power window switch RH		Rear power window motor RH	
Connector	Terminal	Connector	Terminal	Continuity
D77	8	D72	1	Existed
DIT	9	DIZ	3	LXISIEU

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

Rear power wi	ndow switch RH		Continuity	
Connector	Connector Terminal		Continuity	
	8	Ground	Not existed	
DII	9		Not existed	

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-138, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

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[FRONT & REAR WINDOW ANTI-PINCH]

REAR RH: Component Inspection

INFOID:0000000005248173

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor RH connector.
- Check motor operation by connecting the battery voltage directly to rear power window motor RH connector.

Rear power window motor RH con-	Teri	minal	Motor condition	
nector	(+)	(-)	Wotor condition	
D72	1	3	UP	
	3	1	DOWN	

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Replace rear power window motor RH. Refer to <u>GW-27</u>, "<u>Removal and Installation</u>".

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INFOID:0000000005248176

DOOR SWITCH

Description INFOID:0000000005248174

Detects door open/closed condition.

Component Function Check

INFOID:0000000005248175 1. CHECK FUNCTION

Check door switches ("DOOR SW-DR", "DOOR SW-AS") in "Data Monitor" mode with CONSULT-III.

Monitor item	Door condition	Display	
DOOR SW-DR	CLOSE o OPEN	OFF → ON	
DOOR SW-AS	OLOGL → OPEN	OFF → ON	

Is the inspection result normal?

YES >> Door switch is OK.

>> Refer to PWC-27, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect malfunction front door switch connector.
- Check signal between malfunction front door switch harness connector and ground with oscilloscope.

(+) Front door switch		(–)	Voltage (V) (Approx.)	
Connector Termin		Terminal		(1451-071)
Driver side	B16			
Passenger side	B216	2	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check door switch circuit

- Disconnect BCM connector.
- Check continuity between BCM harness connector and malfunction door switch harness connector.

BCM		Front door sw	itch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	124	B216	2	Exists
WITZS	150	B16	2	LAISIS

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector Terminal		Ground	Continuity	
M123	124	Giodila	Not exist	
W1123	150		Not exist	

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

3. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-28, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunction front door switch. Refer to <u>DLK-280, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005248177

1. CHECK FRONT DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunction front door switch connector.
- 3. Check malfunction front door switch.

(+) Front door switch				Continuity		
		(-)	Condition			
Connector		Terminal				
Driver side	P16 2	2	B16 2		Door switch pressed	Not exist
Driver side	БІО			Ground part of	Door switch released	Exists
Doggongor oido	B216	2	door switch	Door switch pressed	Not exist	
Passenger side	D210	2		Door switch released	Exists	

Is the inspection result normal?

YES >> Front door switch is OK.

NO >> Replace malfunction front door switch. Refer to <u>DLK-280, "Removal and Installation"</u>.

[FRONT & REAR WINDOW ANTI-PINCH]

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DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000005248178

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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:0000000005248179

1. CHECK ENCODER

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

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-29, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

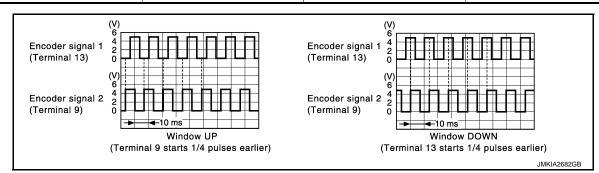
INFOID:0000000005248180

1. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.

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

((+)		0:1	
Power windo	w main switch	(–)	Signal (Reference value)	
Connector	Terminal		(= = = = = = = = = = = = = = = = = = =	
	9	Ground	Poter to following signal	
Do	13	Ground	Refer to following signal	



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-136, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect power window main switch connector and front power window motor (driver side) connector.
- 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		
	9	D10	3	Existed
	13	D10	5	Existed

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

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[FRONT & REAR WINDOW ANTI-PINCH]

Power wind	low main switch		Continuity
Connector	Terminal	Ground	Continuity
	9		Not existed
Do	13		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

	(+) Front power window motor (driver side)		Voltage (V) (Approx.)
Connector	Terminal		(другох.)
D10	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCORDER POWER SUPPLY CIRCUIT 2

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

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

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	15		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-136, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

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

Front power window motor (driver side)				Continuity	
Cor	nnector	Terminal	Ground	Continuity	
-	D10	6		Existed	

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-21, "Removal and Installation"</u>.

NO >> GO TO 6.

6.CHECK GROUND CIRCUIT 2

1. Disconnect power window main switch connector.

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-136, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000005248181

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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:0000000005248182

1. CHECK ENCODER

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

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-31, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

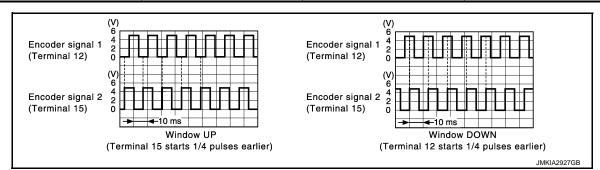
INFOID:0000000005248183

1. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.

2. Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope.

((+)		Oi-mark
Front power window s	switch (passenger side)	(–)	Signal (Reference value)
Connector	Terminal		(
D38	12	Ground	Refer to following signal
D36	15	Giound	Neier to following signal



Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-137, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

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[FRONT & REAR WINDOW ANTI-PINCH]

- Disconnect front power window switch (passenger side) connector and front power window motor (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		Continuity
D38	12	D40	5	Existed
D30	15	540	3	LAISIEU

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

Front power window switch (passenger side)			Continuity	
Connector	Connector Terminal		Continuity	
D38	12	Ground	Not existed	
	15	1	Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCORDER POWER SUPPLY CIRCUIT 1

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK GROUND CIRCUIT 1

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

Front power window mo		Continuity	
Connector Terminal		Ground	Continuity
D40	6		Existed

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to <u>GW-21, "Removal and Installation"</u>. NO >> GO TO 6.

5. CHECK ENCORDER POWER SUPPLY CIRCUIT 2

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

Front power window switch (passenger side)		Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
D38	4	D40	4	Existed

[FRONT & REAR WINDOW ANTI-PINCH]

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

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-137, "Removal and Installa-

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

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

Front power window s	Front power window switch (passenger side)		Front power window motor (passenger side)	
Connector	Terminal	Connector Terminal		Continuity
D38	3	D40	6	Existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-137, "Removal and Installation".

NO >> Repair or replace harness.

REAR LH

REAR LH: Description

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

1. CHECK ENCODER OPERATION

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

Is the inspection result normal?

YES >> Encoder operation is OK.

>> Refer to PWC-33, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

1. CHECK ENCODER SIGNAL

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

(+)			Signal (Reference value)
Rear power window switch LH		(–)	
Connector	Terminal		,
D57	12	Ground	Refer to following signal
D31	15	Giodila	Trefer to following signal

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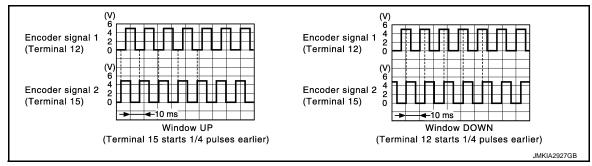
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Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-138, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

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

Rear power w	indow switch LH	Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D57	12	D52	5	Existed
<i>D31</i>	15		6	LXISIEU

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

Rear power window switch LH			Continuity	
Connector	Terminal	Ground	Continuity	
D57	12	Ground	Not existed	
	15	1	INOL EXISTED	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCORDER POWER SUPPLY CIRCUIT 1

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK GROUND CIRCUIT 1

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

Rear power window motor LH			Continuity
Connector	Terminal	Ground	Continuity
D52	4		Existed

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

Is the inspection result normal?

YES >> Replace rear power window motor LH. Refer to <u>GW-27</u>, "<u>Removal and Installation</u>".

NO >> GO TO 6.

5. CHECK ENCORDER POWER SUPPLY CIRCUIT2

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

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

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

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

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-138, "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

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

Rear power window switch LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D57	3	D52	4	Existed

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-138, "Removal and Installation".

NO >> Repair or replace harness.

REAR RH

REAR RH: Description

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

1. CHECK ENCODER OPERATION

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

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-35, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

1. CHECK ENCODER SIGNAL

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

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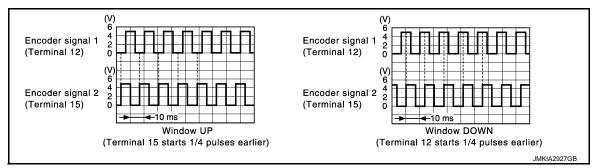
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[FRONT & REAR WINDOW ANTI-PINCH]

(+) Rear power window switch RH		(-)	Signal (Reference value)
Connector	Terminal		(11010101100 10100)
D77	12	Ground	Refer to following signal
	15		



Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-138, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

Turn ignition switch OFF.

2. Disconnect rear power window switch RH connector and rear power window motor RH connector.

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

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

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

Rear power window switch RH			Continuity
Connector	Terminal	Ground	Continuity
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.

(+) Rear power window motor RH		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ ipprox.)	
D72	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

4. CHECK GROUND CIRCUIT 1

1. Turn ignition switch OFF.

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

Rear power window motor RH			Continuity
Connector	Terminal	Ground	Continuity
D72	4		Existed

Is the inspection result normal?

YES >> Replace rear power window motor RH. Refer to <u>GW-27</u>, "Removal and Installation".

NO >> GO TO 6.

5. CHECK ENCORDER 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 wi	ndow switch RH	Rear power wi	ndow motor RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D77	4	D72	2	Existed

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

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

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-138, "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

1. Disconnect rear power window switch RH harness connector.

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

Rear power wi	ndow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D77	3	D72	4	Existed

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-138, "Removal and Installation".

NO >> Repair or replace harness.

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DOOR KEY CYLINDER SWITCH

Description INFOID:0000000005248190

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:0000000005248191

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-III. Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	Condition		
KEY CYL LK-SW	Lock	: ON	
RET GTE ER-GW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
RETUTE OIN-SW	Neutral / Lock	: OFF	

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to PWC-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005248192

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

(+) Front door lock assembly (driver side) (key cylinder switch)		(-)	Voltage (V) (Approx.)	
Connector	Terminal			
D15	5	Ground	5	
	6	Ground	3	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SWITCH CIRCUIT

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

Power window main switch		Front door lock assembly (driver side) (key cylinder switch)		Continuity
Connector	Terminal	Connector	Terminal	
	4	D15	6	Existed
D0	6	D13	5	LXISIEG

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			Continuity
Connector	Terminal	Ground	Continuity
D8	4	Giouna	Not existed
Do	6		NOT existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-136, "Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ 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 s	side) (key cylinder switch)		Continuity
Connector Terminal		Ground	Continuity
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-39, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to <u>DLK-269</u>, "<u>DOOR LOCK</u>: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

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).

Front door lock ass	Front door lock assembly (driver side) (key cylinder switch)			Continuity
Connector	Terminal		Key position	Continuity
	D15 6	- 4	Unlock	Existed
D15			Neutral / Lock	Not existed
D13			Lock	Existed
			Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

Revision: 2009 August

NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to <u>DLK-269</u>, "<u>DOOR LOCK</u>: Removal and Installation".

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INFOID:0000000005248193

2010 FX35/FX50

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

INFOID:0000000005248194

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

POWER WINDOW MAIN SWITCH: Component Function Check

INFOID:0000000005248195

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(III) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <u>DLK-53</u>, "DOOR LOCK: <u>CONSULT-III Function</u> (<u>BCM - DOOR LOCK</u>)".

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK 3W	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK 3W	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-40, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000005248196

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check signal between power window main switch harness connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".
- Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".

Power window Connector	main switch Terminal	(–)	Signal (Reference value)
D8	14	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

YES >> Replace power window main switch. Refer to <u>PWC-136</u>, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK CIRCUIT

Disconnect BCM connector.

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

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

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Description

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

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT-III

Monitor item	(Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK 3W	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to <u>PWC-42</u>, "<u>FRONT POWER WINDOW SWITCH (PASSENGER SIDE)</u>: <u>Diagnosis Procedure</u>".

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

FOID:0000000005248199

INFOID:0000000005248200

1.check power window switch input signal

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".
- 4. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".

(+) Front power window switch (passenger side)		(–)	Signal (Reference value)
Connector	Terminal		
D38	16	Ground	(V) 15 10 10 10 ms JPMIA0013GB

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-137, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

В	ВСМ		witch (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	132	D38	16	Existed

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

REAR LH

REAR LH: Description

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

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

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

REAR LH: Component Function Check

INFOID:0000000005248201

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1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <u>DLK-53</u>, "DOOR LOCK: <u>CONSULT-III Function</u> (BCM - DOOR LOCK)".

Monitor item	C	ondition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDI TINI OCK SW	LOCK	: OFF	
CDL UNLOCK SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-43, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

INFOID:0000000005248202

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH connector.
- 3. Check signal between rear power window switch LH harness connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".
- 4. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".

(+) Rear power wind	Rear power window switch LH		Signal (Reference value)
Connector	Terminal		
D57	16	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-138, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

В	CM	Rear power wi	ndow switch LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	132	D57	16	Existed

3. Check continuity between BCM harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

REAR RH

REAR RH: Description

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:0000000005248204

INFOID:0000000005248203

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <u>DLK-53</u>, "DOOR LOCK: <u>CONSULT-III Function</u> (BCM - DOOR LOCK)".

Monitor item	C	ondition	
CDL LOCK SW	LOCK	: ON	
CDE LOCK 3W	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-44, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

INFOID:0000000005248205

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH connector.
- 3. Check signal between rear power window switch RH harness connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".
- 4. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".

< DTC/CIRCUIT DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

(+) Rear power wind Connector	low switch RH Terminal	(-)	Signal (Reference value)
D77	16	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-138, "Removal and Installation".

NO >> GO TO 2.

2.check power window serial link circuit

1. Disconnect BCM connector.

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

В	CM	Rear power wi	Continuity		
Connector	Terminal	Connector	Connector Terminal		
M123	132	D77	16	Existed	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

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[FRONT & REAR WINDOW ANTI-PINCH]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
TIX WIF LIX III	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
PR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
TR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
ED WIDED OTOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
KK WIFEK ON	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
KK WIPEK IINI	Rear wiper switch INT	On
DD WACHED CW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
KK WIFEK STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TURN SIGNAL K	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TORN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAIVIP SVV	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAW 3VV	Lighting switch HI	On
HEAD LAMD CW 1	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
HEAD LAIVIF 3VV 2	Lighting switch 2ND	On
DACCING CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status	_
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off	_
DOOD SW DD	Driver door closed	Off	_
DOOR SW-DR	Driver door opened	On	_
DOOD SW AS	Passenger door closed	Off	_
DOOR SW-AS	Passenger door opened	On	_
DOOR SW-RR	Rear RH door closed	Off	_
DOOR SW-RR	Rear RH door opened	On	_
DOOR SW-RL	Rear LH door closed	Off	_
DOOK SW-KL	Rear LH door opened	On	_
DOOR SW-BK	Back door closed	Off	_
DOOR SW-BK	Back door opened	On	_
	Other than power door lock switch LOCK	Off	_
CDL LOCK SW	Power door lock switch LOCK	On	_
	Other than power door lock switch UNLOCK	Off	_
CDL UNLOCK SW	Power door lock switch UNLOCK	On	_
ZEV CVI LIZ CW	Other than driver door key cylinder LOCK position	Off	_
KEY CYL LK-SW	Driver door key cylinder LOCK position	On	_
ZEV OVI LINI OVI	Other than driver door key cylinder UNLOCK position	Off	_
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On	_
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	_
HAZARD SW	Hazard switch is OFF	Off	
HAZARD SW	Hazard switch is ON	On	_
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off	P
TR/BD OPEN SW	Back door opener switch OFF	Off	
IIVBD OF LIN SW	While the back door opener switch is turned ON	On	
TRNK/HAT MNTR	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	_
ANL-UINLUUK	UNLOCK button of the Intelligent Key is pressed	On	_
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off	
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off	_
AINE-FAINIU	PANIC button of the Intelligent Key is pressed	On	_
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off	<u> </u>
NNE-F/W OPEN	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	_
ODTICAL SENCOD	Bright outside of the vehicle	Close to 5 V	_
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	_

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
ILQ SW -DIX	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
REQ SW -AS	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	Back door request switch is not pressed	Off
REQ 3W -DD/TR	Back door request switch is pressed	On
DUCH CW	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
ION DIVO E/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
DDAKE OM 4	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DDALKE OW O	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
	Selector lever in P position	Off
DETE/CANCL SW	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
0.11.0014	Steering is unlocked	Off
S/L -LOCK	Steering is locked	On
	Steering is locked	Off
S/L -UNLOCK	Steering is unlocked	On
	Ignition switch in OFF or ACC position	Off
S/L RELAY-F/B	Ignition switch in ON position	On
	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status	_
	Engine stopped	Stop	
ENCINE STATE	While the engine stalls	Stall	
ENGINE STATE	At engine cranking	Crank	
	Engine running	Run	
C/L L COL/ IDDM	Steering is unlocked	Off	
S/L LOCK-IPDM	Steering is locked	On	
C/L LINU IZ IDDM	Steering is locked	Off	
S/L UNLK-IPDM	Steering is unlocked	On	
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off	
5/L RELAT-REQ	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On	
VEH SPEED 1	While driving	Equivalent to speed- ometer reading	
VEH SPEED 2	While driving	Equivalent to speed- ometer reading	
	Driver door is locked	LOCK	
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door is unlocked	UNLOCK	
D OK EL AO	Steering is locked	Reset	
D OK FLAG	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	
- IVINI EING STKT	The engine start is permitted	Set	_
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	
VEV SW. SLOT	The Intelligent Key is not inserted into key slot	Off	
KEY SW -SLOT	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	
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_	
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	_
	The key ID that the key slot receives accords with 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	
CONFINIVI 1D4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	_
CONT IIVIVI IDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	
CONTINUIDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	

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< ECU DIAGNOSIS INFORMATION >

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
CONFINITION	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
17 4	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
IFS	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
IP Z	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
IFI	The ID of first Intelligent Key is registered to BCM	Done

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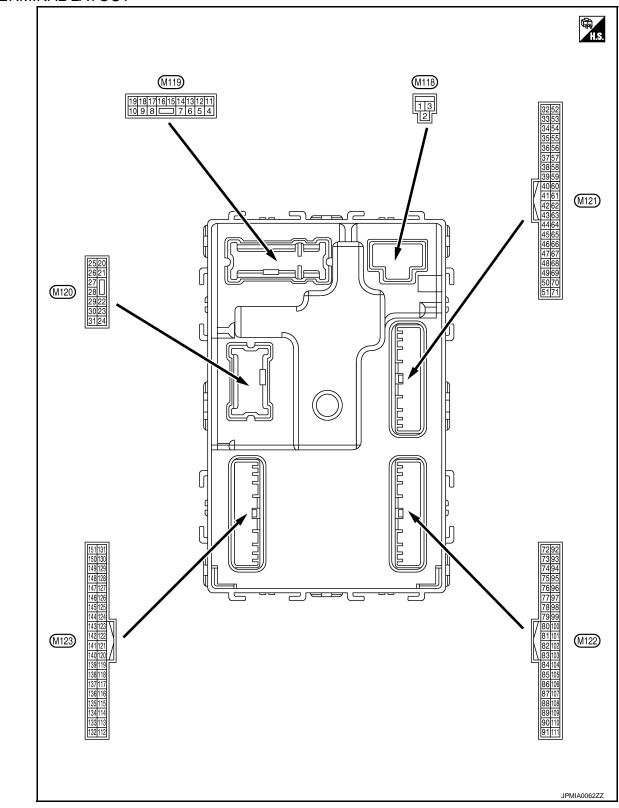
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TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2009 August PWC-51 2010 FX35/FX50

	inal No.	Description				Value			
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)			
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage			
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	12 V			
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V			
		Interior room lamp			battery saver is activated. oom lamp power supply)	0 V			
4 (P)	Ground	power supply (Battery saver signal)	Output	ed.	battery saver is not activat- or room lamp power supply)	12 V			
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	12 V			
(V)	Ground	LOCK	Output	1 asseriger door	Other than UNLOCK (Actuator is not activated)	0 V			
7	Ground	Step lamp	Output	Step lamp	ON	0 V			
(Y)	Ground	Step lamp	Output	Step lamp	OFF	12 V			
8	Ground	All doors, fuel lid LOCK	Output	Output All doors, fuel lid	LOCK (Actuator is activated)	12 V			
(V)	Ground		Output	7 III doors, raci lia	Other than LOCK (Actuator is not activated)	0 V			
9	Ground	Driver door, fuel lid				Output	Driver door, fuel	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	lid	Other than UNLOCK (Actuator is not activated)	0 V			
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	12 V			
(BR)	Ordana	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V			
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage			
13 (B)	Ground	Ground	_	Ignition switch ON		0 V			
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage			
(1)					ACC or ON	0 V			
					Turn signal switch OFF	0 V			
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s			
						6.5 V			

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
+ (VVir	e color)	Signal name	Input/ Output	Condition		(Approx.)	
			• • •		Turn signal switch OFF	0 V	
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
				Other than under	condition	5.0 V	
19 (SB)	Ground	Room lamp timer	Output	(Door is unlocke	mp timer is activated. ed. etc) unction is activated.	0 V	
					Turn signal switch OFF	0 V	
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E	
					Turn signal switch OFF	6.5 V 0 V	
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	6.5 V 0 V	
(P)		•	•		ON (Operated)	12 V	
34	Constitution	Luggage room anten-	Outra	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
34 (SB)	Ground	ground na (–)		ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		Condition		Value	
(Wire	e color)	Signal name	Input/ Output			(Approx.)	
35		Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(V)	Ground	na (+)	Output	Output OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
38	Ground	Ground Back door antenna (- O	Pack door antonna (When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Clound		Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
39	Ground	Back door antenna	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(W)	Glouliu	(+) quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB			
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V	
(Y)	Crodita	E/R) control	Jaipat	-g	ON	0 V	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	
48	Ground	Back door opener	Output	Back door opener	Not pressed	12 V	
(W)	Ground	switch operation	Output	switch	Pressed	0 V	
52	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	12 V	
(LG)	Cround	Clarior rolay control	Output	ON	When selector lever is not in P or N position	0 V	
61 (W)	Ground	Back door opener request switch	Input	Back door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 5 0 JPMIA0016GB	
		Latallia at Karria		Intelligent IZer	Constitution of	1.0 V	
64	Ground	Intelligent Key warn- ing buzzer (Engine	Output	Intelligent Key warning buzzer	Sounding	0 V	
(L)		room)		(Engine room)	Not sounding	12 V	
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB	
					Not in stop position	1.0 V	
00					OFF (Door close)	12 V	
66 (LG)	Ground	Back door switch	Input	Back door switch	ON (Door open)	0 V	
					Pressed	0 V	
67 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB 8.5 - 9.0 V	
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB 8.5 - 9.0 V	
	1	Ì	1	ĺ	ON (Door open)	0 V	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output	Condition		(Approx.)
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) ₁₅ 10 5 0 10 10ms 1 10ms 1 10ms 1 10ms 10ms 10m
					ON (Door open)	0 V
72	Ground	Room antenna 2 (-)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Glodina	(Center console)	(Center console) Output OFF When Inte	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
/3 (G)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		_		Value	٨
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
74		Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Ground	tenna (-)		quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E
75	Ground	Passenger door an-	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15	G H
(BR)	Glound	tenna (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	J L
76	Cround	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	50	M
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10	O

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		0 150		Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
77	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(LG)	Clound	(+)		switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
78	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent 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 Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V
(P)	Giodila	block (J/B)] control	Output	ON		12 V
83 (GR) Ground	Ground	Remote keyless entry receiver communication	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
			Output	When operating of Key	either button on the Intelligent	(V) 15 10 5 1 ms JMKIA0065GB

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVIre	e color)	Signal name	Input/ Output		Condition	(Approx.)
			·		All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
(BR)					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Α.
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	G H
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB	PW(
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M
89	Ground	Push-button ignition	Input	Push-button ignition switch (Push	Pressed	0 V	0
(SB)	Ciound	switch (Push switch)	-	switch)	Not pressed	12 V	
90 (P)	Ground	CAN-L	Input/ Output		_	_	Р
91 (L)	Ground	CAN-H	Input/ Output		_	_	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	12 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB 6.5 V
					ON	0 V
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(•)					ON or ACC	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Ground	7.00 Telay control	Output	igilition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		<u> </u>	12 V
97	0	Steering lock condi-	1	Otro de la la el	LOCK status	0 V
(L)	Ground	tion No. 1	Input	Steering lock	UNLOCK status	12 V
98	Crownd	Steering lock condi-	lanus	Steering lock	LOCK status	12 V
(P)	Ground	tion No. 2	Input	Otechnig lock	UNLOCK status	0 V
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)	Ground	tion switch	прис	Selector level	Any position other than P	12 V
					ON (Pressed)	0 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102		Blower fan motor re-			OFF or ACC	1.0 V 0 V
(O)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	12 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wir	e color)	Signal name	Input/ Output		Condition	value (Approx.)	
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V 0 V	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	Turn signal switch RH	(V) 15 10 2 ms JPMIA0036GB	
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0036GB
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
+ (VVir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	15 10 5 0 2 ms	B C
					Lighting switch PASS	10 5 0 2 ms JPMIA0037GB 1.3 V	E F
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15	G H
					Front wiper switch INT/ AUTO	15 10 5	J PWC
					Front wiper switch HI	50	M N
					ON		0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Ρ

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Volue
	e color)	Signal name	Input/		Condition	Value (Approx.)
	_		Output		LOCK status	12 V
111 (GR)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 JPMIA0156GB 8.7 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ordana	Option concor	mpac	ON	When dark outside of the vehicle	Close to 0 V
116 (BR)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118		Stop lamp switch 2 (Without ICC)	Stop lamp switch	OFF (Brake pedal is not depressed) ON (Brake pedal is depressed)	0 V Battery voltage	
(P)	Ground	Stop lamp switch 2	Input	Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V
		(With ICC)			ON (Brake pedal is de- rake 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)	(V) ₁₅ 10 5 0 **10ms JPMIA0594GB 8.5 - 9.0 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121				When the Intellige	nt Key is inserted into key slot	12 V
(BR)	Ground	Key slot switch	Input	When the Intelliger	nt Key is not inserted into key	0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(**)					ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

124 Ground Passenger door switch Input Passenger door switch Input		inal No.	Description				Value	
124 (LG) Ground Passenger door switch Input Passenger door switch Input Passenger door switch Input		e color)	Signal name			Condition		1
132 Ground Power-window switch Input Ignition switch ON Ignition switch ON Ignition switch OFF or ACC 12 V 134 Ground LOCK indicator lamp Output Ignition switch OFF or ACC 12 V 137 Ground Ground Ground Ground Ground Input Ignition switch ON OV 138 Ground Ground Ground Ground Ground Input Ignition switch ON OFF OV 140 Ground Ground Ground Ground Ground Input Ignition switch ON ON OV 141 Ground Ground Ground Ground Ground Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON ON Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON ON Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON ON Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON OFF ON Input Ignition switch ON Input Ignition switch ON ON Input Ignition switch ON Input Ignition switch ON OFF Input Ignition switch ON Input Ignition switch ON OFF Input Ignition switch ON		Ground		Input		OFF (Door close)	10 5 0 *********************************	(
132 Ground Power window switch Input Ignition switch ON Input Ignition switch ON Input Ignition switch OFF or ACC 12 V 134 (GR) Ground Receiver and sensor ground Input Ignition switch ON OV 137 (B) Ground Sensor power supply Output Ignition switch ON OFF OV 140 (R) Ground Ground Ground Ground Selector lever P/N position Input Input Selector lever P/N position Input Selector lever P/N Output Input Selector lever P/N ON OV 141 (G) Ground Gr						ON (Door opene)	0 V	
Ignition switch OFF or ACC 12 V		Ground			Ignition switch ON		15 10 5 0 10 ms JPMIA0013GB	
134 Ground LOCK indicator lamp Output LOCK indicator lamp ON OV 137 Ground Receiver and sensor ground Input Ignition switch ON OV 138 Ground Sensor power supply Output Ignition switch ON OFF OV 140 Ground Receiver P/N position Input Ignition switch ON OFF ACC or ON 5.0 V 140 Ground Selector lever P/N position Input Selector lever ON OV 141 Girch Ground G					Ignition switch OFF or ACC			
GR Ground COCK Indicator lamp Output lamp ON	134					1		
Ground G		Ground	LOCK indicator lamp	Output		ON		
Ground Ground Genome G		Ground		Input	Ignition switch ON		0 V	
ACC or ON ACC or ON Solector lever P/N position Selector lever P/N position Input Selector lever Por N position 12 V Except P and N positions ON ON ON ON OFF 11.3 V OFF 12 V All switches OFF Uphthodol/4GB 11.3 V OTH Combination switch OUTPUT 5 Output Output Output Combination switch OUTPUT 5 Output Output ACC or ON 5.0 V Por N position 12 V Except P and N positions OV ON ON OV Input Selector lever Except P and N positions OV ON ON ON OV Input Selector lever Combination Suitch (Wiper intermittent dial 4) Turn signal switch RH Input Selector lever Input Selector le		Ground	Sensor nower supply	Output	lanition switch	OFF	0 V	
Combination switch Output Combination switch	(Y)	Orouna	Oction power supply	Output	ignition switch			
ON 0 V Security indicator Output Security indicator ON 0 V Blinking OFF 12 V All switches OFF 0 V Lighting switch 1ST Lighting switch HI Lighting switch PH Turn signal switch RH JPMIA0031GB		Ground		Input	Selector lever	*		
Ground Security indicator Output Security indicator Blinking Security indicator Blinking OFF 11.3 V OFF 12 V All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch HI Lighting switch 2ND Turn signal switch RH JPMIA0031GB	(K)		position					
All switches OFF Lighting switch 1ST Lighting switch HI Switch Switch HI Lighting switch 2ND Output Turn signal switch RH Output Turn signal switch RH		Ground	Security indicator	Output	Security indicator		(V) 15 10 5 0 JPMIA0014GB	P
142 (O) Ground Combination switch OUTPUT 5 Output Combination switch OUTPUT 5 Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH Duby 15 Turn signal switch RH								
JPMIA0031GB		Ground		Output	switch (Wiper intermit-	Lighting switch 1ST Lighting switch HI Lighting switch 2ND	(V) 15 10 5 0	(
40.71/							JPMIA0031GB 10.7 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				V-I
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
143	Ground	Combination switch	Output	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5
(P)	Ground	OUTPUT 1	Output	switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	5 0 2 ms 10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
144	Ground	Combination switch OUTPUT 2	Output	Combination switch	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10
(G)					Rear washer switch ON (Wiper intermittent dial 4)	0
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB
-					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145	0	Combination switch	0	Combination switch	Front wiper switch LO	15 10 5
(L)	Ground	OUTPUT 3	Output	(Wiper intermit- tent dial 4)	Lighting switch AUTO	0
						10.7 V
					All switches OFF	0 V
					Front fog lamp switch ON	(V)
4.40			Output	Combination	Lighting switch 2ND	15
146 (SB)	Ground	Combination switch OUTPUT 4		switch (Wiper intermit-	Lighting switch PASS	5 0
, ,				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Terminal No.		Description				Value
(Wire color)		Signal name	Input/ Output	Condition		(Approx.)
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window de- fogger	Active	0 V
					Not activated	Battery voltage

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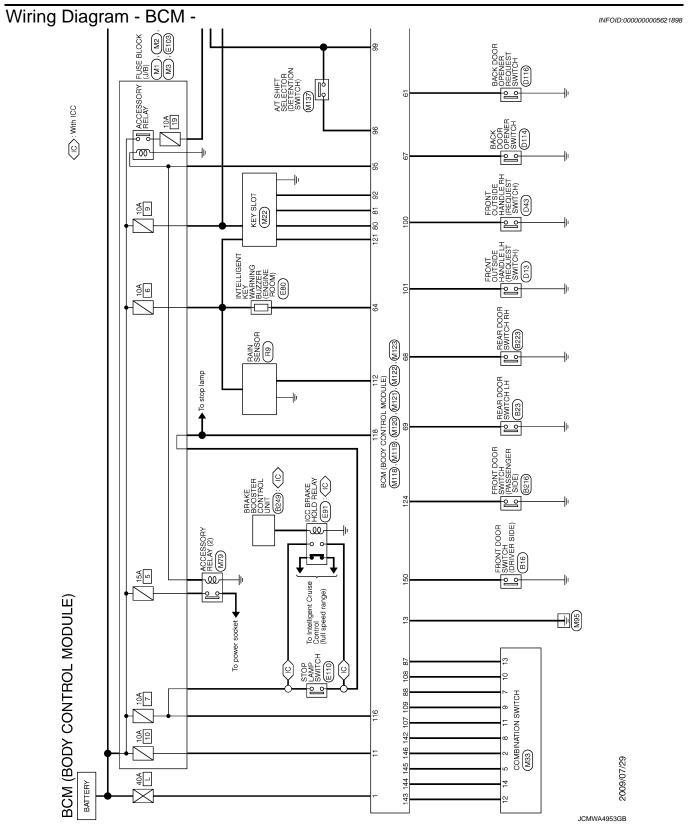
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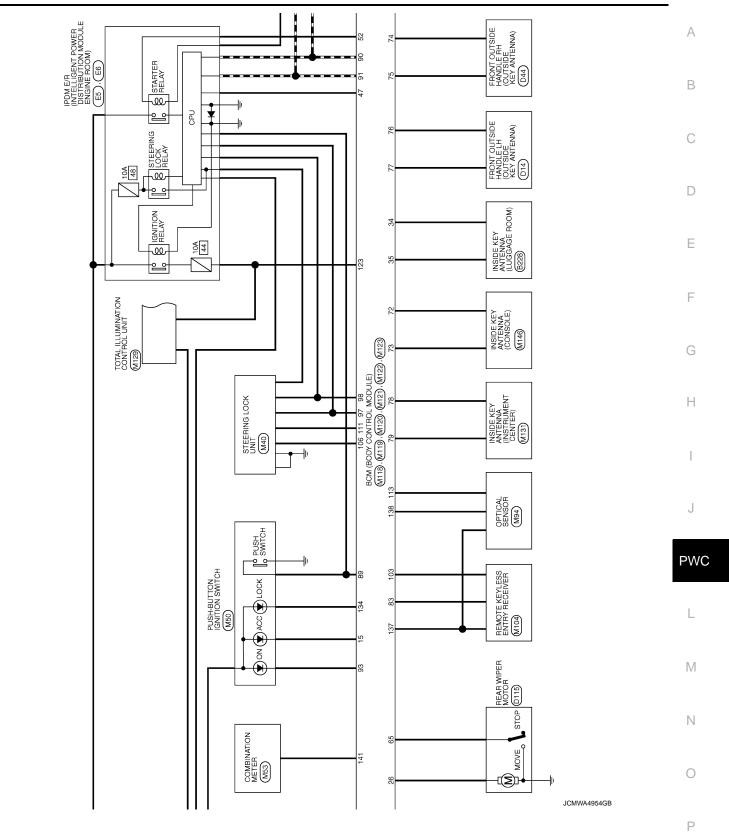
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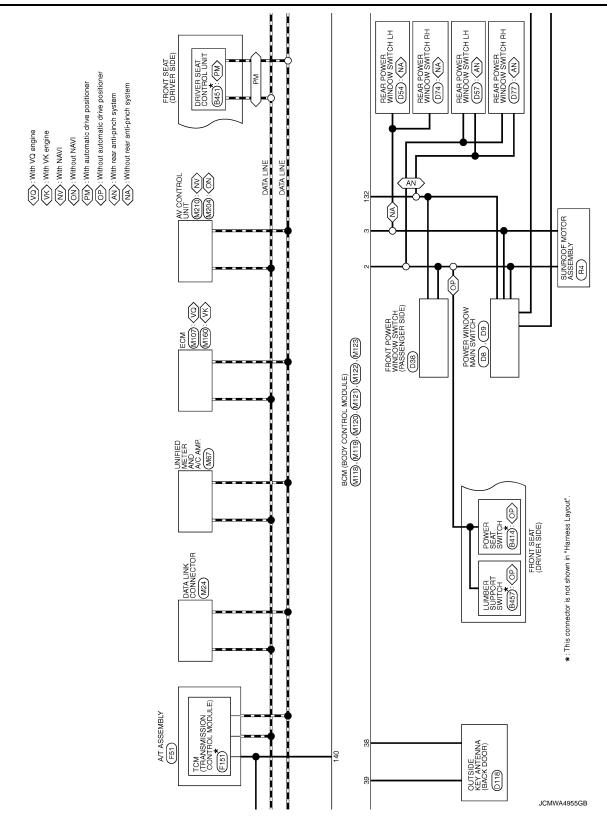
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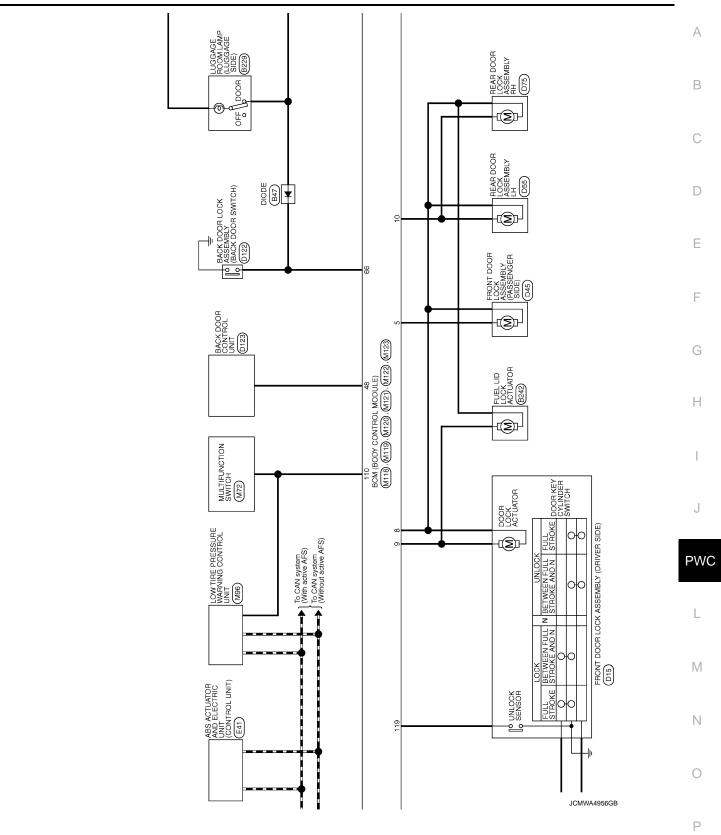
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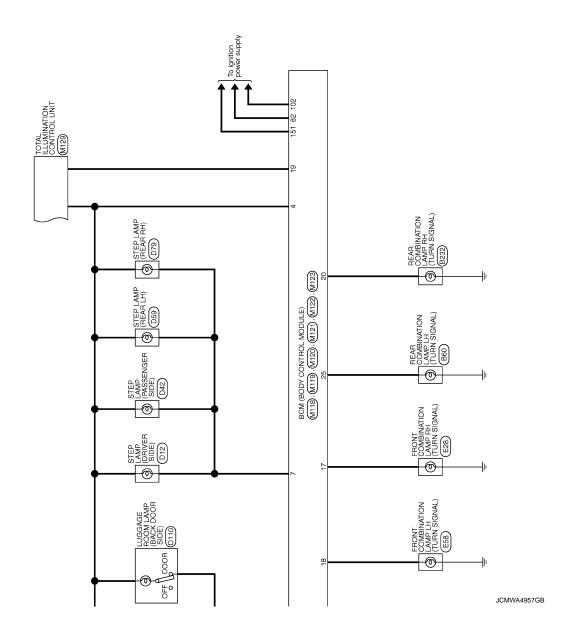




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[FRONT & REAR WINDOW ANTI-PINCH]



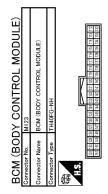


[FRONT & REAR WINDOW ANTI-PINCH]

ATIGATIS NOTE	A
NATS ANT AMP (IGH RELVY (F.R.) CONT KEYLESS EIN TRY RECEIVER SIGNAL COMBIS SWI INPUT 3 COMBIS SWI INPUT 3 COMBIS SWI INPUT 3 COMBIS SWI INPUT 3 CAN'-L CAN'-L	В
	С
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MI21 THAGFGY-NH THAGFGY-NH THAGFGY-NH THAGFGY-NH THAGFGY-NH Signal Name [Specification] LUGGAGE ROOM ANT- BACK DOOR OFFIRE REQUEST SW I-KEY WARN BLAZZER (ENG ROOM) REAR WHER STOP POSITION BACK DOOR SW TRAR THI DOOR SW TRAR THI DOOR SW REAR THI DOOR SW REAR THI DOOR SW REAR THI DOOR SW THAGFE-NH THAGFE-NH	Signal Name (Spe ROOM AN ROOM AN ROOM AN ROOM AN ROOM AN
	S S S S S S S S S S
Connector No.	Terminal To 12 12 12 12 12 12 12 12 12 12 12 12 12
NISTBEW-CS	Z7 22 23 24 Z7 28 29 30 31 Z7 28 29 30 31 TURN SIGNAL RH (REAR) TURN SIGNAL LH (REAR) REAR WIPER OUTPUT
10 10 10 10 10 10 10 10	Signal Mann Signal Mann Turk Sign Turk Signal Mann Turk S
Color Name Color Col	Torminal 1
	n) LY (BAT) LY (RAP)
Connector Name	Signal Name [Specification] BAT (F/L) POWER WINDOW POWER SUPPLY (RAP) POWER WINDOW POWER SUPPLY (RAP)
NO NO NO NO NO NO NO NO	
BCM (BOE	H.S. No. 1
	JCMWA4958GB

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Terminal No.	Color of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	Ь	OPLICAL SENSOR
116	ВR	STOP LAMP SW 1
118	d	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	M	IGN F/B
124	97	PASSENGER DOOR SW
132	0	POWER WINDOW SW COMM
134	ЯĐ	LOCK IND
137	8	RECEIVER/SENSOR GND
138	Υ	SENSOR POWER SUPPLY
140	٣	SHIFT N/P
141	5	SECURITY INDICATOR OUTPUT
142	0	COMBI SW OUTPUT 5
143	Ь	COMBI SW OUTPUT 1
144	5	COMBI SW OUTPUT 2
145	٦	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	5	REAR WINDOW DEFOGGER RELAY CONT

JCMWA4959GB

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FAIL-SAFE CONTROL BY DTC

Fail-safe

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

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
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 \rightarrow OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

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< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) 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 • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	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
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow ON and front wiper switch is INT position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

- 2. Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

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	U1000: CAN COMM U1010: CONTROL UNIT(CAN)	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	
4	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2600: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2607: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2600: IGNITION RELAY B2609: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2607: SATE SIG LOST B2612: S/L STATUS B2612: S/L STATUS B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2616: BCM B2619: BCM B2619: BCM B2619: VEHICLE TYPE B262: KEY REGISTRATION U0415: VEHICLE SPEED SIG 	
5	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

DTC Index

INFOID:0000000005621901

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 <u>BCS-17, "COM-MON ITEM"</u>.

[FRONT & REAR WINDOW ANTI-PINCH]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM	_	_	_	BCS-35
U1010: CONTROL UNIT(CAN)	_	_	_	BCS-36
U0415: VEHICLE SPEED SIG	_	_	_	BCS-37
B2013: ID DISCORD BCM-S/L	×	×	_	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	_	SEC-51
B2190: NATS ANTENNA AMP	×	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	PCS-50
B2555: STOP LAMP	_	×	_	SEC-54
B2556: PUSH-BTN IGN SW	_	×	×	SEC-56
B2557: VEHICLE SPEED	×	×	×	SEC-58
B2560: STARTER CONT RELAY	×	×	×	SEC-59
B2562: LOW VOLTAGE	_	×	_	BCS-38
B2601: SHIFT POSITION	×	×	×	SEC-60
B2602: SHIFT POSITION	×	×	×	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	<u>SEC-65</u>
B2604: PNP SW	×	×	×	SEC-68
B2605: PNP SW	×	×	×	SEC-70
B2606: S/L RELAY	×	×	×	SEC-72
B2607: S/L RELAY	×	×	×	SEC-73
B2608: STARTER RELAY	×	×	×	SEC-75
B2609: S/L STATUS	×	×	×	SEC-77
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	_	×	×	SEC-81
B260C: STEERING LOCK UNIT	_	×	×	SEC-82
B260D: STEERING LOCK UNIT	_	×	×	SEC-83
B260F: ENG STATE SIG LOST	×	×	×	SEC-84
B2612: S/L STATUS	×	×	×	<u>SEC-88</u>
B2614: ACC RELAY CIRC	_	×	×	PCS-54
B2615: BLOWER RELAY CIRC		×	×	PCS-56
B2616: IGN RELAY CIRC	_	×	×	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	SEC-92
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	<u>SEC-94</u>
B261A: PUSH-BTN IGN SW	_	×	×	SEC-95
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	<u>SEC-98</u>

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B2621: INSIDE ANTENNA	_	×	_	DLK-61
B2622: INSIDE ANTENNA	_	×	_	DLK-63
B2623: INSIDE ANTENNA	_	×	_	DLK-65
B26E7: TPMS CAN COMM	_	_	_	BCS-39
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-86
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	SEC-87

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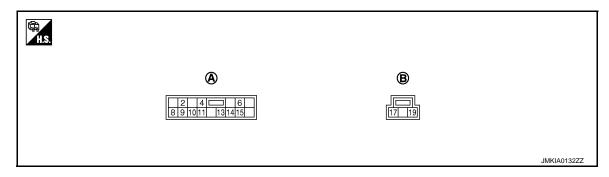
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Reference Value

TERMINAL LAYOUT



A. D8 B. D9

PHYSICAL VALUES POWER WINDOW MAIN SWITCH

	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
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 window motor UP signal	Output	When front LH switch in power window main switch is operated UP	Battery voltage
9 (W)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms
				IGN SW ON	Battery voltage
10	Ground	Retained power signal	Input	Within 45 second after ignition switch is turned to OFF	Battery voltage
(O)				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 operated DOWN	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

	nal No. color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
13 (P)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB
14 (V)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 10 10 ms JPMIA0013GB
15 (W)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	Battery voltage
17 (B)	Ground	Ground	_	_	0
19 (Y)	Ground	Battery power supply	Input	_	Battery voltage

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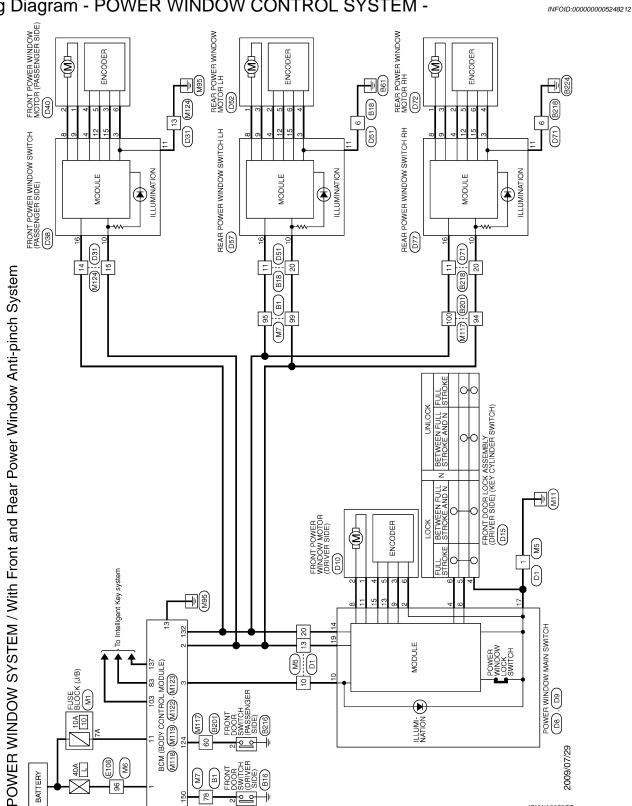
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JCKWA3050GB

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -



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Revision: 2009 August **PWC-85** 2010 FX35/FX50

POWER WINDOW SYSTEM / With Front and Rear Power Window Anti-pinch System	86	66		- [Without ICC]		Connector No. B216	- [With IGC]	Connector Ivame	- [With ICC] Connector Type A03FW		- [With ICC]	- [Without ICC]		- [Without ICC]			L	æ				Connoctor No Data	Τ	Connector Name MIRE TO WIRE	- Connector Type NH10FW-CS10	1		- A B B B B B B B B B B B B B B B B B B	y + 	. 13 12 11 10 9			Torminal		- 2 GR -		- A A	- 2 SB	9	5 8	H	- 12 LG -	13 Р	- 17 SB -	- 18 BR -	- 19 BR -		- 20 LG -
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[FRONT & REAR WINDOW ANTI-PINCH]

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Revision: 2009 August PWC-87 2010 FX35/FX50

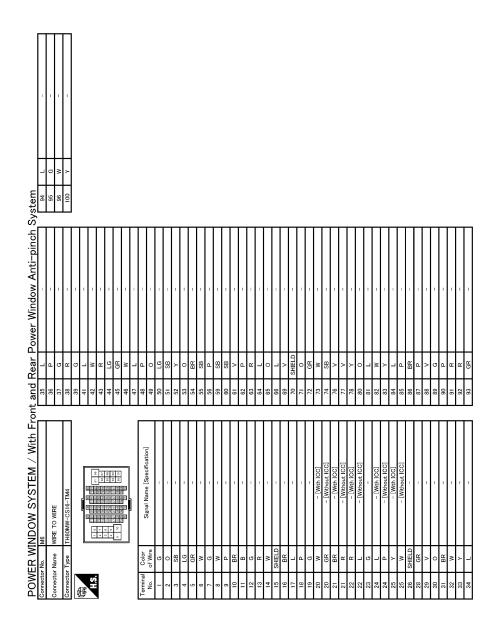
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[FRONT & REAR WINDOW ANTI-PINCH]

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Revision: 2009 August **PWC-89** 2010 FX35/FX50



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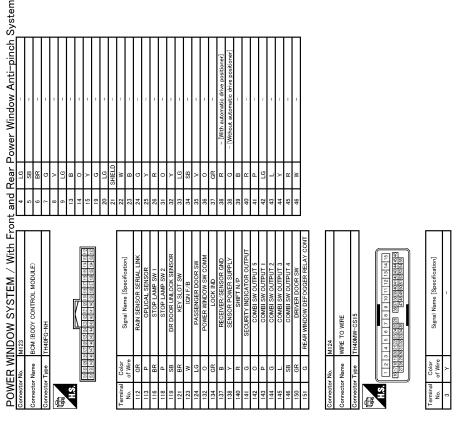
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Revision: 2009 August PWC-91 2010 FX35/FX50

19 SB ROOM LAMP TIMER	Connector No. M122 Connector Name RCM RODY CONTROL MODILE)	П	香	H.S.	91 91 91 89 88 87 88 85 84 80 88 81 90 79 78 77 87 77 87 72 72 72 72 72 72 72 72 72 72 72 72 72			Terminal Color	No. of Wire Signal Name [Specification]	α	9	SB	75 BR PASSENGER DOOR ANT+		2 >	79 BR ROOM ANT1+	80 GR NATS ANT AMP.	Μ	۵	GR KEYLES	8/ BK COMBI SW INPUL 3		3 a	91 L CAN-H	LG KE	>	+	90 GR AZI SHIFTI SELECTOR POWER SUPPLY	J 0.	œ	100 G PASSENGER DOOR REQUEST SW	SB	0	BR KEYLESS	N.S.	10/ LG COMBLSW INPULT	£ >-	ŋ	S	
> 0 0	Н	100 Y -	Connector No. M118	Connector Name BCM (BODY CONTROL MODILIE)		đ	(Mary)	Ġ.		7		ŀ	Terminal Color Signal Name [Specification]	t	POWER WINDO	3 O POWER WINDOW POWER SUPPLY (RAP)		-	Connector No. MII9	Connector Name BCM (BODY CONTROL MODULE)	Commonder Time MOTORIM OF	ector lybe	· ·	[]	4 5 6 7 0 8 9 10	11 12 13 14 15 16 17 18 19			Terminal Color	of Wire	4 P INT ROOM LAMP PWR SUPPLY (BAT SAVE)	5 V PASSENGER DOOR UNLOCK OUTPUT	>	>	G DRIVE	10 BK REAK DOOK UNLOCK OUTPUT	2 00	H	17 W TURN SIGNAL RH (FRONT)	18 O TURN SIGNAL LH (FRONT)
Front and Rear Power Window Anti-pinch System 42 V - With IGG 95 95	ιωα	J ©	46 O - [With ICC] 46 SHIELD - [Without ICC]	7	47 B - [Without ICC] 48 P - [With ICC]	В	49 G – [With ICC]	SHIELD	Н	H	G	+	- S	+	╀	63 V -	Н	\perp	\dashv	+	<u></u>	21 SBS	╁	73 V -	P7	œ	75 BR – [With VQ engine]	7 27	╀	H	82 Y -	83 0 -		4	+	- 16 - 16	- 66	- C	H	94 O – [With VQ engine]
POWER WINDOW SYSTEM / With Front Gomester No. MI17 Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4					Terminal Color Signal Name [Specification]		2 - 2 BB	3 V =	Ĩ	-	+	M ≥ ∞	╀	╁	13 SHIELD -	14 L	15 P –	16 SHIELD –	- X 21	+	20 SB	+	H	- GR	*	> 0	24 M - [Without entertainment system]	SHIELD	ď	SB	П	Υ.	_	+	31 W W	╀	H	41 SB – [With ICC]	41 Y – [Without ICC]

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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.

[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 mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP or DOWN for the specified value or more without fully closing door glass (approximately 10 time or more).

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

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

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

FRONT POWER WINDOW SWITCH

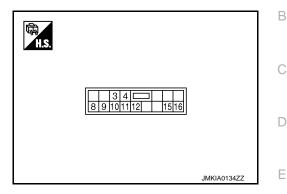
< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES FRONT POWER WINDOW SWITCH

Terminal No. Description (wire color) Voltage [V] Condition (Approx.) Input/ Signal name Output 3 Ground Encoder ground 0 (LG) When ignition switch ON or Ground Encoder power supply Output Battery voltage (W) power window timer operates 8 Power window motor When power window motor is Ground Output Battery voltage (L) **UP** signal operated UP Power window motor When power window motor is Ground Output Battery voltage operated DOWN (G) DOWN signal 10 Ground Battery power supply Input Battery voltage (Y) 11 Ground Ground 0 (B) 12 When power window motor Ground Encoder pulse signal 1 Input (P) operates

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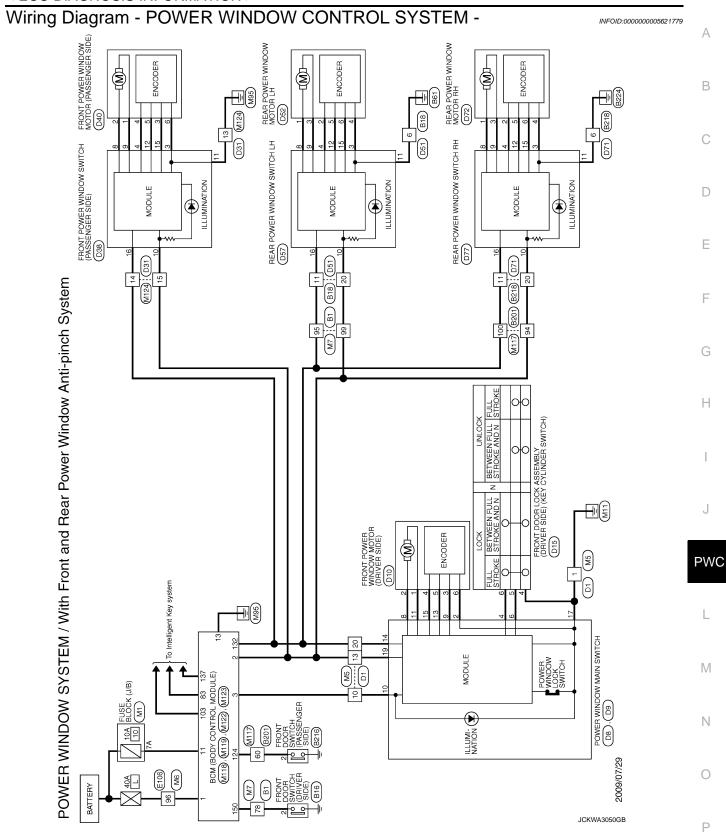
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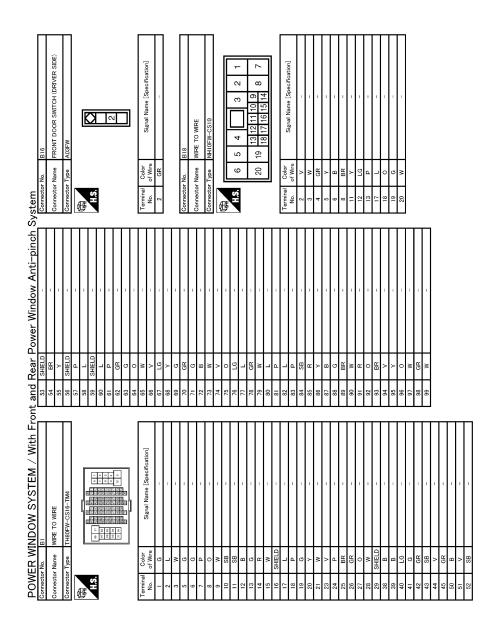
FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

	nal No. color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
15 (R)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB
16 (V)	Ground	Power window serial link	Input/ Output	When ignition switch ON or power window timer operates	(V) 15 10 5 0 10 ms JPMIA0013GB





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Connector No. Connector Name Connector Type	r No.	B201	41	+	>	DAMAGO: + IOOT	97	+	_
Connecto		550				- [without ICC]			
Connecto	w Mama	DAMPE TO WIDE	42		^	- [With ICC]	98	0	-
Connecto	or Name	WIRE TO WIRE	45	L	W	- [Without ICC]	66	L	1
曆	r Type	TH80FW-CS16-TM4	43	H	BR	- [Wrth ICC]	100	≻	1
厚			43	H	8	- [Without ICC]			
Į		40	44	H	В	1			
2			45		b		Conne	Connector No.	B216
		2 2 2	46		0	- [With ICC]	d		(Total professional) increase according
		8 8 8 8 8 8 8 8 8 8 8 8	46	H	SHIELD	- [Without ICC]	3	ctor Name	FRON LOUDE SWILCH (PASSENGER SIDE)
			47	L		- [With ICC]	Conne	Connector Type	A03FW
			47	H	В	- [Without ICC]			
			48	┞	<u>a</u>	- [With ICC]	F	_	E
Terminal	Color	3	48	L	~	- [Without ICC]		2	<u> </u>
Š	_	Signal Name [Specification]	49	H	9	- [With ICC]		7	
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4	SS	1	52	ŀ	~	1]
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12	œ	1	62	+	0	I	Conne	Connector Type	NH10FW-CS10
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50	SB	1	17	\dashv	SB	1		i	13 12 11 10 9
21	ΓG	1	72		^	1		20	17 16 15
22	В	[With entertainment system]	73	Н	FG	-			41 (01 01 71 01
22	GR	 [Without entertainment system] 	74	-	W	-			
23	W	- [With entertainment system]	75		BR	_	Terminal	_	Signal Nama [Spacification]
23	LG	 [Without entertainment system] 	76		^	_	No.	of Wire	
24	٣	- [With entertainment system]	7.7	Н	LG L	-	2	GR	-
24	W	-	80	_	0	-	က	Μ	-
22	SHIELD	 [With entertainment system] 	81		g	-	4	ч	-
25	>	 [Without entertainment system] 	82		Ь	-	2	SB	_
56	SB	-	83		٨	-	9	В	-
27	>	-	84		~	1	80	5	1
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30	۵	ı	87	H		1	13	H	1
31	Μ	1	91	L	>	1	17	g	1
32	GR	1	92		W	1	18	æ	П
33	SB	ı	93	-	α	1	19	H	1
40	9	- [With ICC]	94	H	91	1	20	┝	1
40	>	- [Without ICC]	95	H	GR	1		┨	
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Connector No. D31 Connector Name WIRE TO WIRE Connector Type TH40FW-CS15	(E) 14 13 12 11 10 5 18 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Terminal Color Signal Name [Specification] 3 P	20	++++	21 SHELD 22 W 23 BR 24 L 25 Y 26 R	32 R. 33 SB 7	2
System Terminal Color Signal Name [Specification] 17 B - 19 Y -	Connector Nume FRONT POWER WINDOW MOTOR (DRAVER SIDE) Connector Type NSO/6FW-CS	H.S. 11 2 3 4 5 6	Terminal Color Signal Name [Specification] 1	 	Connector No. D15 Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) Connector Type ED6FGY-RS	(123456)	Terminal Color Signal Name Specification Off Wire L/G
<u> </u>	Connector No. D8 Connector Name POWER WINDOW MAIN SWITCH	Connector Type NS16FW-CS	1 2 3 4 5 6 7 8 9 10 11 13 14 15	Terminal Golor Signal Name [Specification]	CHY	10 0 0 11 10 11 12 12 13 14 14 14 15 15 15 15 15	9 0
PIN DOW SYSTEM / With DI Name WIRE TO WIRE THOSE	15 16 13 17 10 10 10 10 10 10 10	No. Color Signal Name [Specification] Of Wire Signal Name [Specification]		++++	+++++++	28 P	36 SHELD

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FRONT POWER WINDOW SWITCH

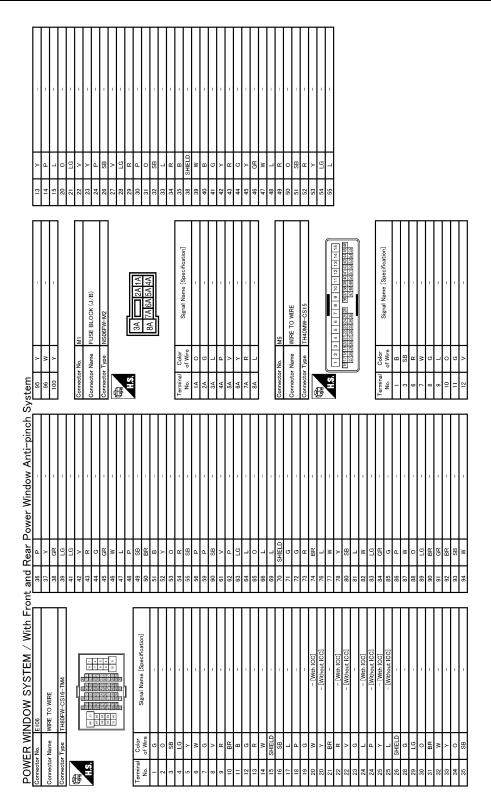
< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

D72 REAR POWER WINDOW MOTOR RH RSS06FG-DGV	Signal Name [Specification]		АВ
Connector No. D72 Connector Name REAR POWER WIN Connector Type RSSU6FG-DGV	Connector No. Color Signal No. Color		C
			Е
1057 REAR POWER WINDOW SWITCH LH NSIGFW-CS 3 4 5 5 6 6 6 6 6 6 6 6	Signal Name [Specification]		F
	Color Colo		G
Syste			Н
POWER WINDOW SYSTEM / With Front and Rear Power Window Anti-pinch System Connector No. D38 Connector No. D51 Connector No.	Signal Name (Specification) D92 REAR POWER WINDOW MOTOR LH RSOBFG-DGY RSOBFG-DGY RSOBFG-DGY Signal Name [Specification]		I
Dower W D51 WIRE TO WIRE NH10MW-CS10 2 3 101 8 9 101 8 14 151 11	Sign Sign Sign Sign		
Tt and Rear No. Connector Name Connector Name Connector Type The Conne	Terminal Color No. of Wire 1		PWC
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NDOW SYSTEM / With D38 D38 RSD FRONT FOURTH PASSENGR SIDE. NSD FRYCOS NSD FRY	Signal Name [Specification] D40 NSORTH-CS NSORTH-CS Signal Name [Specification]		M
MINDOW D38	Pado Dado Nasoria Policia Pado Pado Pado Pado Pado Pado Pado Pad		Ν
POWER WIN Connector Name Fire Connector Name Fire Connector Type IN H.S.	Terminal Color C		0
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Revision: 2009 August **PWC-101** 2010 FX35/FX50

FRONT POWER WINDOW SWITCH



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The low Miles 10 m	Connecto	r No.	M6	32	1	1	94	4	-
THEMMA-CS FINAL THEMMA-CS	Connecto	r Name	WIRE TO WIRE	36	Ф	_	92	ŋ	_
Theolomy Cistor-TMA 25			, , , , , , , , , , , , , , , , , , ,	37	g	_	96	Μ	_
1	Connecto	r Type	TH80MW-CS16-TM4	38	٣	_	100	Υ	-
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Color Signal Name Specification Color Color	厚			41	_	1			
Color	Ę		14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	42	>				
Color Signal Name [Specification] Signal Name [S	į			43	2	1			
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Color Colo			247 SS 62 77 ES 63 83 83 83 83 83 83 83 83 83 83 83 83 83	45	GR				
Color Signal Name (Specification) 44			2 S 2 S 3 S	46	≥				
Color				47	ľ	1			
Section	Terminal			48	۵	1			
Second	Š			49	0	1			
C	_	ı	1	20	57				
SB	2	0	1	51	S				
LG	3	SS	1	52	>				
GR	4	P7	1	53	0				
W	5	g		54	188				
G	9	Α	1	55	SB				
W	7	ŋ	1	26	۵				
P	8	8	1	29	g				
BR	6	۵	1	09	SB				
B	10	BR	1	19	>				
C	1	В	ı	62	۵	1			
No. No.	12	g	ſ	63	٣	ī			
W	13	۳	ı	64	_	1			
SHELD	14	٨		92	0	1			
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L	91	BR		69	^				
P	17	7		70	SHIEI				
G	18	۵	1	17	0				
W - (Web (CC) 73 W GR - (Web (CC) 76 XB BR - (Web (CC) 76 Y R - (Web (CC) 80 Y L - (Web (CC) 80 Y L - (Web (CC) 83 Y L - (Web (CC) 83 Y L - (Web (CC) 83 Y V - (Web (CC) 83 Y V - (Web (CC) 85 BR V - (Web (CC) 85 C V - (Web (CC) 85 C SHELD - (Web (CC) 85 C SHELD - (Web (CC) 85 C V - (Web (CC) 85 C V - (Web (CC) 80 C V - (Web (CC) 80 C W - (Web (CC) 80 C W - (Web (CC) 80 C <	19	5	1	72	GR				
GR	20	M	- [With ICC]	73	W				
BR	20	GR	- [Without ICC]	74	SB				
R	21	BR	- [With ICC]	9/	>				
R	21	œ	- [Without ICC]	7.7	>	-			
L	22	۳	- [With ICC]	78	Υ	1			
C	22	_	- [Without ICC]	8	0	ı			
L	23	g	1	8	-	1			
P -[Without (DC] 83 Y	24	_	- [With ICC]	82	≯	1			
Y - (Web ICC) 84 L SHIELD	24	۵	- [Without ICC]	88	>	1			
W	25	≻	- [With ICC]	84	Ľ	1			
Shield S	25	×	- [Without ICC]	82	1				
CR - 87 P V - 88 V O - 88 V BR - 90 P W - 90 P Y - 91 R L - 93 G L - 93 G	26	SHIELD		98	BB				
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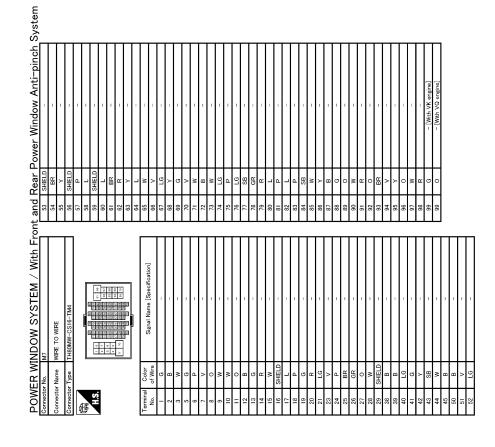
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FRONT POWER WINDOW SWITCH

[FRONT & REAR WINDOW ANTI-PINCH]

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WINDOW SYSTEM / With Fr WIRE TO WIRE TH90MW-CS16-TM4
WINDOW SYSTEM / With Fr WIRE TO WIRE TH90MW-CS16-TM4
WINDOW SYSTEM / With Fr WIRE TO WIRE TH90MW-CS16-TM4
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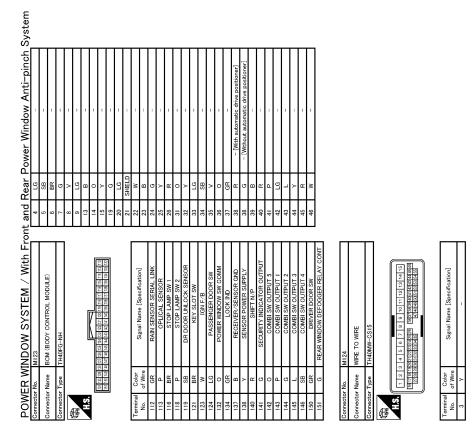
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FAIL-SAFE CONTROL

Fail-safe

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.

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 mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP or DOWN for the specified value or more without fully closing door glass (approximately 10 time or more).

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

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

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

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PWC-107 Revision: 2009 August 2010 FX35/FX50

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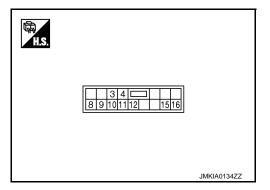
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REAR POWER WINDOW SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

REAR POWER WINDOW SWITCH

Terminal No. (wire color)		Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
3 (P)	Ground	Encoder ground	_	_	0
4 (SB)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	Battery voltage
8 (G)	Ground	Power window motor UP signal	Output	When power window motor is operated UP	Battery voltage
9 (L)	Ground	Power window motor DOWN signal	Output	When power window motor is operated DOWN	Battery voltage
10 (W)	Ground	Battery power supply	Input	_	Battery voltage
11 (B)	Ground	Ground	_	_	0
12 (GR)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB

< ECU DIAGNOSIS INFORMATION >

[FRONT & REAR WINDOW ANTI-PINCH]

	ninal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
15 (O)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms
16 (LG)	Ground	Power window serial link	Input/ Output	When ignition switch ON or power window timer operates	(V) 15 10 5 0 10 ms JPMIA0013GB

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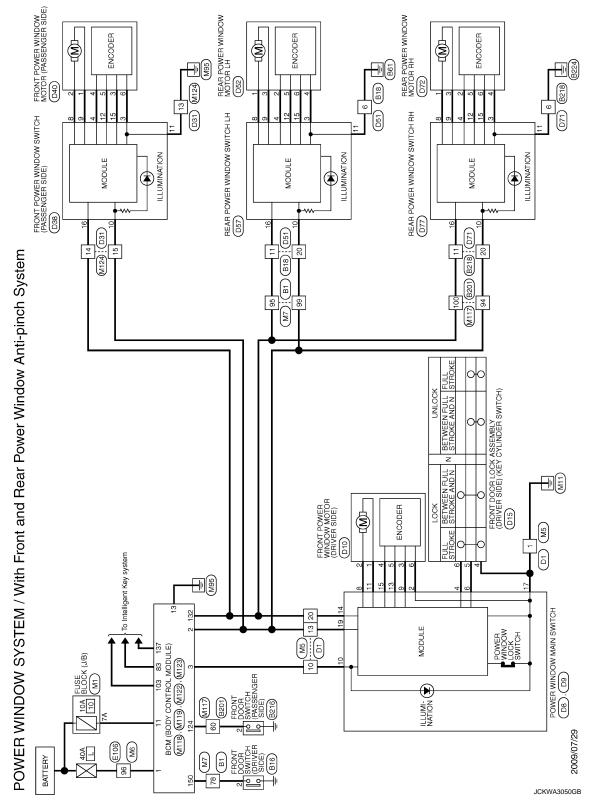
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Wiring Diagram - POWER WINDOW CONTROL SYSTEM -



POW	ER W	INDOW SYSTEM / With Fro	nt and	Re	POWER WINDOW SYSTEM / With Front and Rear Power Window Anti-pinch System	Systen	_	
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i-pinch System	2	0 86	4	- V 001		ſ	Connector No. B216	Connector Name FRONT DOOR SWITCH (PASSENGER SIDE)	╗	Connector Type A03FW	á		K		2]		a		2 GR -			Connector No. B218	Connector Name WIRE TO WIRE	П	Connector Type NH10FW-CS10	4		HS. 6 5 4 3 2 1		13 12 11 10 9	7 18 17 16 15 14 8			No. of Wire Signal Name Specification	2 GR -	3 M	- A	- 88 s	- 8 9	5 8			Н	Ë	L	BR	20 LG -	
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[FRONT & REAR WINDOW ANTI-PINCH]

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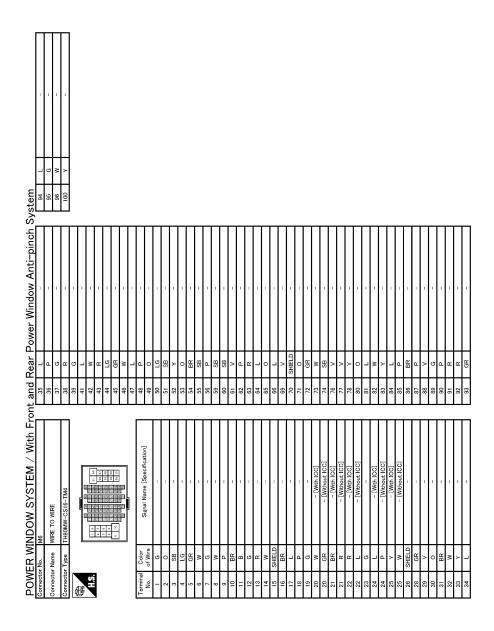
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[FRONT & REAR WINDOW ANTI-PINCH]

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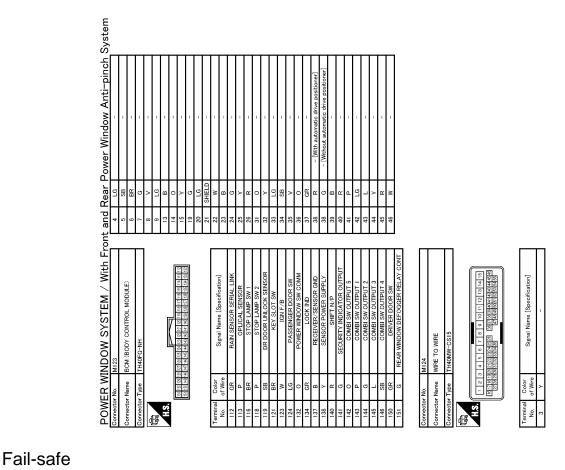
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MER WINDOW SYSTEM / With Front and Rear Power Window Anti-pinch System	19 SB ROOM LAMP TIMER	Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FB-NH	1	The state of the s		[51] 90 90 90 81 86 85 84 85 82 81 80 79 78 77 76 75 74 73 72			Terminal Color	ŭ	œ	5 E	75 RR PASSENGER DOOR ANT+	>	LG DR	> 6	/9 BR ROOM ANTI+	<u>5</u> ≥	P IGN	GR KEYLES	+	89 SB PUSH SW	а	91 L CAN-H	2 >	0	GR A/T SHIFT	97 L S/LCONDITION 1	. ~	G PV	SB	102 O BLOWER FAN MOTOR RELAY CONT	5 ≥	ΓG	œ	S × S	111 GR S/I INIT COMM	ś
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FAIL-SAFE CONTROL

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

[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 mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP or DOWN for the specified value or more without fully closing door glass (approximately 10 time or more).

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

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

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

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH [FRONT & REAR WINDOW ANTI-PINCH]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY **SWITCH**

Diagnosis Procedure

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${f 1}$.CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. PWC-16, "BCM: 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-40, "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-36, "Intermittent Incident".

NO >> GO TO 1.

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

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${f 1}$.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window switch power supply and ground circuit.

Refer to PWC-16, "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-36, "Intermittent Incident".

NO >> GO TO 1.

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE [FRONT & REAR WINDOW ANTI-PINCH] < SYMPTOM DIAGNOSIS > FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE Α WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure В INFOID:0000000005248222 ${f 1}$.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) SERIAL LINK CIRCUIT Check front power window switch (passenger side) serial link circuit. Refer to PWC-41, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Component Function Check". Is the inspection result normal? D 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-36, "Intermittent Incident". F 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:0000000005248223 Н 1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE) Replace front power window switch (passenger side). Refer to PWC-136, "Removal and Installation" >> INSPECTION END WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED **PWC** WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED: Diagnosis Procedure INFOID:0000000005248224 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. M Refer to PWC-17, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. N 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? Р 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-36, "Intermittent Incident". >> GO TO 1. NO

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REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

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

WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure

INFOID:0000000005248225

1. CHECK REAR POWER WINDOW SWITCH LH SERIAL LINK CIRCUIT

Check rear power window switch LH serial link circuit.

Refer to PWC-43, "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-36, "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:0000000005248226

1. REPLACE REAR POWER WINDOW SWITCH LH

Replace rear power window switch LH.

Refer to PWC-136, "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

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-23, "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-36, "Intermittent Incident".

NO >> GO TO 1.

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE [FRONT & REAR WINDOW ANTI-PINCH] < SYMPTOM DIAGNOSIS > REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE Α WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure ${f 1}$.CHECK REAR POWER WINDOW SWITCH RH SERIAL LINK CIRCUIT Check rear power window switch RH serial link circuit. Refer to PWC-44, "REAR RH: Component Function Check". Is the inspection result normal? D >> GO TO 2. >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Е Confirm the operation again. Is the result normal? >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". F >> GO TO 1. WHEN REAR POWER WINDOW SWITCH RH IS OPERATED WHEN REAR POWER WINDOW SWITCH RH IS OPERATED: Diagnosis Procedure INFOID:0000000005248229 ${f 1}$.REPLACE REAR POWER WINDOW SWITCH RH Н Replace rear power window switch RH.

Refer to PWC-136, "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:0000000005248230

 ${f 1}$.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.

YES

NO

YES

NO

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-24, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> 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-36, "Intermittent Incident".

NO >> GO TO 1. **PWC**

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ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

ANTI-PINCH FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005248231

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-8</u>, "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 (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-29, "DRIVER SIDE: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000005248232

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-8</u>, "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 (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-31, "PASSENGER SIDE: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36. "Intermittent Incident".

NO >> GO TO 1.

REAR LH

REAR LH: Diagnosis Procedure

INFOID:0000000005248233

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

ANTI-PINCH FUNCTION DO	DES NOT OPERATE
< SYMPTOM DIAGNOSIS >	[FRONT & REAR WINDOW ANTI-PINCH]
Refer to PWC-8, "ADDITIONAL SERVICE WHEN REMOVED TO SE	/ING BATTERY NEGATIVE TERMINAL : Special
Repair Requirement". Is the inspection result normal?	
YES >> INSPECTION END.	
NO >> GO TO 2.	
2.CHECK ENCODER (REAR LH) CIRCUIT	
Check encoder (rear LH) circuit.	
Refer to PWC-33, "REAR LH: Diagnosis Procedure". Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts.	
3.CONFIRM THE OPERATION	
Confirm the operation again.	
s the result normal?	overitte et la ciale et l
YES >> Check intermittent incident. Refer to GI-36, "Into NO >> GO TO 1.	<u>armittent incident .</u>
REAR RH	
REAR RH : Diagnosis Procedure	INFOID:000000005248234
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is performed and operation is confirr Refer to <u>PWC-8, "ADDITIONAL SERVICE WHEN REMO</u> V	
Repair Requirement".	
Is the inspection result normal? YES >> INSPECTION END.	
NO >> GO TO 2.	
2.check encoder (rear rh) circuit	
Check encoder (rear RH) circuit.	
Refer to PWC-35, "REAR RH: Diagnosis Procedure". Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts.	
3.CONFIRM THE OPERATION	
Confirm the operation again.	
s the result normal?	
YES >> Check intermittent incident. Refer to GI-36, "Into NO >> GO TO 1.	<u>ermittent incident"</u> .

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMAL-LY

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NOR-MALLY

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005248235

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to PWC-8, "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 (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-29, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000005248236

1. PERFORM INITIALIZAITON PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-8</u>, "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 (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-31, "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-36, "Intermittent Incident".

NO >> GO TO 1.

REAR LH

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY

LY	FEDONIT O DE AD MUNICOM ANTI DINIOLII
< SYMPTOM DIAGNOSIS >	[FRONT & REAR WINDOW ANTI-PINCH]
REAR LH : Diagnosis Procedure	INFOID:0000000005248237
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is performed and operation is confirmed Refer to PWC-8, "ADDITIONAL SERVICE WHEN REMOVING Repair Requirement" Is the inspection result normal?	
YES >> INSPECTION END NO >> GO TO 2.	
2.CHECK ENCODER (REAR LH) CIRCUIT	
Check encoder (rear LH) circuit. Refer to PWC-33, "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-36, "Interm NO >> GO TO 1. REAR RH	nittent Incident".
REAR RH : Diagnosis Procedure	
	INFOID:0000000005248238
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is performed and operation is confirmed Refer to PWC-8 , "ADDITIONAL SERVICE WHEN REMOVIN Repair Requirement".	
Is the inspection result normal?	
YES >> INSPECTION END NO >> GO TO 2.	
2.CHECK ENCODER (REAR RH) CIRCUIT	
Check encoder (rear RH) circuit. Refer to PWC-35, "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-36, "Interm NO >> GO TO 1.	nittent Incident".

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000005248239

1. CHECK DOOR SWITCH

Check door switch.

Refer to PWC-27, "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-36, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLINDER OPERATION

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLINDER OPERATION

INFOID:0000000005248240

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Diagnosis Procedure

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to PWC-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

 $2.\mathsf{CHECK}\ \mathsf{DRIVER}\ \mathsf{SIDE}\ \mathsf{DOOR}\ \mathsf{LOCK}\ \mathsf{ASSEMBLY}\ (\mathsf{KEY}\ \mathsf{CYLINDER}\ \mathsf{SWITCH})$

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

Refer to PWC-38. "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-36, "Intermittent Incident"

NO >> GO TO 1.

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POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERATING WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERAT-ING WITH INTELLIGENT KEY

Description INFOID:00000000524824

NOTE:

Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-8, "Work Flow".

Diagnosis Procedure

INFOID:0000000005248242

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to <u>DLK-200</u>, "<u>Description</u>".

2.CHECK POWER WINDOW OPERATION

Check power window operation.

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

YES >> GO TO 3.

NO >> Go to PWC-16, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

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

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

Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III 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-36, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

[FRONT & REAR WINDOW ANTI-PINCH] < SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000005248243 1. REPLACE POWER WINDOW MAIN SWITCH В Replace power window main switch. Refer to PWC-136, "Removal and Installation". C >> INSPECTION END D Е F Н **PWC** L

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POWER WINDOW SWITCH DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[FRONT & REAR WINDOW ANTI-PINCH]

POWER WINDOW SWITCH DOES NOT ILLUMINATE

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005248244

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

Refer to PWC-136, "Removal and Installation".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000005248245

1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Replace front power window switch (passenger side).

Refer to PWC-137, "Removal and Installation".

>> INSPECTION END

REAR LH

REAR LH: Diagnosis Procedure

INFOID:0000000005248246

1. REPLACE REAR POWER WINDOW SWITCH LH

Replace rear power window switch LH.

Refer to PWC-138, "Removal and Installation".

>> INSPECTION END

REAR RH

REAR RH: Diagnosis Procedure

INFOID:0000000005248247

1. REPLACE REAR POWER WINDOW SWITCH RH

Replace rear power window switch RH.

Refer to PWC-138, "Removal and Installation".

>> INSPECTION END

PRECAUTIONS

< PRECAUTION >

[FRONT & REAR WINDOW ANTI-PINCH]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

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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

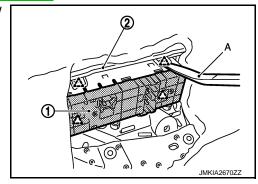
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REMOVAL

- Remove the front door finisher.
 Refer to <u>INT-11</u>, "<u>Exploded View</u>" and <u>INT-11</u>, "<u>Removal and Installation</u>".
- Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A) etc.

CAUTION:

Never fold pawl of front door finisher.



INSTALLATION

Install in the reverse order of removal.

NOTE:

If power window main switch is replaced or is removed, it is necessary to perform the initialization procedure.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< REMOVAL AND INSTALLATION >

[FRONT & REAR WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Removal and Installation

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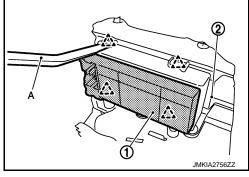
REMOVAL

Remove the front door finisher.
 Refer to <u>INT-11</u>, "Exploded View" and <u>INT-11</u>, "Removal and Installation".

2. Front power window switch (passenger side) (1) is removed from front power window switch finisher (2) using flat-bladed screw driver (A) etc.

CAUTION:

Never fold pawl of front door finisher.



INSTALLATION

Install in the reverse order of removal.

NOTE:

If front power window switch (passenger side) is replaced or is removed, it is necessary to perform the initialization procedure.

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< REMOVAL AND INSTALLATION >

[FRONT & REAR WINDOW ANTI-PINCH]

REAR POWER WINDOW SWITCH

Removal and Installation

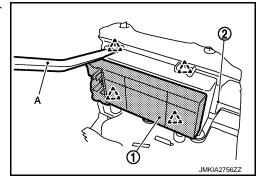
INFOID:0000000005248251

REMOVAL

- Remove the rear door finisher.
 Refer to <u>INT-14, "Exploded View"</u> and <u>INT-14, "Removal and Installation"</u>.
- 2. Rear power window switch (1) is removed from rear power window switch finisher (2) using flat-bladed screw driver (A) etc.

CAUTION:

Never fold pawl of rear door finisher.



INSTALLATION

Install in the reverse order of removal.

NOTE:

If rear power window switch is replaced or is removed, it is necessary to perform the initialization procedure.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> 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.

${f 3.}$ IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4. IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

INFOID:0000000005248255

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

When the battery negative terminal is disconnected, the initialization is necessary.

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

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

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

- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

INITIALIZATION PROCEDURE

- 1. Disconnect the battery negative terminal or power window main switch connector. Reconnect it after a minute or more.
- 2. Turn ignition switch ON.
- 3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
- 4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 5. Initializing procedure is completed.
- 6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Never check with hands or other body parts because they may be pinched. Never get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without fully closing. Perform initial setting in that situation. Refer to PWC-220, "Fail-safe"
- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

When the control unit replaced, the initialization in necessary.

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

Power supply to the power window main switch or power window motor is cut off by the removal
of battery terminal or if the battery fuse is blown.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[FRONT WINDOW ANTI-PINCH]

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

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

- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

INITIALIZATION PROCEDURE

- 1. Disconnect the battery negative terminal or power window main switch connector. Reconnect it after a minute or more.
- 2. Turn ignition switch ON.
- 3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
- 4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 5. Initializing procedure is completed.
- 6. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Never check with hands or other body parts because they may be pinched. Never get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without fully closing. Perform initial setting in that situation. Refer to PWC-220, "Fail-safe"
- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

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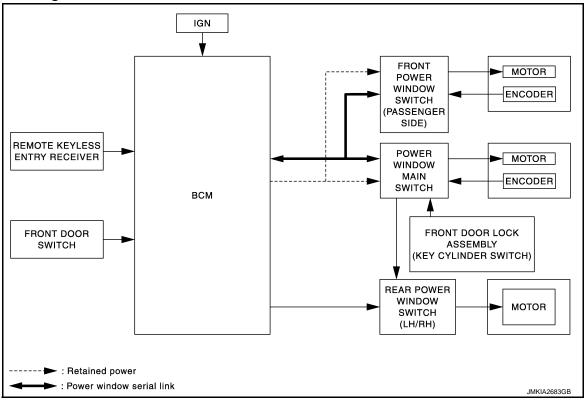
Revision: 2009 August PWC-141 2010 FX35/FX50

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

INFOID:0000000005248257



System Description

INFOID:0000000005248258

POWER WINDOW OPERATION

- Power window system is activated by power window switch operation when ignition switch turns ON, or during the retained power operation after ignition switch turns OFF.
- Power window main switch (driver side) can open/close all windows.
- Front & rear power window switch can open/close the corresponding windows.

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE & PASSENGER SIDE)

- AUTO UP/DOWN operation can be performed when power window main switch & front power window switch (passenger side) is turned to AUTO.
- Encoder continues detecting the movement of power window motor and transmits the encoder pulse signal to power window switch while power window motor is operating.
- Power window switch reads the changes of encoder signal and stops AUTO operation when door glass is at the fully opened/closed position.
- Power window motor is operable if encoder is malfunctioning.

RETAINED POWER OPERATION

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

Retained power function cancel conditions

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

POWER WINDOW LOCK FUNCTION

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

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

ANTI-PINCH OPERATION (FRONT DRIVER SIDE & PASSENGER SIDE)

- Pinch foreign matter in the door glass during AUTO-UP operation, and it is the anti-pinch function that lowers the door glass 150 mm (5.9 in) or for 2 seconds 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) or for 2 seconds after it detects encoder pulse signal frequency change.

OPERATION CONDITION

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

NOTE:

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

DOOR KEY CYLINDER SWITCH OPERATION

Hold the door key cylinder to the LOCK or UNLOCK direction for 1.5 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
- 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 OPERATION (FRONT DRIVER SIDE & PASSENGER SIDE)

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 SUP-PORT". Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

NOTE:

Use CONSULT-III to change settings.

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

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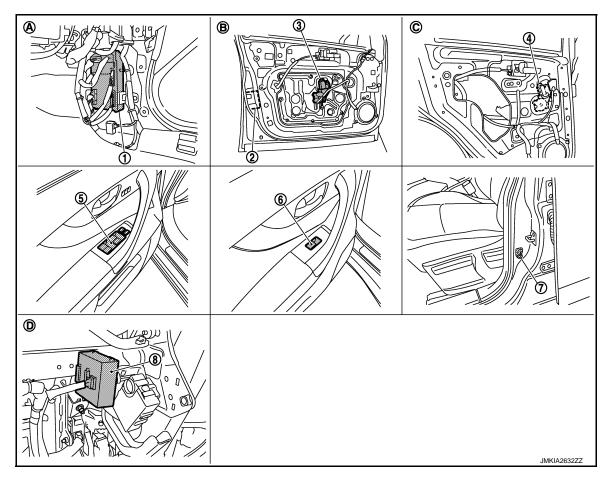
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Component Parts Location

INFOID:0000000005248259



- 1. BCM M118, M119, M122, M123
- 4. Rear power window motor LH D52
- 7. Front door switch (driver side) B16
- A. View with dash side lower (passenger side) removed
- D. View with instrument lower panel (driver side) removed
- Front door lock assembly (driver side) (key cylinder switch) D15
- 5. Power window main switch D8, D9
- 8. Remote keyless entry receiver M104
- B. View with front door finisher removed C.
- Front power window motor (driver side) D10
- 6. Rear power window switch LH D54
 - View with rear door finisher removed

Component Description

INFOID:0000000005248260

Component	Function
ВСМ	Supplies power supply to power window switch.Controls retained power.
Power window main switch	 Directly controls all power window motor of all doors. Controls anti-pinch operation of power window.
Front power window switch (passenger side)	Controls power window motor of passenger door.Controls anti-pinch operation of power window.
Rear power window switch	Controls power window motor of rear right and left doors.
Front power window motor	 Integrates the ENCODER POWER and WINDOW MOTOR. Starts operating with signals from power window main switch & front power window switch (passenger side). Transmits power window motor rotation as a pulse signal to power window switch.

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

Component	Function
Rear power window motor Starts operating with signals from power window main switch & rear p switch.	
Remote keyless entry receiver	Receives lock/unlock signal from the intelligent key, and then transmits to BCM.
Front door lock assembly (key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.
Front door switch (driver side/passenger side)	Front door open/close condition and transmits to BCM.

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[FRONT WINDOW ANTI-PINCH]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000005248261

APPLICATION ITEM

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

^{*:} This item is displayed, but is not used.

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[FRONT WINDOW ANTI-PINCH]

• Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description		
SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power suposition 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 po-		
LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode		
LOCK	Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)		
OFF	Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)		
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

IGN counter indicates the number of times that ignition switch is turned ON after DTC is detected.

- The number is 0 when a malfunction is detected now.
- The number increases like 1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

RETAIND PWR

RETAIND PWR : CONSULT-III Function (BCM - RETAINED PWR)

INFO	OID:00000000005248262	•

Data monitor

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

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000005248263

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	L (40A)
11	Battery power supply	10 (10A)

Is the inspection result normal?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

(+) BCM		(-)	Voltage (Approx.)	
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,	
M118	1	Ground	Pottory voltage	
M119	11	Giound	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity	
Connector	Connector Terminal		Continuity	
M119	13		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000005248264

1. CHECK POWER SUPPLY CIRCUIT 1

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connectors.

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

(+) Power window main switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(* 1941-5711)	
D8	10	Ground	Pattory voltage	
D9	19	Giound	Battery voltage	

Is the inspection result normal?

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

2.CHECK GROUND CIRCUIT

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

Power window main switch			Continuity	
Connector Terminal		Ground	Continuity	
D9	D9 17		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK POWER SUPPLY CIRCUIT 2

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

В	ВСМ		Power window main switch	
Connector	Terminal	Connector Terminal		Continuity
M118	2	D9	19	Existed
IVITO	3	D8	10	LAISteu

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	2		Not existed
IVITIO	3		INOL EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure INFOID:0000000005248265

1. CHECK POWER SUPPLY CIRCUIT 1

Turn ignition switch OFF.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

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

Is the inspection result normal?

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

2. CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK POWER SUPPLY CIRCUIT 2

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

В	СМ		window switch ger side)	Continuity
Connector	Terminal	Connector Terminal		
M118	2	D38	10	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		
Connector Terminal		Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000005248266

1. CHECK POWER SUPPLY CIRCUIT 1

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

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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DTC/CIRCUIT D	IAGNOSIS >			[FRONT W	INDOW ANTI-PIN
	(+)				
-	Rear power wind	ow switch		(–)	Voltage (V) (Approx.)
-	Connector	Ter	minal		(πρρίολ.)
LH	D54		4	•	Detterminate
RH	D74		1	Ground	Battery voltage
ES >> GO TO O >> GO TO CHECK GROUN eck continuity be	3.	window switch h	arness conne	ctor and ground.	
	Rear power window switch				Continuity
	Connector	Ter	minal	Ground	
LH RH	D54		7		Existed
the inspection res					
TES >> GO TO IO >> Repair	4. or replace harnes SUPPLY CIRCU vitch OFF.				
Check continuit			r and rear pow		harness connecto
Connector	Terminal	Con	nector	Terminal	Continuity
	_	LH	D54	_	

4.	Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M118	3		Not existed

D74

RH

Is the inspection result normal?

M118

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

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REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

REAR POWER WINDOW SWITCH

Description INFOID:000000005248267

- BCM supplies power.
- When power window switch is operated, corresponding power window motor is activated and rear door glass moves UP/DOWN.

Component Function Check

INFOID:0000000005248268

1. CHECK REAR POWER WINDOW FUNCTION

Check rear power window motor operation with rear power window switch.

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Refer to PWC-152, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005248269

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

	(+) power window		(–)	Condition		Voltage (V) (Approx.)										
Conn	ector	Terminal														
		2			UP	Battery voltage										
LH	D54	2					Pow	Power window main switch	Power window main switch	DOWN	0					
LII	D34	3	3	3	3	3	3	3	3	3	3		(rear LH)	(rear LH)	UP	0
												3	3	3		Ground
			-	Ground	Ground	Ground	UP	Battery voltage								
RH	D74			Power window main switch	DOWN	0										
ΝП	D/4				1	2	(rear RH)	UP	0							
		3			DOWN	Battery voltage										

Is the inspection result normal?

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

2.check rear power window switch

Check rear power window switch.

Refer to PWC-153, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to PWC-251, "Removal and Installation".

3.CHECK HARNESS CONTINUITY

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

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Power windo	w main switch	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
	1	LH	D54	2	
D8	3	LH	D54	3	Eviated
Dβ	5	DU	D74	3	Existed
	7	RH	D74	2	

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

Power window main switch			Continuity	
Connector	Terminal		Continuity	
	1	Ground		
D8	3		Not existed	
Do	5		Not existed	
	7			

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-249, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000005248270

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW SWITCH

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch connector.
- 3. Check rear power window switch.

Rear power window switch	Terminal		Power window switch condition	Continuity	
	1	5	UP		
	3	4	_ UP	Existed	
D54 (LH)	3	4	NEUTRAL		
D74 (RH)	5	2	NEUTRAL		
	1	4	DOWN		
	5	2	DOWN		

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Replace rear power window switch. Refer to PWC-251, "Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000005248271

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

DRIVER SIDE : Component Function Check

INFOID:0000000005248272

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

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

NO >> Refer to PWC-154, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005248273

${\sf 1.}$ CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

	w motor (driver side)	(–)	Condition		Voltage (V) (Approx.)		
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	2	2	2			UP	Battery voltage
D10	2	Onsurad	Power window main switch	DOWN	0		
ы	1	Ground	Ground Fower window main switch	UP	0		
	l I			DOWN	Battery voltage		

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK POWER WINDOW MOTOR

Check front power window motor (driver side).

Refer to PWC-155, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window motor (driver side). Refer to <u>GW-21, "Removal and Installation"</u>.

3.check power window motor circuit

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

Power windo	Power window main switch		Front power window motor (driver side)		
Connector	Terminal	Connector Terminal			
	8	D10	2	Existed	
	11	010	1	LXISteu	

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

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< DTC/CIRCUIT DIAGNOSI		FROI	NT WINDOW ANTI-PINCH]
Power window	main switch		Continuity
Connector	Terminal	Ground	Continuity
D8	8	Giodila	Not existed
20	11		Not existed
NO >> Repair or replace 4.CHECK INTERMITTENT I Refer to GI-36, "Intermittent In	NCIDENT		
>> INSPECTION EN	ID		
DRIVER SIDE : Compo	onent Inspection		INFOID:000000005248274
COMPONENT INSPECTIO	N		
1 CHECK DOWED WINDOW	V MOTOD		

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1. CHECK POWER WINDOW MOTOR

- Turn ignition switch OFF.
- Disconnect front power window motor (driver side) connector.
- Check motor operation by connecting the battery voltage directly to front power window motor (driver side) connector.

Front power window motor	Terr	Motor operation	
(driver side) connector	(+)	(-)	ivioloi operation
D10	1	2	DOWN
	2	1	UP

Is the inspection result normal?

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

NO >> Replace front power window motor (driver side). Refer to GW-21, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

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

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

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

NO >> Refer to PWC-155, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

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(+)				
Front power window motor (passenger side)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
	D40	Ground	Front power window switch (passenger side)	UP	Battery voltage
D40				DOWN	0
D40				UP	0
	2			DOWN	Battery voltage

Is the inspection result normal?

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

2. CHECK POWER WINDOW MOTOR

Check front power window motor (passenger side).

Refer to PWC-156, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window motor (passenger side). Refer to <u>GW-21</u>, "Removal and Installation".

3.check power window motor circuit

- 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 r	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D38	8	D40	1	Existed
D38 9		540	2	LAISIGU

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

Front power window	switch (passenger side)		Continuity	
Connector	Terminal	Ground		
D38	8	Ground	Not existed	
D36	9		Not existed	

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-250, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

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COMPONENT INSPECTION

1. CHECK POWER WINDOW MOTOR

- Turn ignition switch OFF.
- Disconnect front power window motor (passenger side) connector.

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

3. Check motor operation by connecting the battery voltage directly to front power window motor (passenger side) connector.

Front power window motor (passen-	Terr	minal	Motor condition	
ger side) connector	(+)	(-)	Wotor condition	
D40	1	2	UP	
	2	1	DOWN	

Is the inspection result normal?

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

NO >> Replace front power window motor (passenger side). Refer to <u>GW-21, "Removal and Installation"</u>.

REAR LH

REAR LH: Description

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

1. CHECK REAR POWER WINDOW MOTOR CURCUIT

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to PWC-157, "REAR LH: Diagnosis Procedure"

REAR LH: Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

	+) ndow motor LH	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
	4	1			Battery voltage
D52	I	Ground Rear p	Rear power window switch LH	DOWN	0
D32	3		Real power willdow switch LH	UP	0
	3			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK REAR POWER WINDOW MOTOR

Check rear power window motor LH.

Refer to PWC-158, "REAR LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor LH. Refer to <u>GW-27</u>, "Removal and Installation".

3.CHECK POWER WINDOW MOTOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH connector.

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

Rear power wi	ndow switch LH	Rear power wi	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D54	D54 5 D52		1	Existed
554	4	DJZ	3	LAISIGU

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

Rear power wi	ndow switch LH		Continuity	
Connector	Terminal	Ground	Continuity	
D54	5	Giouria	Not existed	
	4			

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-251, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

REAR LH: Component Inspection

INFOID:0000000005248282

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR

- 1. Turn ignition switch OFF.
- Disconnect rear power window motor LH connector.
- Check motor operation by connecting the battery voltage directly to rear power window motor LH connector.

Rear power window motor LH con-	Terr	minal	Motor condition
nector	(+)	(–)	Wotor Condition
D52	3	1	DOWN
D32	1	3	UP

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to <u>GW-27, "Removal and Installation"</u>.

REAR RH

REAR RH: Description

INFOID:0000000005248283

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:0000000005248284

1. CHECK REAR POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to PWC-159, "REAR RH: Diagnosis Procedure".

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

REAR RH: Diagnosis Procedure

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1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

	(+) Rear power window motor RH		Condition		Voltage (V) (Approx.)
Connector	Terminal				(F-F
	1		Rear power window switch RH	UP	Battery voltage
D72	1	Ground		DOWN	0
D72	D72 Ground			UP	0
			DOWN	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK REAR POWER WINDOW MOTOR

Check rear power window motor RH.

Refer to PWC-160, "REAR RH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor RH. Refer to <u>GW-27</u>, "Removal and Installation".

3.CHECK POWER WINDOW MOTOR CIRCUIT

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

Rear power wi	indow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D74	5	D72	1	Existed
D/4	4	DIZ	3	LXISIEU

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

Rear power wir	ndow switch RH		Continuity
Connector	Terminal	Ground	Continuity
D74	5	Ground	Not existed
574	4		NOT EXISTED

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-251, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

REAR RH: Component Inspection

INFOID:0000000005248286

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor RH connector.
- Check motor operation by connecting the battery voltage directly to rear power window motor RH connector.

Rear power window motor RH con-	Terr	minal	Motor condition
nector	(+)	(–)	Wotor condition
D72	3	1	DOWN
DIZ	1	3	UP

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Replace rear power window motor RH. Refer to <u>GW-27</u>, "<u>Removal and Installation</u>".

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INFOID:0000000005248288

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DOOR SWITCH

Description INFOID:0000000005248287

Detects door open/closed condition.

Component Function Check

1. CHECK FUNCTION

Check door switches ("DOOR SW-DR", "DOOR SW-AS") in "Data Monitor" mode with CONSULT-III.

Monitor item	Door condition	Display
DOOR SW-DR	CLOSE → OPEN	OFF → ON
DOOR SW-AS	GLOSE → OF EN	OI I -> OIN

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to PWC-161, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect malfunction front door switch connector.
- Check signal between malfunction front door switch harness connector and ground with oscilloscope.

(+) Front door s	(+) Front door switch Connector Terminal			Voltage (V) (Approx.)
Connector				(Αρρίολ.)
Driver side	B16			
Passenger side	B216	2	Ground	(V) 15 10 5 0 10 ms

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and malfunction door switch harness connector.

ВСМ		Front door sw	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M123	124	B216	2	Exists
WITZS	150	B16	2	LAISIS

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	124	Giouria	Not exist
W1123	150		Not exist

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

3. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-162, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunction front door switch. Refer to <u>DLK-280, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005248290

1. CHECK FRONT DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunction front door switch connector.
- 3. Check malfunction front door switch.

(+) Front door switch					
		(-)	Condition	Continuity	
Connector		Terminal			
Driver side	B16	2		Door switch pressed	Not exist
Driver side	DIO	2	Ground part of	Door switch released	Exists
Daggarayaida	D046	2	door switch	Door switch pressed	Not exist
Passenger side	B216	2		Door switch released	Exists

Is the inspection result normal?

YES >> Front door switch is OK.

NO >> Replace malfunction front door switch. Refer to <u>DLK-280, "Removal and Installation"</u>.

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DRIVER SIDE

DRIVER SIDE: Description

INFOID:000000000524829:

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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:0000000005248292

1.CHECK ENCODER

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

Is the inspection result normal?

YES >> Encoder is OK.

>> Refer to PWC-163, "DRIVER SIDE : Diagnosis Procedure".

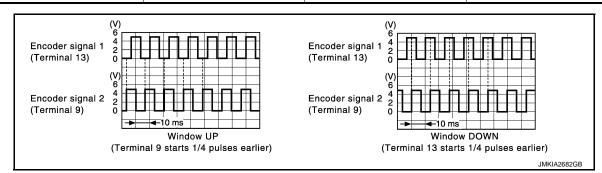
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005248293

1. CHECK ENCODER SIGNAL

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

(+)		Oiman!	
Power window main switch		(–)	Signal (Reference value)	
Connector	Terminal		(2 2 2 100 1000)	
	9 Ground		Pofor to following signal	
Do	13	Ground	Refer to following signal	



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-249, "Removal and Installation".

NO >> GO TO 2.

2.CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

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

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

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

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Power wind	Power window main switch		Continuity	
Connector	Terminal	Ground	Continuity	
	9	_ Ground	Not existed	
Do	13		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

(+) Front power window motor (driver side)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(47-5-11)	
D10	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK GROUND CIRCUIT 2

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

Front power window motor (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D10	6		Existed

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to GW-21, "Removal and Installation".

NO >> GO TO 6.

${f 5.}$ CHECK ENCORDER POWER SUPPLY CIRCUIT 2

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

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

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	15		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-249, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK GROUND CIRCUIT 2

1. Disconnect power window main switch connector.

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-249. "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000005248294

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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:0000000005248295

1. CHECK ENCODER

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

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-165, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

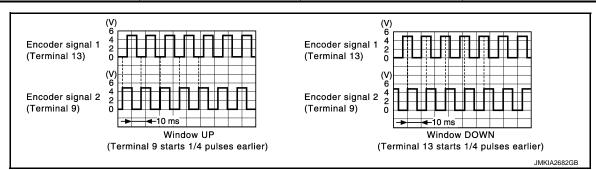
INFOID:0000000005248296

1. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.

2. Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope.

(+) Front power window switch (passenger side)			Signal (Reference value)	
		(–)		
Connector	Terminal		(
D38	12	Ground	Refer to following signal	
D36	15	- Ground	Ground Refer to follow	Neier to following signal



Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-250, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

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

Front power window s	switch (passenger side)	Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	12	D40	5	Existed
D30	15	540	3	LAISIGU

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

Front power window switch (passenger side)			Continuity
Connector	Terminal	Ground	Continuity
D38	12	Ground	Not existed
D30	15	-	NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

(+) Front power window motor (passenger side)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 /	
D40	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK GROUND CIRCUIT 2

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

Front power window mo		Continuity	
Connector	Terminal	Ground	Continuity
D40	6		Existed

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to <u>GW-21, "Removal and Installation"</u>. NO >> GO TO 6.

CHECK ENCORDER POWER SUPPLY CIRCUIT 2

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

Front power window s	switch (passenger side)	Front power window motor (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	4	D40	4	Existed

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[FRONT WINDOW ANTI-PINCH]

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

Is the inspection result normal?

- YES >> Replace front power window switch (passenger side). Refer to PWC-250, "Removal and Installa-
- NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

- Disconnect front power window switch (passenger side) connector.
- 2. 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		Continuity
D38	3	D40	6	Existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-250, "Removal and Installa-

NO >> Repair or replace harness.

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DOOR KEY CYLINDER SWITCH

Description INFOID:0000000052482297

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:0000000005248298

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-III. Refer to <u>DLK-53</u>, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	Condition	
KEY CYL LK-SW	Lock	: ON
RET GTE ER-GW	Neutral / Unlock	: OFF
KEY CYL UN-SW	Unlock	: ON
KET CTL UN-SW	Neutral / Lock	: OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to PWC-168, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005248299

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

(+)			Voltage (V)	
Front door lock assembly (driver side) (key cylinder switch)		(–)	(Approx.)	
Connector	Terminal			
D15	5	Ground	5	
טוט	6	Ground	3	

Is the inspection result normal?

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

2.CHECK DOOR KEY CYLINDER SWITCH CIRCUIT

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

Power window main switch		Front door lock assembly (driver side) (key cylinder switch)		Continuity
Connector	Terminal	Connector	Terminal	
	4	D15	6	Existed
	6	D13	5	LXISIGU

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

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-249, "Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Front door lock assembly (driver s	side) (key cylinder switch)		Continuity
Connector Terminal		Ground	Continuity
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-169, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to DLK-269, "DOOR LOCK: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36. "Intermittent Incident".

>> INSPECTION END

Component Inspection

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

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

Front door lock ass	Front door lock assembly (driver side) (key cylinder switch)		Koy position	Continuity
Connector	Terr	minal	Key position	Continuity
	E	6	Unlock	Existed
D15	D15		Neutral / Lock	Not existed
D13			Lock	Existed
			Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

>> Replace front door lock assembly (driver side) (key cylinder switch). Refer to DLK-269, "DOOR NO LOCK: Removal and Installation".

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POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

INFOID:0000000005248301

Power window main switch, front power window switch (passenger side) 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 and front power window switch (passenger side).

Keyless power window down signal

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

- Front passenger side 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:0000000005248302

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(III) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <u>DLK-53</u>, "DOOR LOCK: <u>CONSULT-III Function</u> (<u>BCM - DOOR LOCK</u>)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-170, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000005248303

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check signal between power window main switch harness connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".
- 4. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".

Power window Connector	main switch Terminal	(-)	Signal (Reference value)
D8	14	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB

Is the inspection result normal?

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

YES >> Replace power window main switch. Refer to PWC-136, "Removal and Installation". NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Description

Power window main switch, front power window switch (passenger side) 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 and front power window switch (passenger side).

Keyless power window down signal

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

- Front passenger side 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

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to <u>PWC-172</u>, "<u>FRONT POWER WINDOW SWITCH (PASSENGER SIDE)</u>: <u>Diagnosis Procedure</u>".

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POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

IFOID:0000000005248306

1. CHECK POWER WINDOW SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".
- 4. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (driver side and passenger side) is turned to "LOCK" or "UNLOCK".

(+) Front power window sw		(-)	Signal (Reference value)	
Connector	Connector Terminal			
D38	16	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB	

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-137, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

ВСМ		Front power window s	Continuity	
Connector Terminal		Connector	Terminal	Continuity
M123	132	D38	16	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M123	132		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Exploded View".

NO >> Repair or replace harness.

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000005621977

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK HI	Front wiper switch HI	On
ED WIDER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermitten dial position
DD WIDED ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
KK WIFEK STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TOKN SIGNAL IX	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TORN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAWIF SW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
TII BLAW SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
TILAD LAWF SW T	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
TILAD LAWF SW 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
FAGOING OVV	Lighting switch PASS	On
	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
111100300	Front fog lamp switch ON	On

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< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
DOOK SW-DK	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK OW-KIK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KL	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
DOOK SW-BK	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYLLK CW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTE ON-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
KKL-LOOK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
KKL-ONLOOK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
INNE-FAINIU	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
INIC-F/VV OPEN	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
ODTICAL OFFICER	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V

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< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
TLQ OV BIT	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEW OW NO	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	Back door request switch is not pressed	Off
KEQ OW -DD/TK	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
203H 3W	Push-button ignition switch (push switch) is pressed	On
ON DIVO 5/D	Ignition switch in OFF or ACC position	Off
GN RLY2 -F/B	Ignition switch in ON position	On
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
DDAKE OM 4	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
	Steering is unlocked	Off
S/L -LOCK	Steering is locked	On
	Steering is locked	Off
S/L -UNLOCK	Steering is unlocked	On
	Ignition switch in OFF or ACC position	Off
S/L RELAY-F/B	Ignition switch in ON position	On
	Driver door is unlocked	Off
JNLK SEN -DR	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
GN RLY1 -F/B	Ignition switch in ON position	On
	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
	Selector lever in any position other than P	Off
SFT P -MET		
	Selector lever in P position	On Off
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On

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< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
3/L LOCK-IFDIVI	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
3/L UNLK-IFDIVI	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
3/E IVELAT-IVE	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
FINIT LING STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEN OM OLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	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
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIDMIDA	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIDM IDO	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIDM IDO	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

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< ECU DIAGNOSIS INFORMATION >

[FRONT 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
CONFINITIO	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
17 4	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
IF 3	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
1 F Z	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
IF I	The ID of first Intelligent Key is registered to BCM	Done

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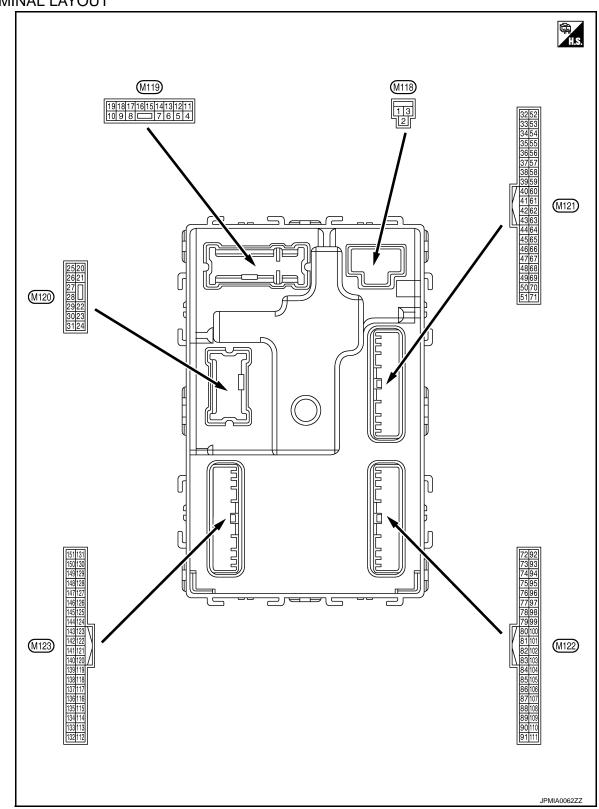
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Terminal No. Description (Wire color)			0		Value	А		
+	e color)	Signal name	Input/ Output	Condition		(Approx.)	_	
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	В	
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	12 V	С	
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	l	12 V	_	
4		Interior room lamp			b battery saver is activated. coom lamp power supply)	0 V	D	
4 (P)	Ground	power supply (Battery saver signal)	Output	ed.	battery saver is not activat- or room lamp power supply)	12 V	Е	
5	Ground	Passenger door UN-	Output	Passanger door	UNLOCK (Actuator is activated)	12 V	_	
(V)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V	- F	
7	Cround	Stop James	Outrost	Stop lown	ON	0 V	G	
(Y)	Ground	Step lamp	Output	Step lamp	OFF	12 V	_	
8	Cround	All doors, fuel lid	Output	All doors fuellid	LOCK (Actuator is activated)	12 V	Н	
(V)	(V) Ground LOC	LOCK	Output	Output All doors, fuel lid	Other than LOCK (Actuator is not activated)	0 V	-	
9	9 Driver door, fuel lid	Ground	Driver door, fuel lid	Output	Driver door, fuel	UNLOCK (Actuator is activated)	12 V	ı
(G)			Output	lid	Other than UNLOCK (Actuator is not activated)	0 V	- .l	
10	Ground	Rear RH door and rear LH door UN-	Output Rear RH		Rear RH door	UNLOCK (Actuator is activated)	12 V	
(BR)			Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V	PW	
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage		
13 (B)	Ground	Ground	_	Ignition switch ON	l	0 V		
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	M	
(1)		•			ACC or ON	0 V	=	
					Turn signal switch OFF	0 V	N	
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0	0	
						PKID0926E 6.5 V	Р	

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 1 s PKID0926E 6.5 V
-				Other than under	condition	5.0 V
19 (SB)	Ground	Room lamp timer	Output	(Door is unlocke	mp timer is activated. ed. etc) unction is activated.	0 V
-					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(P)		1 -	- 1	r -	ON (Operated)	12 V
34	Ground	Ground Luggage room antenna (–)	Quenue	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 0 JMKIA0062GB
(SB)			in t	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	۸
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
35		Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	В
(V)	Ground	na (+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E
38	38	Back door antenna (-	Output	When the back door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	G H
(B)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	PW
39	Ground	Back door antenna	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
(W)	Ground	(+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V	
(Y)	Cround	E/R) control	Capat	.g.m.on ownon	ON	0 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Val.
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
48		Back door opener		Back door opener	Not pressed	12 V
(W)	Ground	switch operation	Output	switch	Pressed	0 V
52	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	12 V
(LG)	Ground	Starter relay control	Output	ON	When selector lever is not in P or N position	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door opener request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V
(L)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					Not in stop position	0 V
66		5 1 1 " 1		5	OFF (Door close)	12 V
(LG)	Ground	Back door switch	Input	Back door switch	ON (Door open)	0 V
					Pressed	0 V
67 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close) ON (Door open)	(V) ₁₅ 10 5 0

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	\vdash
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB	В
					211/2	8.5 - 9.0 V	D
					ON (Door open)	0 V	
			Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	E F
72	Ground	Room antenna 2 (–) (Center console)				JIMNIAUU62GB	G
(R)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	Н
							J
73	Ground	Room antenna 2 (+)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	PWC
(G)	Ciodila	(Center console)	Output	OFF		(V)	M
					When Intelligent Key is not in the passenger compartment	15 10 5 0	Ν
			1			JMKIA0063GB	0

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
74	Ground	Passenger door antenna (-)	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Glouliu			quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
76	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
77		Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	ВС
(LG) Ground	Ground	(+)		switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E F
78	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H I
(Y)	Glound				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J PWC
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	M N
(BR)	Sidurid				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 1 s JMKIA0063GB	O P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent 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 Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V	
(P)	Cround	block (J/B)] control	Output	ignition ownon	ON	12 V	
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(GR)	Ground	receiver communication	Output	When operating e Key	ither button on the Intelligent	(V) 15 10 5 0 1 ms JMKIA0065GB	

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch		JPMIA0037GB 1.3 V	
(BK)					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB	
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	1.3 V (V) 15 10 5 0 JPMIA0040GB 1.3 V	

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	inal No.	Description				Wal .
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
<u>'</u>			Сири		All switches OFF (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0041GB
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89 (SB)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (Push switch)	Pressed Not pressed	0 V 12 V
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description					
	e color)	Signal name	Input/		Condition	Value (Approx.)	А
+	_		Output		OFF	40.1/	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	12 V (V) 15 10 1 S JPMIA0015GB 6.5 V	B C
					ON	0 V	Е
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	_
(•)					ON or ACC	0 V	F
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V	
(O)	Orodina	7.00 Tolay control	Output	ignition switch	ACC or ON	12 V	
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V	G
97	0	Steering lock condi-	lanat	Ota a mina ar la alla	LOCK status	0 V	Н
(L)	Ground	tion No. 1	Input	Steering lock	UNLOCK status	12 V	
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V	
(P)	Olodila	tion No. 2	iliput	Steering lock	UNLOCK status	0 V	I
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V	
(R)	Orodina	tion switch	трис	20100101 10101	Any position other than P	12 V	J
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 10 ms JPMIA0016GB 1.0 V	PWC
					ON (Pressed)	0 V	
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	N O
					OFF or ACC	1.0 V 0 V	Р
102 (O)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF of ACC	12 V	
103 (BR)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OF		12 V	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
106	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	12 V
(W)		power supply	-		ON	0 V
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 2 ms 1.3 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

	inal No. e color)	Description				Value	А
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C D
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	E F
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H I
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB	PWC
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	M

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	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 JPMIA0041GB 1.4 V	
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
					Front wiper switch INT/ AUTO	(V) 15 10 2 ms JPMIA0038GB 1.3 V	
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB	
					ON	0 V	
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 10 ms 10 ms JPMIA0012GB	

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Terminal No. (Wire color)		Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	F
					LOCK status	12 V	Е
111 (GR)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB	
					For 15 seconds after UN- LOCK	12 V	6
					15 seconds or later after UNLOCK	0 V	
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 JPMIA0156GB	(
113				Ignition switch	When bright outside of the vehicle	8.7 V Close to 5 V	
(P)	Ground	Optical sensor	Input	ŎN	When dark outside of the vehicle	Close to 0 V	
116 (BR)	Ground	Stop lamp switch 1	Input		_	Battery voltage	,
		Stop lamp switch 2		Stan Jama quitab	OFF (Brake pedal is not depressed)	0 V	P'
118	Ground	(Without ICC) Input Stop lamp switch 2		Stop lamp switch	ON (Brake pedal is depressed)	Battery voltage	
(P)	Ground			Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V	
		(With ICC)		Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON		Battery voltage	1
119 (SB)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) ₁₅ 10 5 0 ++10ms	(
		,			JPMIA0594GB 8.5 - 9.0 V		
				UNLOCK status (Unlock switch sensor ON)	0 V		
121 (BR)	Ground	Key slot switch	Input	When the Intelliger	nt Key is inserted into key slot nt Key is not inserted into key	12 V 0 V	
123	Ground	IGN feedback	Input	slot Ignition switch	OFF or ACC	0 V	
(W)	Ciodila	1014 100dbaok	input	igindon switch	ON	Battery voltage	

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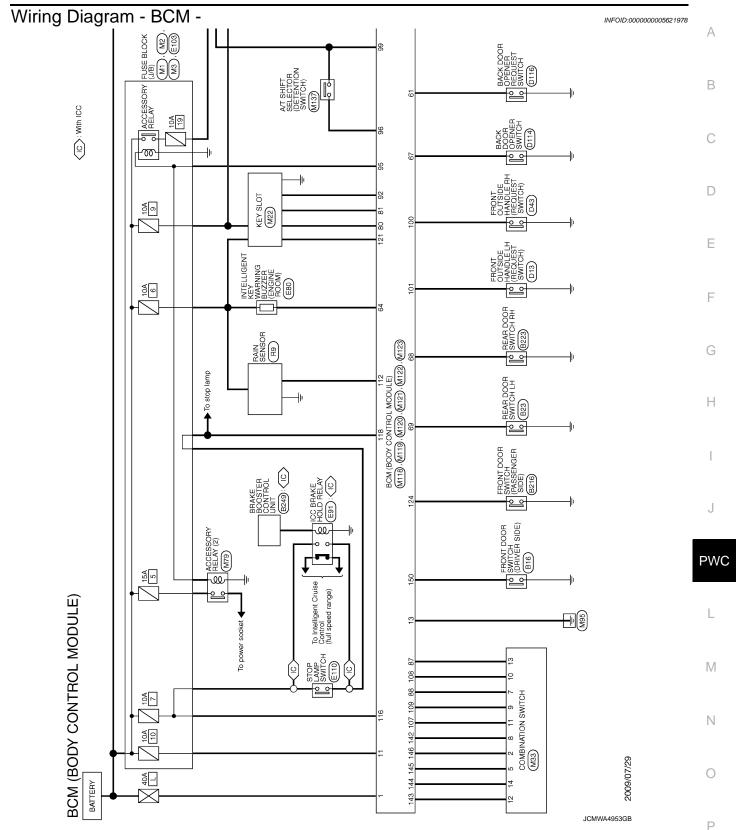
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output	Condition		(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close) ON (Door opene)	(V) ₁₅ 10 5 0 ++10ms JPMIA0594GB 8.5 - 9.0 V
132 (O)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OFF or ACC		12 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
		5		lamp ON		0 V
137 (B)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
-					ACC or ON	5.0 V 12 V
140 (R)	Ground	Selector lever P/N position	Input	Selector lever	P or N position Except P and N positions	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V (V) 15 10 5 0 JPMIA0014GB 11.3 V
-					OFF	12 V
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	0 V (V) 15 10 2 ms JPMIA0031GB 10.7 V

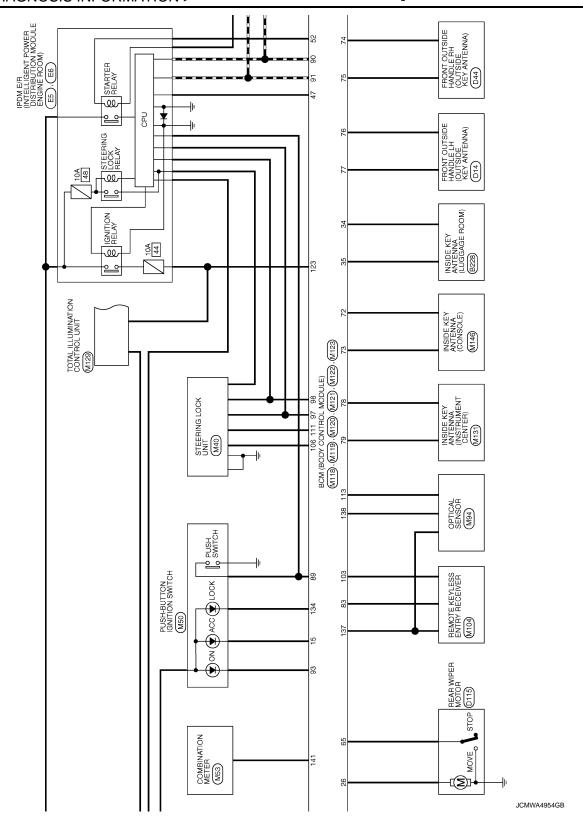
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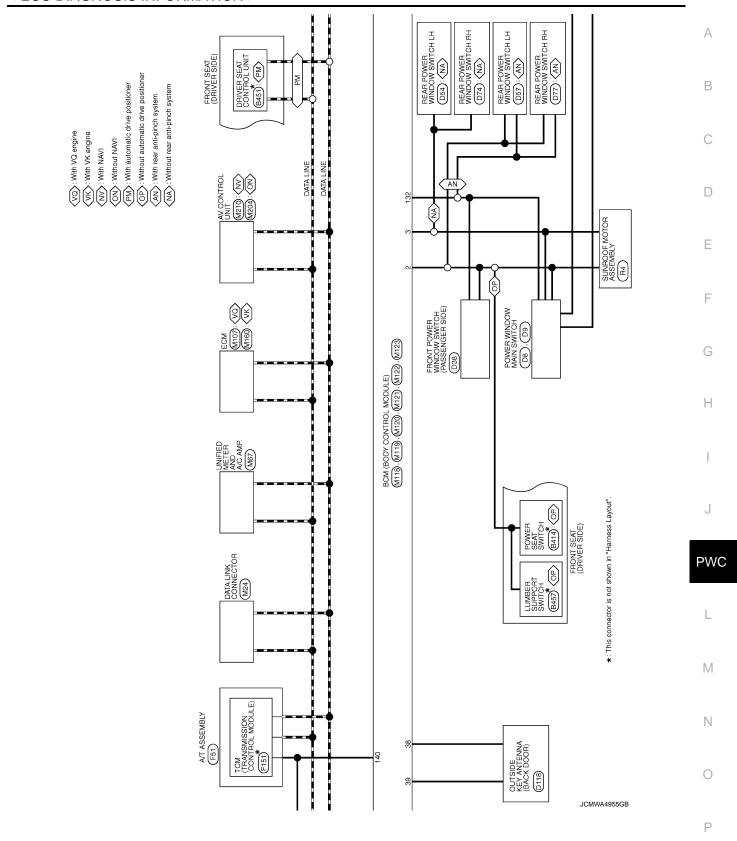
	inal No.	Description				Value	Λ
(Wire	e color) –	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper intermittent dial 4)	0 V	В
					Front wiper switch HI (Wiper intermittent dial 4)		
143	Ground	Combination switch	Output	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10	С
(P)	Glound	OUTPUT 1	Output	switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	5 0 2 ms	D
					Wiper intermittent dial 3Wiper intermittent dial 6Wiper intermittent dial 7	лрміа0032GB 10.7 V	Е
					All switches OFF (Wiper intermittent dial 4)	0 V	F
					Front washer switch ON (Wiper intermittent dial 4)		
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10	G
(G) G	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	0	-
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB	
					All switches OFF	0 V	1
		Combination switch			Front wiper switch INT/ AUTO	(V) 15	J
145			_	Combination switch	Front wiper switch LO	15	P۷
(L)	Ground	OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB 10.7 V	L
					All switches OFF	0 V	N
					Front fog lamp switch ON		: ٧
				Combination	Lighting switch 2ND	(V) 15	
146 (SB)	Ground	OUTPUT 4 Output	Output	switch (Wiper intermit- tent dial 4)	Lighting switch PASS	10 5 0	Ν
				ion dial 1)	Turn signal switch LH	2 ms JPMIA0035GB	С

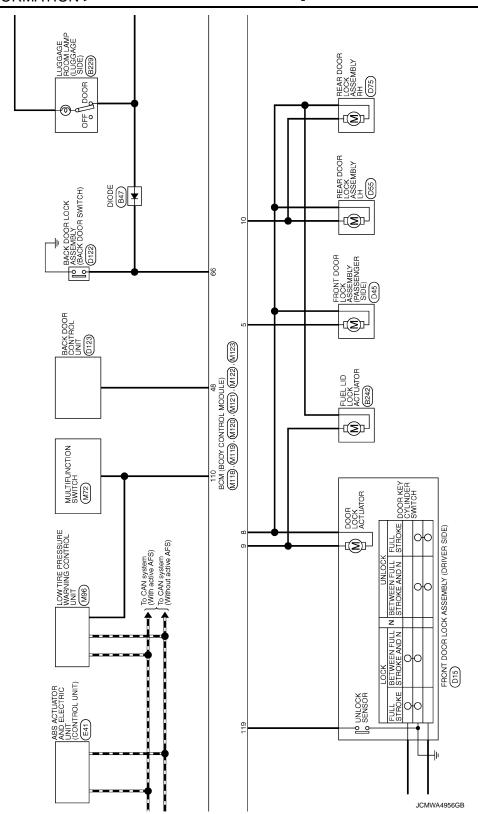
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	inal No.	Description				Value (Approx.)	
	e color)	Signal name	Input/		Condition		
+	_		Output		T		
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V	
					ON (Door open)	0 V	
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V	
(G)	Ground	ger relay control		fogger	Not activated	Battery voltage	





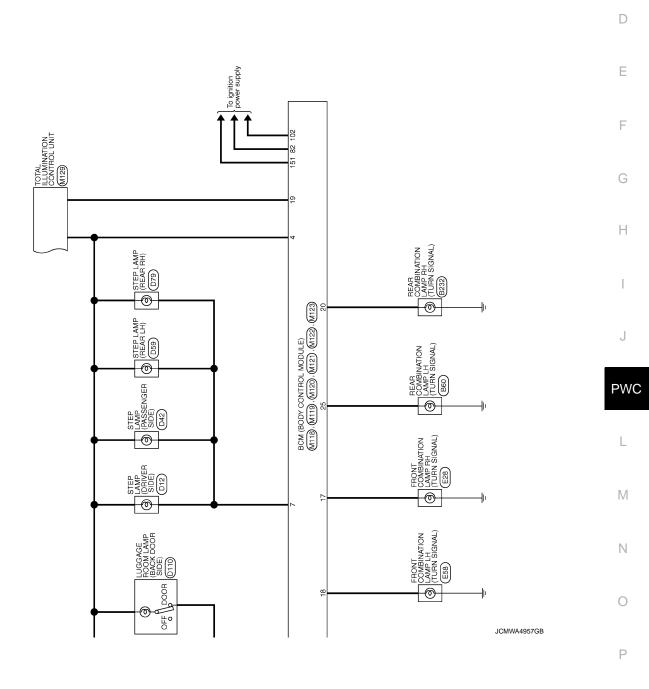




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Connector No. M33	Connector No. M119	Connector No.	MIZI	8 ;		NATS ANT AMP.
Connector Name COMBINATION SWITCH	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	- 6	≥ (NATS ANT AMP.
Connector Line TurkEW-NU	Onnactor Time NOTSEM-05	Connector Time	TH40E0X-NH	8 6	1 8	KEVI ESS ENITBY DECEMED SIGNAL
add labor	7	ode popular	7	3 6	5 8	COMBI SW INDIT 6
4	•	· · · · · · · · · · · · · · · · · · ·		8	<u>خ</u> >	COMBI SW INPUT 3
		Š		8	SB	PUSH SW
	4567 8910			6	۵	CAN-L
2 3 4 5	13 14 15 16 17	51 50	49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32	91	_	CAN-H
7 8 9 10 11 12 13 14	01 /1 01 01 +1 01	₹	96 97 96 96 96 96 97 97 97 38 38 37 38	95	LG LG	KEY SLOT ILL
				93	٨	ON IND
- 1	ŀ	ŀ		92	0	ACC RELAY CONT
le	le l	na T	or Signal Name [Specification]	96	æ,	A/T SHIFT SELECTOR POWER SUPPLY
e.	re	0		97	- 6	S/L CONDITION 1
S C C C C C C C C C C C C C C C C C C C	4 P INI ROOM LAMP PWR SUPPLY (BAT SAVE)	36		8 8	1	S/L CONDITION 2
30	· >	38		3 2	2 0	PASSENGER DOOR REQUEST SW
9	8 V ALL DOOR, FUEL LID LOCK OUTPUT	┝		<u></u>	SB	DRIVER DOOR REQUEST SW
T 01	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47 Y	IGN RELAY (IPDM E/R) CONT	102	0	BLOWER FAN MOTOR RELAY CONT
6 B GND	10 BR REAR DOOR UNLOCK OUTPUT	48 W	BK DC	103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
7 V INPUT 3	11 R BAT (FUSE)	52 LG	\perp	106	≥	S/L UNIT POWER SUPPLY
0	В	61 W	_	107	១	COMBI SW INPUT 1
>	>	+	Ι	108	œ	COMBI SW INPUT 4
ĸ	М	65 0	REAR	109	>	COMBI SW INPUT 2
Ple	0	7		9	g	HAZARD SW
۵	19 SB ROOM LAMP TIMER	+	ă	Ξ	쫎	S/L UNIT COMM
BR		7				
14 G OUTPUT 2	ſ	69 R	REAR LH DOOR SW			
	Connector No. M120					
Connector No. M118	Connector Name BCM (BODY CONTROL MODULE)	Connector No.	M122			
l,	Connector Type NS12FW-CS	N separate	П			
	ģ	Connector Name				
Connector Type M03FB-LC	唐	Connector Type	TH40FB-NH			
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	27 23	至				
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113		91 90	88 88 87 86 86 88 82 82 81 80 73 78 77 78 75 75 77 77 72 72 72 70 70 70 70 70 70 70 70 70 70 70 70 70			
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Terminal Color Signal Name [Specification]	>	la l	or Signal Name [Specification]			
	5	ō				
×	26 P REAR WIPER OUTPUT	+				
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3 O POWER WINDOW POWER SUPPLY (RAP)		+	1			
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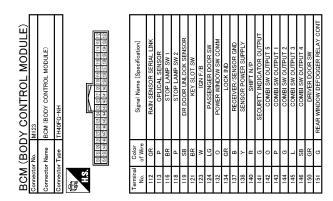
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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
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 $ON \rightarrow OFF$
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Display contents of CONSULT	Fail-safe	Cancellation		
B2607: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal) 		
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN) 		
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status		
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) 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 • Power position changes to ACC • Receives engine status signal (CAN)		
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)		
B2617: STARTER RELAY CIRC	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		
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal		
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization		
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)		

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow ON and front wiper switch is INT position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.

Revision: 2009 August **PWC-205** 2010 FX35/FX50

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< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

- 2. Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

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.

	22562: LOW VOLTAGE
•	
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B25555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2603: SHIFT POSITION B2605: PNP SW B2606: S/L RELAY B2606: S/L RELAY B2609: S/L RELAY B2609: S/L STATUS B2609: S/L STATUS B26004: IGNITION RELAY B2609: S/L STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2619: CHAIN IGN SW B261E: VEHICLE TYPE B2669: S/L STATUS
5 •	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA
6 B	26E7: TPMS CAN COMM

DTC Index

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 BCS-17, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

[FRONT WINDOW ANTI-PINCH]

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM	_	_	_	BCS-35
U1010: CONTROL UNIT(CAN)	_	_	_	BCS-36
U0415: VEHICLE SPEED SIG	_	_	_	BCS-37
B2013: ID DISCORD BCM-S/L	×	×	_	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	_	SEC-51
B2190: NATS ANTENNA AMP	×	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	<u>SEC-45</u>
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	PCS-50
B2555: STOP LAMP	_	×	_	<u>SEC-54</u>
B2556: PUSH-BTN IGN SW	_	×	×	<u>SEC-56</u>
B2557: VEHICLE SPEED	×	×	×	<u>SEC-58</u>
B2560: STARTER CONT RELAY	×	×	×	SEC-59
B2562: LOW VOLTAGE	_	×	_	BCS-38
B2601: SHIFT POSITION	×	×	×	<u>SEC-60</u>
B2602: SHIFT POSITION	×	×	×	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	<u>SEC-65</u>
B2604: PNP SW	×	×	×	<u>SEC-68</u>
B2605: PNP SW	×	×	×	SEC-70
B2606: S/L RELAY	×	×	×	SEC-72
B2607: S/L RELAY	×	×	×	<u>SEC-73</u>
B2608: STARTER RELAY	×	×	×	<u>SEC-75</u>
B2609: S/L STATUS	×	×	×	SEC-77
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	_	×	×	SEC-81
B260C: STEERING LOCK UNIT	_	×	×	SEC-82
B260D: STEERING LOCK UNIT	_	×	×	SEC-83
B260F: ENG STATE SIG LOST	×	×	×	<u>SEC-84</u>
B2612: S/L STATUS	×	×	×	SEC-88
B2614: ACC RELAY CIRC	_	×	×	PCS-54
B2615: BLOWER RELAY CIRC	_	×	×	PCS-56
B2616: IGN RELAY CIRC	_	×	×	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	SEC-92
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-94
B261A: PUSH-BTN IGN SW	_	×	×	SEC-95
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	<u>SEC-98</u>

Revision: 2009 August **PWC-207** 2010 FX35/FX50

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B2621: INSIDE ANTENNA	_	×	_	<u>DLK-61</u>
B2622: INSIDE ANTENNA	_	×	_	DLK-63
B2623: INSIDE ANTENNA	_	×	_	DLK-65
B26E7: TPMS CAN COMM	_	_	_	BCS-39
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	<u>SEC-86</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	<u>SEC-87</u>

POWER WINDOW MAIN SWITCH

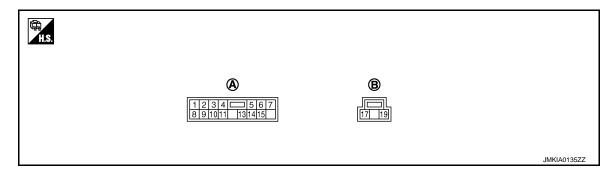
< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



A. D8 B. D9

PHYSICAL VALUES POWER WINDOW MAIN SWITCH

	inal No. e color)	Description		Condition	Voltage [V] (Approx.)	
+	-	Signal name	Input/ Output	Condition		
1 (W)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is UP at operated.	Battery voltage	
2 (LG)	Ground	Encoder ground	_	_	0	
3 (GR)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is DOWN at operated.	Battery voltage	
4 (V)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral → Locked)	5 → 0	
5 (SB)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is DOWN at operated.	Battery voltage	
6 (Y)	Ground	Door key cylinder switch UNLOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0	
7 (BR)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is UP at operated.	Battery voltage	
8 (L)	Ground	Front driver side power window motor UP signal	Output	When front LH switch in power window main switch is UP at operated.	Battery voltage	
9 (W)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms	

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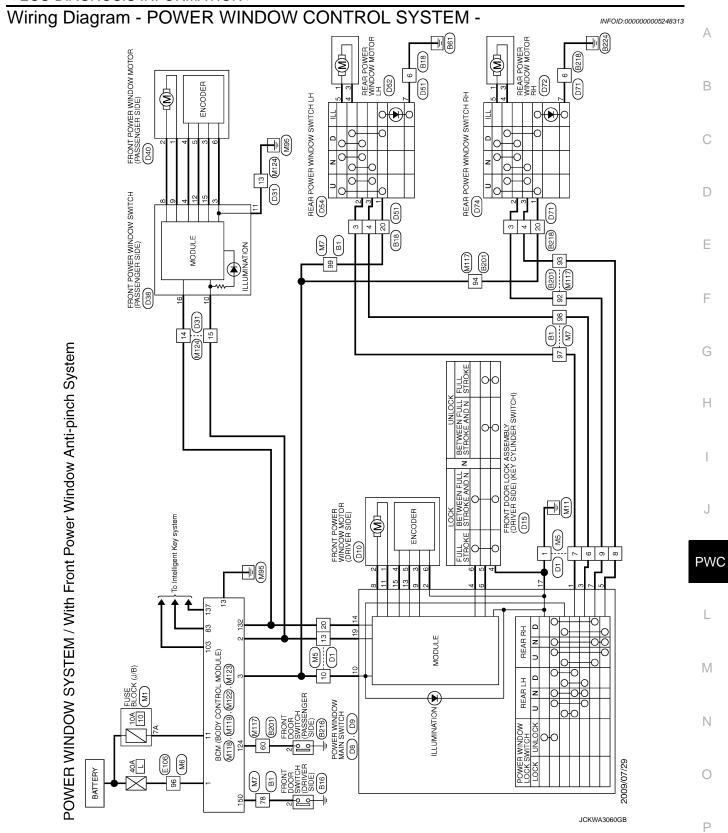
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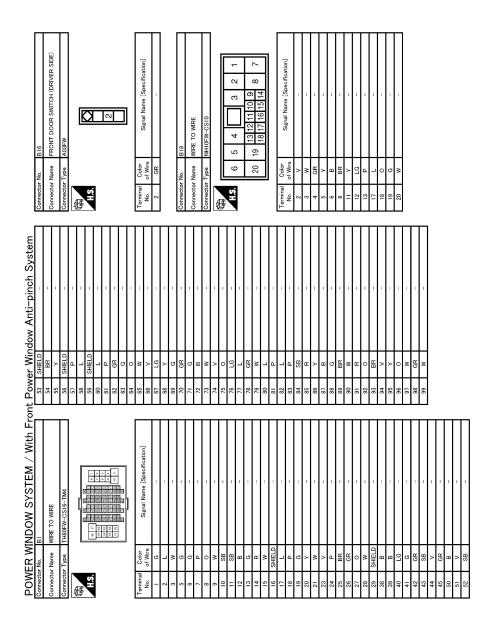
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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description			Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
				IGN SW ON	Battery voltage
10	Ground	Rap signal	Input	Within 45 second after ignition switch is turned to OFF	Battery voltage
(O)			, ,	When driver side or passenger side door is opened during retained power operation	0
11 (G)	Ground	Front driver side power window motor DOWN signal	Output	When front LH switch in power window main switch is DOWN at operated.	Battery voltage
13 (P)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB
14 (V)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 JPMIA0013GB
15 (W)	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	_	Battery voltage





JCKWA3061GB

POW	ER WI	POWER WINDOW SYSTEM / With Front Power Window Anti-pinch System	ont Pov	ver \	/indow Anti−pir	nch System				
Connector No.	r No.	B201	41	>	- [With	[Without ICC]	97	ŋ	1	
Connector Name	r Name	WIRE TO WIRE	42	>		– [With ICC]	98	0	1	
			42	Μ		- [Without ICC]	66	٦	-	
Connector Type	r Type	TH80FW-CS16-TM4	43	BR		- [With ICC]	100	Υ	_	
q			43	В	- [With	[Without ICC]				
手			44	٣		1				
E S		E 22	42	g		_	Connector No.		B216	
			46	0		- [With ICC]	Connector Name		FRONT DOOR SWITCH (PASSENGER SIDE)	
			46	SHIELD		- [Without ICC]				
		9 01 22 22 22 22 22 22 22 22 22 22 22 22 22	47	_	- [Wit	- [With ICC]	Connector Type		A03FW	
			47	В		- [Without ICC]	4			
			48	۵		- [With ICC]	厚		Ē	
Terminal	Color	9	48	۳	- [With	- [Without ICC]	Ę			
Ñ.	of Wire	olgnar Name [opecimication]	46	g		- [With ICC]				
_	g	1	49	Α		- [Without ICC]			c	
2	œ	1	20	SHIELD	q	1			4	
3	BR	-	51	Α						
4	SB	1	52	٣						
9	0	-	23	g			Terminal	Color		
7	g _R	1	54	ľ			Š	of Wire	Signal Name [Specification]	
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71 5	- i		8	٦ ا			Connector	T	B218	
-33	SHIELD		63	1			Connector Name		WIRE TO WIRE	
14	g	ſ	64	æ		1		┑		
15	œ	ı	62	٥		i	Connector Type	┑	NH10FW-CS10	
91	SHIELD	1	99	≻		1	qĮ.			
17	PI	1	67	≥		1	華			
18	GR	1	89	SHIELD	Q.	1	Ę.S.	9	5 4 3 2 1	
18	>	1	69	g		1				
20	SB	1	17	SB		1			13 12 11 10 9	
21	ΓG	1	72	>		1		2	19 18 17 16 15 11 8 /	
22	В	[With entertainment system]	73	FG		_			17 10 13	
22	GR	 [Without entertainment system] 	74	≥		_				
23	Μ	- [With entertainment system]	75	æ			Terminal	Color	Signal Name [Specification]	
23	LG	[Without entertainment system]	9/	^		_	Š.	of Wire	Supposed Sup	
24	œ	[With entertainment system]	77	LG		_	2	GR	_	
24	W	 [Without entertainment system] 	80	0		-	3	W		
22	SHIELD	- [With entertainment system]	81	5		1	4	œ	-	
25	>	- [Without entertainment system]	82	Ь		1	2	SB	-	
56	BS	1	83	٨		1	9	В	1	
27	۸	1	84	~			8	5	1	
28	SHIELD	1	85	88			=	>	1	
59	0	1	98	g		1	12	ΓG	1	
30	۵	-	87	Ĺ			13	۵		
31	W	-	91	>			17	SB	ı	
32	ВB	-	92	M			18	BR	1	
33	8S	1	93	٣		1	19	BR	1	
40	PT	- [With ICC]	94	FG		-	20	LG	1	
40	^	- [Without ICC]	98	GR		1				
41	SB	- [With ICC]	96	Μ						
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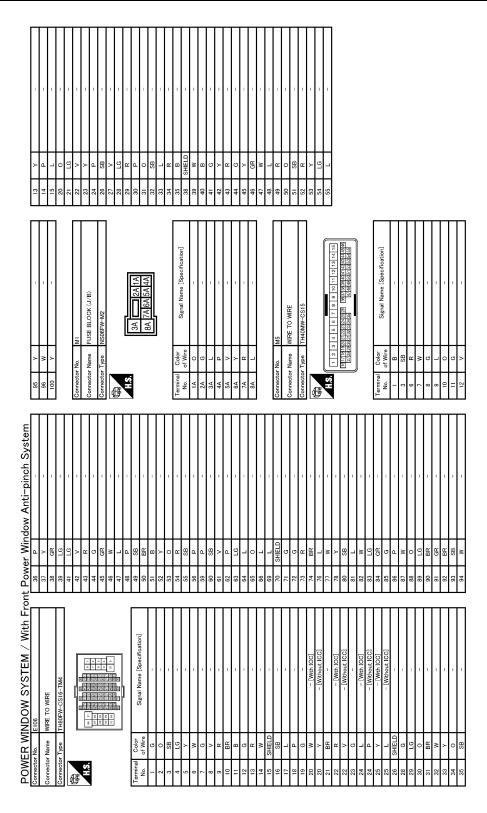
Comector No. D31 Comector Name WRE TO WIRE Comector Type TH40FW-CS15	H.S.	Terminal Color No. of Wire 3 P	5 W	Н	8 R -	13 B	H	19 G -	SHIELD	23 BR -	24	26 R -	31 LG -	Н	+	36 O GK	GR.	+	39 C	41 L	Н	43 BR -	45 P	Н	
Terminal Color Signal Name [Specification] No. of Wive Signal Name [Specification] 17 B	Connector No. D10 Connector Name FRONT POWER WINDOW MOTOR (DRIVER SIDE) Connector Type NSGEW-CS	HS. 11		-60	No. of Wire	2 L	: *			Connector No. D15	g.	Connector Type E06FGY-RS	•	v.			-		Color Signal Name [Specification] No. of Wire Signal Name Specification	1 LG -	Н	+	0 >	>	
Front Power Window Anti-pinch System	otor Na	Connector Type NSIGFW-CS	Ш	8 9 10 11 13 14 15		Terminal Color Signal Name [Specification]	*	3 GR	Н	98 × 9	7 BR –		10 0	Н	V 41	M 00	ſ	- 1	Connector Name POWER WINDOW MAIN SWITCH	Connector Type NS03FW-CS	₫.	Alth	Č.	17 19	
. . [П	П		П			П			П		Π			П	T			П	T	Ī		П

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POWER WINDOW MAIN SWITCH

Connector No. D72	A B C
Connector No. DS4 Connector Name REAR POWER WINDOW SWITCH LH	E F G
Connector Name Window Anti-pinch System	J
Commerce Name Colore Col	L M N O
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Revision: 2009 August **PWC-215** 2010 FX35/FX50



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dow Anu pinon System	
70 M 36	
Connector No. Miles	
Omnector Na Connector Na Connec	JCKWA3066GB

Revision: 2009 August **PWC-217** 2010 FX35/FX50

POWER	ER W	POWER WINDOW SYSTEM / With Front Power Window Anti-pinch System	ont Pow	er Wir	Idow Anti-pinch System
		TOWN OF LOWIN	54.8	BR	1
Connect	Connector Name	WIRE TO WIRE	55	۰	1
Connector Type	or Type	TH80MW-CS16-TM4	26	SHIELD	-
4	_		22	۵	-
图			28	7	-
S		11 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	29	SHIELD	-
	_	11,200 33,440 52,600 73,500 72	09	7	_
		2 0 0 11 12 12 12 12 12 12 12 12 12 12 12 12	61	BR	_
			62	ч	-
		300	63	Υ	-
]	64	L	_
Terminal		Signal Name [Specification]	65	W	=
No.	of Wire		99	^	_
-	g	1	67	ΓG	_
2	В		89	Υ	_
3	M	1	69	5	1
2	g	1	70	>	-
9	۵		7.1	Μ	-
7	>	1	72	В	1
8	0	1	73	Μ	1
6	×	1	74	P	-
10	Α	1	75	۵	1
Ξ	0	-	9/	97	1
12	<u>_</u>		77	ď	
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2 9	× 1		8 8	,	
9 !	SHIELD		50	٠.	1
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81	۵	1	83	۵	1
19	g	1	84	SB	_
20	œ	-	85	W	-
21	97	-	98	Υ	-
23	۸	1	87	8	-
24	۵		88	g	-
25	æ	1	88	0	1
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27	0	1	16	۵	-
28	×	1	95	0	-
29	SHIFLD		86	BR.	-
38	2		76	>	1
30			95	. >	
Ş	9		90	c	
7	3 0		8 5) }	
÷ 5	5 >		600	<u> </u>	
7,	-		on :	١	
43	9	1	99	5	- [With VK engine]
44	Μ	_	66	0	- [With VQ engine]
45	ω	_			
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51	>	1			
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POWER WINDOW MAIN SWITCH

[FRONT WINDOW ANTI-PINCH]

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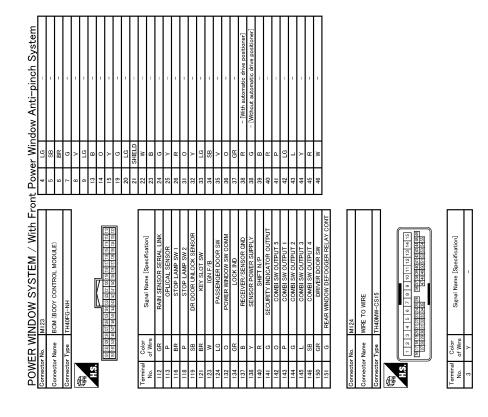
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	42	<u>}</u>		8			0	SB	ROOM LAMP TIMER
	4 4	≥ 0	- [Without IGG] - [With IGG]	96	o c				
Π	43	. 8			Н	-	Connector No.	or No.	M122
	44	- ۲	- Dates to C	66	9 >		Connect	Connector Name	BCM (BODY CONTROL MODULE)
	45	ı o	1-	<u> </u>	-		Connect	Connector Type	TH40FB-NH
	46	0	- [With ICC]				Q	_	
	46	SHELD		Conne	Connector No.	M118	事		
	74	- -	- [With ICC]	Conne	Connector Name	BCM (BODY CONTROL MODULE)	S. F.		
	ή 48 †	1			Connector Type	M03EB-LC		91 90 89 8	88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72
Γ	84	. «	1	,][, Т				111 110 108	164 109 109 101 101 99 98 97
	46	H		图	_				
Π	49	Μ	- [Without ICC]		00				
	20	SHIELD		[□	ı	- 3	Terminal	_	Signal Name [Specification]
Т	21	٥	1	7			Š.	of Wire	
٦	25	g	-	7		7	72	œ	ROOM ANT2-
	23	5	_				73	9	ROOM ANT2+
	24	_					74	SB	PASSENGER DOOR ANT-
	22	Ь	-	Terminal	_	Constitution County	75	BR	PASSENGER DOOR ANT+
	09	97	1	No	of Wire		9/	>	DRIVER DOOR ANT-
	61	2	1	-	Μ	BAT (F/L)	7.7	PP	DRIVER DOOR ANT+
Γ	62	SB	-	2	٨	POWER WINDOW POWER SUPPLY (BAT)	78	٨	ROOM ANTI-
	63	L	1	۳ ا	0	POWER WINDOW POWER SUPPLY (RAP)	79	BR	ROOM ANT1+
Γ	64	≻	ı] 			8	æ	NATS ANT AMP.
Γ	65	æ	1	Γ			81	*	NATS ANT AMP.
Γ	99	┝		Conne	Connector No.	M119	82	۵	IGN RELAY (F/B) CONT
	67	>	1			(TILIDOM LOGENOO MODING	83	æ	KEYLESS ENTRY RECEIVER SIGNAL
	89	SHIELD	IT	2000	cror ivame	BOM (BODT CONTROL MODULE)	87	BR	COMBI SW INPUT 5
	69	5	-	Conne	Connector Type	NS16FW-CS	88	۸	COMBI SW INPUT 3
	11	SB		(d			88	SB	PUSH SW
	72	^	-	序			90	Д	CAN-L
	73	۸	-		<u>L</u>		91	7	CAN-H
	74	9T	_			4 5 6 7 0 8 9 10	95	bП	KEY SLOT ILL
Γ	75	H	- [With VK engine]	Ι		11 10 12 14 15 15 17 18 10	93	>	ON IND
Γ	75	L		Γ		01 /1 01 01 41 01	96	0	ACC RELAY CONT
	9/	۸	-				96	SR	A/T SHIFT SELECTOR POWER SUPPLY
	77	LG	_				97	٦	S/L CONDITION 1
	80	œ	1	Termina	_	Signal Name [Specification]	98	۵	S/L CONDITION 2
	81	٦	_	No.	of Wire		66	۳	SHIFT P
	82	Υ	-	4	Ь	INT ROOM LAMP PWR SUPPLY (BAT SAVE)	100	9	PASSENGER DOOR REQUEST SW
	83	0	1	2	>	PASSENGER DOOR UNLOCK OUTPUT	101	SB	DRIVER DOOR REQUEST SW
Γ	84	>	1	_	>	STEP LAMP OUTPUT	102	0	BLOWER FAN MOTOR RELAY CONT
	85	Ë	1	00	>	ALL DOOR FUEL LID LOCK OUTPUT	103	ä	KEYLESS ENTRY RECEIVER POWER SUPPL
Τ	98	H	1	Ī		DRIVER DOOR FILE LTD LINEOCK OUTPLIT	106	>	Y INIT POWER SUPPLY
Τ	2	1	1	· [=	F	PEAR DOOR UNI OCK OUTBUT	107	<u>_</u>	COMBI SW INDITE
T	5 5	-		T	ł	DAT (BISE)	000	3 0	COMPLEM INBIT 4
T	6	1		Ī	+	BAT (FOSE)	90	4	+ IO-MIN ON TIME OF
T	92	1	-	<u>"</u> Т	<u></u>	GND	109	-	COMBLSW INPUT 2
	93	5		15	-	ACC IND	110	9	HAZARD SW
	94	W	- [With VK engine]	17	M	TURN SIGNAL RH (FRONT)	11	GR	S/L UNIT COMM
	94	0		8	L	TURN SIGNAL LH (FRONT)			
		Į							

JCKWA3068GB



JCKWA3069GB

Fail-safe

INFOID:0000000005248314

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.

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT 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 mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP or DOWN for the specified value or more without fully closing door glass (approximately 10 time or more).

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

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

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

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PWC-221 Revision: 2009 August 2010 FX35/FX50

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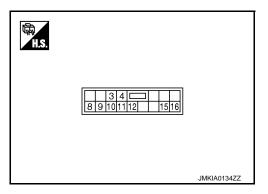
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FRONT POWER WINDOW SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

FRONT POWER WINDOW SWITCH

Termir (wire		Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
3 (LG)	Ground	Encoder ground	_	_	0
4 (W)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	Battery voltage
8 (L)	Ground	Power window motor UP signal	Output	When power window motor is UP at operated.	Battery voltage
9 (G)	Ground	Power window motor DOWN signal	Output	When power window motor is DOWN at operated.	Battery voltage
10 (Y)	Ground	Battery power supply	Input	_	Battery voltage
11 (B)	Ground	Ground	_	_	0
12 (P)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB

FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

	nal No. color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
15 (R)	Ground	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms
16 (V)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 10 ms

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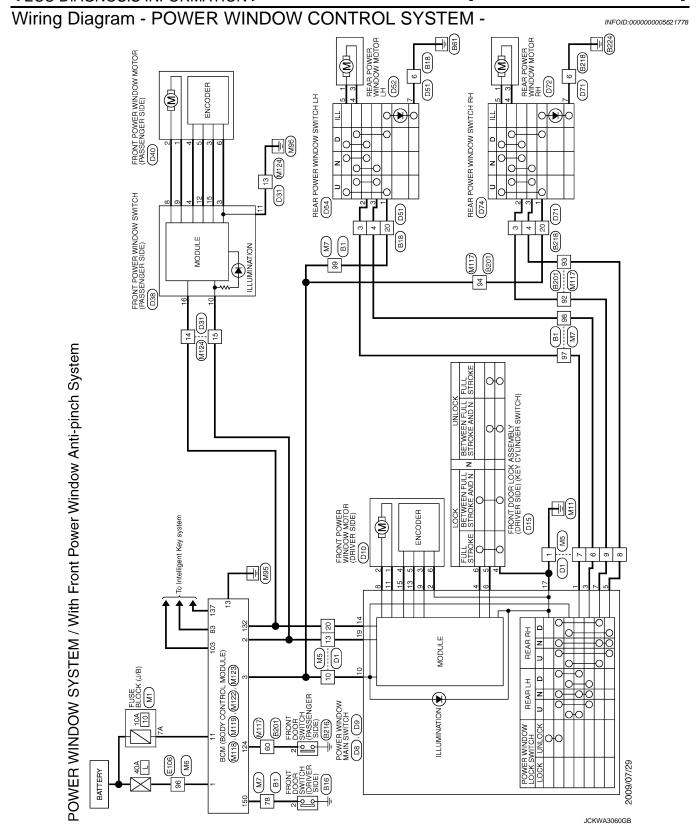
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POW	/ER W	POWER WINDOW SYSTEM / With Front Power Window Anti-pinch System	nt Po	wer	Window Anti-pir	nch System		
Connector No.	or No.	B1	53	S	SHIELD	_	Connector No.	B16
Connect	Connector Name	Edin CF Edin	25	П	BR	-	Connector Mamo	EBONT DOOR SWITCH (DRIVER SIDE)
Colliec	or ivalue	WINE TO WINE	56		Α.		Cormector Nam	
Connect	Connector Type	TH80FW-CS16-TM4	26	H	SHIELD	_	Connector Type	A03FW
4	_		5	Н	Ь	_	ą	
厚			58	_	Γ.		厚	Ē
E S			29	П	SHIELD	_	Ş	
		97 62 53 53 53 53 53 53 53 54 55 54 54	09		٦			
		9 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61	H	Ь	_		<u> </u>
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	79		GR	1		1
			63	_	9	_		
			64	_	0	_		
Terminal		Simpl Nama [Specification]	9		w	-	Terminal Color	Or Simul Nama [Specification]
No.	of Wire		99	9	^	_	No. of W	
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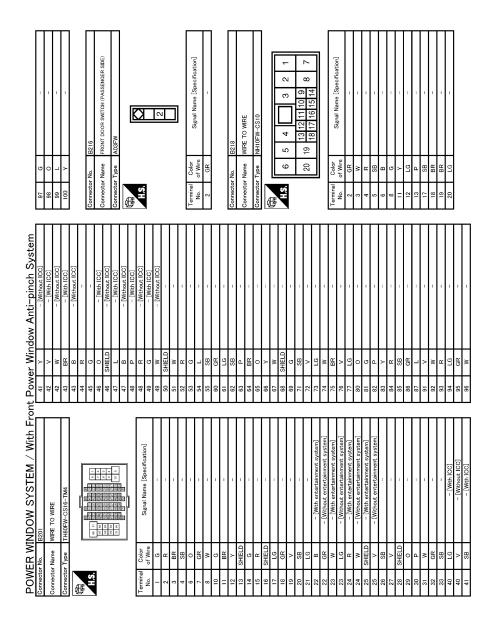
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Revision: 2009 August **PWC-225** 2010 FX35/FX50



JCKWA3062GB

FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

Cation C	А
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Name	С
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ation]	Е
Signal Name [Specification] PRONT POWER WINDOW MOTOR LORVER SIDE) NSUGEN-CS Signal Name [Specification] FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) Signal Name [Specification] Signal Name [Specification]	F
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Front Power Window Anti-pinch System 49	
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Revision: 2009 August **PWC-227** 2010 FX35/FX50

POWER WINDOW SYSTEM / With Fro	POWER WINDOW SYSTEM / With Front Power Window Anti-pinch System		17
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Connector Type NS16FW-CS	Connector Type NH10MW-CS10	Connector Type NS08FW-CS	Connector Type RS06FG-DGY
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Connector No. D40	Н	Connector Type NH10MW-CS10	Connector Type NS08FW-CS
Connector Name FRONT POWER WINDOW MOTOR (PASSENGER SIDE)	20 W =		
Connector Type NS06FW-CS		·	
4	Connector No. D52	0 4 T	
NHT)	Connector Name REAR POWER WINDOW MOTOR LH	7 8 9 10 11 12 13 19 20	23451
	Connector Type RS06FG-DGY	14 15 16 17 18	
3 4 5 6	唇	Terminal Color Stanal Name [Specification]	-E
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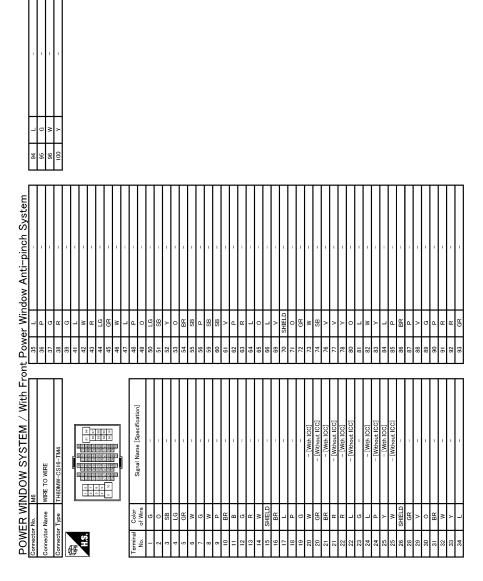
FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[FRONT WINDOW ANTI-PINCH]

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PWC-229 Revision: 2009 August 2010 FX35/FX50



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POWER No.	ER WIN	POWER WINDOW SYSTEM / With Fror	nt Pow	ver V	Front Power Window Anti-pinch System	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5	97	ROOM I AMP TIMER	
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onnect	Connector Name WI	WIRE TO WIRE	\$	۵.	- [With ICC]	╁					
onnect	Connector Type Th	TH80MW-CS16-TM4	43	В	- [Without ICC]	H		Connector No.	П	M122	
l of			44	α	-	- 57 66		Connector Name	г	BCM (BODY CONTROL MODILLE)	
B			45	_	- [With ICC]	- Y 100			╮		
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24	Μ	- [Without entertainment system]	77	FC	-			97	٦	S/L CONDITION 1	
25	SHIELD	- [With entertainment system]	80	ď	-	Terminal Color Simpl Name [Specification]	Lacification	98	Ь	S/L CONDITION 2	
25	œ	 [Without entertainment system] 	81	٦	-	No. of Wire	pecilication	66	ч	SHIFT P	
56	SB	-	82	Υ	-	4 P INT ROOM LAMP PWR SUPPLY (BAT SAVE)	SUPPLY (BAT SAVE)	100	9	PASSENGER DOOR REQUEST SW	
27	۸		83	0	-	5 V PASSENGER DOOR UNLOCK OUTPUT	JNLOCK OUTPUT	101	SB	DRIVER DOOR REQUEST SW	
28	SHIELD	-	84	Μ	-	7 Y STEP LAMP OUTPUT	OUTPUT	102	Н	BLOWER FAN MOTOR RELAY CONT	
59	0	1	82	SB	_	8 V ALL DOOR, FUEL LID LOCK OUTPUT	D LOCK OUTPUT	103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY	
30	۵	-	98	В	1	DRIVE	D UNLOCK OUTPUT	106	Μ	S/L UNIT POWER SUPPLY	
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Terminal	Color	Signal Name [Specification]	22	8	ſ
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124	2	PASSENGER DOOR SW	ž	3 >	,
132	3	POWER WINDOW SW COMM	36	. 0	,
134	GR	LOCK IND	37	GR	1
137	a	RECEIVER/SENSOR GND	38	œ	- [With automatic drive positioner]
138	>	SENSOR POWER SUPPLY	38	g	- [Without automatic drive positioner]
140	۲	SHIFT N/P	39	В	ı
141	Ð	SECURITY INDICATOR OUTPUT	40	ч	-
142	0	COMBI SW OUTPUT 5	41	Ь	-
143	Ь	COMBI SW OUTPUT 1	42	ΓG	-
144	g	COMBI SW OUTPUT 2	43	_	1
145	-	COMBI SW OUTPUT 3	44	>	1
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150	GR	DRIVER DOOR SW	46	М	-
151	g	REAR WINDOW DEFOGGER RELAY CONT			
Connector No.	No.	M124			
Connector Name	Name	WIRE TO WIRE			
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Terminal	Color of Wire	Signal Name [Specification]			
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FAIL-SAFE CONTROL

Fail-safe

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.

FRONT POWER WINDOW SWITCH

[FRONT 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 mal- function	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Pulse direction malfunction	When a pulse signal indicating that window is moving in the opposite direction against the power window motor is detected for the specified value or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1	When the actual door glass position that is out of specified value is detected compared to the door glass fully closed position memorized in module, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 2	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP or DOWN.
Fully closed position up- date malfunction	When door glass is continuously operated UP or DOWN for the specified value or more without fully closing door glass (approximately 10 time or more).

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

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

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

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH [FRONT WINDOW ANTI-PINCH]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY **SWITCH**

Diagnosis Procedure

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to PWC-16, "BCM: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.confirm the operation

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

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PWC-235 Revision: 2009 August 2010 FX35/FX50

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005248319

${f 1}$.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window switch power supply and ground circuit.

Refer to PWC-148, "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-154, "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-36, "Intermittent Incident".

NO >> GO TO 1.

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE [FRONT WINDOW ANTI-PINCH] < SYMPTOM DIAGNOSIS > FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE Α WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure INFOID:0000000005248320 ${f 1}$.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) SERIAL LINK CIRCUIT Check front power window switch (passenger side) serial link circuit. Refer to PWC-171, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Component Function Check". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? F YES >> Check intermittent incident. Refer to GI-36, "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 1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE) Replace front power window switch (passenger side). Refer to PWC-250, "Removal and Installation" >> INSPECTION END WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED **PWC** WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED : Diagnosis Procedure INFOID:0000000005248322 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-149, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure". Is the inspection result normal? Ν 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-155, "PASSENGER SIDE: Component Function Check". Is the inspection result normal? Р YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

Revision: 2009 August **PWC-237** 2010 FX35/FX50

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE [FRONT WINDOW ANTI-PINCH]

< SYMPTOM DIAGNOSIS >

>> GO TO 1.

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [FRONT WINDOW ANTI-PINCH]

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE Α WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure В 1. CHECK REAR POWER WINDOW SWITCH Check rear power window switch. Refer to PWC-152, "Component Function Check". Is the inspection result normal? D YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. $2.\mathsf{confirm}$ the operation Е Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". F NO >> GO TO 1. WHEN REAR POWER WINDOW SWITCH LH IS OPERATED WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure INFOID:0000000005248324 ${f 1}$.CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT Н Check rear power window switch power supply and ground circuit. Refer to PWC-150, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.replace rear power window switch LH $\,$ Replace rear power window switch LH. Refer to PWC-251, "Removal and Installation". **PWC** >> INSPECTION END WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED M WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED: Diagnosis Procedure INFOID:0000000005248325 1. CHECK REAR POWER WINDOW MOTOR LH Ν Check rear power window motor LH. Refer to PWC-157, "REAR LH: Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Р 2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

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

WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure

INFOID:0000000005248326

1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-152, "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-36, "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:0000000005248327

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

Check rear power window switch power supply and ground circuit.

Refer to PWC-150, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE REAR POWER WINDOW SWITCH RH

Replace rear power window switch RH.

Refer to PWC-251, "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

1. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-158, "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-36, "Intermittent Incident".

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

<pre></pre>]
ANTI-PINCH FUNCTION DOES NOT OPERATE	_
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	329
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is executed and operation is confirmed. Refer to PWC-140 , "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement". Is the inspection result normal? YES >> INSPECTION END	_ <u>al</u>
NO >> GO TO 2. 2.CHECK ENCODER (DRIVER SIDE) CIRCUIT	
Check encoder (driver side) circuit.	_
Refer to PWC-163, "DRIVER SIDE: Component Function Check".	
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3.CONFIRM THE OPERATION	
Confirm the operation again.	_
Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	330
1.PERFORM INITIALIZATION PROCEDURE	
Initialization procedure is executed and operation is confirmed. Refer to PWC-140, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special	_ al I
Repair Requirement".	
Is the inspection result normal? YES >> INSPECTION END NO >> GO TO 2.	
2. CHECK ENCODER (PASSENGER SIDE) CIRCUIT	
Check encoder (passenger side) circuit. Refer to PWC-165, "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.	_
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMAL-LY

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NOR-MALLY

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005248331

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to <u>PWC-140</u>, "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 (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-163, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000005248332

1. PERFORM INITIALIZAITON PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-140, "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 (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-165, "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-36, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPER-ATE PROPERLY

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

Refer to <u>PWC-161</u>, "Component Function Check". <u>Is the inspection result normal?</u>

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-36. "Intermittent Incident".

NO >> GO TO 1.

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POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLIN-DER OPERATION

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:0000000005248334

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-140, "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 (KEY CYLINDER SWITCH)

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

Refer to PWC-168, "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-36, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERATING WITH INTELLIGENT KEY

WITH INTELLIGENT KEY	
< SYMPTOM DIAGNOSIS > [FRONT WINDOW ANT	I-PINCH]
POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OF	
ING WITH INTELLIGENT KEY	А
Description	D:00000000005248335
NOTE:	В
Before performing the diagnosis in the following procedure, check "Work Flow". Refer to GI-32. "Wo	ork Flow".
Diagnosis Procedure	D:0000000005248336
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function.	D
Does door lock/unlock with Intelligent key button?	
YES >> GO TO 2. NO >> Go toDLK-99, "Description"	Е
2.CHECK POWER WINDOW OPERATION	
Check power window operation.	F
Does power window up/down with power window main switch?	
YES >> GO TO 3. NO >> Go to PWC-148, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure".	G
3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"	
Check "PW DOWN SET" setting in "WORK SUPPORT".	— Н
Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".	I
4. CONFIRM THE OPERATION	
Confirm the operation again.	J
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-36, "Intermittent Incident"</u> .	PWC
NO >> GO TO 1.	
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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[FRONT WINDOW ANTI-PINCH]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000005248337

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch. Refer to PWC-249, "Removal and Installation".

>> INSPECTION END

POWER WINDOW SWITCH DOES NOT ILLUMINATE

SYMPTOM DIAGNOSIS > FRONT WINDOW	ANTI-PINCH]	
POWER WINDOW SWITCH DOES NOT ILLUMINATE DRIVER SIDE		А
DRIVER SIDE : Diagnosis Procedure	INFOID:0000000005248338	D
1.REPLACE POWER WINDOW MAIN SWITCH		В
Replace power window main switch. Refer to PWC-249, "Removal and Installation".		С
>> INSPECTION END PASSENGER SIDE		D
PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000005248339	Е
1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)		
Replace front power window switch (passenger side). Refer to PWC-250, "Removal and Installation".		F
>> INSPECTION END REAR LH		G
REAR LH : Diagnosis Procedure	INFOID:0000000005248340	Н
1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT		
Check rear power window switch power supply and ground circuit. Refer to PWC-150 , "REAR POWER WINDOW SWITCH: Diagnosis Procedure".		I
Is the inspection result normal? YES >> GO TO 2.		1
NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH		J
Replace rear power window switch LH.		PWC
Refer to PWC-251, "Removal and Installation".		
>> INSPECTION END REAR RH		L
REAR RH : Diagnosis Procedure	INFOID:0000000005248341	M
1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT		
Check rear power window switch power supply and ground circuit. Refer to PWC-150 , "REAR POWER WINDOW SWITCH: Diagnosis Procedure".		Ν
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness.		0
2. REPLACE REAR POWER WINDOW SWITCH RH		
Replace rear power window switch RH. Refer to PWC-251, "Removal and Installation".		Р
>> INSPECTRION END		

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

[FRONT WINDOW ANTI-PINCH]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

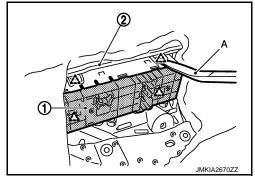
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REMOVAL

- Remove the front door finisher.
 Refer to <u>INT-11</u>, "<u>Exploded View</u>" and <u>INT-11</u>, "<u>Removal and Installation</u>".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A) etc.

CAUTION:

Never fold pawl of front door finisher.



INSTALLATION

Install in the reverse order of removal.

NOTE:

If power window main switch is replaced or is removed, it is necessary to perform the initialization procedure.

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FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< REMOVAL AND INSTALLATION >

[FRONT WINDOW ANTI-PINCH]

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Removal and Installation

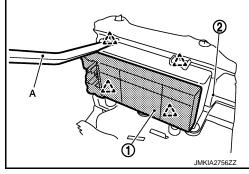
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REMOVAL

- Remove the front door finisher.
 Refer to <u>INT-11</u>, "<u>Exploded View</u>" and <u>INT-11</u>, "<u>Removal and Installation</u>".
- 2. Front power window switch (passenger side) (1) is removed from front power window switch finisher (2) using flat-bladed screw driver (A) etc.

CAUTION:

Never fold pawl of front door finisher.



INSTALLATION

Install in the reverse order of removal.

NOTE:

If front power window switch (passenger side) is replaced or is removed, it is necessary to perform the initialization procedure.

REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

[FRONT WINDOW ANTI-PINCH]

REAR POWER WINDOW SWITCH

Removal and Installation

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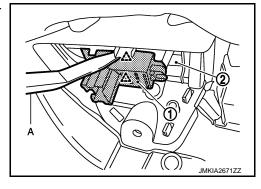
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REMOVAL

- Remove the rear door finisher.
 Refer to <u>INT-14, "Exploded View"</u> and <u>INT-14, "Removal and Installation"</u>.
- 2. Rear power window switch (1) is removed from rear power window switch finisher (2) using flat-head screw driver (A) etc.

CAUTION:

Never fold pawl of rear door finisher.



INSTALLATION

Install in the reverse order of removal.

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