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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow INFOID:0000000008280758

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 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

4. IDENTIFY THE 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.

Are the malfunctions corrected?

YES >> INSPECTION END

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

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

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

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

- Auto-up operation
- Anti-pinch function

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

INITIALIZATION PROCEDURE

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

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Do not check with hands and other body parts because they may be pinched. Do not get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without full close. Perform initial setting in that situation. Refer to PWC-49, "Fail Safe"
- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

Refer to <u>PWC-5</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

Refer to <u>PWC-5</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: <u>Special Repair Requirement</u>" for initialization procedure and check anti-pinch function.

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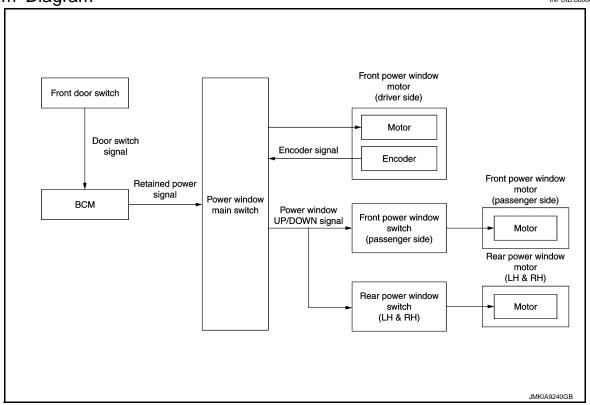
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SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

INFOID:0000000008280763



System Description

INFOID:0000000008280764

POWER WINDOW MAIN SWITCH INPUT/OUTPUT SIGNAL CHART

Item	Item Input signal to power window main switch Power window main switch function		Actuator	
Encoder	Encoder pulse signal		Front power window motor	
Power window main switch	Front power window motor (driver side) UP/DOWN signal		(driver side)	
Front power window switch (passenger side)	Front power window motor (passenger side) UP/DOWN signal	Power window control	Front power window motor (passenger side)	
Rear power window switch	Rear power window motor UP/DOWN signal		Rear power window motor (LH & RH)	
ВСМ	Retained power signal		Each power window motor	

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) & REAR POWER WINDOW SWITCH (LH & RH)

INPUT/OUTPUT SIGNAL CHART

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

Item	Input signal to front power window switch (passenger side) & rear power window switch (LH & RH)	Front power window switch (passenger side) & rear power window switch (LH & RH) function	Actuator
Front power window switch (passenger side)	Front power window motor (passenger side) UP/DOWN signal	Power window control	Front power window motor (passenger side)
Rear power window switch (LH & RH)	Rear power window motor (LH & RH) UP/DOWN signal		Rear power window motor (LH & RH)

POWER WINDOW OPERATION

- Power window main switch (driver side) can open/close all windows.
- Front & rear power window switch can open/close the corresponding windows.
- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)

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

RETAINED POWER OPERATION

Retained power operation is an additional power supply function that enables sunroof system to operate for 45 seconds even when ignition switch is turned OFF.

RETAINED POWER FUNCTION CANCEL CONDITIONS

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

POWER WINDOW LOCK

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

ANTI-PINCH SYSTEM (FRONT DRIVER SIDE)

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

OPERATION CONDITION

 When front door glass (driver side) 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.

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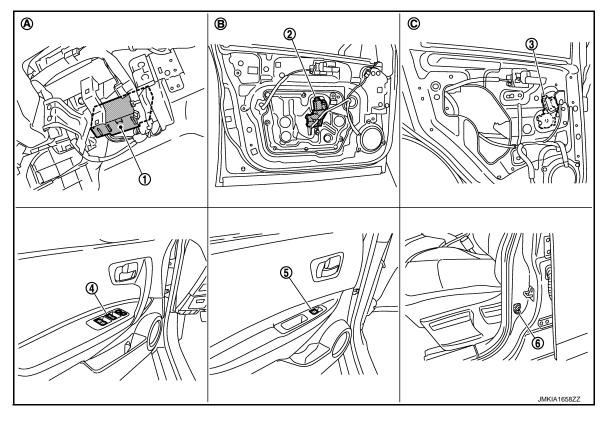
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Component Parts Location

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- 1. BCM M65, M66, M67
- 4. Power window main switch D5, D6
- A. Over the globe box

- 2. Front power window motor (driver side) D7
- 5. Rear power window switch LH D83
- B. View with front door finisher removed.
- 3. Rear power window motor LH D82
- 6. Front door switch (driver side) B34
- C. View with rear door finisher removed.

Component Description

INFOID:0000000008280766

Component	Function
BCM	Supplies power supply to power window switch.Controls retained power.
Power window main switch	 Directly controls all power window motor of all doors. Controls anti-pinch operation of power window.
Front power window switch	Controls power window motor of front passenger side door.
Rear power window switch (LH & RH)	Controls power window motor of rear right and left doors.
Front power window motor (driver side)	 Integrates the encoder and power window motor. Starts operating with signals from power window main switch. Transmits front power window motor (driver side) rotation as a pulse signal to power window main switch.
Front power window motor (passenger side)	Starts operating with signals from power window main switch & front power window switch (passenger side).
Rear power window motor (LH & RH)	Starts operating with signals from power window main switch & rear power window switch (LH & RH).
Front door switch (diver side)	Detects door open/close condition and transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description		
ECU Identification	BCM part number is displayed.		
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-61, "DTC Index".		
Data Monitor	BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Work Support	Changes the setting for each system function.		
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from 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

System	CONSULT	Diagnosis mode		
System	sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Auto air conditioning systemManual air conditioning system			×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Body control system	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	AIR PRESSURE MONITOR	×	×	×
Panic alarm system	PANIC ALARM			×

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

RETAIND PWR

Revision: 2012 June PWC-9 2013 ROGUE

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

RETAIND PWR : CONSULT 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.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

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1. CHECK POWER SUPPLY CIRCUIT

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

(+) Power window main switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(Approx.)	
D5	10	Ground	Rattory voltago	
D6	19	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.check ground circuit

Turn ignition switch OFF.

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

Power window		Continuity	
Connector	Ground	Continuity	
D6	17		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

3. CHECK HARNESS CONTINUITY

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

В	BCM		Power window main switch		
Connector	Terminal	Connector	Continuity		
M67	68	D5	10	Existed	
IVIO7	69	D6	19	LAISIEU	

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
MG7	68	Ground	Not existed
M67	69		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

INFOID:0000000008280770

1. CHECK POWER SUPPLY CIRCUIT

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

(+) Front power window switch (passenger side)		(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(44.5)	
D45	8	Ground	Ignition switch ON	Battery voltage	

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

В	CM	Front power window s	switch (passenger side)	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M67	68	D45	8	Existed	

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M67	68		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-65</u>, "Removal and Installation".

NO >> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:0000000008280771

1. CHECK POWER SUPPLY CIRCUIT

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

(+) Rear power window switch			(–)	Condition	Voltage (V) (Approx.)
Coni	Connector Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LH	D83	1	Ground	Ignition switch ON	Battery voltage
RH	D103		Giodila	ignition switch ON	battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 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
Mez	M67 68	LH	D83	1	Existed
IVIO7		RH	D103	'	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M67	68		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

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FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Description INFOID:000000008280772

Front power window motor (passenger side) will be operated if front power window switch (passenger side) is operated.

Component Function Check

INFOID:0000000008280773

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) FUNCTION

Check front power window motor (passenger side) operation with front power window switch (passenger side). <u>Is the inspection result normal?</u>

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

NO >> Refer to PWC-14, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000008280774

${\bf 1.} {\sf CHECK} \; {\sf FRONT} \; {\sf POWER} \; {\sf WINDOW} \; {\sf SWITCH} \; ({\sf PASSENGER} \; {\sf SIDE}) \; {\sf INPUT} \; {\sf SIGNAL}$

- 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)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(-4)
D45	12	Ground	Power window main switch (passenger side)	UP	Battery voltage
				DOWN	0
	44			UP	0
	11			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-15, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO

>> Replace front power window switch (passenger side). Refer to <u>PWC-63</u>, "<u>Removal and Installation</u>".

${f 3.}$ CHECK FRONT WINDOW SWITCH (PASSENGER SIDE) 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 switch (passenger side) harness connector.

Power window main switch		Front power window s	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
D5	16	D45	12	Existed	
D5	12	D40	11	LAISIEU	

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

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D5	16	Ground	Not existed
Do	12		Not existed

Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

Component Inspection

 ${\bf 1.} {\sf CHECK} \; {\sf FRONT} \; {\sf POWER} \; {\sf WINDOW} \; {\sf SWITCH} \; ({\sf PASSENGER} \; {\sf SIDE})$

- 1. Turn ignition OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check front power window switch (passenger side).

Front power window switch (passenger side)	Terminal		Front power window switch condition	Continuity	
	8 7		UP		
D45	11	6	- Or	Existed	
	11	6	NEUTRAL		
	12	7	NEUTRAL		
	8	6	DOWN		
	12	7	DOWN		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side). Refer to PWC-63, "Removal and Installation".

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REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER WINDOW SWITCH

Description INFOID:000000008280776

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

Component Function Check

INFOID:0000000008280777

1. CHECK REAR POWER WINDOW SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Refer to PWC-16, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000008280778

1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

	(+) Rear power window switch		Condition		Voltage (V) (Approx.)
Connector	Terminal				
	2			UP	Battery voltage
LH: D83	2	Ground	Power window	DOWN	0
LH. DOS	3		main switch: LH	UP	0
				DOWN	Battery voltage
	2			UP	Battery voltage
			Power window	DOWN	0
RH: D103	2		main switch: RH	UP	0
	3			DOWN	Battery voltage

Is the inspection result normal?

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

2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-17, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to PWC-63, "Removal and Installation".

3.check rear power window switch circuit

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

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Power window	v main switch	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
	1	1 LH 3 5	Dea	2	Frieds d
DE	3		D83	3	
D5 -	5		D402	3	Existed
	7	KH	RH D103	2	

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

Power windo	Power window main switch		Continuity
Connector	Terminal	Continuity	
	1	Ground	
D5	3	Giouna	Not existed
DJ	5		Not existed
	7		

Is the inspection result normal?

YES >> Replace power window main switch.Refer to PWC-63, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK REAR POWER WINDOW SWITCH

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

Rear power window switch	Terminal		Rear power window switch condition	Continuity	
	1	5	UP		
	3	4	OF		
LH:D83	3	4	NEUTRAL	Existed	
RH:D103	2	5	NEOTRAL	Existed	
	1	4	DOWN		
	2	5	DOWN		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window switch. Refer to PWC-63, "Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000008280780

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

DRIVER SIDE: Component Function Check

INFOID:0000000008280781

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

NO >> Refer to PWC-18, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000008280782

1. CHECK POWER WINDOW MOTOR (DRIVER SIDE) INPUT SIGNAL

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

	+) notor (driver side)	(–)	(–) Condition		Voltage (V) (Approx.)		
Connector	Terminal				(* (ÞÞ: 5/11)		
	1			UP	Battery voltage		
D7	ı	Cround	Cround	Ground	Power window	DOWN	0
DI	2	Ground	main switch	UP	0		
	2				Battery voltage		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK POWER WINDOW MOTOR CIRCUIT

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

Power windo	ow main switch	Front power window motor (driver side)		main switch Front power window		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
D5	8	D7	2	Existed		
D3	11		1	LXISIEU		

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

Power windo	w main switch		Continuity	
Connector	Terminal	Ground	Continuity	
	8	Ground	Not existed	
	11		Not existed	

Is the inspection result normal?

YES >> Replace power window main switch.Refer to PWC-63, "Removal and Installation".

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check front power window motor (driver side).

Refer to PWC-19, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

>> Replace power window motor (driver side). Refer to GW-23, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

DRIVER SIDE: Component Inspection

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

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

Front power window motor (driver	Terr	minal	Motor condition
side) connector	(+)	(–)	Wotor condition
	1	2	DOWN
DI .	2	1	UP

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window motor (driver side). Refer to GW-23, "Removal and Installation".

PASSENGER SIDE

switch (passenger side).

PASSENGER SIDE: Component Function Check

${f 1}$. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE) OPERATION

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

Is the inspection result normal?

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

PASSENGER SIDE : Diagnosis Procedure

${f 1.}$ CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE) INPUT SIGNAL

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

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Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

- Check motor operate by connecting the battery voltage directly to front power window motor (driver side)

Front power window motor (driver	Terr	minal	Motor condition	
side) connector	(+)	(-)	iviolor condition	
D7	1	2	DOWN	
	2	1	LIP	

PASSENGER SIDE : Description

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

- window switch (passenger side).
- YFS >> Power window motor (passenger side) is OK.

- 2.

< DTC/CIRCUIT DIAGNOSIS >

(+) Front power window motor (passenger side)		(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(44)	
	2	Ground		UP	Battery voltage	
D46	2			Front power win- dow switch	DOWN	0
D46	1		(passenger side)	UP	0	
	1			DOWN	Battery voltage	

Is the inspection result normal?

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

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

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 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 r	motor (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D45	6	D46	1	Existed
D43	7	540	2	LAISIEU

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

Front power window s	witch (passenger side)		Continuity
Connector	Terminal	Ground	Continuity
D45	6	Ground	Not existed
D43	7		Not Chistod

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). PWC-63, "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-20, "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-23</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000008280787

1. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

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

< DTC/CIRCUIT DIAGNOSIS >

Front power window motor (passen-	Terminal		Motor condition
ger side) connector	(+)	(-)	- Wotor Condition
D46	1	2	DOWN
	2	1	UP

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window motor (passenger side). Refer to GW-23, "Removal and Installation".

REAR LH

REAR LH: Description

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

REAR LH: Component Function Check

1. CHECK 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 >> Rear power window motor LH is OK.

NO >> Refer to PWC-21, "REAR LH : Diagnosis Procedure"

REAR LH: Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+) Rear power window motor LH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, ,pp. 3/1.)
	4		Ground Rear power win- dow switch LH	UP	Battery voltage
D82	1	Cround		DOWN	0
D62		Ground		UP	0
	3			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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

Rear power wi	ndow switch LH	Rear power wi	ndow motor LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D83	4	D82	3	Existed
D03	5	D02	1	LXISIEU

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

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< DTC/CIRCUIT DIAGNOSIS >

Rear power window switch LH			Continuity
Connector	Terminal	Ground	Continuity
D83	4	Ground	Not existed
D03	5		NOT EXISTED

Is the inspection result normal?

YES >> Replace rear power window switch LH.Refer to PWC-63, "Removal and Installation".

NO >> Repair or replace harness.

3.check rear power window motor LH

Check rear power window motor LH.

Refer to PWC-22, "REAR LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window motor LH. Refer to <u>GW-28, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

REAR LH: Component Inspection

INFOID:0000000008280791

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR LH

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

Rear power window motor LH con-	Teri	minal	Motor condition
nector	(+)	(-)	Wotor condition
D82	3	1	DOWN
	1	3	UP

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window motor LH. Refer to <u>GW-28</u>, "<u>Removal and Installation</u>".

REAR RH

REAR RH: Description

INFOID:0000000008280792

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

REAR RH: Component Function Check

INFOID:0000000008280793

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 >> Rear power window motor RH is OK.

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

< DTC/CIRCUIT DIAGNOSIS >

REAR RH: Diagnosis Procedure

INFOID:0000000008280794

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1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+) Rear power window motor RH		(-)	Con	Condition	
Connector	Terminal				(Approx.)
	D102			UP	Battery voltage
D102		Ground	Rear power win-	DOWN	0
D102		Ground	dow switch RH	UP	0
				DOWN	Battery voltage

Is the inspection result normal?

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

Rear power w	indow switch RH	Rear power window motor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D103	4	D102	3	Existed
D103	5	D102	1	Existed

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

Rear power v	Rear power window switch RH		Continuity
Connector	Terminal	Ground	Continuity
D103	4	Ground	Not existed
D103	5		Not existed

Is the inspection result normal?

YES >> Replace rear power window switch RH.Refer to PWC-63, "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-28</u>, "<u>Removal and Installation</u>".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

REAR RH: Component Inspection

INFOID:0000000008280795

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

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

Rear power window motor RH con-	Terminal		Motor condition	
nector	(+)	(–)	Wotor condition	
D102	3	1	DOWN	
	1	3	UP	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window motor RH. Refer to <u>GW-28</u>, "<u>Removal and Installation</u>".

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

ENCODER CIRCUIT

Description INFOID:0000000008280796

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

Component Function Check

INFOID:0000000008280797

CHECK ENCODER OPERATION

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

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Is the inspection result normal?

>> Encoder operation is OK.

>> Refer to PWC-25, "Diagnosis Procedure" NO

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Diagnosis Procedure

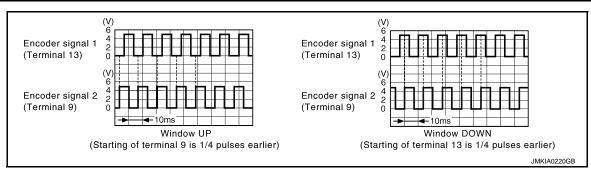
INFOID:0000000008280798

Encoder Circuit Check

CHECK ENCODER OPERATION

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

(Power windo	(+) Power window main switch		Signal (Reference value)
Connector	Terminal		(**************************************
D5	9	Ground	Poter to following signal
Dσ	13	Ground Refer t	Refer to following signal



Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

2.CHECK ENCORDER SIGNAL CIRCUIT

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

Power windo	w main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	9	D7	3	Existed
	13	DI.	5	LXISted

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

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ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D5	9	Ground	Not existed
D3	13		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check encorder power supply circuit

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

(+)			Voltage (V)	
Connector	Front power window motor (driver side) Connector Terminal		(Approx.)	
D7	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK GROUND CIRCUIT

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

Front power window	w motor (driver side)		Continuity
Connector	Terminal	Ground	
D7	6		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

5. CHECK HARNESS CONTINUITY 1

- Turn ignition switch OFF.
- 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)			Continuity
Connector	Terminal	Connector	Terminal	Continuity
D5	15	D7	4	Existed

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

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D5	15		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-63, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK HARNESS CONTINUITY 2

1. Disconnect power window main switch connector.

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D5	2	D7	6	Existed

Is the inspection result normal?

>> Replace power window main switch. Refer to PWC-63, "Removal and Installation".

NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KET ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
DOOK 3W-DK	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DACK DOOD OW	Back door closed	Off
BACK DOOR SW	Back door opened	On
1/E// 0// 1 / 0//	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL UN-3W	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
T NEW TINE CON	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
A00 0N 0V	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OU	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
LIGHT SW 1ST	Lighting switch OFF	Off
LIGHT SW 131	Lighting switch 1ST	On
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BOOKEE OW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
RETLESS FAINIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
THE LON-UNLON	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off
NNE NEEP UNLK	UNLOCK button of key fob is pressed and held	On
HI BEAM SW	Lighting switch OFF	Off
HI BEAIN SW	Lighting switch HI	On
IEAD LAMB OW 4	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
	NOTE:	
RR FOG SW	The item is indicated, but not monitored.	Off
TURN SIGNAL R	Turn signal switch OFF	Off
IONN SIGNAL K	Turn signal switch RH	On
FLIDNI CIONIAL I	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
ENGINE DUN	Engine stopped	Off
ENGINE RUN	Engine running	On
OKD OW	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
ODTICAL OFFICER	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
ION OW CAN	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On

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Monitor Item	Condition	Value/Status
ED WIDED HI	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED WIDED LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
ED WACHED CW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
TR WIFER STOP	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
DD WIDED ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
DD WACHED CW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
DD WIDED STOD	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
1147400 014/	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
DDAKE CW	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
FAN ON OIG	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AID COND CW	 A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner) A/C switch OFF (Manual air conditioner) 	Off
AIR COND SW	 A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner) A/C switch ON (Manual air conditioner) 	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off
I-KETT W DWN	UNLOCK button of Intelligent Key is pressed and held	On
I-KEY PANIC	PANIC button of Intelligent Key is not pressed	Off
FILLIFAINIC	PANIC button of Intelligent Key is pressed	On
DUSH SW	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
LIVING OLING OM	When back door opener switch is pressed	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGST FRT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGST RET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WAINING LAWP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLEK	Tire pressure warning alarm is sounding	On

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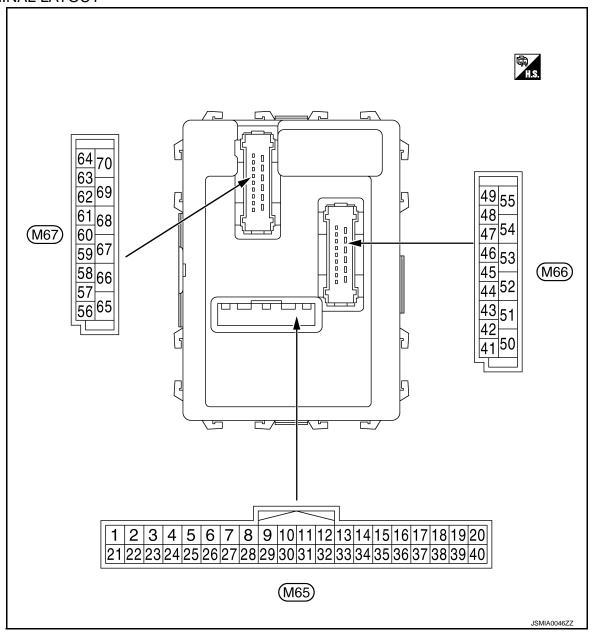
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT. Refer to BCS-26, "COMB SW: CONSULT Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to <u>BCS-9</u>, "System <u>Diagram"</u>.

	nal No.	Description				Value
 (Wire	color)	Signal name	Input/		Condition	(Approx.)
+	_	Signal Hame	Output			V 11 - 7
 1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage
(V)	Ground	mination control	Output	illumination	ON	0 V

Terminal No. (Wire color)		Description				Value
+	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF Turn signal switch RH	0 V
					Lighting switch HI	(V) 15
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 10 10 10 10 10 10 10 10 10 10 10 10 1
				tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 ++10ms PKIB4953J
					All aviitals OFF	2.0 V
					All switch OFF Turn signal switch LH	0 V
					Lighting switch PASS	(V)
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	(V) 15 10 5 0 ++10ms PKIB4959J 1.0 V
\' <i>'</i>		01 7		tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 PKIB4955J 0.8 V
					All switch OFF	0.8 V
					Lighting switch AUTO	
				Combination	Front wiper switch LO	(V) 15 10 5
4 (W)	Ground	Combination switch INPUT 3	Input	switch (Wiper intermittent dial 4)	Front wiper switch MIST Front wiper switch INT	10 5 0
					·	PKIB4959J

	nal No.	Description			0 1111	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V) 15
					Rear washer ON (Wiper intermittent dial 4)	10 5
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	++10ms PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms ii
						0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5 0
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4959J
6 (BG)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 5 0 ++10ms PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 +10ms PKIB4955J

	inal No. e color)	Description			Value			
+	-	Signal name	Input/ Output		Condition	(Approx.)		
7 (V)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 + 10ms JPMIA0587GB		
					UNLOCK position	8.0 - 8.5 V 0 V		
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 ++10ms JPMIA0587GB		
						8.0 - 8.5 V		
					LOCK position	0 V		
9	Ground	Stop lamp switch	Input	Stop lamp switch Input	Stop lamp		OFF (Brake pedal is not depressed)	0 V
(R)	(R) Glound			switch	ON (Brake pedal is depressed)	Battery voltage		
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage		
(SB)	Cround	ger switch	mpat	defogger switch	Pressed	0 V		
11	Ground	Ignition switch ACC	Ignition switch OFF			0 V		
(SB)		3		Ignition switch A	CC or ON	Battery voltage		
12 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) ₁₅ 10 5 0 +-10ms JPMIA0586GB 7.5 - 8.0 V		
					ON (When passenger door opened)	0 V		
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0		
					ON (When rear door RH opened)	0 V		

Terminal No. (Wire color)		Description		0 1111		Value
+	-	Signal name	Input/ Output	Condition		(Approx.)
14 (G)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
17	Ground	Optical sensor pow-	Output	Ignition switch	OFF, ACC	0 V
(W)		er supply			ON	5 V
18 [*] (R)	Ground	Receiver and sensor ground	Input	Ignition switch O	N	0 V
	Ground	Remote keyless entry receiver power supply	Input	Without Intelli- gent Key sys- tem	At any condition	5 V
19 [*] (V)				With Intelligent Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
					3 seconds or later after ig- nition switch OFF to ON	5 V
				Without Intelligent Key system	At any condition	(V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input	With Intelligent Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
					3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes accord-
21	Ground	NATS antenna amp.	Input/	Just after insertir	g ignition key in key cylinder	ing to signal-receiving condition. Pointer of tester should move
(G)			Output		ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 +-1s JPMIA0590GB
					OFF	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	1	Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
25 (BR)	Ground	NATS antenna amp.	Input/ Output	Just after inserting ignition key in key cylinder		Pointer of tester should move
				Ignition switch C	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF A/C switch ON	(V) 15 10 JPMIA0591GB 1.6 V 0 V
				Ignition switch C		
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0
					Blower fan switch ON	7.0 - 7.5 V 0 V
29					OFF	Battery voltage
(W)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
30		Back door opener	_	Back door	Not pressed	Battery voltage
(G)	Ground	switch	Input	opener switch	Pressed	0 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	tch Output	ut Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10
					(Wiper intermittent dial 4) Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	→ +10ms PKIB4956J 1.0 V

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	nal No.	Description				Value
+ (Wire	e color)	Signal name Input/ Output			Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10
					Rear wiper switch INT (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	PKIB4958J
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 PKIB4960J 7.2 V
34 (SB)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description	ı			Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
35		Combination switch		Combination switch	All switch OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V	
(B)	Ground	OUTPUT 2	Output	(Wiper intermit-	Lighting switch 2ND		
()				tent dial 4)	Lighting switch PASS	(V) 15	
					Front wiper switch INT	10 	
					Front wiper switch HI	5 0 + 10ms PKIB4958J	
						1.2 V	
36	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
(V)					Turn signal switch RH	40	
					Turn signal switch LH	(V) 15	
					Front wiper switch LO (Front wiper switch MIST) Front washer switch ON	10 5 0	
					Tront washer switch orv	PKIB4958J 1.2 V	
37	Ground	Key switch	Input	Insert mechanica	key into ignition key cylin-	Battery voltage	
(LG)	Ciodila	Toy ownor	iiipat	Remove mechar cylinder	nical key from ignition key	0 V	
38	C	Ignition switch ON	lan: +	Ignition switch O	FF or ACC	0 V	
(G)	Ground	Ignition switch ON	Input	Ignition switch O	N or START	Battery voltage	
39 (L)	Ground	CAN-H	Input/ Output		_	_	
40 (P)	Ground	CAN-L	Input/ Output		_	_	

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	nal No.	Description		-		Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 **10ms JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
4.4		Dear winer oute eten		Ignition awitch	Rear wiper stop position	0 V
44 (B)	Ground	Rear wiper auto stop position	Input	Ignition switch ON	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 **10ms JPMIA0591GB 1.6 V
					UNLOCK position	0 V
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) ₁₅ 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
					(When driver door opened)	0 V

(Wire color)		Description		0-7-177		Value	
+	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 	
					ON (When rear door LH opened)	0 V	
49 (L) Ground	Cround	Luggage room lamp	Output	Luggage room lamp switch DOOR position	Back door is closed (Luggage room lamp turns OFF)	Battery voltage	
	Ground	control	Output		Back door is opened (Luggage room lamp turns ON)	0 V	
53 (V) Ground	0	und Back door open	Outrout	Output Back door opener switch	Not pressed (Back door actuator is activated)	0 V	
	Ground		Sulpui		Pressed (Back door actuator is activated)	Battery voltage	
55	Ground	Rear wiper motor	Output	Ignition switch	Rear wiper switch OFF	0 V	
(SB)	Giodila	Real wiper motor	Output	ON	Rear wiper switch ON	Battery voltage	
56	Ground	Interior room lamp power supply	Output	After passing the saver operation	e interior room lamp battery time	0 V	
(Y)	Greand		Gaipai	Any other time after passing the interior room lamp battery saver operation time		Battery voltage	
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch C	FF	Battery voltage	
59	Ground	Driver door UN-	Output	out Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(L)	Ground	LOCK	Output		Other then UNLOCK (Actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s	

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s PKIC6370E 6.0 V
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(R)	Ground	timer control	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	Output All doors	LOCK (Actuator is activated)	Battery voltage
(V)					Other then LOCK (Actuator is not activated)	0 V
66	Cround	Passenger door and rear door UNLOCK	Output	Passenger door and rear door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground				Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch ON		0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

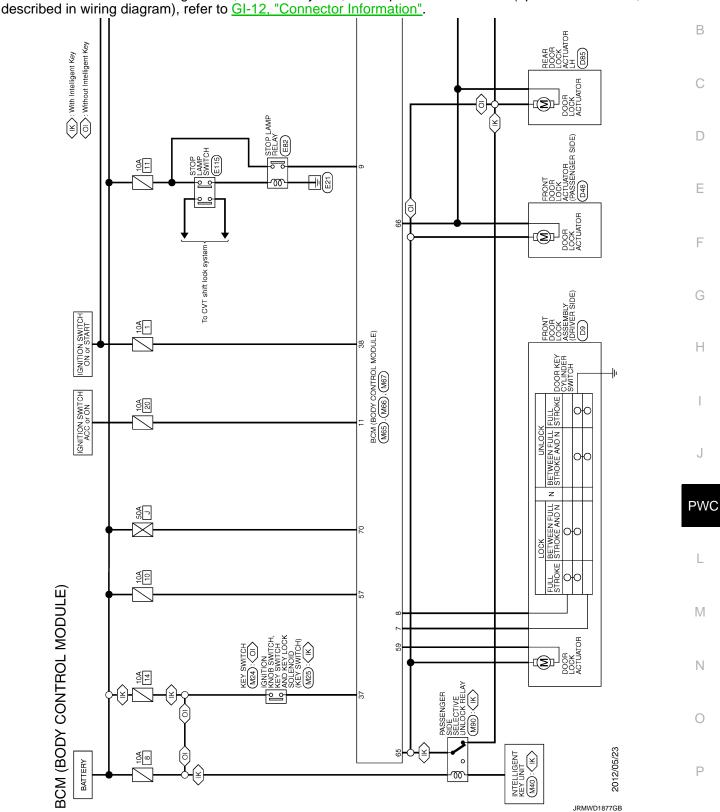
^{*:} Except for Mexico with Intelligent Key

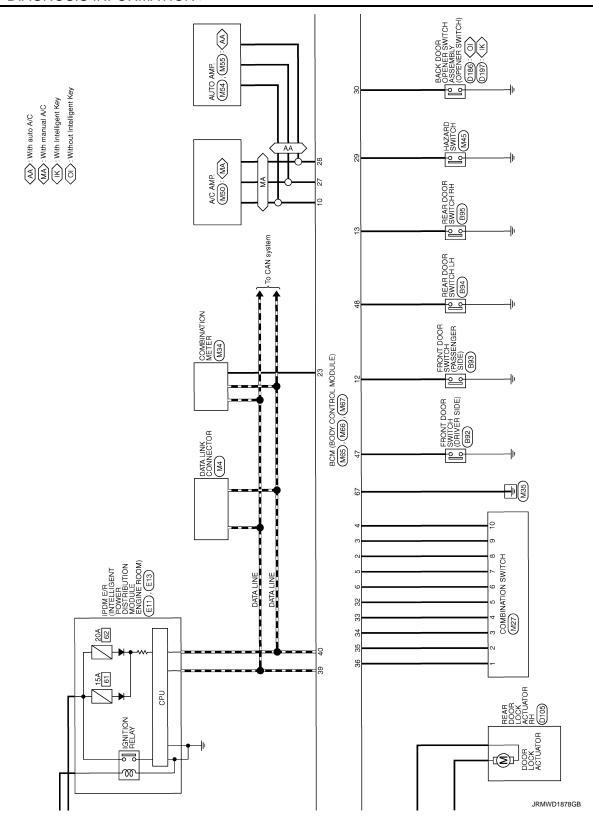
Wiring Diagram - BCM -

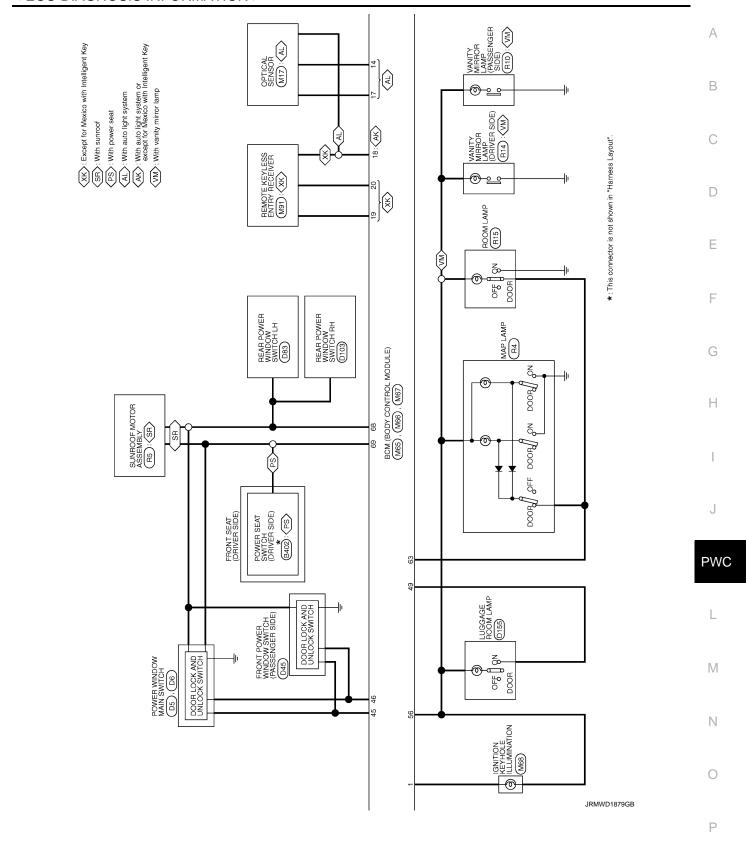
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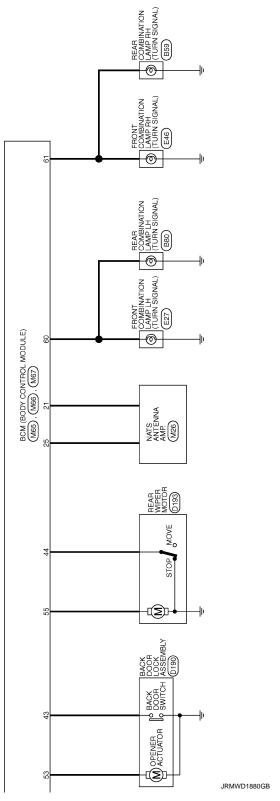
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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









Fail-safe INFOID:000000008729082

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 more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

- 1. Pass more than 1 minute after the rear wiper stop.
- 2. Turn the rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1711: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RL C1729: VHCL SPEED SIG ERR

DTC Index

NOTE:

Details of time display

CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.

1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-34
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u>vv 1-14</u>
C1707: LOW PRESSURE RL	×	
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	WT-16
C1710: [NO DATA] RR	×	<u>vv 1-10</u>
C1711: [NO DATA] RL	×	
C1716: [PRESS DATA ERR] FL	×	
C1717: [PRESS DATA ERR] FR	×	WT-19
C1718: [PRESS DATA ERR] RR	×	<u>vv 1-19</u>
C1719: [PRESS DATA ERR] RL	×	
C1729: VHCL SPEED SIG ERR	×	<u>WT-21</u>
C1735: IGN CIRCUIT OPEN	_	BCS-35

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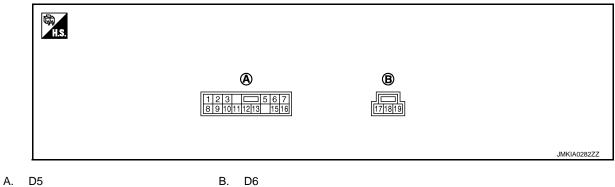
POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

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 (R)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is UP at operated.	Battery voltage
2 (Y)	Ground	Encoder ground	_	_	0
3 (BG)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is DOWN at operated.	Battery voltage
5 (Y)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is DOWN at operated.	Battery voltage
7 (LG)	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 (BR)	11	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 (V)	2	Encoder pulse signal 2	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms
10	Ground	Ignition switch power supply	Input	Ignition switch ON	Battery voltage
(L)		3		Other than above	0
11 (GR)	8	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is DOWN at operated.	Battery voltage

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name Input/ Output		Condition	(Approx.)
12 (SB)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front RH switch in power window main switch is DOWN at operated.	Battery voltage
13 (R)	2	Encoder pulse signal 1	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms
15 (G)	Ground	Encoder power supply	Output	Ignition switch ON.	Battery voltage
16 (W)	Ground	Front power window motor (passenger side) UP signal	Output	When front RH switch in power window main switch is UP at operated.	Battery voltage
17 (B)	Ground	Ground	_	_	0
19 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

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

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

It changes to condition before initialization and the following functions do not operate when switched to failsafe control.

- Auto-up operation
- Anti-pinch function

Perform initial operation to recover when switched to fail-safe mode. However, it switches back to fail-safe control when malfunction is found in power window main switch or front power window motor (driver side).

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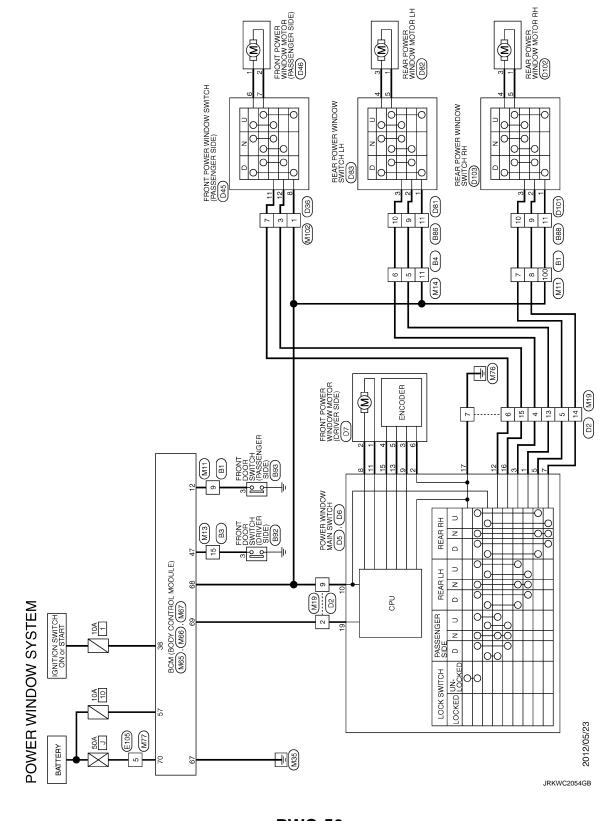
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WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

Diagnosis Procedure

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

Check BCM power supply and ground circuit.

Refer to BCS-36, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check power window main switch power supply and ground circuit.

Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

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PWC-51 Revision: 2012 June **2013 ROGUE**

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DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008280808

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check power window motor.

Refer to PWC-18, "DRIVER 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-46, "Intermittent Incident".

NO >> GO TO 1.

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	
FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE	
WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE	Α
POWER WINDOW SWITCH	
POVER WINDOW SWITCH	D
WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE	В
POWER WINDOW SWITCH : Diagnosis Procedure	
,	С
1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	
Check front power window switch (passenger side).	
Refer to PWC-14, "Component Function Check".	D
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts	г
	Е
2.CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)	
Check front power window motor (passenger side). Refer to PWC-19, "PASSENGER SIDE: Component Function Check".	F
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	G
3.CONFIRM THE OPERATION	
	Н
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	
NO >> GO TO 1.	1
WITH FRONT POWER WINDOW SWITCH ONLY	
WITH EDON'T DOWED WINDOW SWITCH ONLY: Diagnosis Procedure	
WITH FRONT POWER WINDOW SWITCH ONLY: Diagnosis Procedure INFOID:000000008280810	J
1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY AND GROUND CIR-	
· · · · · · · · · · · · · · · · · · ·	PWC
Check front power window switch (passenger side) power supply and ground circuit.	
Refer to PWC-12, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure".	
Is the inspection result normal?	L
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	D //
2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	M
Check front power window switch (passenger side).	
Refer to PWC-14, "Component Function Check".	Ν
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts	
3. CONFIRM THE OPERATION	0
Confirm the operation again.	Р
Is the result normal?	Γ
YES >> Check intermittent incident. Refer to <u>GI-46, "Intermittent Incident"</u> . NO >> GO TO 1.	
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REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH

WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW

SWITCH LH: Diagnosis Procedure

INFOID:0000000008280811

1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-16, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to PWC-21, "REAR LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

WITH REAR POWER WINDOW SWITCH LH ONLY

WITH REAR POWER WINDOW SWITCH LH ONLY: Diagnosis Procedure

INFOID:0000000008280812

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

Check rear power window switch power supply and ground circuit.

Refer to PWC-12, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-16, "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-46, "Intermittent Incident".

NO >> GO TO 1.

REAR RH SIDE POWER WINDOW DOES NOT OPERATE < SYMPTOM DIAGNOSIS > REAR RH SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH В WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH: Diagnosis Procedure INFOID:0000000008280813 1. CHECK REAR POWER WINDOW SWITCH Check rear power window switch. Refer to PWC-16, "Component Function Check". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.check rear power window motor RH Check rear power window motor RH. F Refer to PWC-22, "REAR RH: Component Function Check". Is the inspection result normal? >> GO TO 3. YES 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-46, "Intermittent Incident". >> GO TO 1. NO WITH REAR POWER WINDOW SWITCH RH ONLY WITH REAR POWER WINDOW SWITCH RH ONLY: Diagnosis Procedure INFOID:0000000008280814 ${f 1}$.CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT Check rear power winodw switch power supply and ground circuit. Refer to PWC-12, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.

2 .CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-16, "Component Function Check".

Is the inspection result normal?

YFS >> 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-46, "Intermittent Incident".

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

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PWC-55 Revision: 2012 June **2013 ROGUE**

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000008280815

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to PWC-25, "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-46, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE **PROPERLY**

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPER-ATE PROPERLY

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-57, "Component Function Check" (With intelligent Key system), DLK-276, "Component Function Check" (Without Intelligent Key system).

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-46, "Intermittent Incident".

NO >> GO TO 1.

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMAL-LY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NOR-MALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:0000000008280817

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK ENCODER

Check encoder.

Refer to PWC-25, "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-46, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000008280818 1. REPLACE POWER WINDOW MAIN SWITCH В Replace power window main switch. С >> Refer to PWC-63, "Removal and Installation". D Е F G Н J **PWC** L M Ν 0

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PRECAUTION

PRECAUTIONS FOR MEXICO

FOR MEXICO: 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. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

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

FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

PRECAUTIONS

< PRECAUTION >

Always observe the following items for preventing accidental activation.

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

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PREPARATION

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Commercial Service Tools

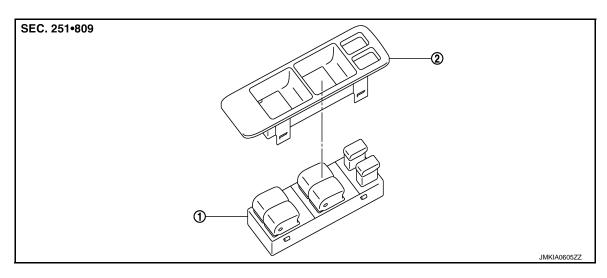
INFOID:0000000008280821

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

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Exploded View



1. Power window main switch

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-63, "Removal and Installation".

Removal and Installation

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REMOVAL

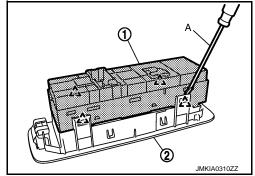
- Remove the power window main switch finisher (2).
 Refer to <u>INT-12</u>, "<u>FRONT DOOR FINISHER</u>: <u>Exploded View</u>" and <u>INT-12</u>, "<u>FRONT DOOR FINISHER</u>.
 <u>Removal and Installation</u>".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using remover tool (A).



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".

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