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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2. REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.

Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 3.

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

Use "Symptom diagnosis" from the symptom inspection result in step 2. Then identify where to start performing 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.

REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000004672496

When battery negative terminal is disconnected, initialization is necessary.

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

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

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

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000004672497

INITIALIZATION PROCEDURE

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

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initialization when AUTO-UP operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when initialization is performed.
- Never check with hands or other body parts because they may be pinched. Never get pinched.
- It may switch to the fail-safe mode if open/close operation is performed continuously without fully closing door glass. Perform initialization in the above situation. Refer to PWC-79, "Fail-safe".
- Finish initialization. Otherwise, the next operation cannot be done.
- 1. AUTO-UP operation
- Anti-pinch function

Revision: 2010 March

3. Door key cylinder power window function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

When the control unit is replaced, initialization is necessary.

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

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INFOID:0000000004672498

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

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

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

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

INITIALIZATION PROCEDURE

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

CHECK ANTI-PINCH FUNCTION

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

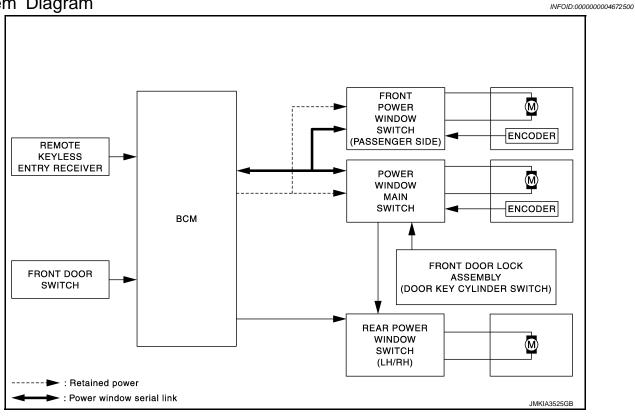
CAUTION:

- Perform initialization when AUTO-UP operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when initialization is performed.
- Never check with hands or other body parts because they may be pinched. Never get pinched.
- It may switch to the fail-safe mode if open/close operation is performed continuously without fully closing. Perform initialization in the above situation. Refer to PWC-79, "Fail-safe".
- Finish initialization. Otherwise, the next operation cannot be done.
- 1. AUTO-UP operation
- 2. Anti-pinch function
- 3. Door key cylinder power window function

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:0000000004672501

POWER WINDOW SYSTEM

- Power window system is operable during the retained power operation timer after turning ignition switch OFF.
- Power window main switch can open/close door glass.
- Front and rear power window switch can open/close the corresponding door glass.
- AUTO UP/DOWN operation can be performed when front power window switch turns to AUTO.
- Power window lock switch can lock all power windows other than driver seat.
- Power window serial link transmits the signals from power window main switch to front power window switch (passenger side).
- If door glass receives resistance that is the specified value or more while power window of front seat is in AUTO-UP operation, power window of front seat operates in the reverse direction.
- Hold the door key cylinder to the LOCK or UNLOCK direction for 1 second or more to OPEN or CLOSE front power windows when ignition switch OFF.
- Front power windows open when pressing Intelligent Key unlock button for 3 seconds.

POWER WINDOW AUTO-OPERATION

- AUTO UP/DOWN operation can be performed when front 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 for 45 seconds after ignition switch turns OFF.

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

RETAINED POWER FUNCTION CANCEL CONDITIONS

- Front door CLOSE (door switch OFF) → OPEN (door switch ON).
- When ignition switch turns ON again.
- When timer times out. (45 seconds)

POWER WINDOW LOCK FUNCTION

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

POWER WINDOW SERIAL LINK

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

ANTI-PINCH OPERATION

- Pinch the foreign matter in the door glass during AUTO-UP operation is the anti-pinch function that lowers the door glass 150 mm (5.9 in) when detected.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Resistance is applied to the power window motor rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window switch controls to lower the door glass for 150 mm (5.9 in) after it detects encoder pulse signal frequency change.

OPERATION CONDITION

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

NOTE:

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

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 front power windows when ignition switch is OFF. In addition, it stops when key position is moved to NEUTRAL when operating.

OPERATION CONDITION

- Ignition switch OFF.
- Hold door key cylinder to LOCK position for 1.5 seconds or more to perform CLOSE operation of the door glass.
- Hold door key cylinder to UNLOCK position for 1.5 seconds or more to perform OPEN operation of the door glass.

KEYLESS POWER WINDOW DOWN FUNCTION

Front 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-53. "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

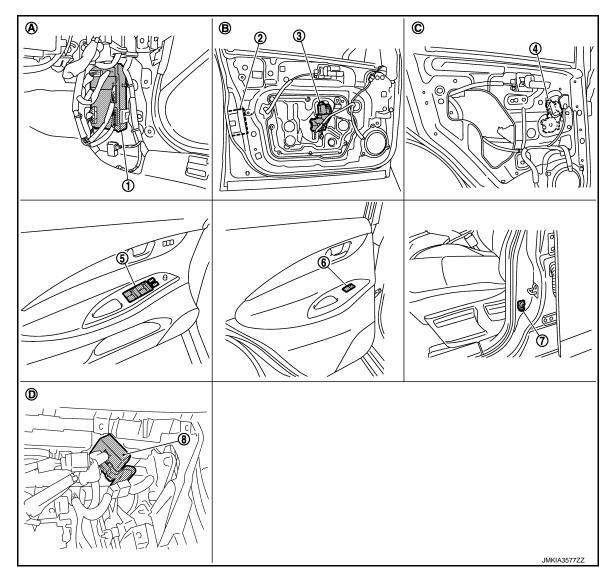
NOTE:

Use CONSULT-III to change settings.

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

Component Parts Location

INFOID:0000000004672502



- 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)
- D. View with instrument lower panel (passenger side) removed
- Front door lock assembly (driver side) (key cylinder switch) D15
- 5. Power window main switch D8,D9
- 8. Remote keyless entry receiver
- 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

Component

BCM

Supplies power supply to power window switch.
Controls retained power function.

Directly controls all power window motor of all doors.
Controls anti-pinch operation of power window.

Front power window switch

Controls anti-pinch operation of power window.
Controls power window motor of passenger door.

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

Component	Function	
Rear power window switch	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. 	
Front door lock assembly (key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.	
Front door switch	Detects door open/close condition and transmits to BCM.	
Remote keyless entry receiver	Receives lock/unlock signal from the intelligent Key, and then transmits to BCM.	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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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	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 			

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

NOTE:

FREEZE FRAME DATA (FFD)

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

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	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	Power position status of the moment a particular DTC is detected	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"	
Vehicle Condition	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	0 - 39	 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 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

RETAIND PWR

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

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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.			

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

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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	K (40 A)
11	Battery power supply	10 (10 A)

Is the fuse fusing?

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

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

	+) CM	(-)	Voltage (Approx.)	
Connector	Terminal		(/ Ipprox.)	
M118	1	Ground	Pottony voltago	
M119	11	Ground	Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed

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Does continuity exist?

YES >> INSPECTION END

>> Repair harness or connector. NO

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

1.CHECK POWER SUPPLY CIRCUIT 1

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

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< DTC/CIRCUIT DIAGNOSIS >

	+) w main switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(* 1941-5711)	
D8	10	Ground	Pottory voltage	
D9	19	Ground	Battery voltage	

Is the measurement value within the specification?

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

2. CHECK POWER SUPPLY CIRCUIT 2

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

В	СМ	Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M118	2	D9	19	Existed
IVITIO	3	D8	10	LXISIGU

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	2	Ground	Not existed
IVITTO	3		NOT EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-85, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

INFOID:0000000004672508

1. CHECK POWER SUPPLY CIRCUIT 1

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

< DTC/CIRCUIT DIAGNOSIS >

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

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT 2

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

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

Check continuity between BCM harness connector and ground.

BCM			
Connector	Terminal	Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-85, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

>> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT 1

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

(+) Rear power window switch		(–)	Voltage (V) (Approx.)	
Conr	nector	Terminal		(/ (pp.cx.)
LH	D54	1	Ground	Battery voltage
RH	D74	ľ	Glound	Battery voltage

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Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2.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	СМ	Rear power window switch			Continuity
Connector	Terminal	Connector		Terminal	Continuity
M118	2	LH	D54	1	Existed
IVITIO	3	RH	D74	'	Existed

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M118	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-85, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Rear power window switch				Continuity	
Conr	Connector		Ground	Continuity	
LH	D54	7	Giodila	Existed	
RH	D74	ľ		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER WINDOW SWITCH

Description INFOID:0000000004672510

- BCM supplies power.
- Rear power window motor will be operated if rear power window switch is operated. Rear power window switch.

Component Function Check

1. CHECK REAR POWER WINDOW OPERATION

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-17, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

	(+)					V-16 0.0	
Rear power window switch		(–)	(–) Condition		Voltage (V) (Approx.)		
Conr	nector	Terminal				(F-P0711)	
					Battery voltage		
LH	DE4	2		Power window main switch (rear LH)	DOWN	0	
LΠ	.H D54	3			UP	0	
					DOWN	Battery voltage	
		2	Ground	Ground		UP	Battery voltage
ВП	RH D74	2		Power window main switch	DOWN	0	
ΝП		2		(rear RH)	UP	0	
		3			DOWN	Battery voltage	

Is the measurement value within the specification?

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

2. CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

Power windo	w main switch	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
	1	LH D54	2		
D8	3		D34	3	Existed
Бо	5	RH	D74	3	LXISIGU
	7	KIT	D74	2	

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

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REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Power windo	w main switch		Continuity
Connector	Terminal		Continuity
	1	Ground	
Do	3	Ground	Not evieted
D8	5		Not existed
	7		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-104, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-18, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to PWC-104, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000004672513

1. CHECK REAR POWER WINDOW SWITCH

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

Rear power window switch	Terminal		Power window switch condition	Continuity	
	1	5	UP		
	3	4	OF .	Existed	
D54 (LH)	3	4	NEUTRAL		
D74 (RH)	5	2	NEOTIVAL		
	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-104, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE: Component Function Check

INFOID:0000000004672515

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

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

Is the inspection result normal?

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

NO >> Refer to PWC-19, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004672516

1. CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

Turn ignition switch OFF.

- 2. Disconnect front power window motor (driver side) connector.
- Turn ignition switch ON.

4. Check voltage between front power window motor (driver side) harness connector and ground.

(+) Front power window motor (driver side)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, (pp. 0x.)
	2			UP	Battery voltage
D10	2	Ground	Power window main switch	DOWN	0
1	Giodila	Fower window main switch	UP	0	
	1			DOWN	Battery voltage

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) 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	w main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	8	D10	2	Existed
Do	11	010	1	LAISIGU

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-104, "Removal and Installation".

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NO >> Repair or replace harness.

3.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check front power window motor (driver side).

Refer to PWC-20, "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-19</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004672517

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

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

Front power window motor (driver side) connector	Teri	Motor operation	
	(+)	(–)	ivioloi operalion
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-19, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004672518

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004672519

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

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

Is the inspection result normal?

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

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004672520

1. CHECK FRONT POWER WINDOW MOTOR INPUT SIGNAL

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

< DTC/CIRCUIT DIAGNOSIS >

(+) Front power window motor (passenger side)		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
	1	0		UP	Battery voltage
D40	1		Front power window switch	DOWN	0
D402	Ground	(passenger side)	UP	0	
	2			DOWN	Battery voltage

Is the measurement value within the specification?

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

2.check power window motor (passenger side) 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 s	Front power window switch (passenger side)		Front power window motor (passenger side)		
Connector	Terminal	Connector	Terminal	Continuity	
D38	D38 9		1	Existed	
D30	8	D40	2	LAISIGU	

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

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

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-104, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

Check front power window motor (passenger side).

Refer to PWC-21, "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-19</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

1. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

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

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Front power window motor (passen-	Terminal		- Motor condition	
ger side) connector	(+)	(–)	Wiotor Condition	
D40	2	1	DOWN	
D40	1	2	UP	

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-19, "Removal and Installation"</u>.

REAR LH

REAR LH: Description

INFOID:0000000004672522

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

REAR LH: Component Function Check

INFOID:0000000004672523

${f 1}$.CHECK REAR POWER WINDOW MOTOR LH OPERATION

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

Is the inspection result normal?

YES >> Power window motor LH is OK.

NO >> Refer to PWC-22, "REAR LH: Diagnosis Procedure"

REAR LH: Diagnosis Procedure

INFOID:0000000004672524

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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

`	+) ndow motor LH	(–)	Condition		Voltage (V) (Approx.)		
Connector	Terminal]			, , ,		
	1			Battery voltage			
D52	!	0	Cround	Ground	Poor power window switch I H	DOWN	0
D32	2	3 Ground		UP	0		
	3			DOWN	Battery voltage		

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

- Turn ignition switch OFF.
- 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	ndow switch LH	Rear power window motor LH		Rear power window motor LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
D54	5	D52	1	Existed		
	4	D32	3	LAISIEU		
			·			

< DTC/CIRCUIT DIAGNOSIS >

Connector			
Connector	Terminal	Ground	Continuity
D54	5	Ground	Not evisted
D54	4		Not existed

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>> Repair or replace harness. NO

3.check rear power window motor LH $\,$

Check rear power window motor LH.

Refer to PWC-23, "REAR LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor LH. Refer to GW-25, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

>> INSPECTION END

Refer to GI-40, "Intermittent Incident".

REAR LH: Component Inspection

1.CHECK REAR POWER WINDOW MOTOR LH

- 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 terminals.

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

>> Replace rear power window motor LH. Refer to GW-25, "Removal and Installation". NO

REAR RH

REAR RH: Description

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

1. CHECK REAR POWER WINDOW MOTOR RH OPERATION

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

Is the inspection result normal?

YES >> Power window motor RH is OK.

>> Refer to PWC-23, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR INPUT SIGNAL

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- 1. Turn ignition switch OFF.
- 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.

	+) ndow motor RH	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(* .pp. 6/)
	1	Ground		UP	Battery voltage
D72	ı		Rear power window switch RH	DOWN	0
DIZ	3	Giodila		UP	0
	3			DOWN	Battery voltage

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2.check rear power window motor RH circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH connector.
- 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
D74	5	D72	1	Existed
014	4	DIZ	3	LXISIGU

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

Rear power	window switch RH		Continuity
Connector	Terminal	Ground	Continuity
D74	5	Giodila	Not existed
D74	4		inot existed

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-104, "Removal and Installation".

NO >> Repair or replace harness.

3.check rear power window motor rh

Check rear power window motor RH.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor RH. Refer to <u>GW-25</u>, "<u>Removal and Installation</u>".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

REAR RH: Component Inspection

INFOID:0000000004672529

1. CHECK REAR POWER WINDOW MOTOR RH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor RH connector.

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3. Check motor operation by connecting the battery voltage directly to rear power window motor RH terminals.

Rear power window motor RH con-	Terminal		- Motor condition	
nector	(+)	(-)	Wolor Condition	
D72	3	1	DOWN	
UIZ	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-25</u>, "Removal and Installation".

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ENCODER

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004672530

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:0000000004672531

1. CHECK ENCODER OPERATION

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

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-26, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

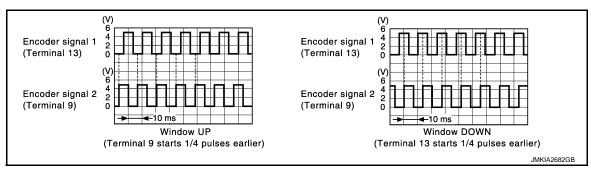
INFOID:0000000004672532

1. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.

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

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



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-104, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 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		window motor r side)	Continuity
Connector	Terminal	Connector	Terminal	
	9	D10	3	Existed
	13	010	5	Existed

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

< DTC/CIRCUIT DIAGNOSIS >

Power wind	ow main switch		Continuity
Connector	Terminal	Ground Not exist	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

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

Front power windo	+)	()	Voltage (V)	
Connector	w motor (driver side) Terminal	()	(Approx.)	
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

Turn ignition switch OFF.

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

Power windo	Power window main switch		Front power window motor (driver side)	
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	Connector Terminal		Continuity
D8	D8 15		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-104, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

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

Power windo	w 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 >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK GROUND CIRCUIT 2

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	2		Existed

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-19, "Removal and Installation"</u>.

NO >> Replace power window main switch. Refer to <u>PWC-104</u>, "<u>Removal and Installation</u>".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004672533

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:0000000004672534

1. CHECK ENCODER OPERATION

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

Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to PWC-28, "PASSENGER SIDE : Diagnosis Procedure".

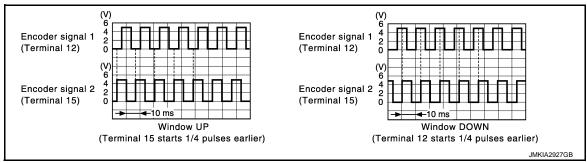
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004672535

1. CHECK ENCODER SIGNAL

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

(+)		Signal	
Front power window s	witch (passenger side)	(–)	(Reference value)	
Connector	Terminal			
D38	12	Ground	Refer to following signal	
D30	15	Ground	Refer to following signal	



Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to PWC-104, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

< DTC/CIRCUIT DIAGNOSIS >

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

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

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	1	Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check encorder power supply circuit

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

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

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	4		Not existed

Is the inspection result normal?

- YES >> Replace front power window switch (passenger side). Refer to PWC-104, "Removal and Installation".
- NO >> Repair or replace harness.

CHECK GROUND CIRCUIT 1

Turn ignition switch OFF.

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- 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 >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to GW-19, "Removal and Installation".

NO >> Replace front power window switch (passenger side). Refer to <u>PWC-104, "Removal and Installation".</u>

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POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

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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, 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:0000000004672537

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 DLK-51, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-31, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000004672538

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

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?

YES >> GO TO 4. NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+)			Voltage (V) (Approx.)	
Power window main switch		(–)		
Connector Terminal				
D8	14	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-104, "Removal and Installation".

NO >> GO TO 3.

${f 3.}$ CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

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

4. Check continuity between BCM connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-85, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

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, 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

< DTC/CIRCUIT DIAGNOSIS >

(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-51, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	Co	ondition
CDL LOCK SW	LOCK	: ON
CDL LOCK SW	UNLOCK : OFF	: OFF
CDL TINI OCK CIW	LOCK	: OFF
CDL UNLOCK SW	UNLOCK	: ON

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to <u>PWC-33</u>, "<u>FRONT POWER WINDOW SWITCH (PASSENGER SIDE)</u>: <u>Diagnosis Procedure</u>".

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

INFOID:0000000004672541

${f 1}.$ check power window switch output signal

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

(+) Front power window sw Connector		(-)	Signal (Reference value)
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-104, "Removal and Installation".

NO >> GO TO 2.

2. CHECK POWER WINDOW SERIAL LINK SIGNAL

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

(+) Front power window switch (passenger side)		(–)	Voltage (V) (Approx.)
Connector Terminal			
D38	16	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-104, "Removal and Installation".

NO >> GO TO 3.

3.check power window serial link circuit

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

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В	CM	Front power window switch (passenger side)		ssenger side) Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M123	132	D38	16	Existed	

4. Check continuity between BCM connector and ground.

ВСМ			Continuity	
Connector	Terminal	Ground	Continuity	
M123	132		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-85, "Removal and Installation".

NO >> Repair or replace harness.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000004919004

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VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
FR WIPER HI	Other than front wiper switch HI	Off	
	Front wiper switch HI	On	D
FR WIPER LOW	Other than front wiper switch LO	Off	
	Front wiper switch LO	On	E
FR WASHER SW	Front washer switch OFF	Off	
	Front washer switch ON	On	
FR WIPER INT	Other than front wiper switch INT	Off	F
	Front wiper switch INT	On	
FR WIPER STOP	Front wiper is not in STOP position	Off	G
	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	Н
	Rear wiper switch ON	On	
RR WIPER INT	Other than rear wiper switch INT	Off	
	Rear wiper switch INT	On	_
DD WACHED CW	Rear washer switch OFF	Off	
RR WASHER SW	Rear washer switch ON	On	J
DD WIDED CTOD	Rear wiper is in STOP position	Off	
RR WIPER STOP	Rear wiper is not in STOP position	On	
TURN SIGNAL R	Other than turn signal switch RH	Off	PW
	Turn signal switch RH	On	
TURN SIGNAL L	Other than turn signal switch LH	Off	L
	Turn signal switch LH	On	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off	
	Lighting switch 1ST or 2ND	On	M
HI BEAM SW	Other than lighting switch HI	Off	
	Lighting switch HI	On	N
HEAD LAMP SW 1	Other than lighting switch 2ND	Off	
	Lighting switch 2ND	On	
HEAD LAMP SW 2	Other than lighting switch 2ND	Off	0
	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	
	Lighting switch PASS	On	_ r
AUTO LIGHT SW	Other than lighting switch AUTO	Off	
	Lighting switch AUTO	On	
FR FOG SW	Front fog lamp switch OFF	Off	
	Front fog lamp switch ON	On	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW DR	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD CW AC	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
DOOD CW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
D00D 0W DV	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
	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
	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 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
TD/DD ODEN CW/	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
DKE LOOK	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off
	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DIVE DANIE	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DIVE DAY COOK	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On
DIVE MODE OUT	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simultaneously	On

Monitor Item	Condition	Value/Status	
ODTIONI OFNIOOD	Bright outside of the vehicle	Close to 5 V	– A
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	
250 CW DD	Driver door request switch is not pressed	Off	_ В
REQ SW -DR	Driver door request switch is pressed	On	_
250 014/ 40	Passenger door request switch is not pressed	Off	
REQ SW -AS	Passenger door request switch is pressed	On	С
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	_
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	– D
DEO CW. DD/TD	Back door request switch is not pressed	Off	
REQ SW -BD/TR	Back door request switch is pressed	On	
	Push-button ignition switch (push switch) is not pressed	Off	
PUSH SW	Push-button ignition switch (push switch) is pressed	On	F
	Ignition switch in OFF or ACC position	Off	_
GN RLY2 -F/B	Ignition switch in ON position	On	_
CC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	- G
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off	Н
LUCH SW RAKE SW 1 RAKE SW 2	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	-
RAKE SW 1 RAKE SW 2 ETE/CANCL SW	The brake pedal is not depressed	Off	
DRAKE SW Z	The brake pedal is depressed	On	J
DETE/CANCL SW	Selector lever in P position	Off	
LIL/CANCE 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	PW
OF I PIN/IN SVV	Selector lever in P or N position	On	
Z/L LOCK	Steering is unlocked	Off	
s/L -LOCK	Steering is locked	On	
2/1 11NH 0014	Steering is locked	Off	_
S/L -UNLOCK	Steering is unlocked	On	M
Y DELAYE'D	Ignition switch in OFF or ACC position	Off	_
S/L RELAY-F/B	Ignition switch in ON position	On	_
INUX OFN. 55	Driver door is unlocked	Off	– N
JNLK SEN -DR	Driver door is locked	On	_
211011014 12214	Push-button ignition switch (push-switch) is not pressed	Off	0
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	_
ON DIV. 5/5	Ignition switch in OFF or ACC position	Off	_
GN RLY1 -F/B	Ignition switch in ON position	On	P
	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	_

Monitor Item	Condition	Value/Status
CET D MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
OET N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENCINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
C/L LOCK IDDM	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
C/LUNIUK 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
3/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 speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	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 ON I LAG	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
KEY SW -SLOT	The key is not inserted into key slot	Off
KET SW -SLOT	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
CONFRIMID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIDM ID 4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
COM INM IDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done

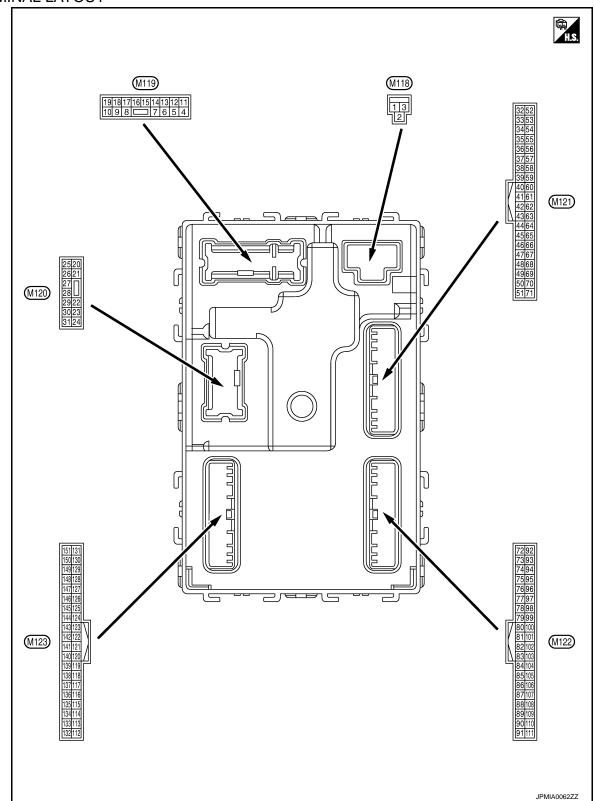
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Monitor Item	Condition	Value/Status	Α
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet	— A
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done	В
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet	
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done	С
TD 4	The ID of fourth key is not registered to BCM	Yet	
TP 4	The ID of fourth key is registered to BCM	Done	<u> </u>
ΓP 3	The ID of third key is not registered to BCM	Yet	
P 3	The ID of third key is registered to BCM	Done	E
FD 0	The ID of second key is not registered to BCM	Yet	
ΓP 2	The ID of second key is registered to BCM	Done	
FD 4	The ID of first key is not registered to BCM	Yet	F
ГР 1	The ID of first key is registered to BCM	Done	
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire	G
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire	H
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire	
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire	ı
D REGST FL1	ID of front LH tire transmitter is registered	Done	
D REGST FLT	ID of front LH tire transmitter is not registered	Yet	
D DECCT ED4	ID of front RH tire transmitter is registered	Done	
D REGST FR1	ID of front RH tire transmitter is not registered	Yet	
D DECCE DD4	ID of rear RH tire transmitter is registered	Done	PW
D REGST RR1	ID of rear RH tire transmitter is not registered	Yet	
D DECOT DL 4	ID of rear LH tire transmitter is registered	Done	
D REGST RL1	ID of rear LH tire transmitter is not registered	Yet	
A/A DAUAIC I. AAAD	Tire pressure indicator OFF	Off	
WARNING LAMP	Tire pressure indicator ON	On	M
	Tire pressure warning alarm is not sounding	Off	
BUZZER	Tire pressure warning alarm is sounding	On	

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TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description				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	Battery voltage	C
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	ı	Battery voltage	_
					o battery saver is activated. room lamp power supply)	0 V	D
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	b battery saver is not activation room lamp power supply)	Battery voltage	E
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	F
(L)	Giouria	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V	
7	Cround	Stop James	Outrost	Stop lomp	ON	0 V	G
(Y)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage	
8	Ground	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage	_ -
(V)	V) Ground LOCK	Catput	7.11 00010	Other than LOCK (Actuator is not activated)	0 V	-	
9	0	Driver door, fuel lid	U	UNLOCK (Actuator is activated)	Battery voltage	ı	
(G)	Ground	UNLOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V	
10	Cround	Rear RH door and rear LH door UN-	Quitaut	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage	
(BR)	Ground	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V	PV
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch ON	ı	0 V	
					OFF	0 V	IV
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0	N
					055 000	JSNIA0010GB	P
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage	=
(1)		·			ACC	0 V	

	inal No. e color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch LH	0 V
19 (V)	Ground	Room lamp timer control	Output	Interior room	OFF	1 s PKID0926E 6.5 V Battery voltage
(V)		CONTROL	Gaipai		ON 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
23	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Ground	back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 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
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	6.5 V
(G)		·	,	·	ON (Operated)	Battery voltage

	inal No.	Description				Value	Δ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
-					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	ВС
34 (SB)	Ground	Luggage room antenna (–)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E
35	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S S S S S S S S S	G H I
(V)	Glound	na (+)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J PWC
38		Back door antenna (–		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S	M
(B)	Ground)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	O

	inal No. e color)	Description			O INC	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
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 11 1 s JMKIA0062GB
(W)	Glound	(+)	Output	operated with ignition switch OFF Ignition switch Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47		Ignition relay (IPDM	.		OFF or ACC	Battery voltage
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V
52	Ground	Starter relay control	Output		When selector lever is in P or N position	Battery voltage
(SB)	52 (SB) Ground	Starter relay control	Output	UN	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 opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
64	Cround	Intelligent Key warn-	Outnut	Intelligent Key	Sounding	0 V
(V)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	Battery voltage
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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB	
					ON (Door open)	0 V	
					Pressed	0 V	
67 (G)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms 11.8 V	
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms 11.8 V	
					ON (Door open)	0 V	
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB	P
					ON (Door open)	0 V	

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0

Ρ

	ninal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
72		Room antenna 2 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground	(Center console)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
73	Ground	Room antenna 2 (+)	Output	ut Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(G)	Signific	(Center console)	Guipai		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
74	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)		tenna (-)	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

	inal No.	Description				Value	Λ
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
75		Passenger door an-		When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(GR)	Ground	tenna (+)	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	E F
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	G H
(V)	Clound	(-)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	PWC
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 1 s JMKIA0062GB	M
(LG)	Giouria	(+)	Output	door request switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O P

	inal No.	Description	ı			Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
78	Ground	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)		(Instrument panel)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+)	Output	put Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Ground	(Instrument panel) Output	Сигри		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
80 (GR)	Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the 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
(R)	2.50.10	block (J/B)] control	- Caipat	-g	ON	Battery voltage

	ninal No. e color)	Description	T		O andition	Value														
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)														
83		Remote keyless entry	Input/	During waiting		(V) 15 10 5 1 ms JMKIA0064GB														
(Y)	Ground	receiver communication	Output	When operating e	ither button on the key	(V) 15 10 5 1 ms JMKIA0065GB														
			All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V																
87 (BB)	Ground	Combination switch	Input Combination switch								Combination						(W	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB 1.3 V	F
(BR) Ground		INPUT 5		switch	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														

	inal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4 V
					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 1.3 V
					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	Crownsi	Push-button ignition	lowt	Push-button igni-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_

	inal No.	Description				Value	Λ
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	0 V (V) 15 10 1 s JPMIA0015GB	B C
ļ					ON	6.5 V Battery voltage	_
93	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage	Е
(V)			·		ON OFF	0 V Battery voltage	F
94 (Y)	Ground	Puddle lamp control	Output	Puddle lamp	ON	0 V	. '
95	0	100	0 1 1	1	OFF	0 V	
(O)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage	G
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	Battery voltage	Н
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status UNLOCK status	0 V Battery voltage	
98		Steering lock condi-	_		LOCK status	Battery voltage	.
(P)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V	
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V	J
(R)	Orouna	tion switch	mput	Ocicotor level	Any position other than P	Battery voltage	
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	(V) 15 10 10 ms JPMIA0016GB	L M
					ON (Pressed)	0 V	N
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 JPMIA0016GB	O P
!					i .		
102		Blower fan motor re-			OFF or ACC	1.0 V	-

	inal No. e color)	Description			Condition	Value					
+	-	Signal name	Input/ Output		Condition	(Approx.)					
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage					
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage 0 V					
					All switches OFF	(V) 15 10 2 ms JPMIA0041GB					
				Combination switch (Wiper intermittent dial 4)	Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V					
107 (LG)	Ground	Combination switch INPUT 1	Input		switch (Wiper intermit-	switch (Wiper intermit-	switch (Wiper intermit-	switch (Wiper intermit-	switch (Wiper intermit-	switch (Wiper intermit-	Turn signal switch RH
					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 >

Terminal No.	Description	1			Value
(Wire 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
				Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R) Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 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

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	inal No. e color)	Description	1		0	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					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 5 0 10 ms 10 ms JPMIA0012GB

< ECU DIAGNOSIS INFORMATION >

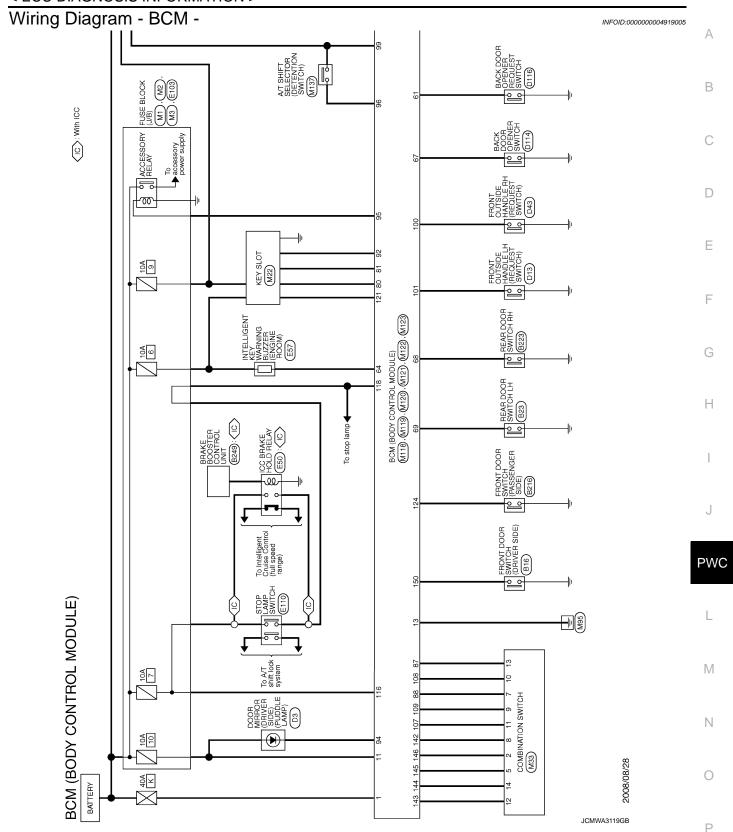
	inal No. e color)	Description	1	O and distant		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	Battery voltage
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Orouna	Optical scrisor	mput	ON	When dark outside of the vehicle	Close to 0 V
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2 (Without ICC)		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Manage 188)	Input		ON (Brake pedal is depressed)	Battery voltage
(P)	Cround	Stop lamp switch 2	Input		OFF (Brake pedal is not de- brake hold relay OFF	0 V
		(With ICC)		Stop lamp switch (pressed) or ICC b	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 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	When the key is in	nserted into key slot	Battery voltage
(BR)	Ciodila		pat	When the key is n	ot inserted into key slot	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)					ON	Battery voltage

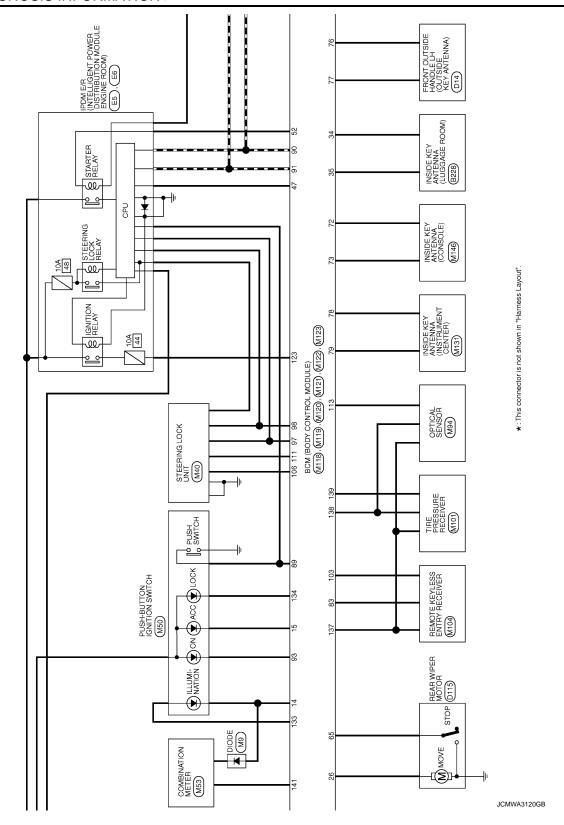
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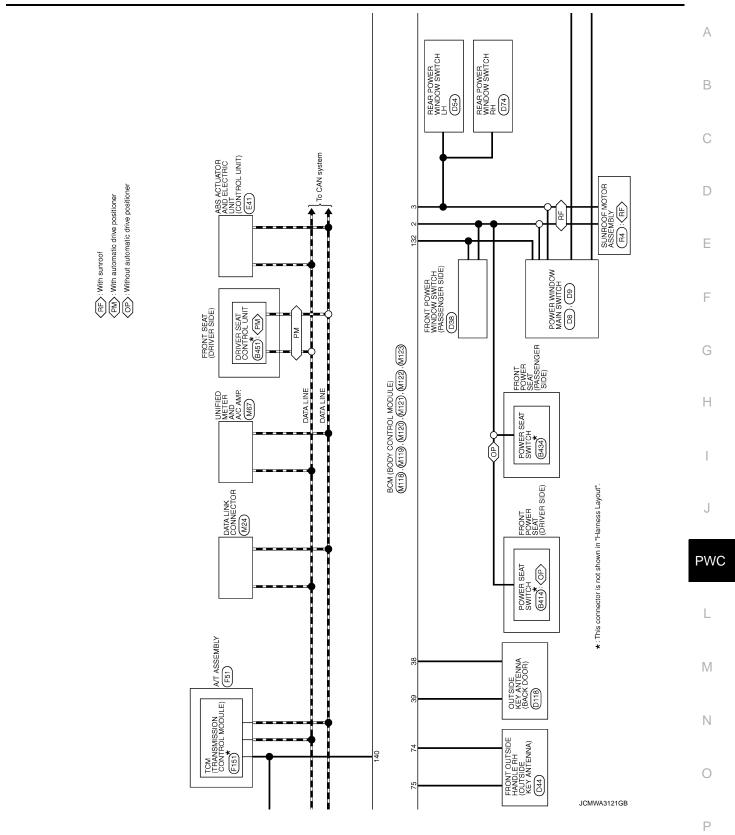
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (Door open)	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OFI	F or ACC	Battery voltage
					ON (Tail lamps OFF)	9.5 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
			-	lamp	ON	0 V
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(Y)	Ground	power supply	Output	igililori switch	ACC or ON	5.0 V

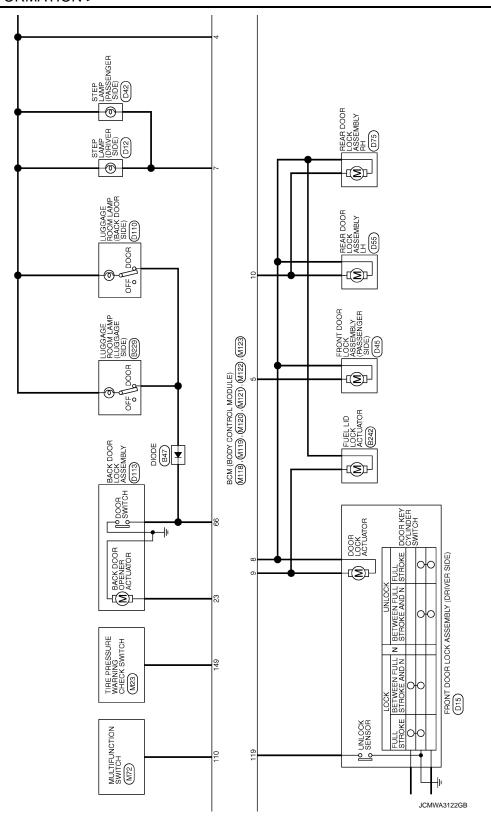
	inal No.	Description				Value	Λ
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
139		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 	В
(L)	Ground	er communication	Output	ÓN	When receiving the signal from the transmitter	(V) 4 2 0 • 0.2s OCC3880D	E
140		Selector lever P/N	_		P or N position	Battery voltage	G
(GR)	Ground	position	Input	Selector lever	Except P and N positions	0 V	
					ON	0 V	Н
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	J
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	OFF All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	Battery voltage 0 V (V) 15 10 2 ms JPMIA0031GB 10.7 V	L M
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) 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	0 V (V) 15 10 2 ms JPMIA0032GB 10.7 V	O P

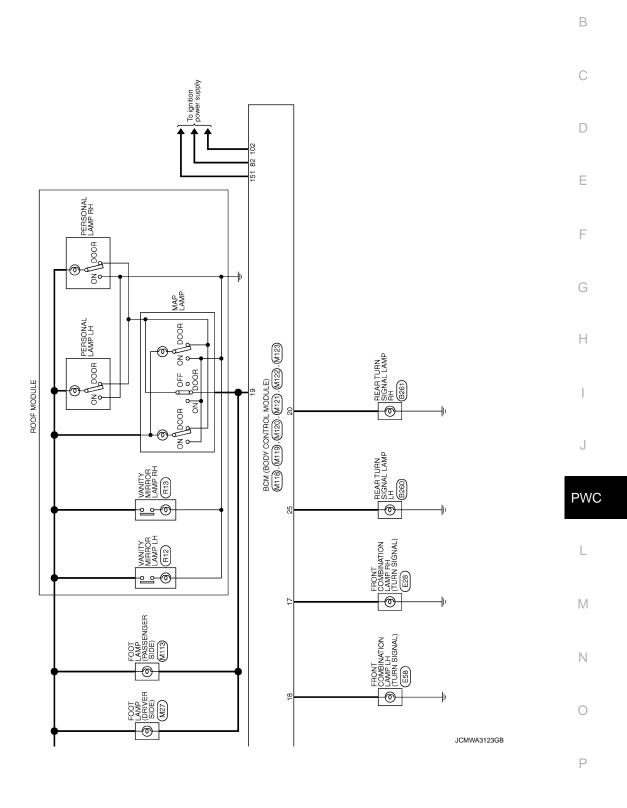
	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
			'		All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15
(G)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	10 5 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	
				Combination	Front wiper switch LO	(V)
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB 10.7 V
					All switches OFF	0 V
					Front fog lamp switch ON	
				O and the office	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	Combination switch	Lighting switch PASS	10
(SB)	Cround	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	0
-						10.7 V
149 (W)	Ground	Tire pressure warning check switch	Input	Ignition switch ON		(V) 15 10 5 0 10 ms 10 ms 11.8 V
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Ground	ger relay control	Output	fogger	Not activated	Battery voltage











Α

BCM (BODY CONTROL MODULE)	Connector No	W	Connector No MIIQ	18 O TILIBALS KENIAL LI (CEDONIT)
Connector Name COMBINATION SWITCH Connector Type TH16FW-NH	Connector Name Connector Type	BCM (BODY CONTROL MODULE) M03FB-LC	ae ae	> >
1 2 3 4 5	E.S.	133	H.S. 4 5 6 7 6 9 10 1112 13 14 15 16 17 18 19	
		7		
Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire No. o	Terminal Golor No. of Wire	$-\!\!+\!\!\!+\!\!\!\!+$	Terminal Color C	
8 0 OUTPUT 5 9 Y INPUT 5	2	FOWER WINDOW POWER SUPPLICARY)	7 T ALL DOOR, FEEL LID LOCK OUTPUT 9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	
10 R INPUT 4 11 LG INPUT 1			10 BR REAR DOOR UNLOCK OUTPUT 11 R BAT (FUSE)	
12 P OUTPUT 1 13 BR INPIT 5			13 B GND 14 W PISH-BUTTON GNITION SWILL GND	
i o			: >-	
			17 W TURN SIGNAL RH (FRONT)	
Commoder No M400	N settlement	Masi	20 PP PLAN DILBOOD CW	
9	Connector Name	BCM (BODY CONTROL MODULE)	. a	
П	Connector Type	TH40FGY-NH		
母	偃			
H.S. [20[21[] [22]23[24]				
27 28 29 30	51 50 49 48 71 70 69 68	8 47 46 45 44 43 42 41 40 39 38 37 36 55 34 33 32 32 38 37 86 55 54 53 52 38 3		
Terminal Color Signal Name [Specification]	<u></u>	Signal Name (Specification)		
	No. of Wire	LI IGGAGE BOOM ANT-		
. 0	Н	LUGGAGE ROOM ANT+		
5 0	36 M	BACK DOOK ANT-		
	Н	IGN RELAY (IPDM E/R) CONT		
	52 SB	STARTER RELAY CONT BACK DOOD OPENED BEOLIEST SW		
	Н	I-KEY WARN BUZZER (ENG ROOM)		
	65 66 B	REAR WIPER STOP POSITION BACK DOOR SW		
	H	BACK DOOR OPENER SW		

JCMWA3124GB

< ECU DIAGNOSIS INFORMATION >

NSW SW S	А
RECEIVER SENSOR POWER SUPPLY Three PRESSURE RECEIVER COMM SECURITY INDIGATOR OUTPUT COMEI SW OUTPUT 1 COMEI SW OUTPUT 3 COMEI SW OUTPUT 3 COMEI SW OUTPUT 3 Three PRESS WARRING CHECK SW PREVER DOOR SW PREAR WINDOW DEFOCGER RELAY CONT	В
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CONTROL MODI STATE THAT STATE STATE STOP LAMP ST STOP LAMP ST ST ST ST ST ST ST ST ST ST	F
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Connector Connec	Н
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KEVLESS ENTRY RECEIVER COMM COMBIS WINDLI 5 COMBIS WINDLI 5 COMBIS WINDLI 1 CANH-I CANH-I CANH-I CANH-I CANH-I CONDIE LAND CONT ACC RELAY CONT ACC RELAY CONT ACC RELAY CONT S.I. CONDITION 1 COMBIS WINDLI 1 COMBIS WINDLI 2 HAZARO SWINDLI 1 COMBIS WINDLI 2 HAZARO SWINDLI 2 ACARD SWINDLI 3 S.I. UNIT COMM	J
✓ □ □	PW
88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	L
DDULE) NULE) Reation Reation RAINT- TOWNTROL SIGNAL CONT	
BODY CONTROL MODULE) B-NH Signal Name [Specification] ROOM ANT2- ROOM ANT2- PASSENGER DOOR ANT- PROSENGER DOOR ANT- PROOM ANT1- ROOM ANT1- ROOM ANT1- ROOM ANT1- ROOM ANT1- IMMOBI ANTENNA CONTROL IMMOBI ANTENNA CONTROL IGN RELAY (F/B) CONT	М
BCM (BODY CONTROL MODULE) Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FB-NH Color The BCM (BODY CONTROL MODULE) Connector Type TH40FB-NH Color The BCM (BODY CONTROL MODULE) Color TH40FB-NH Col	N
Connector Name Connector Name Connector Name Connector Name Connector Type Conn	0
BCM Connector Co	JCMWA3125GB
	D

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

PWC-65 Revision: 2010 March 2009 EX35

INFOID:0000000004919006

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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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.

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

Revision: 2010 March

- 1. More than 1 minute is passed after the rear wiper stops.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

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	DTC
Priority 1	B2562: LOW VOLTAGE
.,	U1000: CAN COMM CIRCUIT 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: PUSH-BTN IGN SW ■ B2557: VEHICLE SPEED ■ B2560: STARTER CONT RELAY ■ B2600: SHIFT POSITION ■ B2601: SHIFT POSITION ■ B2602: SHIFT POSITION ■ B2603: SHIFT POSI STATUS ■ B2604: PNP SW ■ B2605: PNP SW ■ B2605: S/L RELAY ■ B2606: S/L RELAY ■ B2606: S/L RELAY ■ B2609: S/L STATUS ■ B2609: S/L STATUS ■ B2600: STEERING LOCK UNIT ■ B2601: S/L STATUS ■ B2614: ACC RELAY CIRC ■ B2614: ACC RELAY CIRC ■ B2616: IGN RELAY CIRC ■ B2616: IGN RELAY CIRC ■ B2616: BCMM ■ B2619: BCM ■ B2614: PUSH-BTN IGN SW ■ B2614: PUSH-BTN IGN SW ■ B2614: VEHICLE TYPE ■ B2626: KEY REGISTRATION □ B2626: KEY REGISTRATION □ C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	C1704: LOW PRESSURE FL	
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	E
	C1708: [NO DATA] FL	
	C1709: [NO DATA] FR	
	C1710: [NO DATA] RR	
	C1711: [NO DATA] RL	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	_
	C1715: [CHECKSUM ERR] RL	
5	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	E
	C1719: [PRESSDATA ERR] RL	L
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	I I
	C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	
	C1727: [BATT VOLT LOW] RL	
	C1734: CONTROL UNIT	
	B2621: INSIDE ANTENNA	ŀ
6	B2622: INSIDE ANTENNA	
	B2623: INSIDE ANTENNA	

DTC Index INFOID:0000000004919008

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-16, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-37
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-38
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-39
B2013: ID DISCORD BCM-S/L	×	×	_	_	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	_	_	SEC-49
B2190: NATS ANTENNA AMP	×	_	_	_	<u>SEC-41</u>
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-44</u>
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-45
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-46
B2195: ANTI SCANNING	×	_	_	_	SEC-47
B2553: IGNITION RELAY	_	×	_	_	PCS-49

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2555: STOP LAMP	_	×	_	_	SEC-52
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-54
B2557: VEHICLE SPEED	×	×	×	_	SEC-56
B2560: STARTER CONT RELAY	×	×	×	_	SEC-57
B2562: LOW VOLTAGE	_	×	_	_	BCS-40
B2601: SHIFT POSITION	×	×	×	_	SEC-58
B2602: SHIFT POSITION	×	×	×	_	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-63
B2604: PNP SW	×	×	×	_	SEC-66
B2605: PNP SW	×	×	×	_	SEC-68
B2606: S/L RELAY	×	×	×	_	SEC-70
B2607: S/L RELAY	×	×	×	_	SEC-71
B2608: STARTER RELAY	×	×	×	_	SEC-73
B2609: S/L STATUS	×	×	×	_	SEC-75
B260A: IGNITION RELAY	×	×	×	_	PCS-51
B260B: STEERING LOCK UNIT	_	×	×	_	SEC-79
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-80
B260D: STEERING LOCK UNIT	_	×	×		SEC-81
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-82
B2612: S/L STATUS	×	×	×	_	SEC-86
B2614: ACC RELAY CIRC	_	×	×	_	PCS-53
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-56
B2616: IGN RELAY CIRC	_	×	×	_	PCS-59
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-90
B2618: BCM	×	×	×		PCS-62
B2619: BCM	×	×	×	_	SEC-92
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-93
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-96
B2621: INSIDE ANTENNA	_	×	_	_	DLK-59
B2622: INSIDE ANTENNA	_	×	_		DLK-61
B2623: INSIDE ANTENNA	_	×	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	×	_	SEC-83
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-84</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-85
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	\\/T 47
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-17</u>
C1707: LOW PRESSURE RL	_	_	_	×	

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	WT-19	
C1710: [NO DATA] RR	_	_	_	×	<u> </u>	
C1711: [NO DATA] RL	_	_	_	×		
C1712: [CHECKSUM ERR] FL	_	_	_	×		
C1713: [CHECKSUM ERR] FR	_	_	_	×	WT-22	
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u> </u>	
C1715: [CHECKSUM ERR] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT OF	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-25</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1720: [CODE ERR] FL	_	_	_	×		
C1721: [CODE ERR] FR	_	_	_	×	\\/T 07	
C1722: [CODE ERR] RR	_	_	_	×	<u>WT-27</u>	
C1723: [CODE ERR] RL	_	_	_	×		
C1724: [BATT VOLT LOW] FL	_	_	_	×		
C1725: [BATT VOLT LOW] FR	_	_	_	×	WERC	
C1726: [BATT VOLT LOW] RR	_	_	_	×	- <u>WT-30</u>	
C1727: [BATT VOLT LOW] RL	_	_	_	×	1	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-33	
C1734: CONTROL UNIT	_	_	_	×	WT-34	

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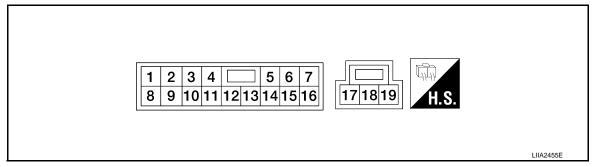
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POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW MAIN SWITCH

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

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
				Ignition switch ON	Battery voltage	
10	Ground	Retained power signal	Input	Within 45 seconds after ignition switch is turned to OFF	Battery voltage	
(SB)			'	When driver side or passenger side door is opened during retained power operation	0	
11 (G)	Ground	Front power window motor (driver side) 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 front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms JMKIA0070GB	
14 (V)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating	(V) 15 10 5 0 10 ms JPMIA0013GB	
15 (B)	Ground	Encoder power supply	Output	Ignition switch ON	Battery voltage	
17 (B)	Ground	Ground	_	_	0	
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage	

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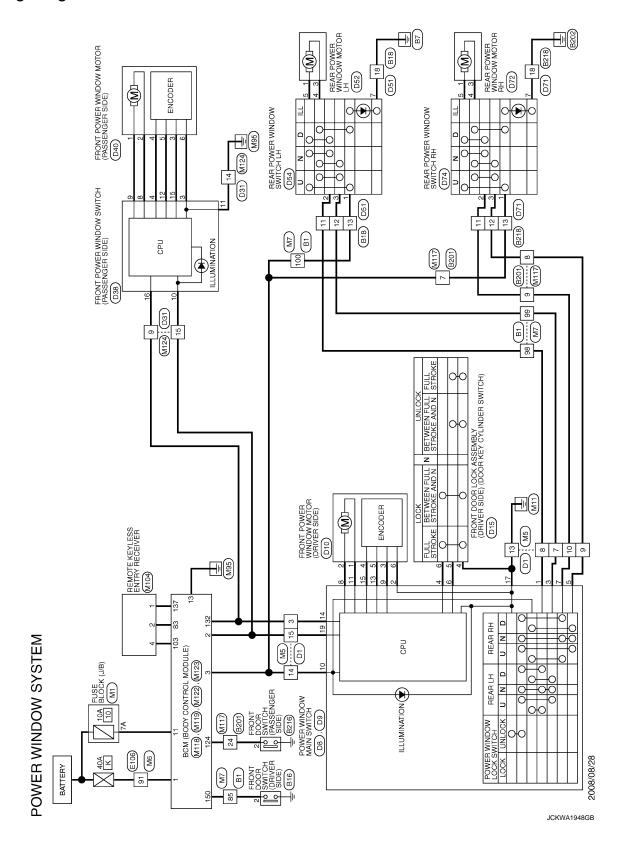
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Wiring Diagram - POWER WINDOW SYSTEM -

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		А
WRE CS16-TM4 CS16-TM4 Sgral Name (Specification)		В
MRE TO WIRE TO SERVICE		С
Connector No. Connector Name Connector Type Terminal Color No. of Wre 9 W 24 GR		D
12 11 12 11	feation]	Е
EE TO WIRE OPW-NSS 7 6 7 6 7 3 2 16 15 14 13 12 Signal Name [Specification]	No. D1	F
No Bit		G
Connector No. Connector Type Connector Type No. 10 No. 11 No. 13 No. 18 No. No. 18 No.	Connector No Connector No Connector No Connector No Connector Type Connector Ty	Н
(DRIVER SIDE)	13 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I
B16 AGPW AGPW Signal Name [Specification]	8 F TO WIRE OWW-NSB Signal Name [5]	J
Connector No. [8] 6 Connector Name FRO Connector Types A031 LS. Terminal Color No. of Wire 2 V	Connector No. B218 Connector Name WIFE Connector Type TK101 10 9 8 7 11 0 W Wre 11 W Wre 13 LG 18 B 18 B	PWC
		L
WIRE CSIG-TM4 Signal Name (Specification)	FRONT DOOR SWITCH (PASSENGER SIDE.) AGGIV Signal Name [Specification]	М
MARE TO THROWN THE TO THROWN THE TO THROWN THE TO THROWN THE THROWN THROW THROWN THROW THR	Signal N	N
DOWER W Connector No. Connector Name Connector Type	Connector No. B Connector No. B Connector Name S Connector Type A Connector Type Connector T	0
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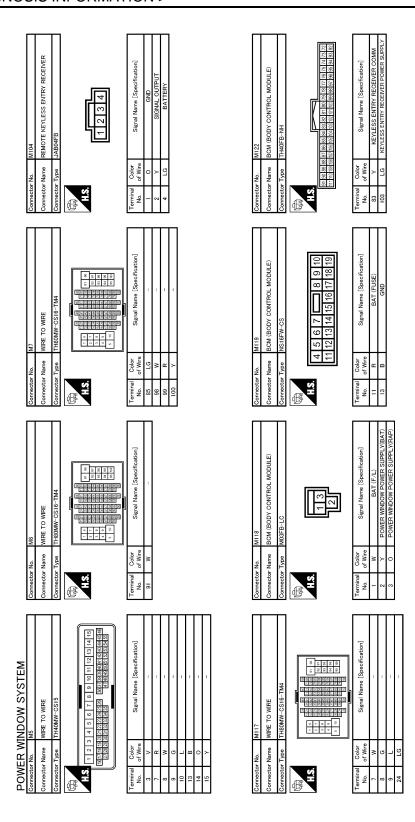
Connector No. D10 Connector Name SIDE) Connector Type NSDEFW-CS ASSET TYPE NSDEFW-CS The ST TYPE NSDEFW-CS TH	Terminal Color Signal Name [Specification] No. of Wire Color Color	Connector No. D40 Connector Name FROMT POWER WINDOW MOTOR Connector Type MSDEFW-CS WASSENDER SIDE. Connector Type MSDEFW-CS 1	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 2 2 - -
Connector No. D9 Connector Name POWER WINDOW MAIN SWITCH Connector Type NISOSFW-CS H.S.	Terminal Color No. of Wire Signal Name [Specification] 17 B 19 Y -	Connector No. D38 Connector Name FROMT POWER WINDOW SWITCH PASSENGER SIDE) Connector Type NS16FW-CS	Terminal Color No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire No. of
15 P P 15 P P P P P P P P P P P P P P P		Connector No. D31	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 19 V
Connector No. 08	Terminal Color Signal Name (Specification) 1 W	Connector No. D15 Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) Connector Type EOFF CY FRS H.S.	Terminal Color Signal Name [Specification] No. of Wire S

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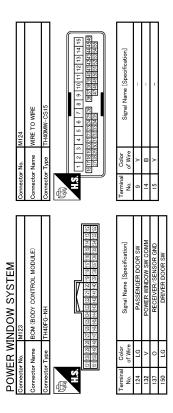
< ECU DIAGNOSIS INFORMATION >

Connector No. D71 Connector Name WIRE TO WIRE Connector Type TX I DAMY-NSS II.S T 2 3 4 5 6 7 8 9 10 II.S T 12 13 14 15 16 17 18	Terminal Color No. of Wire Signal Name [Specification] 11 V	Connector No MI Connector Name FUSE BLOCK (J/B) Connector Type NS06FW-M2 H.S 3A 2A1A RA 7A6A5A4A No of Wire Signal Name [Specification] 7A R	A B C	
Connector No. D54 Connector Nume REAR POWER WINDOW SWITCH LH Connector Type NS08FW-CS MASSER FW CS Connector Type	Terminal Color Signal Name [Specification] 1	Connector No. E106 Connector Name WIRE TO WIRE Connector Type THROFFW-CS16-TM4 LAS Francis Color Signal Name [Specification] Terminal Color Signal Name [Specification] 11	E F G	
Connector No. D52 Connector Name REAR POWER WINDOW MOTOR LH Connector Type RSD6FG M.S. 1 2 3 4 5 6 4 5 6	Terminal Color Signal Name [Specification] No. of Wire G -	Connector No. D74	J PW0	С
Connector Numboow SYSTEM Connector Number To WIRE TO WIRE Connector Type TK10MW-NSS	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire No. of	Connector Name REAR POWER WINDOW MOTOR RH Connector Type RS08FG H.S. Terminal Color No. of Wire Signal Name [Specification] 1 0 3 L	L M N O	
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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.

< ECU DIAGNOSIS INFORMATION >

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

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

- Auto-up operation
- Anti-pinch function
- Door key cylinder switch power window function

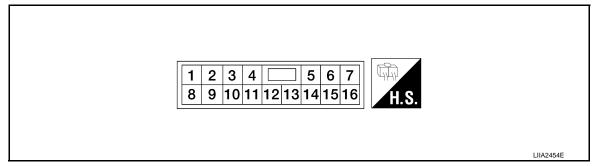
When fail-safe control is activated, perform initialization procedure to recover. If a malfunction is detected in power window switch or more, fail-safe control is activated again.

< ECU DIAGNOSIS INFORMATION >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Terminal No.		Description			Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
3 (LG)	Ground	Encoder ground	_	_	0	
4 (GR)	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	

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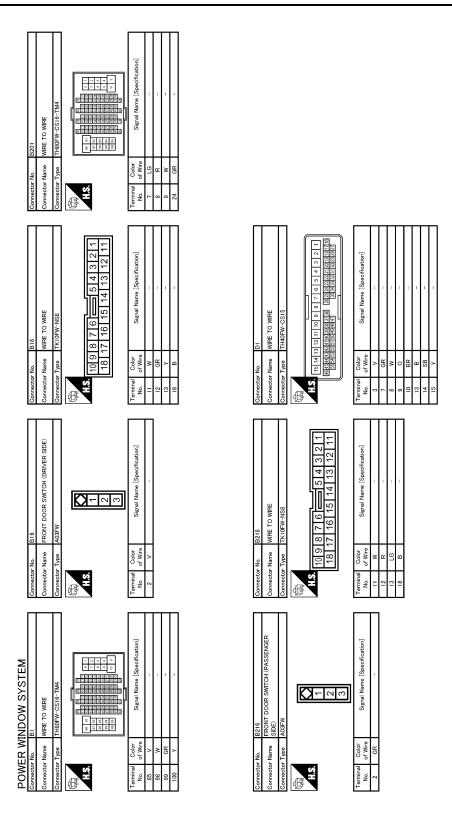
< ECU DIAGNOSIS INFORMATION >

Termi	nal No.	Description			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 JMKIA0070GB
16 (V)	Ground	Power window serial link	Input/ Output	Ignition switch ON or power window timer operating.	(V) 15 10 5 0 10 ms JPMIA0013GB

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - POWER WINDOW SYSTEM -INFOID:0000000004345965 Α REAR POWER WINDOW MOTOR LH (D52) REAR POWER WINDOW MOTOR RH FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

(D40) \$ \$ В ENCODER REAR POWER WINDOW SWITCH LH REAR POWER WINDOW SWITCH RH C D31) (M124) (M95) D FRONT POWER WINDOW SWITCH (PASSENGER SIDE) = 2 5 Е ± 5 5 B218 100 M7 ILLUMINATION CPU M117 B201 F 66 M124 (D31) [B] G Н FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) (DOOR KEY CYLINDER SWITCH) (D15) LOCK
BETWEEN FULL N E J FRONT POWER WINDOW MOTOR (DRIVER SIDE) ENCODER \$ REMOTE KEYLESS ENTRY RECEIVER (M104) 13 MS STROKE PWC M95 L REAR RH 15 POWER WINDOW SYSTEM M CPU BCM (BODY CONTROL MODULE) (M118) (M119) (M122) (M123) M5 10 REAR LH z o ILLUMINATION (*) Ν POWER WINDOW 0 Me 2008/08/28 BATTERY Р JCKWA1948GB



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< ECU DIAGNOSIS INFORMATION >

Connector No. DIO	Connector No. D40 Connector Name (PRONT POWER WINDOW MOTOR (PASSENGER SIDE) Connector Type NSO6FW-CS H.S. 1	No. of Wire Signal Name [Specification]	A B C
Connector No. D9 Connector Name POWER WINDOW MAIN SWITCH	Connector No. D38 Connector Type NS16FW-CS Connector Type NS16FW-CS A.S. FRONT POWER WINDOW SWITCH NS16FW-CS A.S. FRONT POWER WINDOW SWITCH T 2 3 4	Terminal Color Signal Name Specification	E F G
© 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Connector No. D31 Connector Name WIRE TO WIRE Connector Type TH40FW-CS15 Th5 12 11 10 9 8 7 6 5 4 3 2 1	Terminal Color No. 9 W - 19 W - 15 Percification]	J
Connector Name	Connector No. D15 Connector Name SIDE) Connector Type E06FGY-RS H.S. (1 2 3 4 5 6)	Color Signal Name [Specification] No. of Wire Signal Name [Specification] Signal Name Specification] Signal Na	M N O
		JCKWA19	50GB

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< ECU DIAGNOSIS INFORMATION >

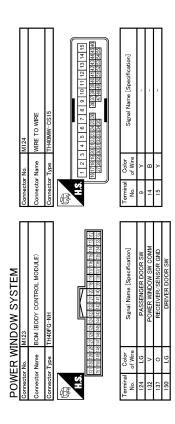
Connector No. D71	П	Connector Name FUSE BLOCK (J/B)	Terminal Color No. of Wire Signal Name [Specification]
Connector No. D54	пп п	Connector Name WIRE TO WIRE Connector Type ITH80FW-CS16-TW4 IN ITH80FW-CS16-TW4	
Connector No. DS2 Connector Name REAR POWER WINDOW MOTOR LH Connector Type RS06FG H.S. Terminal Color No. of Wire Signal Name (Specification) 1 G 3 L		Connector Name REAR POWER WINDOW SWITCH RH Connector Type NISQBPW-CS H.S.	Terminal Color Signal Name [Specification]
Connector Name Connector Type TK10MW-NSB	п п	Connector Name REAR POWER WINDOW MOTOR RH Connector Type RS06FG H.S.	

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< ECU DIAGNOSIS INFORMATION >

Connector No. M104	MI22 Connector Name BOM (BODY CONTROL MODULE)		A B C
No. M7 Name WIRE TO WIRE	Name BCM (BODY CONTROL MODULE) Type NISIEFW-CS		E F G
Connector No. M6 Connector Name WIRE TO WIRE Connector Type TH80MW-CS16-TM4 Connector Type TH80MW-CS16-TM4 Connector Type Th80MW-CS16-TM4 Terminal Color No. of Vire Signal Name (Specification) No. of Vire Signal Name (Specification) No. of Wire Signal Name (Specification)	Cornector No. MITS Connector Name BCM (BODY CONTROL MODULE) Connector Type MIGSTB-LC Terminal Color Signal Name (Specification) No. of Wire Terminal Color Signal Name (Specification) No. of Wire Terminal Color Signal Name (Specification) No. of POWER WINDOW POWER SUPPLY(RAP) Terminal Color Signal Name (Specification) 10 11 11 12 11 12 11 12 11 12 11 12 11 11		H J PWC
DOWER WINDOW SYSTEM	Connector No. MI17 Connector Name WIRE TO WIRE Connector Type TH80MW-CSI6-TM4 I I I I I I I I I I I I I I I I I I I	ICKWW41052CB	M N O
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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.

< ECU DIAGNOSIS INFORMATION >

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

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

- Auto-up operation
- Anti-pinch function
- Door key cylinder switch power window function

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

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POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

Diagnosis Procedure

INFOID:0000000004672590

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-13, "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-40, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATION	<u> </u>
Diagnosis Procedure	INFOID:000000004672591
1. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY AND GROUND CIRCUIT	IIV 012.000000004072037
Check power window switch power supply and ground circuit.	
Refer to PWC-13, "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-19, "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.	
s the result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".	
NO >> GO TO 1.	
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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure

INFOID:0000000004672592

INFOID:0000000004672593

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

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

Refer to PWC-32, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "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-104, "Removal and Installation"

>> INSPECTION END

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

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

 $1.\mathsf{CHECK}$ FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY AND GROUND CIRCUIT

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

Refer to PWC-14, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK PASSENGER SIDE POWER WINDOW MOTOR CIRCUIT

Check passenger side power window motor circuit.

Refer to PWC-20, "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-40, "Intermittent Incident".

NO >> GO TO 1.

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >
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
1. CHECK REAR POWER WINDOW SWITCH
Check rear power window switch . Refer to PWC-17, "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. <u>Is the result normal?</u>
YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1. WHEN REAR POWER WINDOW SWITCH LH IS OPERATED
WHEN REAR POWER WINDOW SWITCH LH IS 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-15, "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-104, "Removal and Installation". PWC
>> 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 MOTOR LH
Check rear power window motor LH. Refer to PWC-22, "REAR LH: Component Function Check".
Is the inspection result normal?
YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION
Confirm the operation again. <u>Is the result normal?</u>
YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

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REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure

INFOID:0000000004672598

1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-17, "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-40, "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:0000000004672599

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

Check rear power window switch power supply and ground circuit.

Refer to PWC-15, "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-104, "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-23, "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-40, "Intermittent Incident".

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >	
ANTI-PINCH FUNCTION DOES NOT OPERATE NORMALLY DRIVER SIDE	Α
DRIVER SIDE : Diagnosis Procedure	D
1. CHECK POWER WINDOW AUTO OPERATION	В
Check power window auto operation. Is the inspection result normal? YES >> GO TO 2.	С
NO >> Refer to PWC-96, "DRIVER SIDE : Diagnosis Procedure". 2.CONFIRM THE OPERATION	D
Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-40. "Intermittent Incident". NO >> GO TO 1.	Е
PASSENGER SIDE	F
PASSENGER SIDE : Diagnosis Procedure	G
1. CHECK POWER WINDOW AUTO OPERATION	
Check power window auto operation. Is the inspection result normal? YES >> GO TO 2.	Н
NO >> Refer to PWC-96 , "PASSENGER SIDE : Diagnosis Procedure". 2. CONFIRM THE OPERATION	1
Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".	J
NO >> GO TO 1.	PW
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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004672603

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to <u>PWC-5</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-26, "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-40, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004672604

1. PERFORM INITIALIZAITON PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-28, "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-40, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-MALLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-66, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40. "Intermittent Incident".

NO >> GO TO 1.

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KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Diagnosis Procedure

INFOID:0000000004672606

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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

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

Refer to DLK-79, "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-40, "Intermittent Incident".

NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > KEYLESS POWER WINDOW DOWN DOES NOT OPERATE	_
RETLESS POWER WINDOW DOWN DOES NOT OPERATE	А
Description)7
Power window down does not operate when pressing unlock button on Intelligent Key.	В
Diagnosis Procedure)8
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	С
Check remote keyless entry function.	-
Does door lock/unlock with Intelligent Key button?	D
YES >> GO TO 2.	
NO >> Refer to DLK-177, "Description".	
2.CHECK POWER WINDOW OPERATION	Е
Check power window operation.	
Does power window operate up/down using power window main switch?	F
YES >> GO TO 3. NO >> Refer to PWC-90, "Diagnosis Procedure".	1
3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"	
Check "PW DOWN SET" setting in "WORK SUPPORT".	_ G
Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".	
Is the inspection result normal?	Н
YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".	
NO $>>$ Set "PW DOWN SET" setting in "WORK SUPPORT". f 4. CONFIRM THE OPERATION	
	_
Confirm the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".	J
NO >> GO TO 1.	
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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000004672609

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-104, "Removal and Installation".

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

1.REPLACE POWER WINDOW MAIN SWITCH Replace power window main switch. Refer to PWC-104, "Removal and Installation". >> INSPECTION END PASSENGER SIDE PASSENGER SIDE : Diagnosis Procedure 1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE) Replace front power window switch (passenger side). Refer to PWC-104, "Removal and Installation". >> INSPECTION END REAR LH REAR LH : 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-15, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104, "Removal and Installation". >> INSPECTION END REAR RH REAR RH : 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-104, "Removal and Installation". >> INSPECTION END REAR RH REAR RH : 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-15, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE DRIVER SIDE	
Replace power window main switch. Refer to PWC-104, "Removal and Installation". >> INSPECTION END PASSENGER SIDE PASSENGER SIDE: Diagnosis Procedure 1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE) Replace front power window switch (passenger side). Reflace front power window switch (passenger side). Reflace front power window switch (passenger side). REAR LH REAR LH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	DRIVER SIDE : Diagnosis Procedure	INFOID:0000000004672610
Refer to PWC-104, "Removal and Installation". >> INSPECTION END PASSENGER SIDE: Diagnosis Procedure 1. REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE) Replace front power window switch (passenger side). Refer to PWC-104, "Removal and Installation". >> INSPECTION END REAR LH REAR LH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH REPLACE REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT Check rear power window switch power supply and ground circuit. Refer to PWC-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	1.REPLACE POWER WINDOW MAIN SWITCH	
PASSENGER SIDE PASSENGER SIDE: Diagnosis Procedure 1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE) Replace front power window switch (passenger side). Refer to PWC-104, "Removal and Installation". >> INSPECTION END REAR LH REAR LH: 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-15, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH LH. Refer to PWC-104, "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.		
Replace front power window switch (passenger side). Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR LH REAR LH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.		
Replace front power window switch (passenger side). Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR LH REAR LH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power windows switch RH.	PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000004672611
Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR LH REAR LH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power windows switch RH.	1.REPLACE FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	
REAR LH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power windows switch PH.		
1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT Check rear power window switch power supply and ground circuit. Refer to PWC-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.		
Check rear power window switch power supply and ground circuit. Refer to PWC-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	REAR LH : Diagnosis Procedure	INFOID:0000000004672612
Refer to PWC-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT	
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH: 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-15. "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.		
NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH LH Replace rear power window switch LH. Refer to PWC-104. "Removal and Installation". >> INSPECTION END REAR RH REAR RH : 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-15. "REAR POWER WINDOW SWITCH : Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	Is the inspection result normal?	
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YES >> GO TO 2. NO >> Repair or replace harness. 2.REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	· · · · · · · · · · · · · · · · · · ·	
2.REPLACE REAR POWER WINDOW SWITCH RH Replace rear power window switch RH.	· · · · · · · · · · · · · · · · · · ·	
Replace rear power window switch RH.	' '	
	Z.REPLACE REAR POWER WINDOW SWITCH RH	
	Replace rear power window switch RH. Refer to PWC-104, "Removal and Installation".	
	INODECTRION END	

>> 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 that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see 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.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

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NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering

wheel will lock when the push-button ignition switch is turned to LOCK position.)

Α

Perform self-diagnosis check of all control units using CONSULT-III.

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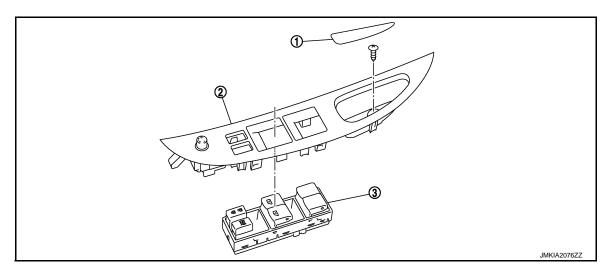
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REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Exploded View



- 1. Pull handle cover
- 2. Power window main switch
- 3. Power window main switch finisher

NOTE:

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

Refer to removal and installation procedure. Refer to PWC-104, "Removal and Installation".

Removal and Installation

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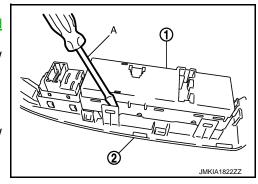
REMOVAL

- Remove the power window main switch finisher (2).
 Refer to <u>GW-19</u>, "<u>Exploded View</u>" and <u>GW-19</u>, "<u>Removal and Installation</u>".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-head screw driver (A) etc.

CAUTION:

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

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



INSTALLATION

Install in the reverse order of removal.

NOTE:

Power window main switch is exchanged or is detached it is necessary to do the initialization procedure. Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".