

# **CONTENTS**

BASIC INSPECTION3
DIAGNOSIS AND REPAIR WORKFLOW3 Work Flow3
FUNCTION DIAGNOSIS4
POWER WINDOW SYSTEM 4 System Diagram 4 System Description 4 Component Parts Location 5 Component Description 6
DIAGNOSIS SYSTEM (BCM)7
COMMON ITEM
RETAINED PWR
COMPONENT DIAGNOSIS8
POWER SUPPLY AND GROUND CIRCUIT 8
POWER WINDOW MAIN SWITCH
FRONT POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH
POWER WINDOW MOTOR17
DRIVER SIDE
PASSENGER SIDE
PASSENGER SIDE : Diagnosis Procedure18 PASSENGER SIDE : Component Inspection19
REAR LH         20           REAR LH : Description         20           REAR LH : Component Function Check         20           REAR LH : Diagnosis Procedure         20           REAR LH : Component Inspection         21
REAR RH
DOOR SWITCH         24           Description         24           Component Function Check         24           Diagnosis Procedure         24           Component Inspection         25

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POWER WINDOW LOCK SWITCH         26           Description         26           Component Function Check         26	REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE 50 Diagnosis Procedure 50
ECU DIAGNOSIS       27         BCM (BODY CONTROL MODULE)       27         Reference Value       27         Terminal Layout       28         Physical Values       28         Wiring Diagram       34	AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NORMALLY (DRIVER SIDE)
POWER WINDOW SYSTEM         38           Terminal Layout         38           Physical Values         38           Wiring Diagram         39	Diagnosis Procedure
SYMPTOM DIAGNOSIS	Diagnosis Procedure
Diagnosis Procedure	ON-VEHICLE REPAIR 55  POWER WINDOW MAIN SWITCH 55  Removal and Installation 55  FRONT POWER WINDOW SWITCH 56
REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE49 Diagnosis Procedure49	Removal and Installation

## **DIAGNOSIS AND REPAIR WORKFLOW**

< BASIC INSPECTION >

# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

INFOID:0000000003083348

**DETAILED FLOW** 

Work Flow

## 1. OBTAIN INFORMATION ABOUT SYMPTOM

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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.

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>> GO TO 2

# 2. REPRODUCE THE MALFUNCTION INFORMATION

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

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>> GO TO 3

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

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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.

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>> GO TO 4

## f 4. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

<del>----</del> |

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

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# 5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

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>> GO TO 6

>> GO TO 5

## 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?

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YES >> Inspection End.

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NO >> GO TO 3

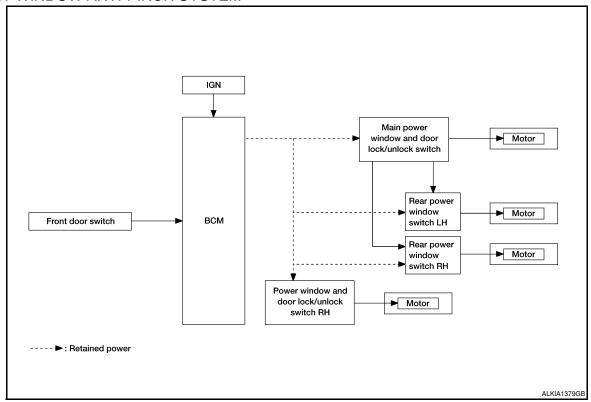
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# **FUNCTION DIAGNOSIS**

## POWER WINDOW SYSTEM

System Diagram

## FRONT WINDOW ANTI-PINCH SYSTEM



## **System Description**

INFOID:0000000003083350

# MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH INPUT/OUTPUT SIGNAL CHART

Item	Input signal to main power window and door lock/unlock switch  Main power window and lock/unlock switch funct		Actuator
Main power window and door lock/unlock switch	All power window motor UP/DOWN signal		Power window motors
Power window and door lock/unlock switch RH	Front power window motor RH UP/ DOWN signal	Power window control	Front power window motor RH
Rear power window switch	Rear power window motor UP/DOWN signal		Rear power window motor
ВСМ	RAP signal		_

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH INPUT/OUTPUT SIGNAL CHART

#### POWER WINDOW SYSTEM

#### < FUNCTION DIAGNOSIS >

Item	Input signal to front power window switch	Front power window switch function	Actuator	
Power window and door lock/unlock switch RH	Front power window motor RH UP/ DOWN signal	Power window control	Front power window motor RH	
ВСМ	RAP signal			

#### POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Main power window and door lock/unlock switch can open/close all windows.
- Power window and door lock unlock switch RH & rear power window switches LH and RH can open/close the corresponding windows.

#### POWER WINDOW AUTO DOWNOPERATION (FRONT LH)

• AUTO DOWN operation can be performed when main power window turns to AUTO.

#### RETAINED POWER OPERATION

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

Retained power function cancel conditions

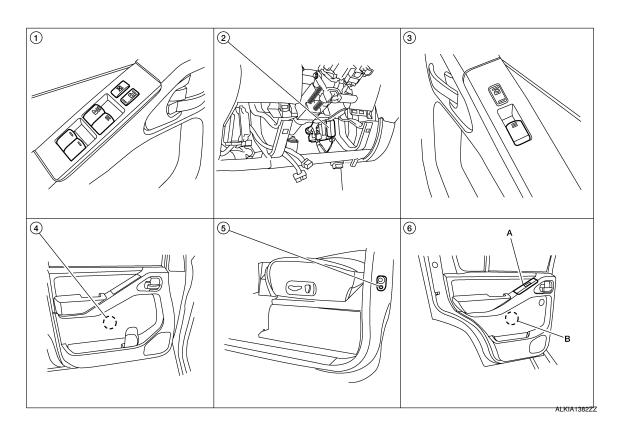
- Front door CLOSE (door switch OFF)→OPEN (door switch ON).
- When ignition switch is ON.
- When timer time passes. (45 seconds)

#### POWER WINDOW LOCK

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

## Component Parts Location

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## **POWER WINDOW SYSTEM**

## < FUNCTION DIAGNOSIS >

- Main power window and door lock/ unlock switch D7, D8
- Front power window motor LH D9, RH D104
- BCM M18, M19, M20 (view with instrument lower panel LH removed)
- 5. Front door switch LH B8, RH B108
- Power window and door lock/unlock switch RH D105
- A. Rear power window switch LH D203, RH D303
   B. Rear power window motor LH D204, RH D304

## **Component Description**

INFOID:0000000003083352

## FRONT WINDOW ANTI-PINCH SYSTEM

Component	Function
ВСМ	<ul><li>Supplies power supply to power window switch.</li><li>Controls retained power.</li></ul>
Main power window and door lock/unlock switch	Directly controls all power window motor of all doors.
Power window and door lock/unlock switch RH	Controls front power window motor RH.
Rear power window switch	Controls rear power window motors LH and RH.
Front power window motor LH	Starts operating with signals from main power window and door lock/unlock switch.
Front power window motor RH	Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH.
Rear power window motor	Starts operating with signals from main power window and door lock/unlock switch & rear power window switch.
Front door switch LH or RH	Detects door open/close condition and transmits to BCM.

## **DIAGNOSIS SYSTEM (BCM)**

#### < FUNCTION DIAGNOSIS >

## **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-DIAG RESULTS	Displays the diagnosis results judged by BCM. Refer to BCS-49, "DTC Index".
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	This function is not used even though it is displayed.

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

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

System	Sub system selection item	Diagnosis mode		
System	Sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST
BCM	BCM	×		
RAP system	RETAINED PWR		×	

## **RETAINED PWR**

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

INFOID:000000000308335

#### Data monitor

Monitor Item	Description
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch LH.
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch RH.

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< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT POWER WINDOW MAIN SWITCH

## POWER WINDOW MAIN SWITCH: Description

BCM supplies power.

• It operates each power window motor via corresponding power window switch and makes window move up/down when main power window and door lock/unlock switch is operated.

## POWER WINDOW MAIN SWITCH: Component Function Check

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INFOID:0000000003083355

Main Power Window And Door Lock/Unlock Switch

## ${f 1}$ . CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Does power window motor operate with main power window and door lock/unlock switch operation? <u>Is the inspection result normal?</u>

YES >> Main power window and door lock/unlock switch power supply and ground circuit are OK.

NO >> Refer to PWC-8, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure".

## POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000003083357

Main Power Window And Door Lock/Unlock Switch Power Supply Circuit Check

## $oldsymbol{1}$ . CHECK POWER SUPPLY CIRCUIT

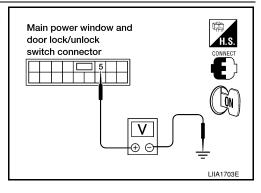
1. Turn ignition switch ON.

2. Check voltage between main power window and door lock/ unlock switch connector D7 terminal 5 and ground.

## 5 - Ground : Battery voltage

Is the measurement value within the specification?

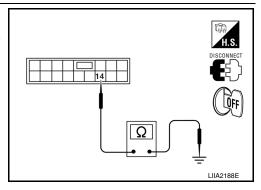
YES >> GO TO 2 NO >> GO TO 3



## 2. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch.
- 3. Check continuity between main power window and door lock/ unlock switch connector D7 terminal 14 and ground.

Connector	Terminals		Continuity
Main power window and door lock/unlock switch: D7	14	Ground	Yes



#### Is the inspection result normal?

YES >> GO TO 4

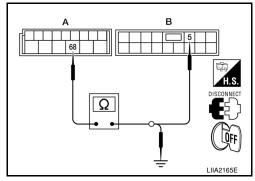
NO >> Repair or replace harness.

3. check main power window and door lock/unlock switch power supply circuit

## < COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect BCM and main power window and door lock/unlock switch.
- 3. Check continuity between BCM and main power window and door lock/unlock switch.

	A	В		Continuity
Connector	Terminal	Connector Terminal		Continuity
BCM: M20	68	Main power window and door lock/un- lock switch: D7	5	Yes



4. Check continuity between BCM and ground.

А			Continuity
Connector	Terminal	Ground	Continuity
BCM: M20	68		No

#### Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>, "Removal and Installation".

NO >> Repair or replace harness.

## 4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM.
- 2. Turn ignition switch ON.
- 3. Check voltage between BCM connector M20 terminal 68 and ground.

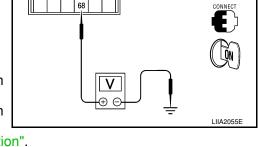
## 68 - Ground : Battery voltage

#### Is the measurement value within the specification?

YES >> Check main power window and door lock/unlock switch output signal (rear power window switch LH) GO TO 5

YES >> Check main power window and door lock/unlock switch output signal (rear power window switch RH) GO TO 6

NO >> Replace BCM. Refer to BCS-52, "Removal and Installation".

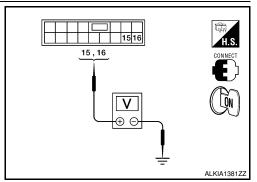


**BCM** connector

# **5.** CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH LH)

- Turn ignition switch ON.
- Check voltage between main power window and door lock/ unlock switch connector and ground.

Te	erminal										
(+)			Window	Voltage (V)							
Main power window and door lock/unlock switch connector	Terminal	(–)	condition	(Approx.)							
	45		UP	Battery voltage							
D7	15	15	13	13	13	13	13	13	Ground	DOWN	0
16	Ground	UP	0								
	10		DOWN	Battery voltage							



Is the measurement value within the specification?

YES >> GO TO 7

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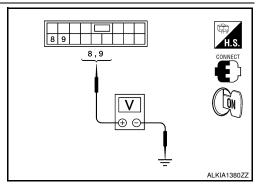
#### < COMPONENT DIAGNOSIS >

NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>, "Removal and Installation".

**6.** CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH RH)

- 1. Turn ignition switch ON.
- Check voltage between main power window and door lock/ unlock switch connector and ground.

Terminal								
(+)	(+)							
Main power win- dow and door lock/unlock switch connector	Terminal	(–)	Window condition	Voltage (V) (Approx.)				
	D7 8	Ω	Ω	Ω	Q	Q	UP	Battery voltage
D7		Ground	DOWN	0				
D1		Ground	UP	0				
	9		DOWN	Battery voltage				



## Is the measurement value within the specification?

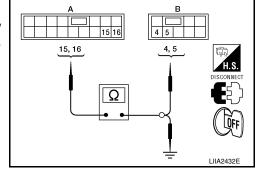
YES >> GO TO 8

NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>, "Removal and Installation".

## 7. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH.
- Check continuity between main power window and door lock/ unlock switch connector and rear power window switch LH connector.

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch LH connector	Terminal	Continuity
D7	15	D203	4	Yes
	16	5203	5	162



4. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	0 1	Continuity	
D7	15	Ground	No	
DI	16		INO	

#### Is the inspection result normal?

YES >> GO TO 9

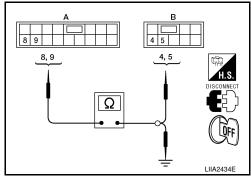
NO >> Repair or replace harness.

8. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

## < COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect rear power window switch RH.
- Check continuity between main power window and door lock/ unlock switch connector and rear power window switch RH connector.

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch RH connector	Terminal	Continuity
	8	D303	4	Yes
D1	9	D300	5	103



4. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	0	Continuity
D7	8	Ground	No
D/	9		INO

#### Is the inspection result normal?

YES >> GO TO 9

NO >> Repair or replace harness.

## 9. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Component Inspection".

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

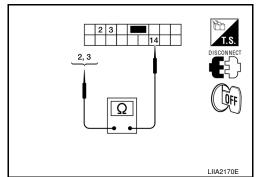
NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>, "Removal and Installation".

## POWER WINDOW MAIN SWITCH: Component Inspection

## 1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

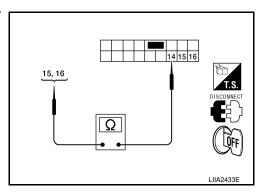
 Check continuity between main power window and door lock/ unlock switch terminals for front window RH.

	Terminals		Condition	Continuity
Main power window	14	Lock switch UNLOCK	Yes	
and door lock/un-		_	Lock switch LOCK	No
lock switch			Lock switch UNLOCK	Yes
			Lock switch LOCK	No



2. Check continuity between main power window and door lock/ unlock switch terminals for rear window LH.

	Terminals		Condition	Continuity
Main power window		15	Lock switch UNLOCK	Yes
and door lock/un-	1.4	14	Lock switch LOCK	No
lock switch	16		Lock switch UNLOCK	Yes
		10	Lock switch LOCK	No



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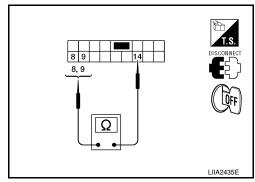
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#### < COMPONENT DIAGNOSIS >

Check continuity between main power window and door lock/ unlock switch terminals for rear window RH.

	Terminals		Condition	Continuity
Main power win-	8		Lock switch UNLOCK	Yes
dow and door lock/	14	9	Lock switch LOCK	No
unlock switch	14		Lock switch UNLOCK	Yes
			Lock switch LOCK	No



#### Is the inspection result normal?

YES >> Main power window and door lock/unlock switch is OK.

NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>. "Removal and Installation".

## FRONT POWER WINDOW SWITCH

## FRONT POWER WINDOW SWITCH: Description

· BCM supplies power.

• Front power window motor RH will be operated if power window and door lock/unlock switch RH is operated.

## FRONT POWER WINDOW SWITCH: Component Function Check

INFOID:0000000003083360

INFOID:0000000003083359

Power Window And Door Lock/Unlock Switch RH

 ${f 1}$  . CHECK FRONT POWER WINDOW MOTOR RH FUNCTION

Does front power window motor RH operate with power window and door lock/unlock switch RH operation? Is the inspection result normal?

YES >> Power window and door lock/unlock switch RH power supply and ground circuit are OK.

NO >> Refer to PWC-12. "FRONT POWER WINDOW SWITCH: Diagnosis Procedure".

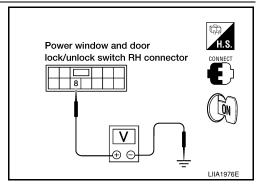
## FRONT POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000003083361

Power Window And Door Lock/Unlock Switch RH Power Supply Circuit Check

- 1. CHECK POWER SUPPLY CIRCUIT
- 1. Turn ignition switch ON.
- Check voltage between power window and door lock/unlock switch RH connector and ground.

Terr			
(+)		Voltage (V)	
Power window and door lock/ unlock Terminal switch RH connector		(-)	(Approx.)
D105	8	Ground	Battery voltage



Is the measurement value within the specification?

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

 $2.\,$  CHECK HARNESS CONTINUITY

## < COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- 2. Disconnect BCM and power window and door lock/unlock switch
- 3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M20 (A)	68	D105 (B)	8	Yes

Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M20 (A)	68	around	No

#### Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

# 3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect power window and door lock/unlock switch RH. 2.
- Check continuity between power window and door lock/unlock switch RH connector and ground.

Connector	Terminals		Continuity
Power window and door	11	0 1	Yes
lock/unlock switch RH: D105	12	Ground	Yes

#### Is the inspection result normal?

>> Replace power window and door lock/unlock switch RH. YES Refer to PWC-56, "Removal and Installation".

NO >> Repair or replace harness.

## 4. CHECK BCM OUTPUT SIGNAL

- Connect BCM.
- Turn ignition switch ON. 2.

BCM supplies power.

Check voltage between BCM connector and ground.

	V 1. 0.0			
(+)		(-)	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)	, , ,	
M20	68	Ground	Battery voltage	

## Is the measurement value within the specification?

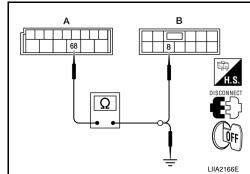
YES >> Replace power window and door lock/unlock switch RH. Refer to PWC-56, "Removal and Installation".

>> Replace BCM. Refer to BCS-52, "Removal and Installation". NO

#### REAR POWER WINDOW SWITCH

## REAR POWER WINDOW SWITCH: Description

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



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BCM connector

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#### < COMPONENT DIAGNOSIS >

## REAR POWER WINDOW SWITCH: Component Function Check

INFOID:0000000003083363

Rear Power Window Switch

## ${f 1}$ . CHECK REAR POWER WINDOW MOTOR FUNCTION

Does rear power window motor operate with rear power window switch operation? Is the inspection result normal?

YES >> Rear power window switch power supply and ground circuit are OK.

NO >> Refer to PWC-14, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".

## REAR POWER WINDOW SWITCH: Diagnosis Procedure

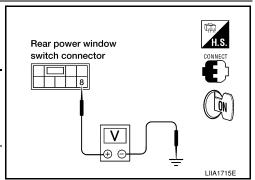
INFOID:0000000003083364

## Rear Power Window Switch Power Supply Circuit Check

## 1. CHECK POWER SUPPLY CIRCUIT

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

	Terminal						
	(+)		(+)			Condition	Voltage (V)
	ver window connector				(Approx.)		
LH	D203	Ω	Ground	Ignition switch	Battery voltage		
RH	D303	8 Ground		ON	Dattery Voltage		



## Is the measurement value within the specification?

YES >> GO TO 2 (Rear power window switch LH)

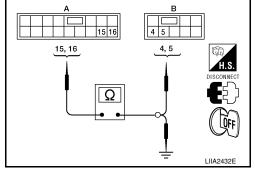
YES >> GO TO 3 (Rear power window switch RH)

NO >> GO TO 4

# 2. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch and rear power window switch LH.
- Check continuity between main power window and door lock/ unlock switch connector (A) and rear power window switch LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch LH connector	Terminal	Continuity
D7 (A)	15	D203 (B)	4	Yes
D7 (A)	16	D203 (B)	5	165



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/un- lock switch connector	Terminal		Continuity
D7 (A)	15	Ground	No
DT (A)	16		140

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

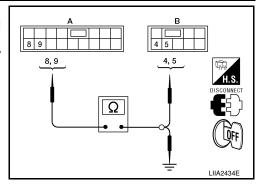
NO >> Repair or replace harness.

 ${f 3.}$  CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

## < COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and rear power window switch RH.
- Check continuity between main power window and door lock/ unlock switch connector (A) and rear power window switch RH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch RH connec- tor	Terminal	Continuity
D7 (A)	8	D303 (B)	4	Yes
D7 (A)	9	рэоэ (в)	5	162



Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity	
D7 (A)	8	Ground	No	
Dr (A)	9		NO	

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Repair or replace harness.

## 4. CHECK HARNESS CONTINUITY

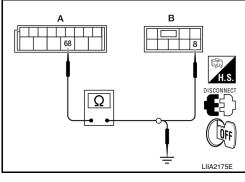
Disconnect BCM and rear power window switch.

Check continuity between BCM connector (A) and rear power window switch connector (B).

BCM connector	Terminal	Rear power window switch connector		Terminal	Continuity
M20 (A)	68	LH	D203 (B)	8	Yes
WZO (A)	00	RH	D303 (B)	O	163

Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity	
M20 (A)	68	Ground	No	



#### Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

## $oldsymbol{5}$ . CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-15, "REAR POWER WINDOW SWITCH: Component Inspection".

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

>> Replace rear power window switch. Refer to PWC-57, "Removal and Installation - Rear Door NO Switch".

## REAR POWER WINDOW SWITCH: Component Inspection

#### COMPONENT INSPECTION

## $oldsymbol{1}$ . CHECK REAR POWER WINDOW SWITCH

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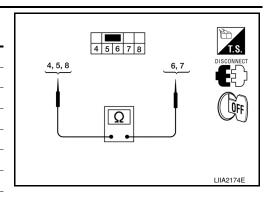
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## < COMPONENT DIAGNOSIS >

Check rear power window switch.

Rear power window switch LH or	Tern	ninals	Condition	Continuity
	6	5	DOWN	No
		3	NEUTRAL or UP	Yes
		8	NEUTRAL or UP	No
			DOWN	Yes
RH	7	4	UP	No
			NEUTRAL or DOWN	Yes
		8	NEUTRAL or DOWN	No
		8	UP	Yes



## Is the inspection result normal?

YES >> Rear power window switch is OK. NO >> Replace rear power window swit

>> Replace rear power window switch. Refer to <a href="PWC-57">PWC-57</a>, "Removal and Installation - Rear Door <a href="Switch">Switch</a>".

#### < COMPONENT 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

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## CHECK POWER WINDOW MOTOR CIRCUIT

Does front power window motor LH operate with operating main power window and door lock/unlock switch? Is the inspection result normal?

YES >> Front power window motor LH is OK.

>> Refer to PWC-17, "DRIVER SIDE: Diagnosis Procedure". NO

## DRIVER SIDE : Diagnosis Procedure

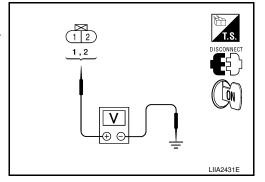
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#### Front Power Window Motor LH Circuit Check

## ${f 1}$ . CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

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

Terminal			Maria	
(+)		Main power win- dow and door lock/	Voltage (V)	
Power window motor LH con- nector	Terminal	(–)	unlock switch con- dition	(Approx.)
	2		UP	Battery voltage
D9	_	Ground	DOWN	0
D9	1	Giouna	UP	0
	'		DOWN	Battery voltage



#### Is the measurement value within the specification?

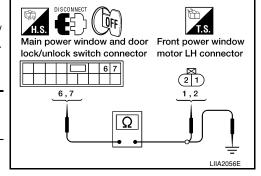
YES >> GO TO 2

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-55, "Removal and Installation".

# 2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch.
- Check continuity between main power window and door lock/ unlock switch connector and front power window motor connector LH.

Main power window and door lock/unlock switch connector	Terminal Front power win- dow motor LH con- nector		Terminal	Continuity
D7	6	D9	2	Yes
Di	7	D9	1	165



Check continuity between main power window and door lock/unlock switch connector (A) and ground.

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#### < COMPONENT DIAGNOSIS >

Main power window and door lock/unlock switch connector	Terminal	0	Continuity
D7	6	Ground	No
	7		

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

## 3. CHECK POWER WINDOW MOTOR

Check front power window motor LH.

Refer to PWC-18, "DRIVER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Replace power window motor LH. Refer to GW-18. "Rear Door Glass Regulator".

## **DRIVER SIDE: Component Inspection**

INFOID:0000000003083369

#### COMPONENT INSPECTION

## ${f 1}$ . CHECK FRONT POWER WINDOW MOTOR LH

Does motor operate by connecting the battery voltage directly to power window motor?

Terminal		Motor condition	
(+)	(-)	Wiotor Coridition	
1	2	DOWN	
2	1	UP	

#### Is the inspection result normal?

YES >> Front power window motor LH is OK.

NO >> Replace front power window motor LH. Refer to <u>GW-14</u>, "Front <u>Door Glass Regulator"</u>.

## PASSENGER SIDE

## PASSENGER SIDE: Description

INFOID:0000000003083370

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or power window and door lock/unlock switch RH.

## PASSENGER SIDE: Component Function Check

INFOID:0000000003083371

## 1. CHECK POWER WINDOW MOTOR CIRCIUT

Does power window motor operate with operating main power window and door lock/unlock switch or power window and door lock/unlock switch RH?

#### Is the inspection result normal?

YES >> Front power window motor RH is OK.

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

## PASSENGER SIDE: Diagnosis Procedure

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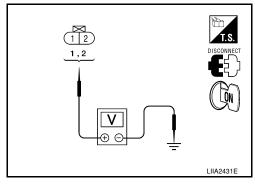
#### Front Power Window Motor RH Circuit Check

## ${f 1}$ . CHECK FRONT POWER WINDOW SWITCH RH OUTPUT SIGNAL

#### < COMPONENT DIAGNOSIS >

- 1. Disconnect front power window motor RH.
- Turn ignition switch ON.
- 3. Check voltage between front power window motor RH connector and ground.

Terminal					
(+)			Front power window motor	Voltage (V)	
Front power window motor RH connector	Terminal	(-)	(-) RH	RH condition	(Approx.)
	2 Gro	2 Ground	UP	Battery voltage	
D104			DOWN	0	
D104	1		UP	0	
			DOWN	Battery voltage	



Is the measurement value within the specification?

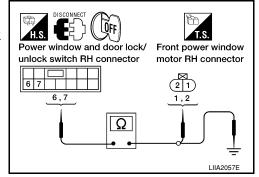
YES >> GO TO 2

NO >> Replace power window and door lock/unlock switch RH. Refer to <a href="PWC-56">PWC-56</a>, "Removal and Installation".

# 2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect power window and door lock/unlock switch RH.
- Check continuity between power window and door lock/unlock switch RH connector and front power window motor RH connector.

Power window and door lock/unlock switch RH connector	Terminal	Front power window motor RH connector	Terminal	Continuity
D105	6	D104	1	Yes
D103	7	D104	2	103



4. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH connector	Terminal	Ground	Continuity
D105	6		No
	7		

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

## 3. CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.

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

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Replace front power window motor RH. Refer to GW-14, "Front Door Glass Regulator".

## PASSENGER SIDE: Component Inspection

#### COMPONENT INSPECTION

# 1. CHECK FRONT POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to front power window motor RH?

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#### < COMPONENT DIAGNOSIS >

Terminal		Motor condition
(+)	(-)	Wotor condition
1	2	DOWN
2	1	UP

#### Is the inspection result normal?

YES >> Front power window motor RH is OK.

NO >> Replace front power window motor RH. Refer to <u>GW-14</u>, "Front Door Glass Regulator".

## 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 CIRCUIT

Does rear power window motor LH operate with main power window and door lock/unlock switch or rear power window switch LH?

#### Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to PWC-20, "REAR LH : Diagnosis Procedure"

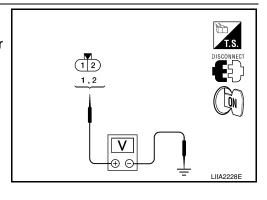
## REAR LH: Diagnosis Procedure

Power Window Motor Circuit Check

## 1. CHECK REAR POWER WINDOW SWITCH OUTPUT SIGNAL

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

Terminal				
(+)			Window	Voltage (V)
Rear power window motor LH connector	Terminal	(-)	condition	(Approx.)
	1	1 Ground	UP	Battery voltage
D204			DOWN	0
D204	2	Ground	UP	0
		1	DOWN	Battery voltage



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#### Is the measurement value within the specification?

YES >> GO TO 2

NO >> Check rear power window switch LH. Refer to <a href="PWC-14">PWC-14</a>, "REAR POWER WINDOW SWITCH: Component Function Check".

## 2. CHECK HARNESS CONTINUITY

## < COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- Disconnect rear power window switch LH.
- Check continuity between rear power window switch LH connector (A) and rear power window motor LH connector (B).

Rear power window switch LH connector	Terminal	Rear power window motor LH connector	Terminal	Continuity
D203 (A)	6	D204 (B)	1	Yes
D200 (A)	7	D204 (D)	2	163

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

	H.S. DISCONNECT	T.S.
-	A 6,7	B 1 2 1,2
-	Ω	= LIIA2229E

Rear power window switch LH connector	Terminal	0	Continuity
D203 (A)	6	Ground	No
	7		

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

## ${f 3}.$ CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

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

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

>> Replace rear power window motor LH. Refer to GW-18. "Rear Door Glass Regulator". NO

## REAR LH: Component Inspection

#### COMPONENT INSPECTION

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

Does motor operate by connecting the battery voltage directly to rear power window motor LH?

Terminal		- Motor condition
(+)	(-)	Wotor condition
2	1	DOWN
1	2	UP

#### Is the inspection result normal?

>> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to GW-18, "Rear Door Glass Regulator".

## REAR RH

## REAR RH: Description

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

## REAR RH: Component Function Check

## 1. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

Does rear power window motor RH operate with operating main power window and door lock/unlock switch or rear power window switch RH?

Is the inspection result normal?

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#### < COMPONENT DIAGNOSIS >

YES >> Rear power window motor RH is OK.

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

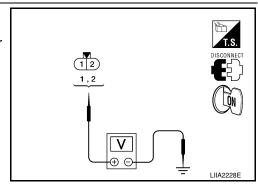
## REAR RH: Diagnosis Procedure

Rear Power Window Motor RH Circuit Check

## 1. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

Terminal				
(+)			Rear power window switch	Voltage (V)
Rear power window motor RH connector	Terminal	(–)	RH condition	(Approx.)
	1		UP	Battery voltage
D304		Ground 2	DOWN	0
D304 -	2		UP	0
			DOWN	Battery voltage



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#### Is the measurement value within the specification?

YES >> GO TO 2

NO >> Check rear power window switch RH. Refer to <a href="PWC-14">PWC-14</a>, "REAR POWER WINDOW SWITCH: Component Function Check".

# 2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH.
- 3. Check continuity between rear power window switch RH connector (A) and rear power window motor RH connector (B).

Rear power window switch RH connector	Terminal	Rear power window motor RH connector	Terminal	Continuity
D303 (A)	6	D304 (B)	1	Yes
D303 (A)	7	D304 (B)	2	165

4. Check continuity between rear power window switch RH connector (A) and ground.

H.S. DISCONNECT	T.S.
A 6 7	B 1 2
6,7	1,2
Ω	

Rear power window switch RH connector	Terminal		Continuity
D303 (A)	6	Ground	No
D303 (A)	7		INO

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

## 3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

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

## Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Replace rear power window motor RH. Refer to GW-18, "Rear Door Glass Regulator".

#### < COMPONENT DIAGNOSIS >

## **REAR RH: Component Inspection**

INFOID:0000000003083381

## COMPONENT INSPECTION

# 1. CHECK REAR POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to rear power window motor RH?

Terr	minal	Motor condition	
(+)	(-)		
2	1	DOWN	
1	2	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-18</u>, "Rear <u>Door Glass Regulator"</u>.

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## **DOOR SWITCH**

Description

Detects door open/close condition and transmits the signal to BCM.

## Component Function Check

## 1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-III. Refer to PWC-7, "RETAINED PWR: CONSULT-III Function (BCM - RETAINED PWR)".

Monitor item		Condition
DOOR SW-DR	OPEN	: ON
DOOR SW-DR	CLOSE	: OFF
DOOR SW-AS	OPEN	: ON
DOON SW-AS	CLOSE	: OFF

#### Is the inspection result normal?

YES >> Front door switch circuit is OK.

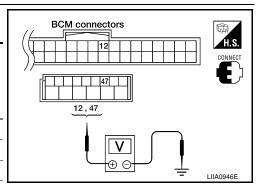
NO >> Refer to PWC-24, "Diagnosis Procedure".

## Diagnosis Procedure

## 1. CHECK FRONT DOOR SWITCH

Check voltage between BCM connector and ground.

	Terminals					
(+	(+)		Door condition		Voltage (V)	
BCM connector	Terminal	(–)	Bool condition		(Approx.)	
M18	12		Front door		0	
WITO	12	Ground	RH	CLOSE	Battery voltage	
M19	47	Ground	Front door	OPEN	0	
IVITS	47	LH		CLOSE	Battery voltage	



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#### Is the measurement value within the specification?

YES >> Replace BCM. Refer to BCS-52, "Removal and Installation".

NO >> GO TO 2

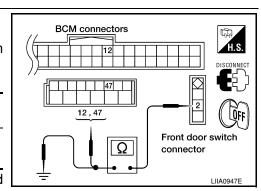
# 2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.

- Disconnect BCM and front door switch.
- 3. Check continuity between BCM connector and front door switch connector.

BCM connector	Terminal	Front door switch connector	Terminal	Continuity
M18	12	RH: B108	2	Yes
M19	47	LH: B8		163

Check continuity between front door switch connector and ground.



## **DOOR SWITCH**

#### < COMPONENT DIAGNOSIS >

Front door switch connector	Terminal		Continuity
B8 (LH)	2	Ground	No
B108 (RH)	2		INO

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Is the inspection result normal?

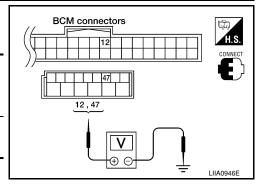
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector.
- 2. Check voltage between BCM connector and ground.

(-	+)	(-)	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	, , ,
M18	12	Ground	Battery voltage
M19	47	Ground	Dattery Voltage



Is the measurement value within the specification?

YES >> GO TO 4

NO >> Replace BCM. Refer to BCS-52, "Removal and Installation".

4. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-25, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Replace front door switch.

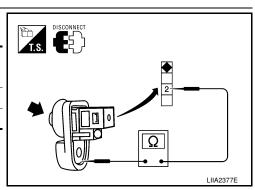
## Component Inspection

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## 1. CHECK FRONT DOOR SWITCH

Check front door switches.

Terminal Door switches		Door switch	Continuity	
		Door Switch		
2	Ground part of door switch	Pressed	No	
		Released	Yes	



Is the inspection result normal?

YES >> Front door switch is OK.

NO >> Replace front door switch.

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## POWER WINDOW LOCK SWITCH

#### < COMPONENT DIAGNOSIS >

## POWER WINDOW LOCK SWITCH

Ground circuit of main power window and door lock/unlock switch shuts off if power window lock switch of main power window and door lock/unlock switch is operated. This inhibits all operation, except for the main switch.

## **Component Function Check**

INFOID:0000000003083403

# 1. CHECK POWER WINDOW LOCK SIGNAL

Exchanges for a normal main power window and door lock/unlock switch, and operation is checked. <u>Does power window lock operate?</u>

- YES >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>, "Removal and Installation".
- NO >> Check condition of harness and connector.

## < ECU DIAGNOSIS >

# **ECU DIAGNOSIS**

# BCM (BODY CONTROL MODULE)

Reference Value

## VALUES ON THE DIAGNOSIS TOOL

#### CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status	
DOOR SW-DR	Front door LH closed	OFF	
DOON SW-DN	Front door LH opened	ON	D
DOOR SW-AS	Front door RH closed	OFF	
DOOR SW-AS	Front door RH opened	ON	Е

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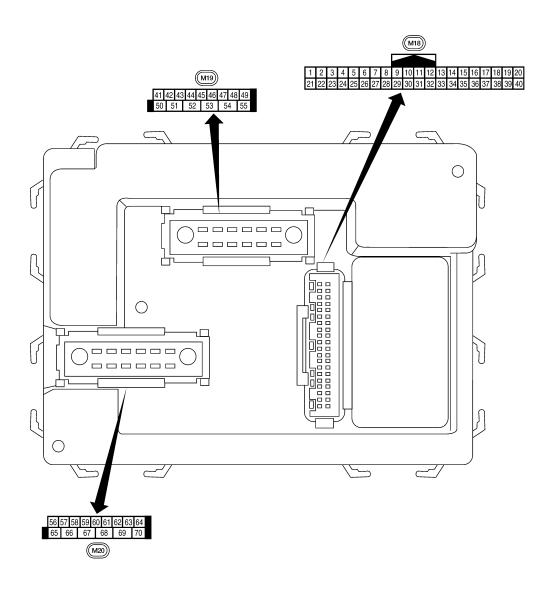
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Terminal Layout



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Physical Values

	\\/i=~		Signal		Measuring condition	Potoronoo valuo or waxafarra
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
1	BR	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
1	DN	nation	Output	OFF	Door is unlocked (SW ON)	0V
2	Р	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 2 0 + 5ms SKIA5291E
3	SB	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 2 0 
4	V	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms
5	L	Combination switch input 2				(V)
6	R	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	5ms SKIA5292E
		Front door lock as-			ON (open, 2nd turn)	Momentary 1.5V
7	GR	sembly LH (key cylin- der switch) and back door key cylinder switch (unlock)	Input	OFF	OFF (closed)	OV
		Front door lock as-			ON (open)	Momentary 1.5V
8	SB	sembly LH (key cylin- der switch) and back door key cylinder switch (lock)	Input	OFF	OFF (closed)	OV
9	Y	Rear window defogger	Input	ON	Rear window defogger switch ON	OV
3	1	switch	input	ON	Rear window defogger switch OFF	5V
11	G/B	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	LG	Front door switch RH	Input	OFF	ON (open)	OV
14	LG	TOTAL GOOD SWILLING	iriput	011	OFF (closed)	Battery voltage

	Wire		Signal		Measuring condition	Defenses value annual famo	
Terminal Wir cold		Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)	
10		Door door owitch DLI	laaut	٥٢٢	ON (open)	0V	
13	L	Rear door switch RH	Input	OFF	OFF (closed)	Battery voltage	
15	W	Tire pressure warning check connector	Input	OFF	_	5V	
18	BR	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	_	OV	
19	V	Remote keyless entry receiver (power sup- ply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0 → 50 ms	
20	G	Remote keyless entry	Input	OFF	Stand-by (keyfob buttons released)	(V) 6 4 2 0 ++50 ms	
20		receiver (signal)			When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 -1 0 + *50 ms	
21	GR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF $\rightarrow$ ON)	Just after turning ignition swit ON: Pointer of tester should move for approx. 1 second, the return to battery voltage.	
22	V	BUS	_	_	Ignition switch ON or power window timer operates	(V) 15 10 5 0 200 ms	
23	G	Security indicator lamp	Output	OFF	Goes OFF → illuminates (Every 2.4 seconds)	Battery voltage → 0V	
25	BR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF $\rightarrow$ ON)	Just after turning ignition swit ON: Pointer of tester should move for approx. 1 second, the return to battery voltage.	
27	W	Compressor ON sig-	Input	ON	A/C switch OFF	5V	
_,	••	nal	put	J.1	A/C switch ON	0V	
28	R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage	
	R Front blower monitor			<b></b>	Front blower motor ON	0V	

# < ECU DIAGNOSIS >

	Wire	Cianal name	Signal		Measuring condition	Reference value or waveform	
Terminal color		Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)	
29	G	Hazard switch	Input	OFF	ON	OV	
29	<u> </u>	Hazaru Switch	iliput	OFF	OFF	5V	
32	Ο	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ++5ms SKIA5291E	
33	GR	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms	
34	G	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms	
35	BR Combination switch output 2				(V)		
36	LG	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	5ms SKIA5292E	
07		Key switch and key	1	OFF	Key inserted	Battery voltage	
37	В	lock solenoid	Input	OFF	Key inserted	OV	
38	W/R	Ignition switch (ON)	Input	ON	_	Battery voltage	
39	L	CAN-H	_	_	_	<u> </u>	
40	Р	CAN-L	_	_	_	_	
43	Υ	Back door switch	Input	OFF	ON (open) 0V		
	'	Rear wiper auto stop switch	Input		OFF (closed)	Battery voltage	
44					Rise up position (rear wiper arm on stopper)	0V	
					A Position (full clockwise stop position)	Battery voltage	
	0			ON	Forward sweep (counterclockwise direction)	Fluctuating	
					B Position (full counterclock- wise stop position)	0V	
					Reverse sweep (clockwise direction)	Fluctuating	

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## < ECU DIAGNOSIS >

	Wire		Signal		Measuring condition	Reference value or waveform	
Terminal	color	color Signal name Input/ Ignition Operation or cond		Operation or condition	(Approx.)		
45	V	Lock switch	Input	OFF	ON (lock)	OV	
45	V	LOCK SWITCH	input	OH	OFF	Battery voltage	
46	LG	Unlock switch	Innut	OFF ON (unlock)		0V	
40	LG	Officer Switch	Input	OII	OFF	Battery voltage	
47	GR	Front door switch LH	Input	OFF	ON (open)	0V	
47	GIT	1 TOTIL GOOT SWILCH LIT	iliput	Ori	OFF (closed)	Battery voltage	
48	Р	Rear door switch LH	Input	OFF	ON (open)	OV	
40	ŗ	Hear door Switch Life	input	OH	OFF (closed)	Battery voltage	
49	L	Cargo lamp	Output	OFF	Any door open (ON)	0V	
49	L	Cargo lamp	Output	OFF	All doors closed (OFF)	Battery voltage	
51	G	Trailer turn signal (right)	Output	ON	Turn right ON	(V) 15 10 500 ms SKIA3009J	
52	V	Trailer turn signal (left)	Output	ON	Turn left ON	(V) 15 10 5 0 500 ms	
55	W	Rear wiper output cir-	Output	ON	OFF	0	
55	VV	cuit 1	Output	ON	ON	Battery voltage	
56	V	Battery saver output	Output	OFF	30 minutes after ignition switch is turned OFF	0V	
				ON	_	Battery voltage	
57	R/Y	Battery power supply	Input	OFF	_	Battery voltage	
EO	W	Optical sensor	loout	ON	When optical sensor is illuminated	3.1V or more	
58	VV	Optical serisor	Input	ON	When optical sensor is not illuminated	0.6V or less	
		Front door lock as-			OFF (neutral)	OV	
59	GR	sembly LH actuator (unlock)	Output	OFF	ON (unlock)	Battery voltage	
60	LG	Turn signal (left)	Output	ON	Turn left ON	(V) 15 10 5 0 500 ms	

## < ECU DIAGNOSIS >

	Wire		Signal		Measuring cond	dition	Reference value or waveform	
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition		(Approx.)	
61	G	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 5 0 -> -4 500 ms	
63	BR	Interior room/map	Output	OFF	Any door	ON (open)	0V	
	Dit	lamp	Output	011	switch	OFF (closed)	Battery voltage	
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V	
		(lock)	Catput	0	ON (lock)		Battery voltage	
		Front door lock actua-			OFF (neutral)		0V	
66	L	tor RH, rear door lock actuators LH/RH and back door lock actua- tor (unlock)	Output	OFF	ON (unlock)		Battery voltage	
67	В	Ground	Input	ON	_		0V	
					Ignition switch ON Within 45 seconds after ignition switch OFF		Battery voltage	
		O Power window power supply (RAP)	Output	_			Battery voltage	
68	0				More than 45 seconds after ignition switch OFF		0V	
					When front do open or power operates		0V	
70	W	Battery power supply	Input	OFF	-	_	Battery voltage	

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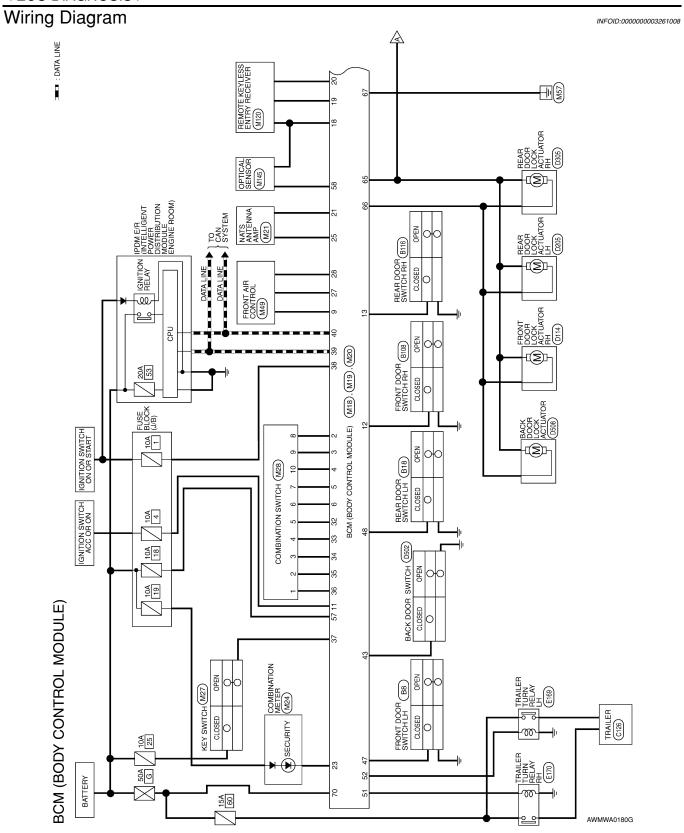
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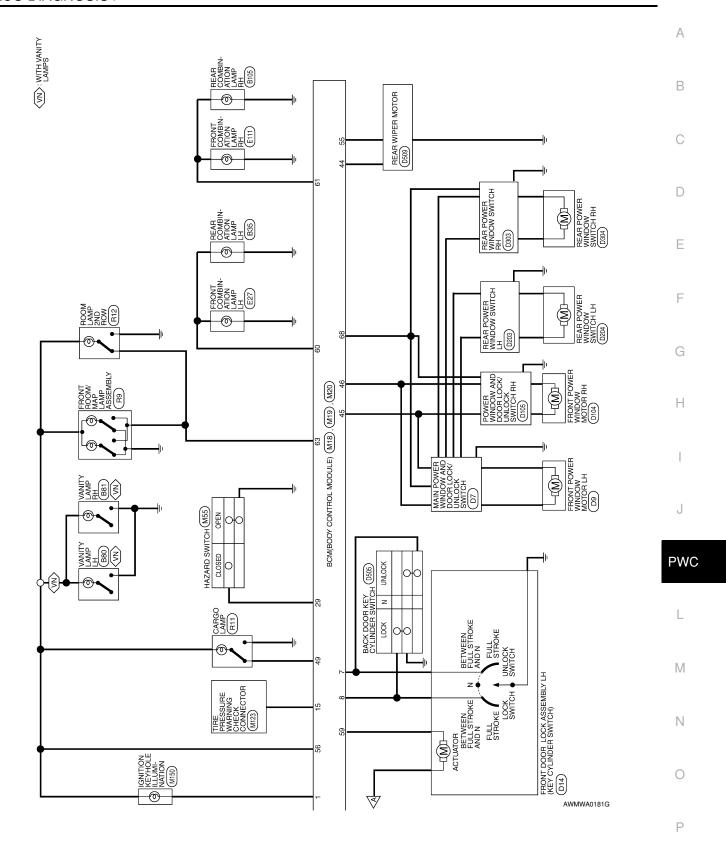
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# BCM (BODY CONTROL MODULE) CONNECTORS

Connector Name BCM (BODY CONTROL MODULE)

WHITE

Connector Color

Terminal No.	Color of Wire	Signal Name
22	1	I
23	Ö	SECURITY INDICATOR OUTPUT
24	ı	1
25	BR	IMMOBILISER ATNENNA SIG (TX,RX)
56	_	I
27	M	AIRCON SW
28	ш	BLOWER FAN SW
29	5	HAZARD SW
30	_	ı
31	_	-
32	0	COMBI SW OUTPUT 5 (PULL UP SIDE)
33	ЯÐ	COMBI SW OUTPUT 4 (PULL UP SIDE)
34	g	COMBI SW OUTPUT 3 (PULL UP SIDE)
35	BB	COMBI SW OUTPUT 2 (PULL UP SIDE)
36	97	COMBI SW OUTPUT 1 (PULL UP SIDE)
37	В	KEY SW
38	W/R	IGN SW
39	Г	CAN-H
40	۵	CAN-L

Terminal No.	Color of Wire	Signal Name
7	GR	KEY CYLINDER UNLOCK SW
∞	SB	KEY CYLINDER LOCK SW
6	>	DEFOGGER SW
10	_	
11	G/B	ACC_SW
12	ГG	DOOR SW (AS)
13	٦	DOOR SW (RR)
14	-	ı
15	8	TPMS MODE TRIGGER SW
16	1	1
17	_	1
18	BB	KEYLESS & AUTO LIGHT SENSOR GND
19	>	KEYLESS TUNER POWER SUPPLY OUTPUT
20	G	KEYLESS TUNER SIGNAL
21	GR	IMMOBILSER ATNENNA SIG (CLOCK)

Signal Name	KEY RING OUTPUT	COMBI SW INPUT 5 (LOW SIDE)	COMBI SW INPUT 3 (LOW SIDE)	COMBI SW INPUT 4 (LOW SIDE)	COMBI SW INPUT 2 (LOW SIDE)	COMBI SW INPUT 1 (LOW SIDE)
Color of Wire	BR	Ь	SB	>	٦	Œ
Terminal No.	-	2	3	4	5	9

AWMIA0384GB

Signal Name	CDL LOCK SW	CDL UNLOCK SW	DOOR SW (DR)	DOOR SW (RL)	LUGGCARGO LAMP OUTPUT	ı	TRAILER FLASHER OUTPUT (RIGHT)	TRAILEŘ FLASHER OUTPUT (LEFT)	_	Ι	REAR WIPER MOTOR OUTPUT 1
Color of Wire	>	ГG	GR	Ь	_	ı	ŋ	>	ı	ı	M
Terminal No.	45	46	47	48	49	20	51	52	53	54	55

Signal Name	FLASHER OUTPUT (RIGHT)	I	ROOM LAMP OUTPUT	I	DOOR LOCK OUTPUT (ALL)	DOOR UNLOCK OUTPUT (OTHER)	GND (POWER)	POWER WINDOW POWER SUPPLY OUT (LINKED TO RAP)	_	BAT (F/L)
Color of Wire	g	ı	BR	-	>	7	В	0	1	×
Terminal No.	61	62	63	64	65	99	29	89	69	70

Sonnector No.   M19	connector Name BCM (BOE MODULE)	Connector Color WHITE	4142	
	BCM (BODY CONTROL MODULE)	ш	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	

M19	BCM (BODY CONTROL MODULE)	WHITE	41   42   43   44   45   46   47   48   49   49   49   49   49   49   49	f Signal Name	ı	I	BACK DOOR SV	REAR WIPER AUT	
				Color of Wire	ı	I	>	0	
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	41	42	43	44	

M20	Connector Name BCM (BODY CONTROL MODULE)	BLACK	
Connector No.	Connector Name	Connector Color BLACK	



	Signal Name	BATTERY SAVER OUTPUT	BAT (FUSE)	-	DOOR UNLOCK OUTPUT (DR)	FLASHER OUTPUT (LEFT)
	Color of Wire	^	R/Y	_	GR	ГС
0	Ferminal No.	56	22	28	59	09

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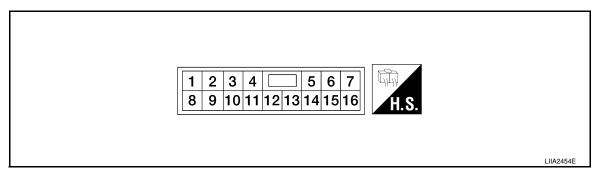
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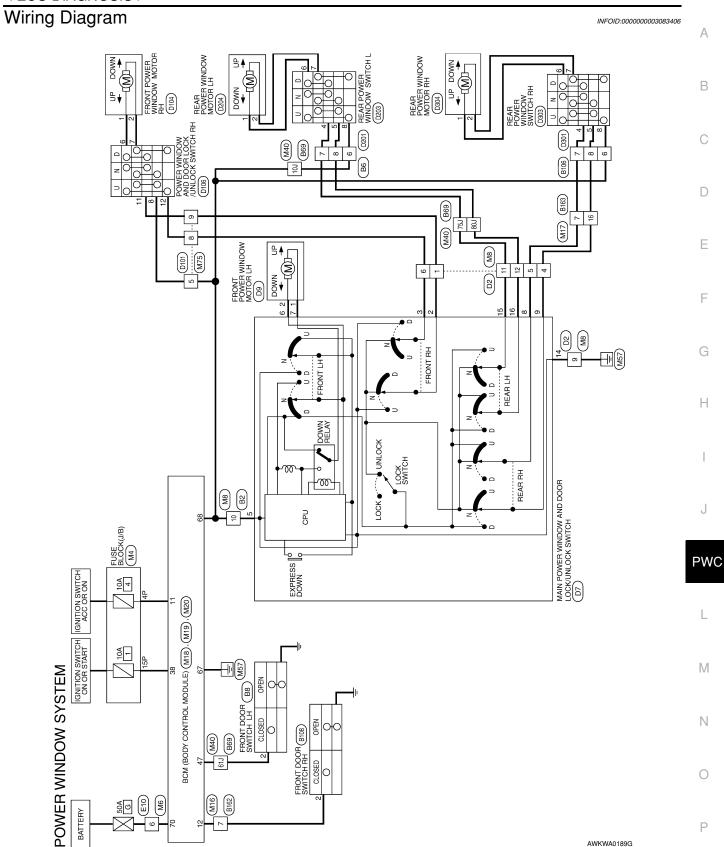
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Terminal Layout



Physical Values

Terminal	Wire Color	ltem	Condition	Voltage (V) (Approx.)
2	G/Y	Front power window motor RH DOWN signal	When power window motor is operated DOWN	Battery voltage
3	L/W	Front power window motor RH UP signal	When power window motor is operated UP	Battery voltage
			When ignition switch ON	Battery voltage
			Within 45 seconds after ignition switch is turned to OFF	Battery voltage
5	W/R	RAP signal	More than 45 seconds after ignition switch is turned to OFF	0
			When front door LH or RH open or power window timer operates	0
6	G/R	Front power window motor LH UP signal	When power window motor is operated UP	Battery voltage
7	G/W	Front power window motor LH DOWN signal	When power window motor is operated DOWN	Battery voltage
8	G/B	Rear power window RH UP signal	When rear RH switch in main power window and door lock/unlock switch is operated UP	Battery voltage
9	R	Rear power window RH DOWN signal	When rear RH switch in main power window and door lock/unlock switch is operated DOWN	Battery voltage
14	В	Ground	_	0
15	R/B	Rear power window LH UP signal	When rear LH switch in main power window and door lock/unlock switch is operated UP	Battery voltage
16	R/Y	Rear power window LH DOWN signal	When rear LH switch in main power window and door lock/unlock switch is operated DOWN	Battery voltage

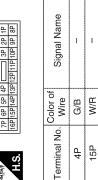


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# POWER WINDOW SYSTEM CONNECTORS

Connector No. M4  Connector Name FUSE BLOCK (J/B)  Connector Color WHITE
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Signal Name

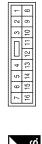
	WIRE TO WIRE	BROWN	10 9 8 7 6		Signal Name	von		1	1	esse	e e e	ı	
M8	me WIF		5 4		Color of Wire	SB	Ф	>	В	0	В	re	
Connector No.	Connector Name	Connector Color		6	Terminal No.		4	5	6	10	11	12	

	tem	ŧ	ł	ı	and the same of th	ì	I		
Wire	SB	Ф	Υ	В	0	Ж	re		
		4	5	0	10	<del>-</del>	12		
	•••••			•		·			

Connector No.		M17	7					M17
Connector Name WIRE TO WIRE	9	N	果	TO W	III	ш		
Connector Color   WHITE	-	₹	E	211				
								_
	100	2	4	7 6 5 4 3 2	က	~	<b>~</b>	

Connector Name WIRE TO WIRE Connector Color WHITE

Connector No. | M16



Sign
Color of Wire
Terminal No.

Signal Name

Color of Wire

Terminal No.

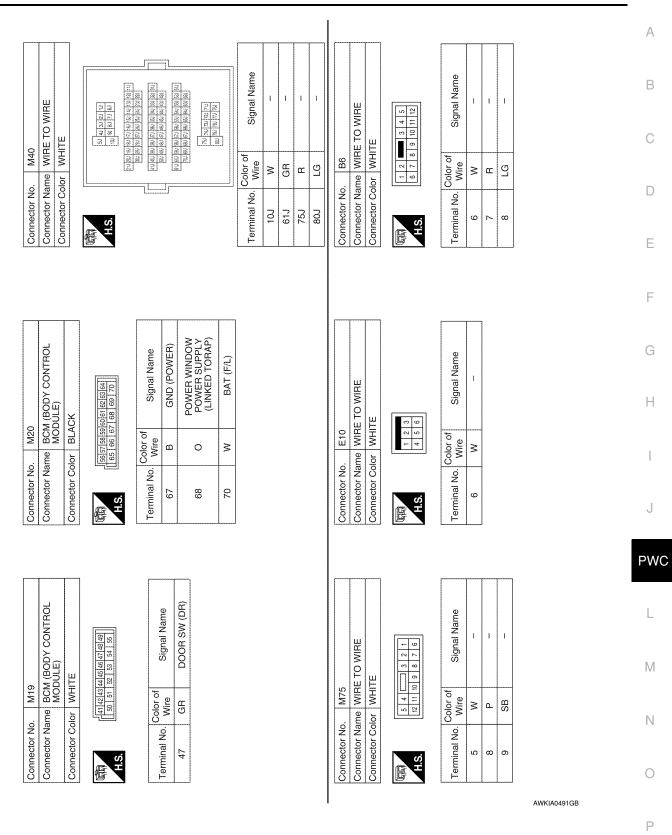
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Signal Name	ı	ı	***
Color of Wire	>-	×	۵.
Terminal No.	7	15	16

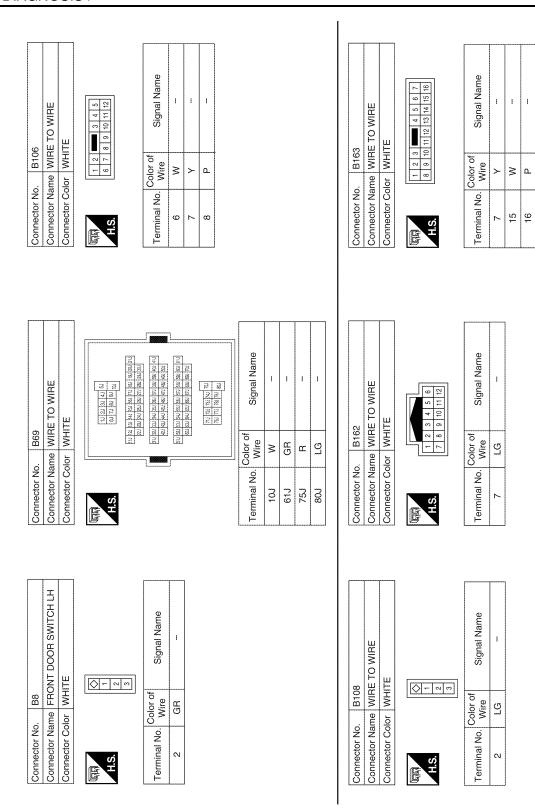
Connector No.	M18	~~
Connector Name	me BCI MO	BCM (BODY CONTROL MODULE)
Connector Color WHITE	lor WH	ПЕ
Ġ.		[
1         2         3         4         5         6         7         8         9         10         11         12         13           21         22         23         24         25         26         27         28         29         30         31         32         33         33         32         33         32         33         32         33         33         32         33	6 7 8 9 26 27 28 29	10     11     12     13     14     15     16     17     18     19     20       30     31     32     33     34     35     36     37     38     39     40
Terminal No.	Color of Wire	Signal Name
<del>-</del>	G/B	ACC_SW
12	re	DOOR SW (AS)
38	W/R	IGN SW

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## < ECU DIAGNOSIS >



**PWC-41** 



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Signal Name	1	ann	*
Color of Wire	В	R/B	₽⁄
Terminal No.	14	15	16

Connector No.	D7
Connector Name	Connector Name AND DOOR LOCK/UNLOCK SWITCH
Connector Color WHITE	WHITE
原列 H.S.	1 2 3 4

Signal Name

Terminal No. Wire

L/W W/R G/R G/W G/W

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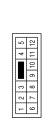
1 1

M/R R/B

5 = 5

G/Y

0 2 3 5



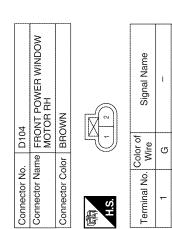
Connector Name | WIRE TO WIRE

D2

Connector No.

Connector Color BROWN

Signal Name	ı	1		I	ŧ
Color of Wire	G/Y	Œ	G/B	MΩ	മ
Ferminal No.		4	5	9	Ō



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Connector No.	). D101	·
onnector Na	ime WIF	Connector Name WIRE TO WIRE
Connector Color WHITE	olor WH	TE
南 H.S.	6 7	9 9 10 11 12
Terminal No.	Color of Wire	Signal Name
5	W/R	ana
8	<u>~</u>	ı
0	ζg	1

O:=!<	FRONT POWER WINDOW MOTOR LH
S. S. Colc	
H.S. Color of Wire	WN
Terminal No. Wire	
W.S.	Signal Name
<u> </u>	ı
2 G/R	ı

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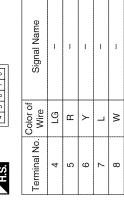
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Connector No.	D203
Connector Name	Connector Name REAR POWER WINDOW
	SWIICHLH
Connector Color   WHITE	WHITE

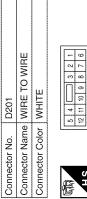
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2	REAR POWER WINDOW SWITCH LH	WHITE		0 2 3	Signal Name	-		I	1	1
				- 4 - 5	Color of Wire	re	Ж	Y	ب	Μ
COLLEGEIO NO.	Connector Name	Connector Color		是 H.S.	Terminal No. Wire	4	5	9	7	8

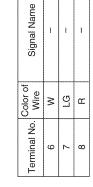


D303	REAR POWER WINDOW SWITCH RH	WHITE
Connector No.	Connector Name	Connector Color WHITE



Signal Name	ŧ	l	ŧ	I	ı
Color of Wire	<b>\</b>	Ж	<b>\</b>	٦	Μ
Terminal No. Wire	4	S	9	7	8





D301	WIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	



Signal Name	1	ı	ğ
Color of Wire	Α	>	В
Terminal No. Wire	9	7	8

2	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH	<b>1</b>		2 10 11 15	Signal Name	ı	I	Ī	1	_
D105		or WHI	2 1	0 / 0	Color of Wire	ഗ	ل	W/R	G/Y	M
Connector No.	Connector Name	Connector Color WHITE		H.S.	Terminal No.	9	7	8	11	12

	REAR POWER WINDOW MOTOR LH	关		Signal Name	I	1
D204		BLACK		Color of Wire	>-	
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.		2

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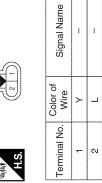
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No. D304	Name REAR POWER WINDOW MOTOR RH	Connector Color BLACK	
Connector No.	Connector Name	Connector	



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

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

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

## Diagnosis Procedure

INFOID:0000000003083411

## 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to BCS-30, "Diagnosis Procedure".

## Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

## 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window switch.

Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-55">PWC-55</a>. "Removal and Installation".

## 3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window switch main power supply and ground circuit.

Refer to PWC-8, "POWER WINDOW MAIN SWITCH: Component Function Check".

## Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

## DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000003083412 1. CHECK FRONT POWER WINDOW MOTOR LH В Check front power window motor LH. Refer to PWC-17, "DRIVER SIDE: Component Function Check". C Is the inspection result normal? YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident". D Е F G Н J PWC L M Ν 0

## FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

## Diagnosis Procedure

INFOID:0000000003083413

## 1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Refer to PWC-12, "FRONT POWER WINDOW SWITCH: Component Function Check".

### Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

## 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-11">PWC-11</a>, "POWER WINDOW MAIN SWITCH: Component Inspection".

## 3. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH circuit.

Refer to PWC-18, "PASSENGER SIDE: Component Function Check".

## Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

## REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >					
REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE					
Diagnosis Procedure					
1. CHECK REAR POWER WINDOW SWITCH LH	В				
Check rear power window switch LH. Refer to PWC-14, "REAR POWER WINDOW SWITCH: Component Function Check".	C				
Is th e inspection result normal?  YES >> GO TO 2  NO >> Repair or replace the malfunctioning parts.					
2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH	D				
Check main power window and door lock/unlock switch.  Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Component Inspection".	Е				
Is the inspection result normal?  YES >> GO TO 3  NO >> Replace main power window and door lock/unlock switch. Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Component Inspection".	F				
3. CHECK REAR POWER WINDOW MOTOR LH					
Check rear power window motor LH. Refer to PWC-20, "REAR LH: Component Function Check".	G				
Is th e inspection result normal?  YES >> Inspection End.  NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".	Н				
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	J				
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## REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS >

## REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

## Diagnosis Procedure

INFOID:0000000003083415

## 1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power winodw switch RH.

Refer to PWC-14, "REAR POWER WINDOW SWITCH: Component Function Check".

## Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

## 2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to PWC-11, "POWER WINDOW MAIN SWITCH: Component Inspection".

## Is the inspection result normal?

YES >> GO TO 3

NO >> Replace main power window and door lock/unlock switch. Refer to <a href="PWC-11">PWC-11</a>, "POWER WINDOW MAIN SWITCH: Component Inspection".

## 3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

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

## Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

## 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:0000000003083418

 ${f 1}$  . REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Replace main power window and door lock/unlock switch and check operation. Refer to <a href="PWC-55">PWC-55</a>, "Removal and Installation".

## Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

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## POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

## < SYMPTOM DIAGNOSIS >

## POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000003083420

## 1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-24, "Component Function Check".

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

## POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

## < SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000003083423 ${f 1}$ . REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH В Replace main power window and door lock/unlock switch and check operation. Refer to PWC-55, "Removal and Installation". C Is the inspection result normal? YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident". D Е F Н J **PWC** L M Ν

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## **PRECAUTIONS**

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## **PRECAUTION**

## **PRECAUTIONS**

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

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

### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
  injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
  Module, see the SR section.
- 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.

## **POWER WINDOW MAIN SWITCH**

## < ON-VEHICLE REPAIR >

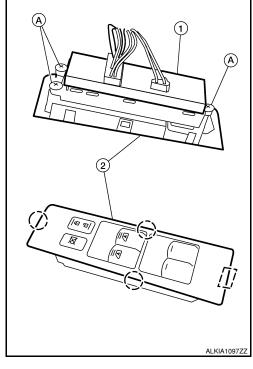
## **ON-VEHICLE REPAIR**

## POWER WINDOW MAIN SWITCH

## Removal and Installation

## **REMOVAL**

- Remove the power window main switch finisher (2) from the front door finisher LH. Refer to <u>INT-10</u>. "Removal and <u>Installa-tion"</u>.
- 2. Remove the three screws (A) from the power window main switch (1), then separate from the finisher (2).



## **INSTALLATION**

Installation is in the reverse order of removal.

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## FRONT POWER WINDOW SWITCH

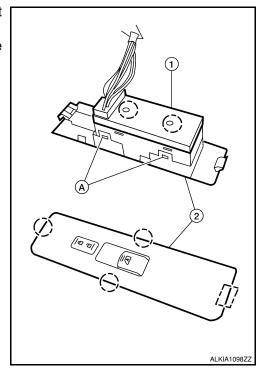
## < ON-VEHICLE REPAIR >

## FRONT POWER WINDOW SWITCH

## Removal and Installation

## **REMOVAL**

- 1. Remove the front power window switch finisher (2) from the front door finisher RH. Refer to <a href="INT-10">INT-10</a>, "Removal and Installation".
- 2. Release the four tabs (A), two on each side, then separate the front power window switch (1) from the finisher (2).



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## **INSTALLATION**

Installation is in the reverse order of removal.

## **REAR POWER WINDOW SWITCH**

## < ON-VEHICLE REPAIR >

## **REAR POWER WINDOW SWITCH**

## Removal and Installation - Rear Door Switch

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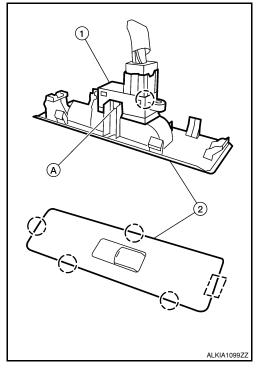
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## **REMOVAL**

- 1. Remove the rear power window switch finisher (2) from the rear door finisher. Refer to <a href="INT-10">INT-10</a>, "Removal and Installation".
- 2. Release the two tabs (A), one on either side, then separate the rear power window switch (1) from the finisher (2).



## **INSTALLATION**

Installation is in the reverse order of removal.

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