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### **DIAGNOSIS AND REPAIR WORK FLOW**

< BASIC INSPECTION > [COUPE]

# **BASIC INSPECTION**

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

#### **DETAILED FLOW**

### 1. OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurs) 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 conditions when the symptoms occur.

>> GO TO 3.

# 3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 2 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"

Diagnose with "Component diagnosis" of the applicable system.

>> GO TO 5.

## 5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

### 6. FINAL CHECK

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

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

INSPECTION AND ADJUSTMENT [COUPE] < BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: De-В scription INFOID:0000000006353847 When the battery negative terminal is disconnected, the initialization is necessary. If any of the following operations are performed, the initialization is necessary as well as when the negative battery terminal is disconnected. Power supply to the power window switch or power window motor is cut off by removal of battery terminal or if the battery fuse is blown. D Disconnection and connection of power window switch harness connector. Removal and installation of motor from regulator assembly. Operation of regulator assembly as an independent unit. Е Removal and installation of door glass or door glass run. The following specified operations cannot be performed under the non initialized condition. Auto-up operation Anti-pinch function F Key cylinder switch power window function Automatic window adjusting function Auto-up, manual-up does not operate when door is open ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000006353848 Н INITIALIZATION PROCEDURE 1. Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or more. Door switch is OFF (close). Turn ignition switch ON. 4. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open.) 5. Continue pulling the power window switch AUTO-UP. Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more. Initializing procedure is completed. 7. Inspect anti-pinch function. **CAUTION:** When initialization is not complete, power window UP does not operate while door is open. CHECK ANTI-PINCH FUNCTION 1. Fully open the door window. 2. Place a piece of wood near the 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. Ν **CAUTION:** Never check with hands and other part of body because they may be pinched. Never get pinched.

- Check that AUTO-UP operates before inspection when system initialization is performed.
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be performed.
- 1. Auto-up operation
- 2. Anti-pinch function
- 3. Key cylinder switch power window function
- 4. Automatic window adjusting function
- 5. Auto-up, manual-up does not operate when door is open

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

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PWC-7 Revision: 2011 October 2011 370Z

### INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [COUPE]

### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000006353849

When the control unit is replaced, the initialization is necessary.

If any of the following operations are performed, the initialization is necessary and the control unit must be disconnected.

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

The following specified operations cannot be performed under the non initialized condition.

- Auto-up operation
- Anti-pinch function
- Key cylinder switch power window function
- Automatic window adjusting function
- Auto-up, manual-up does not operate when door is open

# ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

#### INITIALIZATION PROCEDURE

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

#### **CAUTION:**

When initialization is not complete, power window UP does not operate while door is open.

#### CHECK ANTI-PINCH FUNCTION

- 1. Fully open the door window.
- 2. Place a piece of wood near the fully closed position.
- 3. 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 switch while lowering.

### **CAUTION:**

- Never check with hands and other part of body because they may be pinched. Never get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be performed.
- 1. Auto-up operation
- 2. Anti-pinch function
- 3. Key cylinder switch power window function
- 4. Automatic window adjusting function
- 5. Auto-up, manual-up does not operate when door is open

### [COUPE]

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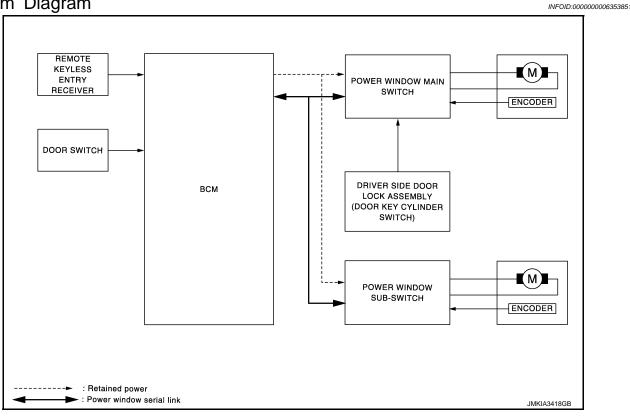
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# SYSTEM DESCRIPTION

### POWER WINDOW SYSTEM

System Diagram



# System Description

INFOID:0000000006353852

### POWER WINDOW SYSTEM

- Power window system is activated by power window switch operation when ignition switch is turned ON and during the retained power operation, after ignition switch turned OFF.
- · Power window main switch can open/close all windows.
- Power window sub-switch can open/close the passenger side windows.
- AUTO operation can be activated by operating the power window switch once.
- It transmits and receives the signal between BCM and power window main switch or power window sub switch, via serial communication.
- When pressing power window lock switch, operation other than power window main switch becomes impos-
- When detecting the pinching resistance of foreign materials, etc. during power window AUTO UP operation, it lowers door glass to the specified value.
- When opening driver side or passenger side door while door glass is being fully closed, it lowers door glass of the door a little from the closed position. When closing the door, it return door glass to the fully closed position.
- All power windows open or close when Intelligent Key unlock button is pressed for 3seconds.
- Hold the door key cylinder to the UNLOCK direction for 1 second or more to OPEN all power windows when ignition switch OFF.

#### POWER WINDOW AUTO-OPERATION

- 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 the fully open/closed position.
- Auto function is inoperable if encoder is malfunctioning.

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### **POWER WINDOW SYSTEM**

< SYSTEM DESCRIPTION >

[COUPE]

#### POWER WINDOW SERIAL LINK

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The under mentioned signal is transmitted from BCM to power window main switch.

- Driver side door switch signal.
- Keyless power window down signal.
- Retained power operation signal.

The under mentioned signal is transmitted from BCM to power window sub-switch.

- · Passenger side door switch signal.
- Keyless power window down signal.
- Retained power operation signal.

The following signal is transmitted from power window main switch to power window sub-switch.

- Passenger side door window operation signal.
- Power window lock signal.
- Power window control by key cylinder switch signal.

#### RETAINED POWER OPERATION

Retained power operation is an additional power supply function that enables power window system to operate for 45 seconds after ignition switch turns OFF.

#### RETAINED POWER FUNCTION CANCEL CONDITIONS

- Front door CLOSED (door switch OFF)  $\rightarrow$  OPEN (door switch ON).
- When ignition switch turns ON again.
- When timer times out. (45 seconds)

### POWER WINDOW LOCK FUNCTION

Switch operation other than power window main switch is prohibited when power window lock switch is ON. Power window main switch does not operate any power window other than driver power window.

### **ANTI-PINCH FUNCTION**

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

#### **OPERATION CONDITION**

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

#### NOTE:

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

#### AUTOMATIC WINDOW ADJUSTING FUNCTION

When the driver/passenger door(s) is open, the window of the opened door is lowered approximately 10 mm (0.39 in).

When the door is closed, the window is raised to the fully closed position.

Automatic window adjusting function system (opening operation) does not operate when the following item occurs.

• The window is 10 mm (0.39 in) or more open from the fully closed position.

Automatic window adjusting function system (closing operation) does not operate when the following item occurs.

The automatic window adjusting function system (opening operation) operation.

#### DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Hold the door key cylinder to the LOCK or UNLOCK position for 1 second or more to OPEN or CLOSE all power windows when ignition switch is OFF. In addition, it stops when the key position is NEUTRAL when operating.

#### **OPERATION CONDITION**

- Ignition switch OFF.
- Hold door key cylinder to the LOCK position for 1 second or more to perform CLOSE operation of the door glass.

### POWER WINDOW SYSTEM

#### [COUPE] < SYSTEM DESCRIPTION >

 Hold door key cylinder in the UNLOCK position for 1 second or more to perform OPEN operation of the door glass.

#### KEYLESS POWER WINDOW DOWN FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and pressed and held for more than 3\* seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening function stops when the following operations are performed.

- When the unlock button is pressed and held for more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activates, keyless power window down function cannot be operated.

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUP-PORT". Refer to DLK-41, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

#### NOTE:

Use CONSULT-III to change settings.

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

### POWER CONSUMPTION CONTROL SYSTEM

Power window switch incorporates a power consumption control function that reduces the power consumption according the vehicle status.

### LOW POWER CONSUMPTION MODE

- Ignition switch OFF.
- Power window main switch and power window sub-switch do not receive a signal from serial link.
- · Power window motor does not move.

If any of the following conditions are satisfied, the low power consumption mode is released.

- Ignition switch ON.
- When door key cylinder switch signal is received.
- When the signal is received from serial link.
- When door open/close signal is received.
- When power window switch door lock is operated.

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**PWC-11** Revision: 2011 October 2011 370Z

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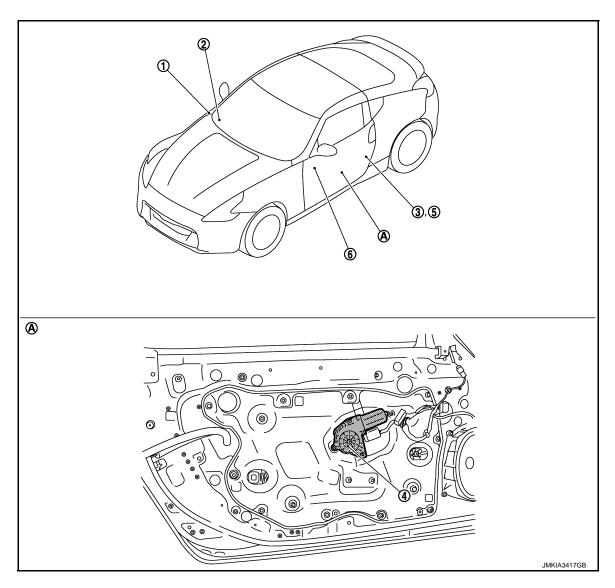
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# Component Parts Location

INFOID:0000000006353853



- 1. BCM M118, M119, M122, M123 BCS-9, "Component Parts Location"
- 4. Driver side power window motor D10 5.
- A. View with door finisher removed
- Remote keyless entry receiver M104 3.

  DLK-16, "INTELLIGENT KEY SYSTEM: Component Parts Location"
- Driver side door switch B16
- Driver side door lock assembly (door key cylinder switch) D15
- Power window main switch D8

6.

# **Component Description**

INFOID:0000000006353854

Component	Function	
BCM	<ul><li>Supplies power to power window switches.</li><li>Controls retained power function</li></ul>	
Power window main switch	<ul> <li>Directly controls all power window motors in all doors.</li> <li>Controls anti-pinch operation of power window.</li> </ul>	
Power window sub-switch	<ul> <li>Controls anti-pinch operation of power window.</li> <li>Controls power window motor of passenger door.</li> </ul>	
Power window motor	<ul> <li>Integrates the encoder and window motor.</li> <li>Starts operating with signals from each power window switch.</li> <li>Transmits power window motor rotation as a pulse signal to power window switch.</li> </ul>	

### **POWER WINDOW SYSTEM**

< SYSTEM DESCRIPTION >

[COUPE]

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

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[COUPE]

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

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

INFOID:0000000006353855

#### APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul><li>Read and save the vehicle specification.</li><li>Write the vehicle specification when replacing BCM.</li></ul>

### 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.

x: Applicable item

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

#### NOTE:

### FREEZE FRAME DATA (FFD)

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

<sup>\*:</sup> This item is displayed, but is not used.

# **DIAGNOSIS SYSTEM (BCM)**

< SYSTEM DESCRIPTION >

[COUPE]

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF	Power position status of the moment a particular DTC is detected	While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	<ul> <li>The number of times that ignition switch is turned ON after DTC is detected</li> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>		
RETAINED PW	/D			

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

INFOID:0000000006353856

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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 >

[COUPE]

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

BCM : Diagnosis Procedure

INFOID:0000000006353857

### 1. CHECK FUSE AND FUSIBLE LINK

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

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

### Is the fuse fusing?

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

NO >> GO TO 2.

# 2. CHECK POWER SUPPLY CIRCUIT

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

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

### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Connector Terminal		Continuity
M119	13		Existed

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

### POWER WINDOW MAIN SWITCH

### POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000006353858

# 1. CHECK POWER SUPPLY CIRCUIT 1

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

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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(+) Power window main switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
D8	1 10	Ground	12	

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK POWER SUPPLY CIRCUIT $_{2}$

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

В	CM	Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M118	2	D8	1	Existed
IVITIO	3		10	LXISIGU

Check continuity between BCM harness connector and ground.

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

### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Exploded View".

NO >> Repair or replace harness.

# 3. CHECK GROUND CIRCUIT

Turn ignition switch OFF.

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

Power window main switch			Continuity
Connector Terminal		Ground	Continuity
D8	D8 15		Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

### POWER WINDOW SUB-SWITCH

### POWER WINDOW SUB-SWITCH: Diagnosis Procedure

# 1. CHECK POWER SUPPLY CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- Check voltage between power window sub-switch harness connector and ground.

(+) Power window	sub-switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal			
D38 10		Ground	12	

**PWC-17** 

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INFOID:0000000006353859

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK POWER SUPPLY CIRCUIT 2

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

В	ВСМ		Power window sub-switch	
Connector	Terminal	Connector Terminal		Continuity
M118	2	D38	10	Existed

4. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Connector Terminal		Continuity
M118	M118 2		Not existed

### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Exploded View".

NO >> Repair or replace harness.

# 3. CHECK GROUND CIRCUIT

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

Power window sub-switch			Continuity	
Connector	Connector Terminal		Continuity	
D38	11		Existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

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# POWER WINDOW MOTOR

DRIVER SIDE

**DRIVER SIDE**: Description

INFOID:0000000006353860

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

**DRIVER SIDE: Component Function Check** 

INFOID:0000000006353861

# 1. CHECK POWER WINDOW MOTOR CIRCUIT

Check driver side power window motor operation with power window main switch.

Is the inspection result normal?

YES >> Driver side power window motor is OK.

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

### DRIVER SIDE : Diagnosis Procedure

INFOID:0000000006353862

# 1.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect driver side power window motor connector.
- 3. Turn ignition switch ON.

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

(+) Driver side power window motor		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				( 44.5)
	6	- Ground	Power window	UP	12
D10				DOWN	0
3	Ground	main switch	UP	0	
	3		DOWN	12	

### Is the measurement value within the specification?

YES >> GO TO 2.

NO >> GO TO 3.

# 2. CHECK POWER WINDOW MOTOR

Check driver side power window motor.

Refer to PWC-20, "DRIVER SIDE: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 4.

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

# 3.check power window motor circuit

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

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	8	D10	6	Existed
	11	010	3	LXISIEU

<sup>4.</sup> Check continuity between power window main switch harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

[COUPE]

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

#### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-106, "Removal and Installation".

NO >> Repair or replace harness.

# 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

**DRIVER SIDE: Component Inspection** 

INFOID:0000000006353863

### COMPONENT INSPECTION

# 1. CHECK DRIVER SIDE POWER WINDOW MOTOR

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

Driver side power window mo-	Terr	Motor operation	
tor connector	(+)	(–)	Wotor operation
D10	3	6	DOWN
	6	3	UP

#### Is the inspection result normal?

YES >> Driver side power window motor is OK.

NO >> Replace driver side power window motor. Refer to <u>GW-23</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000006353864

Door glass moves UP/DOWN by receiving the signal power window main switch or power window sub-switch .

### PASSENGER SIDE: Component Function Check

INFOID:0000000006353865

## 1. CHECK POWER WINDOW MOTOR CIRCUIT

Check passenger side power window motor operation with power window main switch or power window sub switch.

### Is the inspection result normal?

YES >> Passenger side power window motor is OK.

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

### PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000006353866

# 1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

### < DTC/CIRCUIT DIAGNOSIS >

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(+)		(-)			Voltage (V) (Approx.)		
Passenger side power window motor		( )	Condition				
Connector	Terminal				(		
				UP	12		
D40	6	O	Cround		Power window sub-	DOWN	0
3	Giouna	switch	UP	0			
	3			DOWN	12		

Is the measurement value within the specification?

YES >> GO TO 2.

NO >> GO TO 3.

# 2.check passenger side power window motor

Check passenger side power window motor.

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

### Is the inspection result normal?

YES >> GO TO 4.

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

# 3.check power window motor circuit

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

Power wind	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	9	D40	3	Existed
D30	8	D40	6	LAISIEU

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

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	8	Giouna	Not existed
D30	9		Not existed

#### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-106, "Removal and Installation".

NO >> Repair or replace harness.

## 4. CHECK INTERMITTENT INCIDENT

>> INSPECTION END

Refer to GI-43, "Intermittent Incident".

PASSENGER SIDE : Component Inspection

# COMPONENT INSPECTION

# 1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

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

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### < DTC/CIRCUIT DIAGNOSIS >

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Passenger side power window	Terminal		Motor condition
motor connector	(+)	(–)	Wiotor condition
D40	3	6	DOWN
	6	3	UP

### Is the inspection result normal?

YES >> Passenger side power window motor is OK.

NO >> Replace passenger side power window motor. Refer to <u>GW-23, "Removal and Installation"</u>.

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### < DTC/CIRCUIT DIAGNOSIS >

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### **ENCODER**

DRIVER SIDE

### **DRIVER SIDE**: Description

INFOID:0000000006353868

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

### DRIVER SIDE : Component Function Check

INFOID:0000000006353869

### 1. CHECK ENCODER OPERATION

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

### Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to <u>PWC-23</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### DRIVER SIDE: Diagnosis Procedure

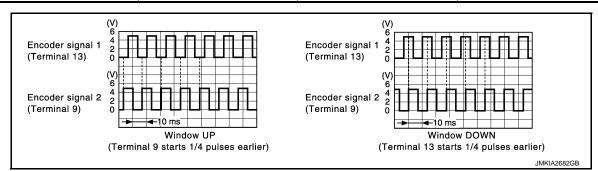
### INFOID:0000000006353870

### 1. CHECK ENCODER OPERATION

1. Turn ignition switch ON.

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

(+)			<b>6</b> : 1	
Power window main switch		(–)	Signal (Reference value)	
Connector	Terminal		()	
D8	9	Ground	Pofor to the following signal	
Do	13	Ground	Refer to the following signal	



### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-106, "Removal and Installation".

NO >> GO TO 2.

# 2. CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

Disconnect power window main switch connector and driver side power window motor connector.

3. Check continuity between power window main switch harness connector and driver side power window motor harness connector.

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	9	D10	5	Existed
50	13	510	2	LXISIGU

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

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Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
	9	Giodila	Not existed
D6	13	Not exis	INOL EXISTER

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK ENCODER POWER SUPPLY CIRCUIT 1

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

(+)			Voltage (V) (Approx.)	
Driver side power window motor		(–)		
Connector	Terminal		(11 - )	
D10	4	Ground	12	

### Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

### 4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

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

Power windo	w main switch	Driver side pow	er window motor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	5	D10	4	Existed

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	5		Not existed

### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-106, "Removal and Installation".

NO >> Repair or replace harness.

# 5. CHECK GROUND CIRCUIT 1

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

Power windo	w main switch	Driver side pow	er window motor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	14	D10	1	Existed

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

### 6.CHECK GROUND CIRCUIT 2

### **ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	14		Existed

### Is the inspection result normal?

YES >> Replace driver side power window motor. Refer to <u>PWC-106</u>, "Removal and Installation".

NO >> Replace power window main switch. Refer to <a href="PWC-106">PWC-106</a>, "Removal and Installation".

### PASSENGER SIDE

### PASSENGER SIDE: Description

INFOID:0000000006353871

Detects condition of the passenger side power window motor operation and transmits to power window subswitch as the pulse signal.

### PASSENGER SIDE: Component Function Check

INFOID:0000000006353872

### 1. CHECK ENCODER OPERATION

Check that passenger side door glass performs AUTO open operation normally with power window main switch or power window sub-switch.

#### Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to <a href="PWC-25">PWC-25</a>, "PASSENGER SIDE : Diagnosis Procedure".

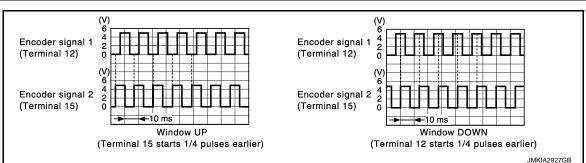
## PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000006353873

# 1. CHECK ENCODER SIGNAL

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

(+)			Signal	
Power window sub-switch		(–)	Signal (Reference value)	
Connector	Terminal		,	
D38	12	Ground	Refer to the following signal	
	15	Ground	Trefer to the following signal	



#### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-106, "Removal and Installation".

NO >> GO TO 2.

# 2.CHECK ENCODER SIGNAL CIRCUIT

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

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Power wind	ow sub-switch	Passenger side po	ower window motor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	12	D40	2	Existed
D36	15	D40	5	Existed

4. Check continuity between power window sub-switch connector and ground.

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	12	Giodila	Not existed
D36	15		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3. CHECK ENCODER POWER SUPPLY CIRCUIT 1

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

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

### Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

# 4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power windo	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	4	D40	4	Existed

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

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	4		Not existed

### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to <a href="PWC-106">PWC-106</a>, "Removal and Installation".

NO >> Repair or replace harness.

### 5. CHECK GROUND CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

### **ENCODER**

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Power windo	ow sub-switch	Passenger side po	ower window motor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	3	D40	1	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

# 6. CHECK GROUND CIRCUIT 2

1. Connect power window sub-switch connector.

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

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	3		Existed

### Is the inspection result normal?

YES >> Replace passenger side power window motor. Refer to <a href="PWC-106">PWC-106</a>, "Removal and Installation".

NO >> Replace power window sub-switch. Refer to <a href="PWC-106">PWC-106</a>, "Removal and Installation".

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# POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

### POWER WINDOW MAIN SWITCH: Description

INFOID:0000000006353874

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, power window subswitch.

Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to power window sub-switch.

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

### POWER WINDOW MAIN SWITCH: Component Function Check

INFOID:0000000006353875

# 1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

### (III) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <a href="DLK-40">DLK-40</a>, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	C	ondition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK SW	UNLOCK	: ON	

#### Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-28, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

# POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000006353876

# 1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+) Power window	(+) Power window main switch		Signal (Reference value)	
Connector	Terminal		(Note to talke)	
D8	12	Ground	(V) 15 10 5 0 10 ms  JPMIA0013GB	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

# 2. CHECK POWER WINDOW SERIAL LINK SIGNAL

1. Turn ignition switch OFF.

### **POWER WINDOW SERIAL LINK**

< DTC/CIRCUIT DIAGNOSIS >

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

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

### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-106, "Removal and Installation".

NO >> GO TO 3.

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

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

BCM Power window main switch		Continuity		
Connector	Terminal	Connector	Terminal	Continuity
M123	132	D8	12	Existed

Check continuity between BCM connector and ground.

BCM		Continuity	
Connector	Terminal	Ground	Continuity
M123	132		Not existed

### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> Repair or replace harness.

### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

### >> INSPECTION END

### POWER WINDOW SUB-SWITCH

### POWER WINDOW SUB-SWITCH: Description

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to power window main switch, power window subswitch.

Keyless power window down signal

The signal mentioned below is transmitted from power window main switch to power window sub-switch.

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

### POWER WINDOW SUB-SWITCH: Component Function Check

### 1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

### (II) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to DLK-40, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

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2011 370Z

INEOID:0000000006353878

INFOID:0000000006353877

Revision: 2011 October PWC-29

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

### Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-30, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure".

### POWER WINDOW SUB-SWITCH: Diagnosis Procedure

INFOID:0000000006353879

# 1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+) Power window	sub-switch	(-)	Signal (Reference value)
Connector	Terminal		,
D38	16	Ground	(V) 15 10 5 0 10 ms JPMIA0013GB

#### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-106, "Removal and Installation".

NO >> GO TO 2.

# 2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

Power windo	(+) Power window sub-switch		Voltage (V) (Approx.)
Connector	Terminal	(Approx.)	(Арргох.)
D38	16	Ground	12

#### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-106, "Removal and Installation".

NO >> GO TO 3.

# 3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

ВСМ		Power window sub-switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	132	D38	16	Existed

### **POWER WINDOW SERIAL LINK**

### < DTC/CIRCUIT DIAGNOSIS >

[COUPE]

4. Check continuity between BCM connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> Repair or replace harness.

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# **ECU DIAGNOSIS INFORMATION**

# BCM (BODY CONTROL MODULE)

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK HI	Front wiper switch HI	On
ED WIDER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED OTOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dia position
TURN CIONAL R	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL   AMED OVA/	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
D4.001N.0.01M	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO L IOLIT 014	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DD 500 0W	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
DOOD SW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD 014/ 4.0	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

### < ECU DIAGNOSIS INFORMATION >

[COUPE]

< ECU DIAGNOSIS INFO	DIVINATION >	[0001 L]	
Monitor Item	Condition	Value/Status	
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off	
DOOD OW DIV	Back door closed (Coupe models)     Trunk lid closed (Roadster models)	Off	
DOOR SW-BK	Back door opened (Coupe models)     Trunk lid opened (Roadster models)	On	
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off	
CDL LOCK 3W	Door lock and unlock switch LOCK	On	
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off	
CDL UNLOCK SW	Door lock and unlock switch UNLOCK	On	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	
KET CTL LK-SW	Driver door key cylinder LOCK position	On	
KEN CALTINI 6M	Other than driver door key cylinder UNLOCK position	Off	
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On	
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	
HAZARD SW	Hazard switch is OFF	Off	
HAZAKU ƏW	Hazard switch is ON	On	
REAR DEF SW	Rear window defogger switch OFF	Off	
<b>NOTE:</b> For models with NAVI this item is not monitored.	Rear window defogger switch ON	On	
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off	
TD CANCEL OW	Trunk lid opener cancel switch OFF	Off	
TR CANCEL SW	Trunk lid opener cancel switch ON	On	
TR/BD OPEN SW	Back door opener switch OFF (Coupe models)     Trunk lid opener switch OFF (Roadster models)	Off	
TR/BD OFEN SW	While the back door opener switch is turned ON (Coupe models)     While the trunk lid opener switch is turned ON (Roadster models)	On	Р
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off	
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off	
KKE-LOCK	LOCK button of the Intelligent Key is pressed	On	
DIVE LINI OOK	UNLOCK button of the Intelligent Key is not pressed	Off	
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On	
RKE-TR/BD NOTE:	TRUNK OPEN button of the Intelligent Key is not pressed	Off	
For Coupe models this item is not monitored.	TRUNK OPEN of the Intelligent Key is pressed	On	
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off	
INIC I ANIO	PANIC button of the Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off	
ININL-F/W OFEIN	UNLOCK button of the Intelligent Key is pressed and held	On	
BKE MODE CHC	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off	
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On	

# < ECU DIAGNOSIS INFORMATION >

[COUPE]

Monitor Item	Condition	Value/Status
ODTICAL SENSOD	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
NEQ SW -DIN	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEW SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
DEO SW. DD/TD	Back door request switch is not pressed (Coupe models)     Trunk lid door request switch is not pressed (Roadster models)	Off
REQ SW -BD/TR	Back door request switch is pressed (Coupe models)     Trunk lid door request switch is pressed (Roadster models)	On
DIICH C/W	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
CN DLV2 E/D	Ignition switch in OFF or ACC position	Off
GN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	The clutch pedal is not depressed	Off
<b>NOTE:</b> For A/T models this item is not monitored.	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW NOTE:	Selector lever in P position (A/T models)     The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off
For M/T models with Synchro- Rev Match mode this item is not monitored.	Selector lever in any position other than P (A/T models)     The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On
SFT PN/N SW NOTE: For roadster M/T models and	Selector lever in any position other than P and N (A/T models)     Control lever in any position other than neutral position (Coupe M/T models with SynchroRev Match mode)	Off
coupe M/T models without SynchroRev Match mode this tem is not monitored.	Selector lever in P or N position (A/T models)     Control lever in neutral position (Coupe M/T models with SynchroRev Match mode)	On
S/L -LOCK	Steering is unlocked	Off
<b>NOTE:</b> For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On

### < ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFO	JRIVIA I ION >	[COUPE]	
Monitor Item	Condition	Value/Status	,
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off	-
IOTE: For models without steering ock unit, this item is not monipred.	Ignition switch in ON position	On	E
INILIZ CENL DD	Driver door is unlocked	Off	
JNLK SEN -DR	Driver door is locked	On	(
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off	
USH SW -IPDIVI	Push-button ignition switch (push-switch) is pressed	On	
ON DIVA E/D	Ignition switch in OFF or ACC position	Off	
GN RLY1 -F/B	Ignition switch in ON position	On	
ETE CM IDDM	Selector lever in any position other than P	Off	
DETE SW -IPDM	Selector lever in P position	On	
SFT PN -IPDM	<ul> <li>Selector lever in any position other than P and N (A/T models)</li> <li>The clutch pedal is not depressed (M/T models)</li> </ul>	Off	ı
I I FIN -IF DIVI	Selector lever in P or N position (A/T models)     The clutch pedal is depressed (M/T models)	On	
FT P -MET	Selector lever in any position other than P	Off	(
I I F TVILI	Selector lever in P position	On	
FT N -MET	Selector lever in any position other than N	Off	
FIN-WEI	Selector lever in N position	On	
	Engine stopped	Stop	
NGINE STATE	While the engine stalls	Stall	
NGINE STATE	At engine cranking	Crank	
	Engine running	Run	
/L LOCK-IPDM	Steering is unlocked	Off	
OTE: or models without steering ock unit, this item is not moni- ored.	Steering is locked	On	Р
/L UNLK-IPDM	Steering is locked	Off	
OTE: or models without steering ock unit, this item is not moni- ored.	Steering is unlocked	On	
/L RELAY-REQ IOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off	Γ
or models without steering ock unit, this item is not moni- ored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On	ı
EH SPEED 1	While driving	Equivalent to speedom- eter reading	
EH SPEED 2	While driving	Equivalent to speedom- eter reading	(
	Driver door is locked	LOCK	
OOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY	
	Driver door is unlocked	UNLOCK	
	Passenger door is locked	LOCK	
OOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY	
	Passenger door is unlocked	UNLOCK	

### < ECU DIAGNOSIS INFORMATION >

[COUPE]

Monitor Item	Condition	Value/Status
ID OK ELAO	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front L tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front R tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RI tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LI tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet

## < ECU DIAGNOSIS INFORMATION >

[COUPE]

Monitor Item	Condition	Value/Status
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
וט אבטטו אאו	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGOT RET	ID of rear LH tire transmitter is not registered	Yet
MADNING LAND	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLER	Tire pressure warning alarm is sounding	On

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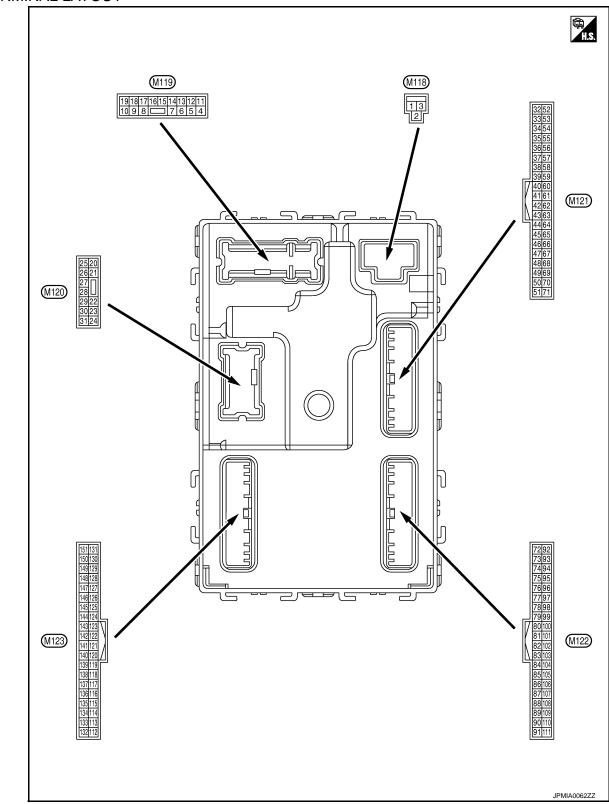
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### TERMINAL LAYOUT



PHYSICAL VALUES

## < ECU DIAGNOSIS INFORMATION >

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	nal No.	Description				Value		
+	color)	Signal name	Input/ Output		Condition	(Approx.)		
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage		
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch C	OFF	12 V		
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch C	ON	12 V		
					mp battery saver is activated. or room lamp power supply)	0 V		
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V		
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V		
(G)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V		
8	Ground	All doors, fuel lid	Output All doors, fuel lid	All doors, fuel	LOCK (Actuator is activated)	12 V		
(V)	Ground	LOCK		lid	Other than LOCK (Actuator is not activated)	0 V		
9	0	Driver door, fuel lid		Outrout	Output	Driver door,	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V		
11 (BR)	Ground	Battery power supply	Input	Ignition switch C	DFF	Battery voltage		
13 (B)	Ground	Ground	_	Ignition switch (	ON	0 V		
					OFF	0 V		
		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position.		
14 (R)	Ground	switch illumination ground	Output	Tail lamp	ON	10 0 2 ms		
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	JSNIA0010GB  Battery voltage		
(1)					ACC	0 V		

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## < ECU DIAGNOSIS INFORMATION >

Condition   Cond	nal No.	Description				Value
17	 -	Signal name			Condition	
Turn signal RH (Front and side)  Turn signal RH (Front and side)  Turn signal Switch RH  Turn signal switch OFF  Turn signal s					Turn signal switch OFF	
Turn signal switch OFF 0 V    Second   Turn signal LH (Front and side)   Second and side)	Ground		Output		Turn signal switch RH	15 10 5 0 1 s
Turn signal LH (Front and side)  Turn signal LH (Front and side)  Turn signal Switch LH  Turn signal switch OFF  Turn signal switch					Turn signal switch OFF	
Control   Cont	Ground		Output		Turn signal switch LH	15 10 5 0 1 s
Turn signal switch OFF  OV  Ground  Turn signal RH (Rear)  Output  Decreases  Company  Turn signal switch OFF  Turn signal switch OFF  Turn signal switch OFF  OV  OPEN (Back door/Trunk lid opener actuator is activated)  Other than OPEN (Back door/Trunk lid opener actuator is not activated)  Other than OPEN (Back door/Trunk lid opener actuator is not activated)  OFF  ON  Turn signal switch OFF  OV  OFF  ON  Turn signal switch OFF  OV  ON  ON  Turn signal switch OFF  OV  ON  ON  ON  ON  OV  Company  OUTput  Turn signal switch OFF  OV  ON  ON  ON  ON  OV  ON  ON  ON  ON	Ground		Output			
20 (V) Ground Turn signal RH (Rear) Output Ignition switch ON Turn signal switch RH  23 (L)*1 (Y)*2 Ground (Y)*2 Ground (Y)*2 Ground (X)*3 Ground (X)*4 Ground (X)*4 Ground (X)*4 Ground (X)*4 Ground (X)*4 Ground (X)*5 Ground (X				-		
Company   Comp	Ground	Turn signal RH (Rear)	Output		Turn signal switch RH	15 10 5 0 1 s
Clark than OPEN (Back door/Trunk lid open er actuator is not activated)  OV  OV  OFF  ON  Turn signal LH (Rear)  Output  Output  In signal switch ON  Output  Output  Output  Output  Output  In signal switch LH  Output  Output  Output  Output  In signal switch LH  Output  Output		Pook door/Trunk lid		Pack door/	(Back door/Trunk lid open-	12 V
Ground Rear fog lamp  Output Rear fog lamp  ON  12 V  Turn signal switch OFF  ON  Turn signal switch OFF  ON  Turn signal switch LH  ON  ON  ON  ON  OV  Turn signal switch LH  ON  ON  ON  OV  Turn signal switch LH  ON  ON  ON  ON  ON  OV  Turn signal switch LH  ON  ON  ON  ON  ON  ON  ON  ON  ON  O	Ground		Output		(Back door/Trunk lid opener actuator is not activat-	0 V
Turn signal switch OFF  OV    Compared to the	Ground	Rear fog lamp	Output	Rear fog lamp		
Ground Turn signal LH (Rear) Output Ignition switch ON Turn signal switch LH  Turn signal switch LH  Uggage room/Trunk room Ignition switch ON Turn signal switch LH  Uggage room/Trunk room Ignition switch ON Turn signal switch LH  Output Ignition switch ON Turn signal switch LH  ON Turn signal switch LH  ON ON OV						
25 (LG) Ground Turn signal LH (Rear) Output Ignition switch ON Turn signal switch LH  Turn signal switch LH  Turn signal switch LH  Solution switch ON  Turn signal switch LH  Output Ignition switch ON  Turn signal switch LH  Output Is  PKID0926E  6.5 V  OV  Trunk room Isom Isom Isom Isom Isom Isom Isom I					Tutti signal switch OFF	U V
30 Ground Luggage room/Trunk Output Trunk room ON 0 V	Ground	Turn signal LH (Rear)	Output		Turn signal switch LH	15 10 5 0 1 s
Ground Compleme Output Trunk room				Luggogo room/	ON	
	Ground		Output	Trunk room		

## < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
34		Luggage room/Trunk		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	room antenna (-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
35		Luggage room/Trunk		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground	room antenna (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	Rear bumper anten-	Output	When the back door/trunk lid door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Ground	na (–)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
39	39 (W) Ground	Rear bumper anten-	Output	When the back door/trunk lid door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Glound	na (+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(V)	Ground	E/R) control	Output	ignition switch	ON	0 V
				Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52	Ground	Starter relay control	Output	els)	When selector lever is not in P or N position	0 V
(SB)	Ground	Startor rolly cornect	o a a par	Ignition switch	When the clutch pedal is depressed	Battery voltage
				ON (M/T mod- els)	When the clutch pedal is not depressed	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door/Trunk Lid door request switch	Input	Back door/ Trunk lid door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
64	Ground	Intelligent Key warn-	Output	Intelligent Key	Sounding	0 V
(G)	2.300	ing buzzer		warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door/Trunk room lamp switch	Input	Back door/ Trunk room lamp switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
	1				7 -T - 7	-

## < ECU DIAGNOSIS INFORMATION >

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	nal No.	Description				Value	А
+	color)	Signal name	Input/ Output		Condition	(Approx.)	$\wedge$
					Pressed	0 V	В
67 (GR)	Ground	Back door/Trunk lid opener switch	Input	Back door/ Trunk lid open- er switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	C
						(V)	Е
					When Intelligent Key is in the passenger compartment	15 10 5 0	F
72	Ground	Room antenna 2 (–)	Output	Ignition switch		JMKIA0062GB	G
(L)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	15 10 5 0	Н
						1 s JMKIA0063GB	
							J
					When Intelligent Key is in the passenger compart-	(V) 15 10 5 0	PWC
73	Orang d	Room antenna 2 (+)	Outrot	Ignition switch	ment	1 S JMKIA0062GB	L
(P)	Ground	(Center console)	Output	OFF		(V)	M
					When Intelligent Key is not in the passenger compartment	15 10 5 0	Ν
						JMKIA0063GB	0

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## < ECU DIAGNOSIS INFORMATION >

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	nal No. color)	Description			O a malitia m	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
74		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB			
(SB)	Cround	tenna (–)	Cutput	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1   S   S   S   S   S   S   S   S   S
(BR)	Glound	tenna (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
76	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Giouria	(-)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

## < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s 1 s JMKIA0063GB	E
78* <sup>2</sup>	Cround	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(L)	Ground	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	PW
79* <sup>2</sup>	Cround	Room antenna 1 (+)	Outout	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	M
(R)	Ground	(Instrument panel)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	O P

### < ECU DIAGNOSIS INFORMATION >

ECU [	DIAGNO	<b>BC</b> SIS INFORMATIC	-	DDY CONT	ROL MODULE)	[COUPE]
Termir	nal No.	Description				
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(GR		Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 1 ms  JMKIA0065GB	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0  JPMIA0041GB 1.4 V
87 (BR)		Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	
					Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 6  Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
(V)		mput	switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0  JPMIA0037GB 1.3 V	
				Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	
89		Push-button ignition		Push-button ig-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	
91 (L)	Ground	CAN-H	Input/ Output			
					OFF	0 V
92 (LG)		Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					6.5 V	
					ON	12 V

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
( • )					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Oround	7100 Tolay oomiloi	Output	ignition switch	ACC or ON	12 V
96* <sup>3</sup> (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97* <sup>4</sup>	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Oround	tion No. 1	прис	Steering lock	UNLOCK status	12 V
98*4	Ground	Steering lock condi-	Input	out Steering lock	LOCK status	12 V
(P)	Oround	tion No. 2	прис	Steering lock	UNLOCK status	0 V
		Selector lever P posi-			P position	0 V
5		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
99* <sup>5</sup> (R)			Clutch pedal	OFF (Clutch pedal is depressed)	0 V	
			position switch	ON (Clutch pedal is not depressed)	Battery voltage	
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
102		Blower fan motor re-			OFF or ACC	0 V
(O)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver (front) power supply	Output	Ignition switch (	DFF	12 V
106* <sup>4</sup>	Ground	Steering lock unit	Outout	Ignition quitab	OFF or ACC	12 V
(W)	Ground	power supply	Output	Ignition switch	ON	0 V

# < ECU DIAGNOSIS INFORMATION >

[COUPE]

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	value (Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	1.3 V  (V) 15 10 5 0  JPMIA0036GB  1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

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## < ECU DIAGNOSIS INFORMATION >

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

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* <sup>4</sup> (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Innut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
114* <sup>6</sup>	Cround	Clutch interlock	lanut	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	Input	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)	Cround	Ctop lamp switch 2	прис	switch	ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	When the Intellig	gent Key is inserted into key	12 V
(R)	Ground	TOY SIOL SWILLII	прис	When the Intellig	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	2.34.14		put	-3	ON	Battery voltage

### < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
					ON (Door open)	0 V	
129* <sup>2</sup> (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms  JPMIA0012GB 1.1 V	
					ON	0 V	
130* <sup>7</sup> (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	
					Rear window defogger switch ON	0 V	
132 (Y)* <sup>1</sup> (V)* <sup>2</sup>	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch C	OFF or ACC	12 V	
					ON (Tail lamps OFF)	9.5 V	
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.  (V) 15 10 5 0	
			ĺ		1	JPMIA0159GB	

## < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage	
(GR)	Cround	2001 maioator lamp	Output	lamp	ON	0 V	
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V	
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V	
(V)		power supply		·9·····	ACC or ON	5.0 V	
				Ignition switch OFF (Remote key-	During waiting	(V) 15 10 5 1 ms 1 ms	
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	less entry re- ceiver communica- tion)	When operating either button on the Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB	
				Ignition switch ON (Tire pressure receiver com- munication)	Standby state	(V) 6 4 2 0 • • 0.2s	
					When receiving the signal from the transmitter	(V) 6 4 2 0 •• 0.2s	
		Selector lever P/N		Coloota	P or N position	12 V	
		position (A/T models)		Selector lever	Except P and N positions	0 V	
140* <sup>8</sup> (G)	Ground	Park/neutral position switch (Coupe M/T	Input	Ignition switch	Control lever in neutral position	Battery voltage	
		models with Synchro- Rev Match mode)		ON	Control lever in any position other than neutral	0 V	

### < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value	
+ (vvire	–	Signal name	Input/ Output		Condition	(Approx.)	
					ON	0 V	
141 (Y)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB	
					OFF	12 V	
					All switches OFF	0 V	
					Lighting switch 1ST		
				Combination	Lighting switch HI	(V)	
142	Ground	Combination switch	Output	Combination switch	Lighting switch 2ND	10	
(O) Ground OUTPUT 5		Output	(Wiper intermittent dial 4)	Turn signal switch RH	0		
					All quitabas OFF	10.7 V	
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front wiper switch HI (Wiper intermittent dial 4)	00	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3  • Wiper intermittent dial 6  • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB	
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch ON (Wiper intermittent dial 4)	AA	
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 5	(V) 15 10 5 0	
					Wiper intermittent dial 6     Wiper intermittent dial 6	JPMIA0033GB	
					All switches OFF	10.7 V 0 V	
					Front wiper switch INT		
				Combined	Front wiper switch LO	(V) 15	
145	Graves	Combination switch	Out-	Combination switch	Lighting switch AUTO	10	
(L)	Ground	ОИТРИТ 3	Output	(Wiper intermittent dial 4)	Rear fog lamp switch ON	2 ms JPMIA0034GB	

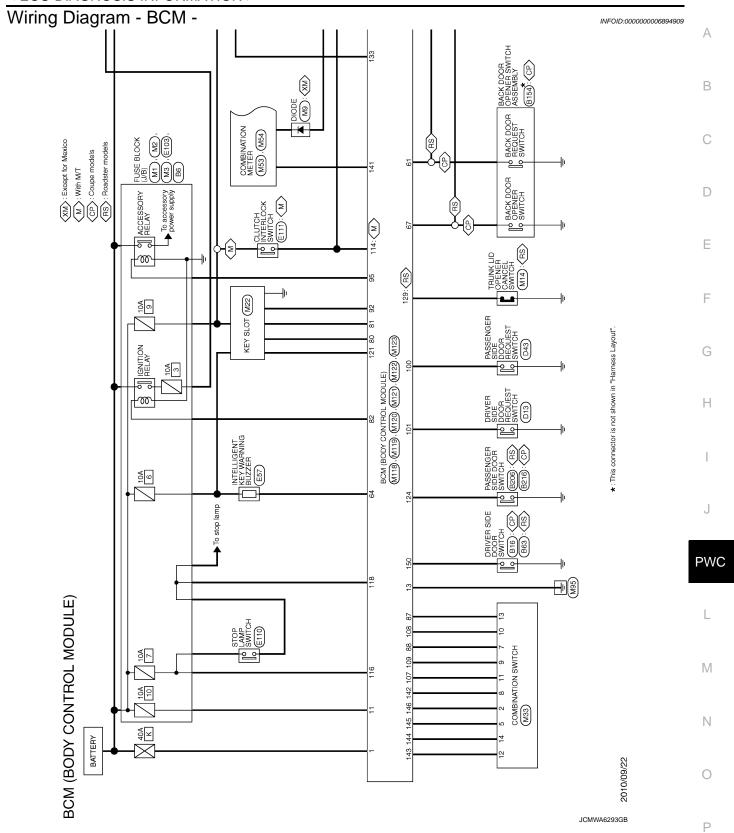
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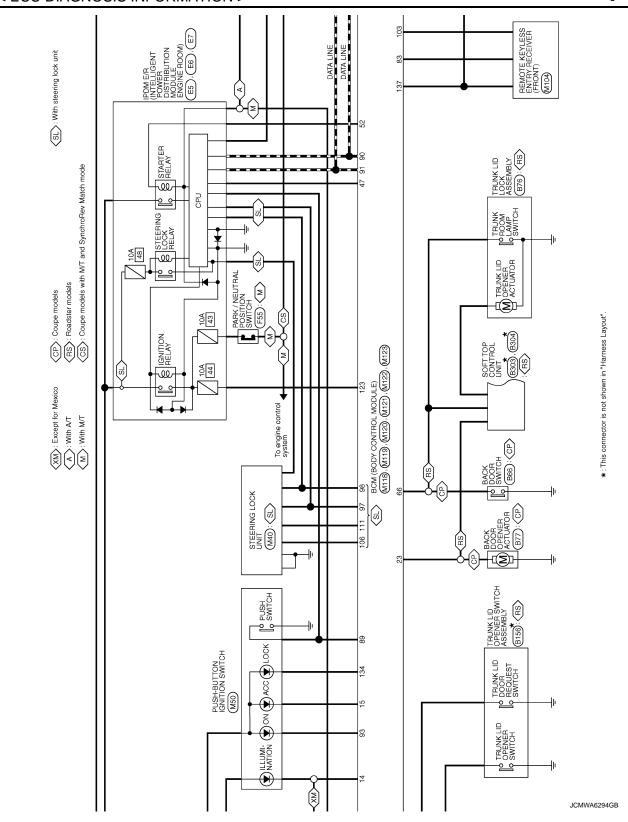
[COUPE]

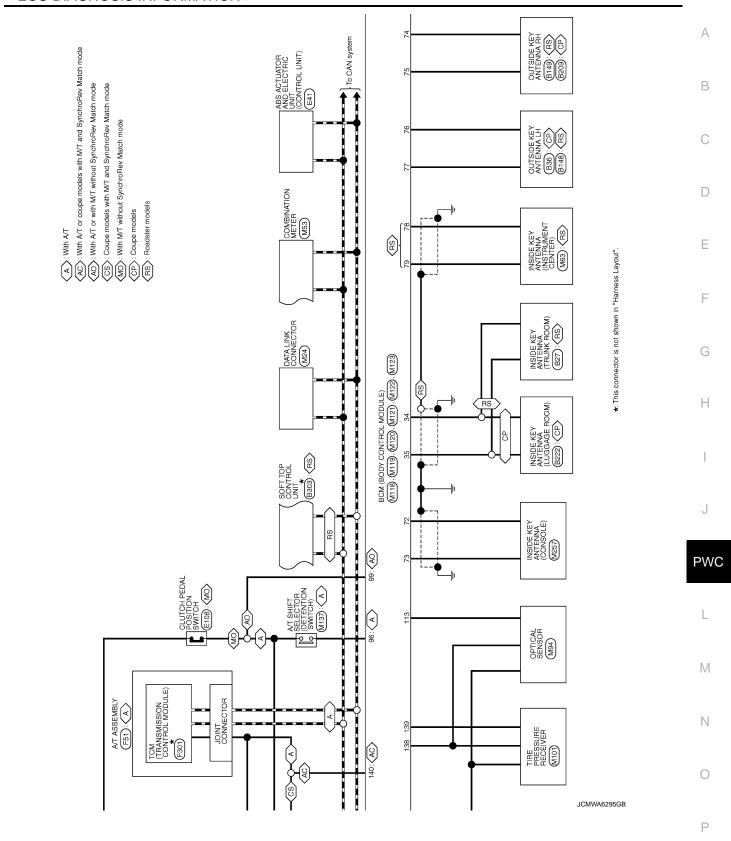
2011 370Z

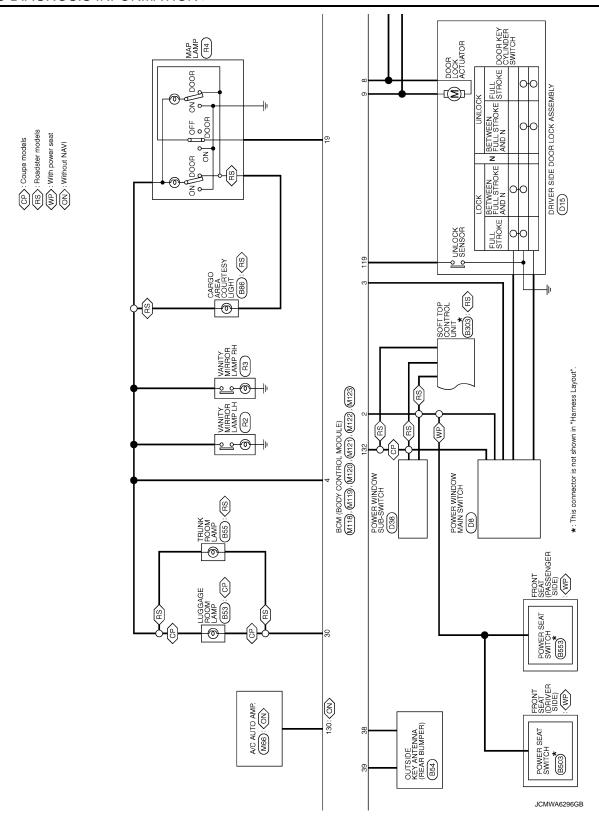
	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Lighting switch 2ND	
				Combination	Lighting switch PASS	(V)
146 (SB)	Ground Combination switch Output Switch (Wipe		switch	Turn signal switch LH	10 5 0 2 ms JPMIA0035GB	
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	Giodila	ger relay control	Output	defogger	Not activated	Battery voltage

- \*1: Coupe models
- \*2: Roadster models
- \*3: A/T models
- \*4: With steering lock unit
- \*5: Except M/T models with SynchroRev Match mode
- \*6: M/T models
- \*7: Without NAVI
- \*8: A/T models or coupe M/T models without SynchroRev Match mode

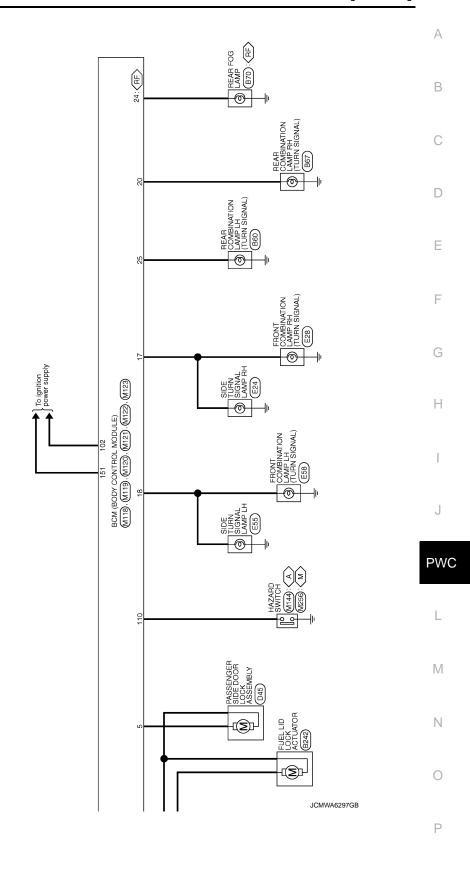








 $\langle A \rangle$ : With A/T  $\langle M \rangle$ : With M/T  $\langle RF \rangle$ : With rear fog lamp



BCM (BODY CONTROL MODULE)						
Connector No. M33	Connector No. M119	Connector No.	M121	81	W	NATS ANT AMP.
Connector Name   COMBINATION SWITCH	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	85	۲ :	IGN RELAY (F/B) CONT
Connector Time	Connected Time Motern Oc	Tactoring	THE COLORIE	2 2	5 8	KYLS ENI RECEIVER (FRONT) COMM
Т	П	add i abe	IN-15-IND	6 8	<u>خ</u> >	COMBI SW INPUT 3
		42		8 8	- 8	WO HOLIG
		¥.		8	۵	CAN
	4567 38910	_[		16	_	CAN-H
123 456	13 1/ 15 16 17	51 50 49	48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32	92	57	KEY SLOT ILL
7 8 9 10 11 12 13 14	0 14 10 10 17 10	17 70 69	88   87   86   83   84   83   85   81   80   88   87   88   82   83   85	93	>	ON IND
				92	0	ACC RELAY CONT
				96	>	A/T SHIFT SELECTOR POWER SUPPLY
Ja.	lal	lal	Signal Name [Specification]	97	_	S/L CONDITION 1
e e	of Wire	₽		88	۵ ۵	S/L CONDITION 2
P FR WASHER (=)	F R INTERIOR ROOM LAMP POWER SUPPLY	34	LUGGAGE ROOM ANI =	B 6	2 0	CLUICH PEDAL POS SW [with M/1]
	>	╀	BACK DOOR ANT-	100	<u> </u>	PASSENGER DOOR REGILEST SW
J 80	. C	╀	BACK DOOR ANT+	101	<b>&gt;</b>	DRIVER DOOR REQUEST SW
7 V INPUT 3	11 BR BAT (FUSE)	47 V	IGN RELAY (IPDM E/R) CONT	102	0	BLOWER FAN MOTOR RELAY CONT
8 O OUTPUT 5	13 B GND	52 SB	STARTER RELAY CONT	103	ΓC	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
Y	14 R PUSH-BUTTON IGNITION SW ILL POWER	61 W	BACK DOOR REQUEST SW [Coupe models]	106	W	S/L UNIT POWER SUPPLY
	>	$\dashv$	TRUNK LID REQUEST SW [Roadster models]	107	ย	COMBI SW INPUT 1
LG	W	$\dashv$	I-KEY WARN BUZZER (ENG ROOM)	108	œ	COMBI SW INPUT 4
	0	4	BACK DOOR SW [Coupe models]	109	>	COMBI SW INPUT 2
BR	19 P ROOM LAMP TIMER CONTROL	$\dashv$	TRUNK ROOM LAMP SW [Roadster models]	9	<u>a</u>	HAZARD SW
14 G OUTPUT 2		+	BACK DOOR OPENER SW [Coupe models]	Ξ	>-	S/L UNIT COMM
	Connector No Mar 20	67 GR	TRUNK LID OPENER SW [Roadster models]			
Connector No.	т					
т	Connector Name BCM (BODY CONTROL MODULE)	Connector No.	M122			
Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS12FW-CS		(Tilling Contract) Mod			
Connector Type M03FB-LC	1	Connector Name	BCM (BODY CONTROL MODULE)			
1	<b>建</b>	Connector Type	TH40FB-NH			
A A A	H.S.	€				
	7 77 77					
1 3	25 26 27 28 29 30 31	2				
		91 90 89	88 87 86 85 84 83 82 81 90 79 78 77 76 75 74 73 72 72 175 70 105 107 105 105 105 105 105 105 105 105 105 105			
	Terminal Color Similar Co: C					
lar	of Wire					
re	20 V TURN SIGNAL RH (REAR)	Terminal Color	Signal Name [Specification]			
s ;	] 	†				
≱ ;	Y TRUNK LID	+	ROOM ANT 2-			
3 Y POWER WINDOW POWER SUPPLY (IGN)	+	+	FOOD AND 24			
	25 LG IURN SIGNAL LH (REAR)	+	PASSENGER DOOR ANT			
	r	20 9Z	DRIVER DOOR ANT-			
		27	DRIVER DOOR ANT+			
		H	ROOM ANT 1-			
		79 R	ROOM ANT 1+			
		H	NATS ANT AMP			

JCMWA6298GB

[COUPE]

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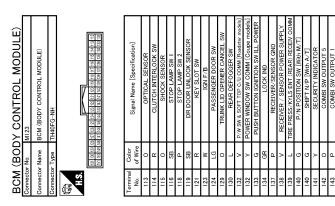
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JCMWA6299GB

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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

## < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  Starter control relay signal  Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	<ul> <li>500 ms after the following signal reception status becomes consistent</li> <li>Selector lever P position switch signal</li> <li>P range signal (CAN)</li> </ul>
B2602: SHIFT POSITION	Inhibit steering lock	<ul> <li>5 seconds after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Vehicle speed: 4 km/h (2.5 MPH) or more</li> </ul>
B2603: SHIFT POSI STATUS	Inhibit steering lock	<ul> <li>500 ms after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>
B2604: PNP SW	Inhibit steering lock	<ul> <li>500 ms after any of the following BCM recognition conditions are fulfilled</li> <li>Status 1</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: P and N position (battery voltage)</li> <li>P range signal or N range signal (CAN): ON</li> <li>Status 2</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> <li>P range signal and N range signal (CAN): OFF</li> </ul>
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Status 1  - Ignition switch is in the ON position  - Selector lever P/N position signal: Except P and N positions (0 V)  - Interlock/PNP switch signal (CAN): OFF  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: P or N position (battery voltage)  - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following CAN signal communication status becomes consistent</li> <li>Steering lock relay signal (Request signal)</li> <li>Steering lock relay signal (Condition signal)</li> </ul>

#### < ECU DIAGNOSIS INFORMATION >

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Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent  • Steering lock relay signal (Request signal)  • Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following signal communication status becomes consistent</li> <li>Starter motor relay control signal</li> <li>Starter relay status signal (CAN)</li> </ul>
B2609: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When the following steering lock conditions agree  BCM steering lock control status  Steering lock condition No. 1 signal status  Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When any of the following conditions are fulfilled  Steering lock unit status signal (CAN) is received normally  The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled  Status 1  Clutch switch signal (CAN from ECM): ON  Clutch interlock switch signal: OFF (0 V)  Status 2  Clutch switch signal (CAN from ECM): OFF  Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled  • Steering condition No. 1 signal: LOCK (0 V)  • Steering condition No. 2 signal: LOCK (Battery voltage)

## DTC Inspection Priority Chart

INFOID:0000000006894911

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

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM CIRCUIT     U1010: CONTROL UNIT (CAN)	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	

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< ECU DIAGNOSIS INFORMATION >

[COUPE]

Priority	DTC
4	B2013: ID DISCORD BCM-S/L     B2014: CHAIN OF S/L-BCM     B2555: SIONTION RELAY     B2555: STOP LAMP     B2555: STOP LAMP     B2556: PUSH-BTN IGN SW     B2556: VEHICLE SPEED     B2560: STARTER CONT RELAY     B2601: SHIFT POSITION     B2602: SHIFT POSITION     B2603: SHIFT POSITION     B2603: SHIFT POSI STATUS     B2604: PNP SW     B2605: PNP SW     B2606: S/L RELAY     B2607: S/L RELAY     B2607: S/L RELAY     B2608: STARTER RELAY     B2608: STARTER RELAY     B2608: STARTER RELAY     B2608: STEERING LOCK UNIT     B2600: STEERING LOCK UNIT     B2600: STEERING LOCK UNIT     B260D: STEERING LOCK UNIT     B260F: ENG STATE SIG LOST     B2612: S/L STATUS     B2614: ACC RELAY CIRC     B2615: BLOWER RELAY CIRC     B2616: IGN RELAY CIRC     B2616: IGN RELAY CIRC     B2617: STARTER RELAY CIRC     B2618: BCM     B2619: BCM     B2619: BCM     B2619: BCM     B2619: BCM     B2619: SCL STATUS     B2629: S/L STATUS     B2629: S/L STATUS     B2629: S/L STATUS     B2629: S/L STATUS     B2616: VEHICLE TYPE     B26269: S/L STATUS     B26269: S/L STATUS
5	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] RR     C1711: [NO DATA] RL     C1716: [PRESSDATA ERR] FL     C1717: [PRESSDATA ERR] FR     C1718: [PRESSDATA ERR] RR     C1719: [PRESSDATA ERR] RR     C1719: [PRESSDATA ERR] RL     C1734: CONTROL UNIT
6	B2621: INSIDE ANTENNA     B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA

DTC Index

#### NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-19. "COM-MON ITEM": CONSULT-III Function (BCM - COMMON ITEM)"</u>.

< ECU DIAGNOSIS INFORMATION >

[COUPE]

CONSULT display	Fail-safe	Freeze Frame Data  •Vehicle Speed  •Odo/Trip Meter  •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page	A E
No DTC is detected. further testing may be required.	_	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-42	-
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-43	=
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-44	
B2013: ID DISCORD BCM-S/L*	×	×	_	_	<u>SEC-52</u>	_
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-53	- E
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-44	_
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-47	_
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-48	F
B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-50</u>	_
B2195: ANTI SCANNING	×	_	_	_	SEC-51	_
B2553: IGNITION RELAY	_	×	_	_	PCS-52	_ (
B2555: STOP LAMP	_	×	_	_	SEC-56	=
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-58	-
B2557: VEHICLE SPEED	×	×	×	_	SEC-60	=
B2560: STARTER CONT RELAY	×	×	×	_	SEC-61	-
B2562: LOW VOLTAGE	_	×	_	_	BCS-45	-
B2601: SHIFT POSITION	×	×	×	_	SEC-62	-
B2602: SHIFT POSITION	×	×	×	_	SEC-65	-
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-68	-
B2604: PNP SW	×	×	×	_	SEC-71	
B2605: PNP SW	×	×	×	_	SEC-73	- P\
B2606: S/L RELAY*	×	×	×	_	SEC-75	-
B2607: S/L RELAY*	×	×	×	_	<u>SEC-76</u>	- I
B2608: STARTER RELAY	×	×	×	_	<u>SEC-78</u>	
B2609: S/L STATUS*	×	×	×	_	<u>SEC-80</u>	-
B260A: IGNITION RELAY	×	×	×	_	PCS-54	
B260B: STEERING LOCK UNIT*		×	×	_	<u>SEC-84</u>	-
B260C: STEERING LOCK UNIT*	_	×	×	_	SEC-85	-
B260D: STEERING LOCK UNIT*	_	×	×	_	SEC-86	_
B260F: ENG STATE SIG LOST	×	×	×	_	<u>SEC-87</u>	-
B2612: S/L STATUS*	×	×	×	_	SEC-92	
B2614: ACC RELAY CIRC		×	×	_	PCS-56	-
B2615: BLOWER RELAY CIRC		×	×	_	PCS-59	_
B2616: IGN RELAY CIRC		×	×	_	PCS-62	- F
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-96	=
B2618: BCM	×	×	×	_	PCS-65	-
B2619: BCM*	×	×	×	_	SEC-98	-
B261A: PUSH-BTN IGN SW		×	×	_	PCS-66	-

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CONSULT display	Fail-safe	Freeze Frame Data  •Vehicle Speed  •Odo/Trip Meter  •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page	
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-99</u>	
B2621: INSIDE ANTENNA	_	×	_	_	<u>DLK-278</u>	
B2622: INSIDE ANTENNA	_	×	_	_	• <u>DLK-83</u> (Coupe) • <u>DLK-280</u> (Road- ster)	
B2623: INSIDE ANTENNA	_	×	_	_	• <u>DLK-85</u> (Coupe) • <u>DLK-282</u> (Road- ster)	
B26E8: CLUTCH SW	×	×	×	_	<u>SEC-88</u>	
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	SEC-90	
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-91</u>	
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT 22	
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-23</u>	
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	WT 25	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>	
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	W/T 29	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-28</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>	
C1734: CONTROL UNIT	_	_	_	×	<u>WT-32</u>	

<sup>\*:</sup> For models without steering lock unit, this DTC is not applied.

#### **POWER WINDOW MAIN SWITCH**

< ECU DIAGNOSIS INFORMATION >

[COUPE]

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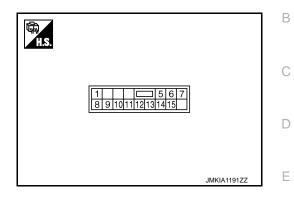
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# **POWER WINDOW MAIN SWITCH**

Reference Value

**TERMINAL LAYOUT** 

PHYSICAL VALUES



#### POWER WINDOW MAIN SWITCH

	nal No. e color)	Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	_	12	
5 (BG)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window adjusting operates	12	
6 (GR)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral → Locked)	5 → 0	
7 (V)	Ground	Door key cylinder switch UN- LOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0	
8 (L)	Ground	Driver side power window motor UP signal	Output	When power window main switch (Driver side) is op- erated UP	12	
9 (LG)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB	
10	Ground	Ignition switch power signal	Innut	IGN SW ON	12	
(Y)	Giodila	Ignition switch power signal	Input	IGN SW OFF	0	
11 (BR)	Ground	Driver side power window motor DOWN signal	Output	When power window main switch (Driver side) is op- erated DOWN	12	
12 (SB)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 10 ms  JPMIA0013GB	

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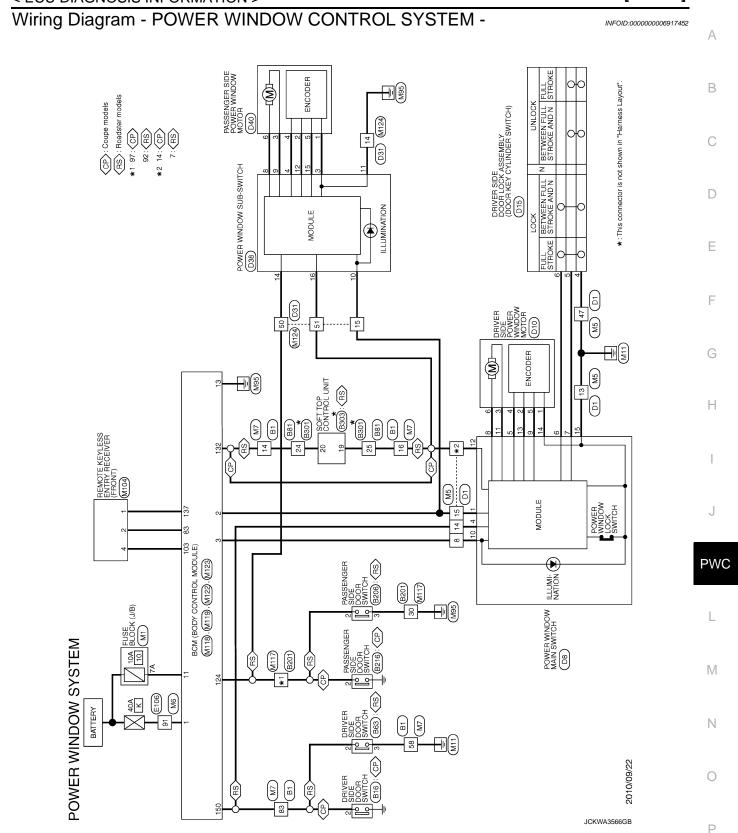
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### **POWER WINDOW MAIN SWITCH**

### < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
13 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms	
14 (G)	Ground	Encoder ground	_	_	0	
15 (B)	Ground	Ground	_	_	0	



Converse Na.   Bit   Convers	8 Y =			
Signal Name (Specification)   Color		B63 DRIVER S A03FW	B81   WIRE TO WIRE   TH40FW-NH	Color of Wire W BR BR
NWER WINDOW SYSTEM   46   46   46   46   46   46   46   4	- (Coupe models) - (Roadster models)		- (Coupe models) - (Roadster models) - (Roadster models) - (Coupe models) - (Coupe models) - (Coupe models) - (Coupe models) - (Roadster models)	
State   Color   Colo	SHIELD SH	SHELD	G G G C C C C G G G G G G G G G G G G G	
MWER WINDON   BI	<del></del>	<del></del>	88 88 88 89 4 4 9 9 4 4 9 9 9 9 9 9 9 9	
Connector Name   Conn	INDOW SYSTEM BI WIRE TO WIRE THEOFW-CSIG-TM4			
DOMMetrical Connect Co	/ER W or No.		N	- ¬ 8 8 ×
	POW Connect Connect H.S.	Terminal No. No. 1 1 2 2 2 2 3 9 9 9 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1	22 22 23 24 26 26 27 28 28 33 33 33 33 34 35	43 42 44

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# **POWER WINDOW MAIN SWITCH**

[COUPE]

POWER WINE	т	Connector Name WIR	Connector Type TH8	4	]	S		8	8 9		J	н	Terminal Color	1	2 BR	2 R	3 У	3 B	4 B	7 R	. ^	- C	+	+	+	+	+	30 B	-	41 \	42 G	L	╀	213		2 2 2	+	54 BR	┪	56 SHIELD	Н	d 22	╀	4	288	+	$\dashv$	61 GR	H	H	- >	+	es sB	99 90	+	B9										0	
POWER WINDOW SYSTEM	10	WIRE TO WIRE	TH80FW-CS16-TM4		ď		0 X	1 2 2 2 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3	11 S S S S S S S S S S S S S S S S S S	8 23 00 20 20 20 20 20 20 20 20 20 20 20 20			Signal Name [Specification]		<ul><li>[Coupe models]</li></ul>	<ul><li>[Roadster models]</li></ul>	- [Coupe models]	- [Roadster models]		- [Coupe models]	- [Bondator modelo]	[signoil layerson]					1	1	_	1	í	1	1	1	i		1	ı	=	_	- [Coupe models]	- [Roadster models]	E concerniones	- [Coupe models]	- [Koadster models]	i	1	-	1	1	1	1	I	T	ı	1										N	1
	69	72	73	73	74	74	75	75	9/	O8	3 3	· [	85	2	84	82	98	87	88	88	8 8	8 8	36	35	88	83	96	94	95	95	16	97	65	80	8 8	3	ŝ	901	100			Connector No.		Connect	ļ	Connect	q	序	<u> </u>			_	_	_	_	_										L	
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	1 1		- [Coupe models]	- [Roadster models]	- [Coupe models]	- [Roadster models]	- [Coupe models]	- [Roadster models]	1	1			1	1	I	_	_	-	-	-		= [Councempode]	- [Coupe models]	- Lypanster models	- [Coupe models]	- Koadster models]	- [Coupe models]	- [Roadster models]	<ul><li>[Coupe models]</li></ul>	- [Roadster models]	- [Coupe models]	- [Roadster models]	- [Roadster models]	- [Couna modele]	- [Doodotto modele]	Cionación modelo]	1 33	<ul> <li>Coupe models.</li> </ul>	<ul><li>- [Roadster models]</li></ul>			90	8	PASSENGER SIDE DOOR SWITCH		A03FW		Ē	$\overline{\Sigma}$	<u> </u>	<u>T</u>	2	٣	2												J	
	Terminal Co	T	3			Connector No.		in i	Connector Type		Œ	ŧ	Š							No.					Connector No.	Connector Name		Connector Type	ą	季	<u> </u>		-	2112			L	a	No. of	4	2	ď			+	+	15 E	16	H	┝	╀	+	$\dashv$	32	+	$\dashv$										Н	1
	Golor Signal Name [Specification]					. B216	HOTHING GOOD TRIS GROWING		pe A03FW	1		K	<u>K</u>	]	2	<u></u>				of Wire Signal Name [Specification]	-	2		ſ	B301	me WIRE TO WIRE	Т	ctor Type TH40MW-NH					1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39				Color Signal Name [Specification]	e.	LG -	- 1	1	_	1	-	BR -	BR –	M	- DG					ı a		SB										F	-
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	B303	SOFT TOP CONTROL UNIT	TH40FB-NH				(	16 15 14 13 12 11 10	36 35 34 33 32 31 30				Signal N		SENSOR POWER SUP	ROOF ST	ROOF ST	REV	POWER COND	TRUNK	ILLATS TOOL	DOOL STATE	MOOF SIA	YOUR OPEN	KOOF OPEN	HONK			LOCAL COMMUN	LOCAL COI	SENSOR POWER SUF		ROOF OPEN																																	С	
		ROL UNIT				ſ	7	9 8 7 6 5 4 3 2	29 28 27 26 20 24 23 22				Signal Name [Specification]		PLY (ROOF STRIKER SE	ROOF STRIKER SENSOR RH	TRIKER SENSOR LH	/ERSE SIGNAL	ITION (POWER WIN	TRUNK LID OPEN SIGNAL	IS SIGNAL (INDICA-	THE SIGNAL ALDE	POOF STATUS SIGNAL (AUDIO)	OLUGE SWITCH (C	KOUF OPEN / CLUSE SWITCH (OPEN	I KUNK KOOM LAMP SWITCH	CAN-H	CAN-L	LOCAL COMMUNICATION (POWER WINDOV	MMUNICATION (BC	SENSOR POWER SUPPLY (ROOF STRIKERSENSOR RH	GND	BOOF OPEN / GLOSE SWITCH (GND)																																	В	)
							[	-[	2						NSOR LH)	_	+		(MOD		(act	2 2	100	LOSE)	DEN)				VINDOW	(M)	NSOR R		(GND)																																	Α	7

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			Connector Type NS16FW-CS	<b>4</b>	Atto	3 4	8 9 10 11 12 14 15 16	21 11 01 0		L	Terminal Color Signal Name [Specification]	+	╀	H	- BR	10 W	Н	12 R -	$\dashv$	15 LG –	- Y 91		I	Connector No. D40	Connector Name PASSENGER SIDE POWER WINDOW MOTOR	Connector Type FHB06FGY-Z	1	E	\$\frac{1}{2}	1 2 3	4 5 6			Terminal Color			æ	SB 4	H	J 9		
	Terminal Color Signal Name [Specification] No. of Wire	1 BG -	2 G –	SB	m :	S CR	ł		Connector No. D31	Connector Name WIRE TO WIRE	Т	Connector Type TH4UFW-CST5	6	C.	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	[46]45]44]43]42]41]40]39]33]36 [26]25[27]27]27]27]27]27]27]27]27]27]27]27]27]2			L	la	of Wire	+	ני	a. (	12 LG - [Without DOSE system]	> _		Н	19 P –	7	44 L =	- >		F	H							
	Terminal Color Signal Name [Specification]	Н	+ +	+	- GR	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	F	V 01	BR	SB	+	T (	╁	ł		Connector No. D10	Connector Name DRIVER SIDE POWER WINDOW MOTOR	_	Connector Type FHB06FGY-Z	4	delica		(123)	4 5 6				No. of Wire Signal Name [Specimication]	- 6	+	3 BK	200	H			Connector No. D15	Connector Name DRIVER SIDE DOOR LOCK ASSEMBLY	Connector Type F06FGY-RS	1			(alc1+15171)
POWER WINDOW SYSTEM			Type TH40FW-CS15		-	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	46 45 44 43 42 41 40 39 38 37 36 26 25 24 23 22 21 20 18 18 17 16	10 10 10 10 10 10 10 10 10 10 10 10 10 1			Color Signal Name [Specification]	or wire	- >-	5	Bg	P - [With BOSE system]	V - [Without BOSE system]				Y - [Roadster models]			~ .		a 88		PT			- Bg	-	,		No. D8	Name DOWER WINDOW MAIN SWITCH	Т	Type INSTORM-US		1 U	150	
POWE	Connector No.	Connector Name	Connector Type	4	A STATE OF THE PARTY OF THE PAR	Š		_	•	L	Terminal	+	- 00	6	10	11	=	12	13	41	14	15	<u> </u>	53	ţ	48	49	20	51	52	23	55			Connector No.	Connector Name		Counector 1 ype	修	H.S.		

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POWER WINDOW SYSTEM

# [COUPE]

Signal Name [Specification] Signal Name [Specification] FUSE BLOCK (J/B) Connector Name Signal Name [Specification] WIRE TO WIRE nector Name

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Connector No. M6	82	-	1	24	œ	1	94	7	- [Roadster models]
WIDE TO WIDE	83	>	_	25	٦	_	98	GR	- [Coupe models]
WINE TO WINE	84	7 1	-	26	d	-	96	М	- [Roadster models]
TH80MW-CS16-TM4	82	BR	1	27	В	П	96	-	1
	86	٨	1	28	SHIELD	1	6	57	- [Coupe models]
0	87	9 /	1	31	W	1	46	٨	- [Roadster models]
	88	L	1	32	В	1	86	BG	- [Coupe models]
	16	*		33	>	1	86	4/Β	- [Roadster models]
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	97	╀		14	~	1	Connector No.		M104
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ı	66	┞	1	43	~	1	Connector Name		REMOTE KEYLESS ENTRY RECEIVER (FRONT)
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ı				45	0	1	4	1	
1				46	SHIELD	- [Coupe models]	F		
1	Conn	Connector No.	M7	46	5	- [Roadster models]	Š		
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1	Sono	Connector Name	WIRE TO WIRE	48	SHELD	1			1 2 4
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	<u> </u>	╀		8	>				
- DW+b A/T	12	ľ		5	. 10				
- [MGH A/ 1] - [MG+b M/T]	2 2	+		5 8	2				
- [With M/ I]	-[	+		70	5				
1	2	+	1	20 2	¥	1			
1	91	>	1	84	4	1			
ı	17	~	1	82	ΓG	ı			
-	18	Н	_	86	^	1			
1	×	SB	1	87	BR	1			
1	21	ت -	1	88	SB	ı			
1	22	æ	1	93	>-	1			
-	25	^		94	a's	- [Coune models]			

JCKWA3571GB

### **POWER WINDOW MAIN SWITCH**

< ECU DIAGNOSIS INFORMATION >

[COUPE]

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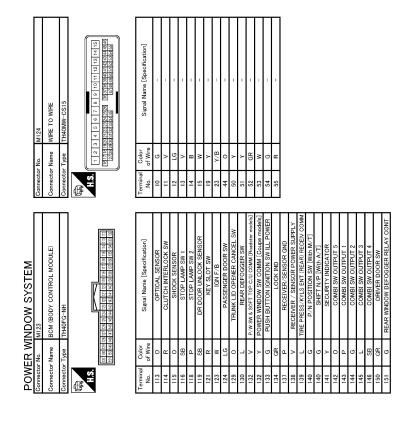
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<u>т[ŏ</u>	POWER W	POWER WINDOW SYSTEM Connector No.   M117	69	_	1	3 Y POWER WINDOW POWER SUPPLY ((GN)	80	GR NAT	NATS ANT AMP.
<u> </u>	Connector Name	WIRE TO WIRE	70	_	1		81	Н	NATS ANT AMP.
) (			72	В	1	ſ	82	R IGN REL	IGN RELAY (F/B) CONT
5	onnector Type	TH80MW-CS16-TM4	2	<u>.</u> ه	Í	Connector No. M119	833	+	SEIVER (FRONT) COMM
[4 <u>L</u>	1		74	B 1	ſ	Connector Name BCM (BODY CONTROL MODULE)	87	BR COME	BI SW INPUT 5
<u> </u>	*		6 6	n (	ī	F	88		COMBI SW INPUT 3
_	'n.	5 20 20 20 20 20 20 20 20 20 20 20 20 20	ę	<u>n</u> .	ı	Connector Type INSTORM-US	68	H 4	PUSH SW
		2 8 2 8 2 6 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8	2	1;	1	1	06 3		CAN-L
		85 86 87 88 87 87 87 87 87 87 87 87 87 87 87	<u>.</u> ε	<u></u> ;	Û		I 6		CAN-H
			82	\$ C			35	רפ אב	ON IND
			3 2	<u> </u>	1 1	6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 G	× 0	DEI AV CONT
E			\$ 8	2 0		11 12 13 14 15 16 17 18 19	68	$^{+}$	A/T SHIET SELECTOR DOWER SLIBBLY
_	No of Wire	Signal Name [Specification]	3 8				0.0		S/LECTON FONEN 30 FFE
_		[clopom cance] =	8				6 8	700	CONDITION 3
L	4 6	- [Doodstan madela]	8	, -		Torminal	8 8	O IIII	THE BEDALES SW MATH
1	3 0	[Nodustel models]	8 8		[-1-4	`	6	+	T D Date A /T
1	2 0	[conde models]	60	٠,		t	g 6,	+	More poor profession
_	n :	- [Koadster models]	80	-	- [Roadster models]	r	00 :	GR PASSENGER	LOUR REGUES I SW
	4 N	1	90	SHELD	1	5 :	101	+	DRIVER DOOR REQUEST SW
	_ 	- [Coupe models]	95	9	- [Coupe models]	ALL DOOR, FUEL LID LOCK OU	102	O BLOWER FAN	MOTOR RELAY CONT
_	7	- [Roadster models]	92	rc	- [Roadster models]		103	LG KYLS ENT RECEIV	VER (FRONT) PWR SUPPLY
	8 FC	1	93	œ	- [Coupe models]	11 BR BAT (FUSE)	106	W S/L UNIT	T POWER SUPPLY
L	٨ 6	1	93	>	- [Roadster models]	13 B GND	107	TG COME	COMBI SW INPUT 1
L	=	1	94	SHELD	- [Coupe models]	R PUSH-BUTTON IC	108	L	BI SW INPUT 4
L	ł	1	94		- [Roadster models]	: <b>&gt;</b>	109		BI SW INDIT 9
L	╀		9 9	9 8	[Constant Control	NOIS NOIT M	110		HAZABD SW
	$\downarrow$		000	9 9	[sianoii adnooi]	<b>=</b> 0	2 ;		HAZARD SW
	8 8		G G	2 9	Livoduster models]	0 0	=	9/5	ONL COMM
_	o :		ĥ	2 :	[Sonbe models]	1			
	+	'	6	- ;	- [Koadster models]				
	+	1	86	>	- [Coupe models]	1			
_	+	1	86	4/B	- [Koadster models]	Connector No. M122			
	4	1	66	Ű	1	Connector Name BCM (BODY CONTROL MODULE)			
	┪		9	BR	- [Coupe models]	П			
	52 G		100	>	- [Roadster models]	Connector Type TH40FB-NH			
	53 SHIELD					1			
_	54 LG	_				LIMIN			
		_	Connector No.		M118	[S			
	26 SHIELD	- Q		a male manage	CM (BODY CONTROL MOBILE)	/			
_	57 G	- [Coupe models]	i come		COM (BOD) CONTROL MODOLE)	91 90 89 88 88 7 96 85 84 83 82 81 80 79 78 77 76 75 74 73 72			
1_	L	- Roadster models	Connect	Connector Type N	M03FB-I C	07 105 105 104 103 102 104 100 99 98 97			
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1	+	[Noadster models]				L			
	29 8	1	HS			a u			
	+	1			13	No. of Wire			
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_	62 B	ı			7	a.			
_	× 83	1				74 SB PASSENGER DOOR ANT-			
L	94	1				HH			
L	ŀ	1	Termine			>			
1	╀		N ON	of Wire	Signal Name [Specification]				
	+	1	140.			9			
_1	۸ / 29	1	-	*	BAT (F/L)	$\dashv$			
	99 B	1	2	×	POWER WINDOW POWER SUPPLY (BAT)	79 R ROOM ANT 1+			
J	1		,			-			
JC									
_									

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### Fail-Safe

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### **FAIL-SAFE CONTROL**

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

### **POWER WINDOW MAIN SWITCH**

### < ECU DIAGNOSIS INFORMATION >

[COUPE]

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

In fail-safe control, the system changes to a non-initialized condition and the following functions do not oper-

- AUTO UP operation
- Anti-pinch function
- Automatic window adjusting function

When fail-safe control is activated, perform initializing operation to recover. If a malfunction is detected in power window switch, fail-safe control is activated again.

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**PWC-79** Revision: 2011 October 2011 370Z

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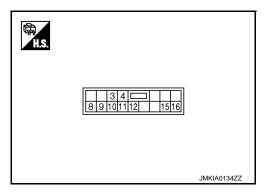
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[COUPE]

# **POWER WINDOW SUB-SWITCH**

Reference Value

**TERMINAL LAYOUT** 



### PHYSICAL VALUES

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

# **POWER WINDOW SUB-SWITCH**

# < ECU DIAGNOSIS INFORMATION >

[COUPE]

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

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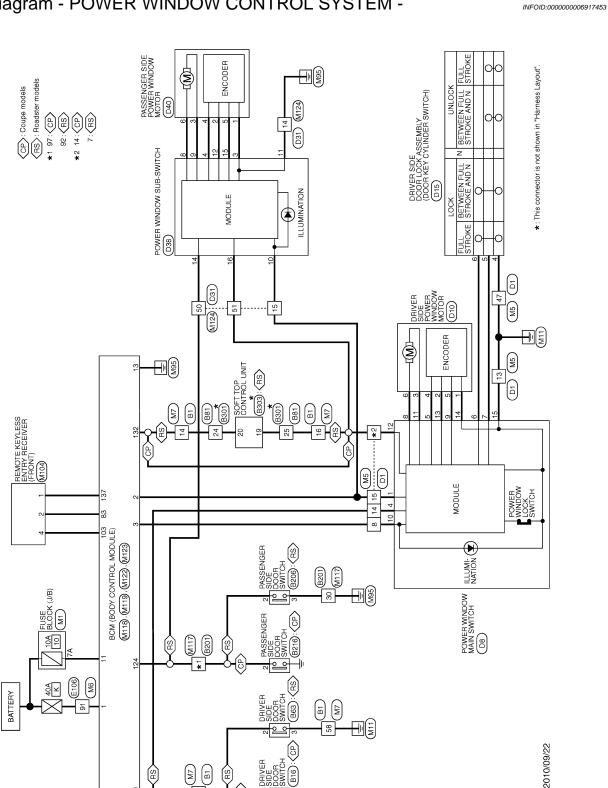
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POWER WINDOW SYSTEM

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -



# **POWER WINDOW SUB-SWITCH**

< ECU DIAGNOSIS INFORMATION >

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	А
	В
> 8 8 8 8 > 0 9 > 1 0 8	С
0 6 7 1 1 1 1 2 2 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	D
freation]	Е
Signal Name [Specification]	F
	G
Connector No.  Connector Name  Connector Name	Н
models] models] models] models] models] rmodels] rmodels]	I
- [Coupe models] - [Roadster models] - [Coupe models]	J
B B B C C C C B B B B C C B B B C C B B C C B B B C C B C C B B B C C B C B B C C B C C B B B C C B C C B B B C C B C C B C C B B B C C B C C B C C B C C B C C B C C B C C B C C C B B B C C C B C C C C B B B C C C C C B B B C C C C C C B B B C C C C C C C C C B B B C	PW
46 46 46 46 46 47 47 47 47 47 47 48 48 68 68 68 68 68 68 69 69 69 69 69 69 69 69 69 69 69 69 69	
	L
WIRE CSIG-TM4  CSIG-TM4  Signal Name [Specification]  Signal Name [Specification]	M
Connector No.   Bit   Connector No.   Connector No.   Bit   Connector Type   TH80FW-CS16-TM4	
WINDOW S  WHE TO WHE  Signal	N
Commerciar Type   Commerciar	0
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Revision: 2011 October PWC-83 2011 370Z

POWER	POWER WINDOW SYSTEM	G	-	1	Toursing	2010		Conseque No	606a	
3	т	8 6	] (		No.	of Wire	Signal Name [Specification]		т	
Connector Name	ame WIRE TO WIRE	72	5 m	1 1	NO.	or wire	1	Connector Name	e SOFT TOP CONTROL UNIT	
Connector Type	rpe TH80FW-CS16-TM4	73	_	- [Coupe models]	3	В	I	Connector Type	TH40FB-NH	
		73	<u> </u>	- [Roadster models]				Œ		
V E	112 (6) (2) (7)	74		- [Roadster models]	Connector No.	Г	B216	V.		
9	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75	W	- [Coupe models]	2	Т	HOTING GOOD SIDE			E
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75	В	- [Roadster models]	OOM		Asservated Side Door Swillon	20 19 18	17 16 15 14 13 12 11 10 9 8 7 6	5 4 3 2 1
		9/	В	_	Connector Type	П	A03FW	RC Int	37 30 30 34 33 35 31 30 23 20 27 20	62 42
		80	۸	_	ą					
-		+	SB	Ī	B		K	- 1	-	
Terminal	Color Signal Name [Specification]	85	5	-	H.S.		K	la	or Signal Name [Specification]	ification]
<u> </u>	9	83	ا ي	_				No. of Wire	-	
+		84	3	=			2	+	SENSOR	STRIKER SENSOR LH)
+	R - [Roadster models]	+	8	_				7	4	NSOR RH
+		†	SHIELD	1			]	+	ROO	NSOK LH
+	B - [Roadster models]	+	0	_		ľ		+	+	NAL
+		+	£ :	-	Terminal	Color	Signal Name [Specification]	+	POWE	WER WINDOW)
+		7	<u> </u>	_	No.	ot Wire		0	+	SIGNAL
+	Y - [Koadster models]	†	SHELD		2	2	1	+	ř	(INDICATOR)
+		+	20 0	- [Coupe models]				7 .	$^{+}$	AL (AUDIO)
+		+	2 :	- [Koadster models]		I		+	+	WICH (CLOSE)
+	2	+	>	- [Coupe models]	Connector No.		B301	7	ROO	WITCH (OPEN)
+		7	×	<ul> <li>[Roadster models]</li> </ul>	Connector Name		WIRE TO WIRE	+	TRUNK RO	P SWITCH
+		7	SHIELD	- [Coupe models]		Т		7		
+		+	o j	- [Roadster models]	Connector Type	٦	TH40MW-NH	+	+	
+		+	E.	- [Coupe models]	4			19 FG	LOCAL	POWER WINDOW)
+		+	ر ا	- [Roadster models]	手			+	7	TION (BCM)
+	- 5	+	5	- [Coupe models]	H S			+	SENSOR POWER SUPPL	STRIKERSENSOR RH)
+		+	5	- [Roadster models]		8	00 01 01 71 31 31 11 01 01 11 01 0 0 7 3 3	7	4	
+		97	_	- [Roadster models]		21 22 23 24 2	26 27 28 29 30 31 32 33 34 35 36 37	35 P	ROOF OPEN / CLOSE SWITCH (GND)	SWITCH (GND)
+		+	*	- [Coupe models]						
4		+	4/Β	- [Roadster models]						
Š	O	+	5	-						
4	BR -	+	BR	- [Coupe models]	Terminal	Color	Signal Name [Specification]			
4	_	100	<b>X</b>	<ul><li>[Roadster models]</li></ul>	No.	of Wire				
Ś	SHIELD -				4	ΓC	1			
$\dashv$			ı		2	-	I			
_	P - [Roadster models]	Connector No.	B206	16	9	۵	_			
-	R - [Coupe models]	Connector Mame		DASSENGED SIDE DOOD SWITCH	8	0	_			
28	L - [Roadster models]	O COLLEGE IN		SOEINGEN SIDE DOOR SMITCH	6	٨	=			
$\vdash$	- '	Connector Type	Г	A03FW	14	æ	П			
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$\vdash$	GR -	F			16	м	1			
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63	- *				24	>	T			
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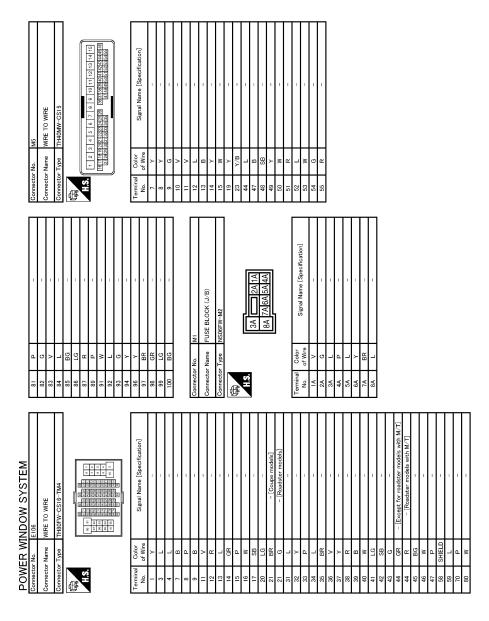
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# **POWER WINDOW SUB-SWITCH**

< ECU DIAGNOSIS INFORMATION >

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Motron [16]		А
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Connector No.		D
feation]  Salation  Feation  Feation  BOSE system  BOSE system  BOSE system		Е
Color   Signal Name [Specification]   Color   Color		F
		G
Terminal   Color   No.   O' Wire   No.   O'		Н
ecification]  ecification]  ecification]		I
Signal Name [Specification]		J
		PW
Colorector Name   Colorector		
		L
V SYSTEM   WIRE		M
WIRE TO WIRE   TH40FW-CS15   TH40FW-CS16		N
		N
Connector Name   Conn		0
	JCKWA3569GB	Р



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# **POWER WINDOW SUB-SWITCH**

< ECU DIAGNOSIS INFORMATION >

[COUPE]

ode(s) ode(s) ode(s) ode(s) ode(s)  // // // // // // // // // // // // //	А
- [Roadster models]   - [Coupe	В
	С
94   C   95   95   95   95   95   95   95	D
ordels]	Е
	F
SHELD   SHEL	G
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Н
oofficetton)	I
MAT  WIRE TO WIRE  TH80MW-CSI6-TM4  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	J
Name	PW
100   100	
	L
WIRE  CSIG-TMA  CSIG-TMA  Signal Name (Specification)  Signal Name (Specification)	M
Color   Colo	N
H	
	0
TC TC	CKWA3571GB

Connector No. M117	or No.	M117	69	1	-	3	POWER WINDOW POWER SUPPLY (IGN)	80	GR	NATS ANT AMP.
Connect	Coppertor Name	WIRE TO WIRE	70	Г	_			81	W	NATS ANT AMP.
	name of	WINCE TO WINCE	72	В	_			82	ч	IGN RELAY (F/B) CONT
Connec	Connector Type	TH80MW-CS16-TM4	73	В	=	Connector No. MI	M119	83	GR	KYLS ENT RECEIVER (FRONT) COMM
4			74	В	1	Connector Name BC	BCM (BODY CONTROL MODULE)	87	æ	COMBI SW INPUT 5
#			75	<u>-</u>		Т		88	>	COMBI SW INPUT 3
S		5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9/	a .	-	Connector Type NS	NS16FW-CS	68	H H	PUSH SW
		2 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8	-		4		06	۵	CAN-L
		2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	≅	>		45		16	_	CAN-H
		(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	82	≥	1	S		95	ت ا	KEY SLOT ILL
			8	B 1	-	4	6 7 🔲 8 9	93	>	ON IND
	L		84	ř	-	<u> </u>	12 13 14 15 16 17 18 19	92	٥	ACC RELAY CONT
Terminal		Signal Name [Specification]	82	9		1	1	96	>	A/T SHIFT SELECTOR POWER SUPPLY
o No	ot Wire		98	SHELD	-			97	_	S/L CONDITION 1
2	æ	- [Coupe models]	87	g				86	۵	S/L CONDITION 2
2	Ľ	- [Roadster models]	88	_	_	a	Signal Name [Specification]	66	۳	CLUTCH PEDAL POS SW [With M/T]
3	0	- [Coupe models]	88	۵	- [Coupe models]	No. of Wire	The second of th	66	œ	SHIFT P [With A/T]
3	В	- [Roadster models]	88	>	- [Roadster models]	4 R	INTERIOR ROOM LAMP POWER SUPPLY	100	GR	PASSENGER DOOR REQUEST SW
4	W	-	90	SHIELD		5 G	SUPER LOCK OUTPUT	101	Υ	DRIVER DOOR REQUEST SW
7	ΓC	- [Coupe models]	95	9	- [Coupe models]	^ 8	ALL DOOR, FUEL LID LOCK OUTPUT	102	0	BLOWER FAN MOTOR RELAY CONT
_	>	- [Roadster models]	95	2	- [Roadster models]	D 6	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	103	2	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
80	5	1	93	œ	- [Coupe models]	== BR	BAT (FUSE)	106	×	S/L UNIT POWER SUPPLY
6	>	1	93	>	- [Roadster models]	13 B	GND	107	ΓG	COMBI SW INPUT 1
=	~	1	94	SHIELD		α	PUSH-BUTTON IGNITION SWILL POWER	108	۳	COMBI SW INPUT 4
20	g		94	O		<b>*</b>	ACC IND	109	>	COMBI SW INPUT 2
21	œ		92	SB	- [Coupe models]	W 71	TURN SIGNAL RH (FRONT, SIDE)	110	۵	HAZARD SW
9	~	1	95	_	- [Boadster models]	ł	THEN SIGNAL I H (FRONT SIDE)	11	>	MMOS TINIT I/S
8 8	0	1	97	2 2	- [Coupe models]	╀	ROOM LAMP TIMER CONTROL			()
41	>	1	97	>	- [Roadster models]					
45	ŋ	1	86	>	- [Coupe models]					
43	_	1	86	Y/B	- [Roadster models]	Connector No. M1	M122			
44	SB	1	66	ŋ	1	П	(Tilliages logiting) (Vacca) sec			
19	œ	1	100	BR	- [Coupe models]	Connector Name	BOM (BOD) CONTROL MODULE)			
25	9	-	100	Υ	- [Roadster models]	Connector Type TH	TH40FB-NH			
53	SHIELD					ą				
94	FC	-				唐				
92	^	-	Connector No.	or No.	M118	S.H				
99	SHIELD		Connect	Connector Name	BCM (BODY CONTROL MODILIE)	. 🖺	/			
22	9	- [Coupe models]			, and a second a second and a second a second and a second a second and a second and a second a second a second a second a second and a second and a second and a second a second a second	111111111111111111111111111111111111111	7 115 105 104 105 105 105 105 105 105 105 105 105 105			
22	Д	- [Roadster models]	Connector Type	or Type	M03FB-LC	Total Control of the	The last less last last last last last last last la			
28	ď	- [Coupe models]	ą							
28	٦	- [Roadster models]	手							
26	В	-	HS			la L	Signal Name [Specification]			
09	W	-		_	۰ ۲	No. of Wire	orginal warrie Copecinicacion			
91	GR	-				72 L	ROOM ANT 2-			
62	В	1			7	73 P	ROOM ANT 2+			
63	>	1			]	74 SB	PASSENGER DOOR ANT-			
64	٦	-				75 BR	PASSENGER DOOR ANT+			
92	g	1	Terminal	Color	[	۸ 92	DRIVER DOOR ANT-			
99	0	1	No.	of Wire		77 LG	DRIVER DOOR ANT+			
67	>	-	-	*	BAT (F/L)	78 L	ROOM ANT 1-			
89	۵	-	2	W	POWER WINDOW POWER SUPPLY (BAT)	79 R	ROOM ANT 1+			

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INDOW SYST  MIZ3  BCM (BODY CONTROL  THAGFG-NH  THAGFG-NH  THAGFG-NH  Signal Name [ Si		Connector Name   Conn	POWER WINDOW SYSTEM	M123 Connector No. M124	BCM (BODY CONTROL MODULE)  Connector Name WIRE	TH40FG-NH Connector Type TH40MW-CS15	28 27 (20   20   20   20   20   20   20   20		Signal Name [Specification] Terminal Color Signal Name [Specification]	OPTICAL SENSOR 10 G -	CLUTCH INTERLOCK SW	SHOCK SENSOR 12 LG -	STOP LAMP SW 1 13 V –	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR 15 W -	KEY SLOT SW	IGN F/B 23 Y/B -	PASSENGER DOOR SW 44 0 -	TRUNK LID OPENER CANCEL SW 50 Y -	REAR DEFOGGER SW 51 Y -		POWER WINDOW SW COMM [Coupe models] 53 W -	PUSH BUTTON IGNITION SW ILL POWER 54 G -	LOCK IND 55 R -	RECEIVER/SENSOR GND	RECEIVER / SENSOR POWER SUPPLY	TIRE PRESS/KYLS ENT (REAR) RECEIV COMM	P/N POSITION SW [With M/T]	SHIFT N/P [With A/T]	SECURITY INDICATOR	COMBI SW OUTPUT 5	I IOM IOM O	COMBLEW OUTPULZ	COMBI SW OUTPUT 4	
--	--	--	---------------------	-------------------------	--	--------------------------------------	--	--	--	-----------------------	---------------------	----------------------	-----------------------	----------------	------------------------------	-------------	------------------	--------------------------	-----------------------------------	-------------------------	--	--	--	-----------------	---------------------	--------------------------------	--	----------------------------	----------------------	--------------------	-------------------	-------------	-----------------	-------------------	--

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### **FAIL-SAFE CONTROL**

Fail-Safe

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

### < ECU DIAGNOSIS INFORMATION >

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

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

- Automatic window adjusting function
- Anti-pinch function
- Automatic window adjusting function

When fail-safe control is activated, perform initializing operation to recover. If a malfunction is detected in power window switch, fail-safe control is activated again.

# POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

< SYMPTOM DIAGNOSIS > [COUPE]

# SYMPTOM DIAGNOSIS

# POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

Description

All power windows do not operate via power window main switch and power window sub-switch.

Diagnosis Procedure

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-16, "BCM: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

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### DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[COUPE]

### DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

**Description** 

Driver side power window does not operate using power window main switch.

### **Diagnosis Procedure**

INFOID:0000000006353894

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

Check power window main switch power supply and ground circuit.

Refer to PWC-16, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2. CHECK DRIVER SIDE POWER WINDOW MOTOR

Check driver side power window motor.

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

### Is the measurement value within the specification?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

### PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE [COUPE] < SYMPTOM DIAGNOSIS > PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE Α WHEN POWER WINDOW MAIN SWITCH IS OPERATED WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Description INFOID:0000000006353895 В Passenger side power window operates using power window sub-switch but does not operate using power window main switch. WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure INFOID:0000000006353896 ${f 1}$ .CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT D Check power window sub-switch power supply and ground circuit. Refer to PWC-17, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure". Е Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. F 2.CHECK POWER WINDOW SUB-SWITCH SERIAL LINK CIRCUIT Check power window sub-switch serial link circuit. Refer to PWC-29, "POWER WINDOW SUB-SWITCH: Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. Н 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. WHEN POWER WINDOW SUB-SWITCH IS OPERATED WHEN POWER WINDOW SUB-SWITCH IS OPERATED: Description INFOID:0000000006353897 **PWC** Passenger side power window operates using power window main switch but not using power window subswitch. WHEN POWER WINDOW SUB-SWITCH IS OPERATED: Diagnosis Procedure INFOID:0000000006353898 1.CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT M Check power window sub-switch power supply and ground circuit. Refer to PWC-17, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure". N 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? Р YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". >> GO TO 1. WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-**SWITCH**

Revision: 2011 October **PWC-93** 2011 370Z

WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-

### PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > [COUPE]

**SWITCH: Description** 

INFOID:0000000006353899

Passenger side power window operates using power window main switch and power window sub-switch.

WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-

SWITCH: Diagnosis Procedure

INFOID:0000000006353900

# 1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-20, "PASSENGER SIDE: Component Function Check".

Is the measurement value within the specification?

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-43, "Intermittent Incident".

NO >> GO TO 1.

# **ANTI-PINCH FUNCTION DOES NOT OPERATE**

ANTI-PINCH FUNCTION DOES NOT OPERATE  < SYMPTOM DIAGNOSIS > [COUPE	]
ANTI-PINCH FUNCTION DOES NOT OPERATE DRIVER SIDE	А
DRIVER SIDE: Description	901 B
Anti-pinch function does not operate when power window up operated.  DRIVER SIDE: Diagnosis Procedure	
1. CHECK AUTO UP OPERATION	
Check AUTO UP operation.  Is the inspection result normal?  YES >> GO TO 2.	D
NO >> Refer to <u>PWC-96</u> , " <u>DRIVER SIDE</u> : <u>Diagnosis Procedure</u> ".  2.CONFIRM THE OPERATION	E _
Confirm the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43</u> , " <u>Intermittent Incident</u> ".	F
NO >> GO TO 1. PASSENGER SIDE	G
PASSENGER SIDE: Description	903 H
Anit-pinch function does not operate when power window up operated.	
PASSENGER SIDE : Diagnosis Procedure  1. CHECK AUTO UP OPERATION	004
Check AUTO UP operation.  Is the inspection result normal?  YES >> GO TO 2.	_ J
NO >> Refer to PWC-96, "PASSENGER SIDE : Diagnosis Procedure".  2.CONFIRM THE OPERATION	PWC
Confirm the operation again.  Is the result normal?  YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	L
NO >> GO TO 1.	M
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### AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY

< SYMPTOM DIAGNOSIS > [COUPE]

# AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

**DRIVER SIDE** 

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006353905

### 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

# 2. CHECK ENCODER (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-23, "DRIVER SIDE: Component Function Check".

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

### PASSENGER SIDE

# PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006353906

# 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-7</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

# 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-25, "PASSENGER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

### POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-**MALLY**

[COUPE] < SYMPTOM DIAGNOSIS >

# POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Description INFOID:0000000006353907 В

Retained power function does not operate after ignition switch turns OFF.

**Diagnosis Procedure** 

# 1. CHECK DOOR SWITCH

Check door switch. Refer to DLK-87, "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-43, "Intermittent Incident".

NO >> GO TO 1.

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INFOID:0000000006353908

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**PWC-97** Revision: 2011 October 2011 370Z

# DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

[COUPE]

# DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WIN-DOWS

Description

Power window does not operate when locking or unlocking a door using door key cylinder.

## Diagnosis Procedure

INFOID:0000000006353910

# 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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

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

Refer to DLK-98, "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-43, "Intermittent Incident".

NO >> GO TO 1.

### **KEYLESS POWER WINDOW DOWN DOES NOT OPERATE**

[COUPE] < SYMPTOM DIAGNOSIS > KEYLESS POWER WINDOW DOWN DOES NOT OPERATE Α Description INFOID:0000000006353911 Power window down does not operate when pressing unlock button on Intelligent Key. В Diagnosis Procedure INFOID:0000000006353912 CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? D YES >> GO TO 2. NO >> Refer to DLK-131, "Diagnosis Procedure". 2 CHECK POWER WINDOW OPERATION Е Check power window operation. Does power window operate up/down using power window main switch? F YES >> GO TO 3. NO >> Refer to DLK-131, "Diagnosis Procedure".  ${f 3}.$ CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-41, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? Н YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT". 4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. **PWC** 

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## POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[COUPE]

# POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000006353913

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-106, "Removal and Installation".

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE [COUPE] < SYMPTOM DIAGNOSIS > POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE Α **DRIVER SIDE** DRIVER SIDE: Diagnosis Procedure INFOID:0000000006353914 В 1. REPLACE POWER WINDOW MAIN SWITCH Replace power window main switch. C >> Refer to PWC-106, "Removal and Installation". PASSENGER SIDE D PASSENGER SIDE: Diagnosis Procedure INFOID:0000000006353915 Е 1. REPLACE POWER WINDOW SUB-SWITCH Replace power window sub-switch. F >> Refer to PWC-106, "Removal and Installation". Н J **PWC** M Ν

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### **AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[COUPE]

# AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000006353916

## 1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-96, "DRIVER SIDE : Diagnosis Procedure".

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check power window serial link (power window main switch)

Check power window serial link (power window main switch)

Refer to PWC-28, "POWER WINDOW MAIN SWITCH: Component Function Check"

Is the result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

# PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006353917

# 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-7</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

# 2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK POWER WINDOW SERIAL LINK (POWER WINDOW SUB-SWITCH)

Check power window serial link (power window sub-switch)

Refer to PWC-29, "POWER WINDOW SUB-SWITCH: Component Function Check"

Is the result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

## **AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS > [COUPE]

# 4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

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### **PRECAUTIONS**

< PRECAUTION > [COUPE]

# **PRECAUTION**

# PRECAUTIONS 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:

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.

INFOID:0000000006353919

INFOID:0000000006353920

#### FOR USA AND CANADA: Service

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more.
  - For approximately 3 minutes after the battery negative terminal is removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until 3 minutes or more elapse.
- Diagnosis sensor unit must always be installed with their arrow marks "←" pointing towards the front of the vehicle for normal operation. Also check diagnosis sensor unit for cracks, deformities, or rust before installation and replace if necessary.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Do not turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Perform self-diagnosis to check entire SRS for normal function after replacing any components.
- After air bag inflates, the front instrument panel assembly must be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

# FOR USA AND CANADA: Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the

### **PRECAUTIONS**

< PRECAUTION > [COUPE]

window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

#### 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 MEXICO: Service

Revision: 2011 October

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more.
  - For approximately 3 minutes after the battery negative terminal is removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until 3 minutes or more elapse.
- Diagnosis sensor unit must always be installed with their arrow marks "

   —" pointing towards the front of the
  vehicle for normal operation. Also check diagnosis sensor unit for cracks, deformities, or rust before installation and replace if necessary.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Do not turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Perform self-diagnosis to check entire SRS for normal function after replacing any components.
- After air bag inflates, the front instrument panel assembly must be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

### FOR MEXICO: Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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[COUPE]

# REMOVAL AND INSTALLATION

# POWER WINDOW MAIN SWITCH

### Removal and Installation

#### INFOID:0000000006353924

#### **REMOVAL**

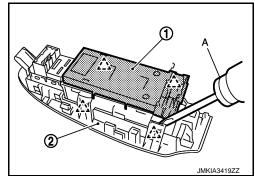
- 1. Remove the power window main switch finisher (2). Refer to <a href="INT-15">INT-15</a>, "Removal and Installation".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A) etc.



### **CAUTION:**

Never fold the pawl of power window main switch finisher.

The same procedure is also performed for power window subswitch.



### **INSTALLATION**

Install in the reverse order of removal.

#### NOTE:

Power window main switch is replaced or is removed it is necessary to do the initialization procedure. Refer to <a href="PWC-8">PWC-8</a>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

### DIAGNOSIS AND REPAIR WORK FLOW

[ROADSTER] < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW WorkFlow INFOID:0000000006353925 **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. D >> GO TO 2. 2. CHECK FOR DTC Е Check DTC for BCM. Perform the following procedure if DTC is displayed. Record DTC and freeze frame data (Print them out with CONSULT-III.) F Erase DTC. Study the relationship between the cause detected by DTC and the symptom described by the customer. 3. Check related service bulletins for information. Is any symptom described and any DTC detected? Symptom is described, DTC is displayed>>PWC-165, "DTC Index". Symptom is described, DTC is not displayed>>GO TO 3. Н  ${f 3}$  . 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 4. f 4.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. **PWC** >> GO TO 5.  ${f 5}.$ IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. M >> GO TO 6. 6 . REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. >> GO TO 7. 7. 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. Р Are the malfunctions corrected? YES >> INSPECTION END NO >> GO TO 4.

### INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [ROADSTER]

## INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

Initial setting is necessary when battery terminal is removed.

#### **CAUTION:**

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

- Auto-up operation
- Anti-pinch function
- Automatic window adjusting function
- Key cylinder switch power window function
- Power window UP operation while door is open

# ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

#### INITIALIZATION PROCEDURE

- Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or more.
- 2. Close door (door switch OFF).
- 3. Turn ignition switch ON.
- 4. Close roof.
- 5. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open.)
- 6. Pull up and hold power window switch. Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 7. Inspect anti-pinch function.

### **CAUTION:**

When initialization is not complete, power window UP does not operate while door is open.

#### 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 (5.9in) without pinching piece of wood and stops.
- Check that glass does not rise when operating the power window main switch while lowering.

#### **CAUTION:**

- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be performed.
- 1. Auto-up operation
- 2. Anti-pinch function
- 3. Automatic window adjusting function
- 4. Key cylinder switch power window function
- 5. Power window UP operation while door is open

### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000006353928

Initial setting is necessary when replacing power window main switch.

#### **CAUTION:**

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

- Auto-up operation
- Anti-pinch function
- Automatic window adjusting function
- Key cylinder switch power window function

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#### INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [ROADSTER]

Power window UP operation while door is open

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

#### INITIALIZATION PROCEDURE

- Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or more.
- Close door (door switch OFF).
- 3. Turn ignition switch ON.
- 4. Close roof.
- 5. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open.)
- 6. Pull up and hold power window switch. Even after glass stops at the fully closed position, keep pulling the switch for 3 seconds or more.
- 7. Inspect anti-pinch function.

#### **CAUTION:**

When initialization is not complete, power window UP does not operate while door is open.

#### CHECK ANTI-PINCH FUNCTION

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

#### **CAUTION:**

- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be performed.
- 1. Auto-up operation
- 2. Anti-pinch function
- 3. Automatic window adjusting function
- 4. Key cylinder switch power window function
- 5. Power window UP operation while door is open

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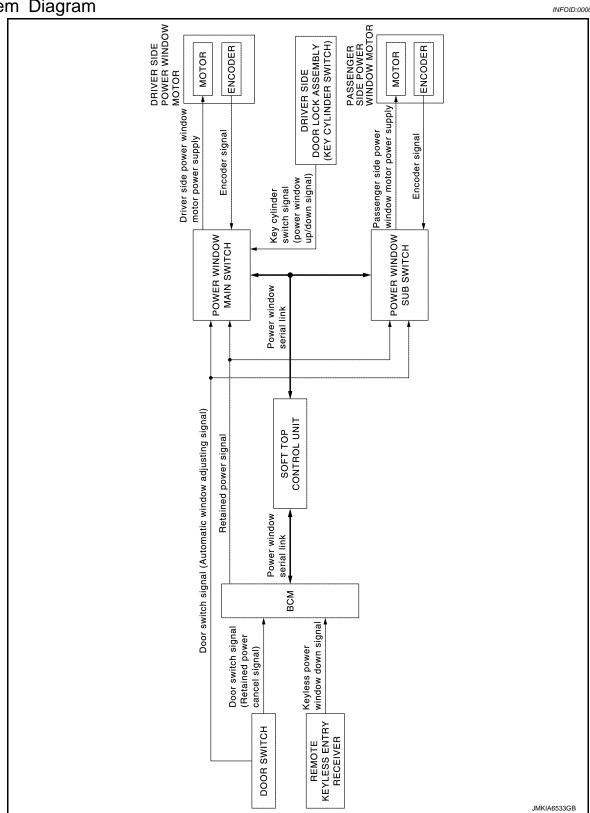
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# SYSTEM DESCRIPTION

# POWER WINDOW SYSTEM

System Diagram INFOID:0000000006353930



System Description

INFOID:0000000006353931

### **POWER WINDOW SYSTEM**

< SYSTEM DESCRIPTION > [ROADSTER]

• Power window system is activated by power window switch operation when ignition switch is turned ON and during the retained power operation, after ignition switch turned OFF.

- Power window main switch can open/close all windows.
- Power window sub-switch can open/close the passenger side window.
- AUTO operation can be activated by operating the power window switch once.
- It transmits and receives the signal between soft top control unit and power window main switch or power window sub switch, via serial communication.
- When pressing power window lock switch, operation other than power window main switch becomes impossible.
- When detecting the pinching resistance of foreign materials, etc. during power window AUTO UP operation, it lowers door glass to the specified value.
- When opening driver side or passenger side door while door glass is being fully closed, it lowers door glass of the door a little from the closed position. When closing the door, it return door glass to the fully closed position.
- All power windows open or close when Intelligent Key unlock button is pressed for 3seconds.
- Hold the door key cylinder to the UNLOCK direction for 1 second or more to OPEN all power windows when ignition switch OFF.
- Power window system operation links with soft top system to <u>RF-17</u>, "SOFT TOP SYSTEM: System <u>Description</u>".

#### POWER WINDOW AUTO-OPERATION

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

#### POWER WINDOW SERIAL LINK

Power window main switch, power window sub-switch, soft top control unit, and BCM transmit and receive the signal by power window serial link.

The under mentioned signal is transmitted from BCM to soft top control unit.

Keyless power window down signal

The under mentioned signal is transmitted from soft top control unit to power window switch.

- Soft top operation signal (front power window down signal, front power window up operation prohibition signal)
- Keyless power window down signal

The under mentioned signal is transmitted from power window main switch to power window sub-switch.

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

The under mentioned signal is transmitted from power window main switch to BCM via soft top control unit.

- Power window control by key cylinder switch signal
- Power window lock signal
- Door lock/unlock switch signal

#### RETAINED POWER OPERATION

Retained power operation is an additional power supply function that enables power window system to operate for 45 seconds after ignition switch turns OFF.

#### RETAINED POWER FUNCTION CANCEL CONDITIONS

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

#### POWER WINDOW LOCK FUNCTION

Switch operation other than power window main switch is prohibited when power window lock switch is ON. Power window main switch does not operate any power window other than driver power window.

### ANTI-PINCH FUNCTION

• The anti-pinch function detects foreign matter being pinched in the door glass, during AUTO-UP operation, and lowers the door glass 150 mm (5.9in).

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### **POWER WINDOW SYSTEM**

### < SYSTEM DESCRIPTION >

[ROADSTER]

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

#### OPERATION CONDITION

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

#### NOTE:

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

#### **AUTOMATIC WINDOW ADJUSTING FUNCTION**

When the driver/passenger door(s) is open, the window of the opened door is lowered approximately 10 mm (0.39 in).

When the door is closed, the window is raised to the fully closed position.

Automatic window adjusting function system (opening operation) does not operate when the following item occurs.

The window is 10 mm (0.39 in) or more open from the fully closed position.

#### DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Hold the door key cylinder to the LOCK or UNLOCK position for 1 second or more to OPEN or CLOSE all power windows when ignition switch is OFF. In addition, the windows stop the operation when the key position is NEUTRAL when operating.

#### OPERATION CONDITION

- Ignition switch OFF.
- Hold door key cylinder to the LOCK position for 1 second or more to perform CLOSE operation of the door glass.
- Hold door key cylinder to the UNLOCK position for 1 second or more to perform OPEN operation of the door glass.

#### KEYLESS POWER WINDOW DOWN FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and pressed and held for more than 3\* seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening function stops when the following operations are performed.

- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activates, keyless power window down function cannot be operated.

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUP-PORT". Refer to <u>DLK-232</u>, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

#### NOTE:

Use CONSULT-III to change settings.

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

#### POWER CONSUMPTION CONTROL SYSTEM

Power window switch incorporates a power consumption control function that reduces the power consumption according to the vehicle status.

#### LOW POWER CONSUMPTION MODE

- · Ignition switch OFF.
- Power window main switch and power window sub-switch do not receive a signal from serial link.
- Power window motor does not move.

If any of the following conditions are satisfied, the low power consumption mode is released.

- Ignition switch ON.
- When door key cylinder switch signal is received.
- When the signal is received from serial link.
- When door open/close signal is received.
- When power window switch door lock is operated.

## Component Parts Location

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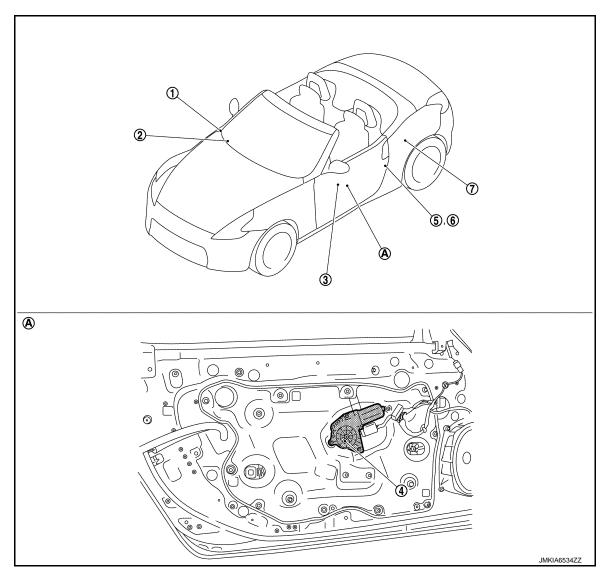
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- BCM
   BCS-9, "Component Parts Location"
- 4. Driver side power window motor
- 7. Soft top control unit BCS-9, "Component Parts Location"
- A. View with door finisher removed
- Remote keyless entry receiver <u>DLK-206, "DOOR LOCK:</u> <u>Component Parts Location"</u>
- Driver side door lock assembly (door key cylinder switch)
- 3. Power window main switch
- 6. Driver side door switch

## Component Description

INFOID:0000000006353933

Component	Function
BCM	<ul><li>Supplies power to power window switches.</li><li>Controls retained power function</li></ul>
Power window main switch	<ul> <li>Directly controls all power window motors in all doors.</li> <li>Controls anti-pinch operation of power window.</li> </ul>
Power window sub-switch	<ul> <li>Controls anti-pinch operation of power window.</li> <li>Controls power window motor of passenger door.</li> </ul>

## **POWER WINDOW SYSTEM**

## < SYSTEM DESCRIPTION >

Component	Function
Driver side power window motor	<ul> <li>Integrates the encoder and window motor.</li> <li>Starts operating with signals from power window main switch.</li> <li>Transmits power window motor rotation as a pulse signal to power window switch.</li> </ul>
Passenger side power window motor	<ul> <li>Integrates the encoder and window motor.</li> <li>Starts operating with signals from power window main switch &amp; power window subswitch.</li> <li>Transmits power window motor rotation as a pulse signal to power window switch.</li> </ul>
Driver side door lock assembly (door key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.
Remote keyless entry receiver	Receives lock/unlock signal from intelligent key and then transmits to BCM.
Door switch	<ul> <li>Detects door open/close condition and transmits to BCM.</li> <li>Door switch signal is directly received by power window switch and is used for the automatic window adjusting function.</li> </ul>
Soft top control unit	Controls power window when opening/closing soft top.
Door key cylinder switch	Power window main switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signals.

## **DIAGNOSIS SYSTEM (BCM)**

< SYSTEM DESCRIPTION >

[ROADSTER]

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

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

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#### APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
Work Support	Changes the setting for each system function.		
Self Diagnostic Result	Displays the diagnosis results judged by BCM.		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.		
Data Monitor	The BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Ecu Identification	The BCM part number is displayed.		
Configuration	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>		

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

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

×: Applicable item

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

#### NOTE:

### FREEZE FRAME DATA (FFD)

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

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<sup>\*:</sup> This item is displayed, but is not used.

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK"* to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT	Power supply position status of the moment a particular DTC is detected	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)*	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	<ul> <li>The number of times that ignition switch is turned ON after DTC is detected</li> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>		

#### NOTE:

## **RETAINED PWR**

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

INFOID:0000000006353935

### 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.

<sup>\*:</sup> For models without steering lock unit, power supply position changes from "OFF" to "LOCK" when steering lock conditions are satisfied.

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

**BCM**: Diagnosis Procedure

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## 1. CHECK FUSE AND FUSIBLE LINK

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

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

### Is the fuse fusing?

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

NO >> GO TO 2.

# 2.CHECK POWER SUPPLY CIRCUIT

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

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

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Connector Terminal		Continuity	
M119	13		Existed	

### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

POWER WINDOW MAIN SWITCH

## POWER WINDOW MAIN SWITCH: Diagnosis Procedure

# 1. CHECK POWER SUPPLY CIRCUIT

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

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### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

(+) Power window main switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		( + )
D8	1 10	Ground	12

### Is the measurement value within the specification?

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

# 2.check harness continuty

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

В	СМ	Power window main switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M118	2	D8	1	Existed
IVITIO	3	D6	10	Existed

4. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M118	2	Ground	Not existed
WITTO	3		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Exploded View".

NO >> Repair or replace harness.

# 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	15		Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

### POWER WINDOW SUB-SWITCH

## POWER WINDOW SUB-SWITCH: Diagnosis Procedure

INFOID:0000000006353938

## 1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect power window sub-switch connector.
- 3. Check voltage between power window sub-switch harness connector and ground.

(+) Power window sub-switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(Approx.)	
D38	10	Ground	12	

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUTY

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

BO	ВСМ		Power window sub-switch	
Connector	Terminal	Connector	Terminal	Continuity
M118	2	D38	10	Existed

4. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Exploded View".

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Power windo	ow sub-switch		Continuity
Connector	Terminal	Ground	Continuity
D38	11		Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

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### **POWER WINDOW MOTOR**

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

## POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE: Component Function Check

INFOID:0000000006353940

## 1. CHECK POWER WINDOW MOTOR CIRCUIT

Check driver side power window motor operation with power window main switch.

#### Is the inspection result normal?

YES >> Driver side power window motor is OK.

NO >> Refer to PWC-120, "DRIVER SIDE : Diagnosis Procedure".

## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006353941

# 1. CHECK DRIVER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

(+) Driver side power window motor		(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	6	C	6		UP	12
D10	б	Ground	Power window	DOWN	0	
DIO			main switch	UP	0	
	3			DOWN	12	

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

YES >> GO TO 2.

NO >> GO TO 3.

## 2. CHECK POWER WINDOW MOTOR

Check driver side power window motor.

Refer to PWC-121, "DRIVER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver side power window motor. Refer to <u>GW-23, "Removal and Installation"</u>.

# 3.check harness continuty

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

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D8	8	D10	6	Existed
	11	010	3	LXISIEU

<sup>4.</sup> Check continuity between power window main switch harness connector and ground.

### **POWER WINDOW MOTOR**

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	8	Ground	Not existed
	11		Not existed
s the inspection result norma			
YES >> Replace power v NO >> Repair or replace		r to <u>PWC-215, "Removal an</u>	d Installation".
4.CHECK INTERMITTENT	INCIDENT		
Refer to GI-43, "Intermittent I	ncident".		
>> INSPECTION E			
DRIVER SIDE : Comp	onent Inspection		INFOID:0000000006353
COMPONENT INSPECTION	ON		
1.CHECK DRIVER SIDE PO		<b>!</b>	
. Turn ignition switch OFF			
nector.  Driver side power window mo-	Ten	minal	
tor connector	(+)	(-)	Motor operation
D40	3	6	
		O	DOWN
D10	6	3	DOWN UP
s the inspection result norma YES >> Driver side power	al? er window motor is OK.		UP
s the inspection result normal YES >> Driver side power NO >> Replace driver s	al? er window motor is OK. ide power window motor. I	3	UP and Installation".
s the inspection result normal YES >> Driver side power NO >> Replace driver s PASSENGER SIDE PASSENGER SIDE : [	al? er window motor is OK. ide power window motor. I  Description	3 Refer to <u>GW-23, "Removal a</u>	UP  and Installation".
s the inspection result normal YES >> Driver side power NO >> Replace driver s PASSENGER SIDE	al?  er window motor is OK. ide power window motor. I  Description  N by receiving the signal po	3  Refer to <u>GW-23, "Removal a</u> ower window main switch or	UP  and Installation".  INFOID:000000000355
s the inspection result normal YES >> Driver side power NO >> Replace driver set PASSENGER SIDE : Door glass moves UP/DOWN	al?  er window motor is OK. ide power window motor. I  Description  N by receiving the signal po  Component Function	3  Refer to <u>GW-23, "Removal a</u> ower window main switch or	UP  and Installation".
s the inspection result normal YES >> Driver side power NO >> Replace driver set PASSENGER SIDE : Door glass moves UP/DOWN PASSENGER SIDE : Co.	al?  er window motor is OK. ide power window motor. I  Description  N by receiving the signal po  Component Function  DW MOTOR CIRCUIT	Refer to <u>GW-23, "Removal a</u> ower window main switch or a <b>Check</b>	UP  and Installation".  INFOID:0000000000635  power window sub-switch INFOID:0000000000635
s the inspection result normal YES >> Driver side power NO >> Replace driver side PASSENGER SIDE : Door glass moves UP/DOWN PASSENGER SIDE : Check passenger side power side pow	al?  er window motor is OK. ide power window motor. It  Description  N by receiving the signal po  Component Function  OW MOTOR CIRCUIT  r window motor operation	Refer to <u>GW-23, "Removal a</u> ower window main switch or a <b>Check</b>	UP  and Installation".  INFOID:000000000635  power window sub-switc  INFOID:000000000635
s the inspection result normal YES >> Driver side power NO >> Replace driver side PASSENGER SIDE : Door glass moves UP/DOWN PASSENGER SIDE : COMMERCE CHECK POWER WINDOWN Check passenger side powers witch.  s the inspection result normal YES >> Passenger side	al?  er window motor is OK. ide power window motor. It  Description  N by receiving the signal po  Component Function  OW MOTOR CIRCUIT  r window motor operation	Refer to GW-23, "Removal a ower window main switch or Check with power window main s	UP  and Installation".  INFOID:0000000000635  power window sub-switch INFOID:0000000000635

## PASSENGER SIDE : Diagnosis Procedure

# 1. CHECK PASSENGER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

INFOID:0000000006353945

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### < DTC/CIRCUIT DIAGNOSIS >

(+) Passenger side power window motor		(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(, (, (, ), )	
	6			UP	12	
D40	O	Ground	Power window sub-	DOWN	0	
D40	3	Ground	switch	UP	0	
	3			DOWN	12	

### Is the measurement value within the specification?

YES >> GO TO 2.

NO >> GO TO 3.

# 2. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-122, "PASSENGER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace passenger side power window motor. Refer to <u>GW-23, "Removal and Installation"</u>.

# 3.check harness continuty

- 1. Turn ignition switch OFF.
- Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power wind	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	9	D40	3	Existed
D30	8	D40	6	Existed

4. Check continuity between power window sub-switch connector and ground.

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	8	Ground	Not existed
	9		

### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-215, "Removal and Installation".

NO >> Repair or replace harness.

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

## PASSENGER SIDE : Component Inspection

INFOID:0000000006353946

### **COMPONENT INSPECTION**

# 1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

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

## **POWER WINDOW MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

Passenger side power window	Terr	Motor condition	
motor connector	(+)	(-)	Wotor Condition
D40	3	6	DOWN
540	6	3	UP

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### Is the inspection result normal?

YES >> Passenger side power window motor is OK.

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

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[ROADSTER]

## **ENCODER**

**DRIVER SIDE** 

## **DRIVER SIDE**: Description

INFOID:0000000006353947

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

### **DRIVER SIDE: Component Function Check**

INFOID:0000000006353948

### CHECK ENCODER OPERATION

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

### Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-124, "DRIVER SIDE : Diagnosis Procedure".

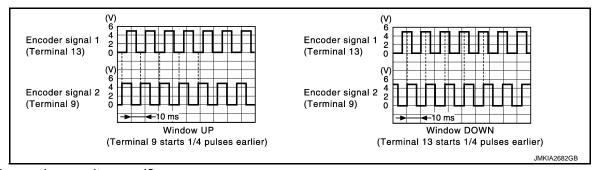
## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006353949

# 1. CHECK ENCODER OPERATION

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

(+) Power window main switch		(–)	Signal (Reference value)	
Connector	Terminal		(**************************************	
	9	Cround	Defer to the following signal	
D8	13	Ground	Refer to the following signal	



#### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-215, "Removal and Installation".

NO >> GO TO 2.

# 2.CHECK ENCODER SIGNAL CIRCUIT

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

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
	9	D10	5	Existed
Do	13	010	2	LXISIGU

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

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Power wind	Power window main switch		Continuity
Connector	Terminal	Ground	Continuity
D8	9	_ Ground	Not existed
Do	13		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check encoder power supply circuit

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

(+) Driver side power window motor		(–)	Voltage (V)	
Connector	Terminal		(Approx.)	
D10	4	Ground	12	

### Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

## 4. CHECK HARNESS CONTINUTY

Turn ignition switch OFF.

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

Power window main switch		Driver side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
D8	5	D10	4	Existed

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

Power window main switch			Continuity
Connector Terminal		Ground	Continuity
D8	5		Not existed

### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-215, "Removal and Installation".

NO >> Repair or replace harness.

# 5.CHECK GROUND CIRCUIT

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

Power windo	w main switch	Driver side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
D8	14	D10	1	Existed

#### Is the inspection result normal?

YES >> Replace driver side power window motor. Refer to PWC-215, "Removal and Installation".

NO >> Repair or replace harness.

### PASSENGER SIDE

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#### [ROADSTER]

## PASSENGER SIDE: Description

INFOID:0000000006353950

Detects condition of the passenger side power window motor operation and transmits to power window subswitch as the pulse signal.

### PASSENGER SIDE: Component Function Check

INFOID:0000000006353951

### 1. CHECK ENCODER OPERATION

Check that passenger side door glass performs AUTO open operation normally with power window main switch or power window sub-switch.

### Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-126, "PASSENGER SIDE : Diagnosis Procedure".

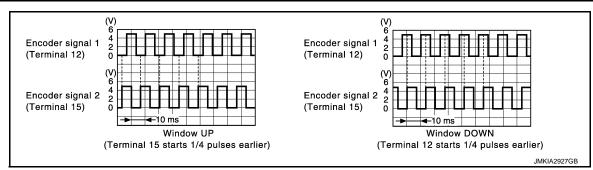
# PASSENGER SIDE: Diagnosis Procedure

INEOID:0000000006353952

## 1. CHECK ENCODER SIGNAL

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

(+) Power window sub-switch		(–)	Signal (Reference value)	
Connector	Terminal		(	
D38	12	Cround	Defer to the following signal	
D30	15	Ground	Refer to the following signal	



### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-215, "Removal and Installation".

NO >> GO TO 2.

# 2. CHECK ENCODER SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector and passenger side power window motor connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power windo	ow sub-switch	Passenger side power window motor		Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
D38	12	D40	2	Existed		
	15	D40	5	Existed		

4. Check continuity between power window sub-switch connector and ground.

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Power win	Power window sub-switch		Continuity
Connector	Terminal	Ground	Continuity
D38	12	Ground	Not existed
D36	15		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check encoder power supply circuit

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

(+) Passenger side power window motor		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
D40	4	Ground	12	

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

YES >> GO TO 5.

NO >> GO TO 4.

## 4. CHECK HARNESS CONTINUTY

1. Turn ignition switch OFF.

- 2. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power windo	Power window sub-switch		Passenger side power window motor	
Connector	Terminal	Connector Terminal		Continuity
D38	4	D40	4	Existed

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

Power windo	w sub-switch		Continuity
Connector	Terminal	Ground	Continuity
D38	4		Not existed

### Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-215, "Removal and Installation".

NO >> Repair or replace harness.

# 5.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- 3. Check continuity between power window sub-switch harness connector and passenger side power window motor harness connector.

Power windo	Power window sub-switch Passenger side power window motor		Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
D38	3	D40	1	Existed	

#### Is the inspection result normal?

YES >> Replace passenger side power window motor. Refer to <u>PWC-215</u>, "Removal and Installation".

NO >> Repair or replace harness.

#### [ROADSTER]

#### < DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH CIRCUIT

**DRIVER SIDE** 

**DRIVER SIDE**: Description

INFOID:0000000006353953

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:0000000006353954

## 1. CHECK FUNCTION

Check automatic window adjusting function.

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to PWC-128, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006353955

### 1. CHECK DOOR SWITCH

Check door switch.Refer to DLK-284, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2.CHECK DOOR SWITCH INPUT SIGNAL

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

(+ Driver side power w	indow main switch	(-)	Voltage (V) (Approx.)
Connector	Terminal		
D8	4	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB

#### Is the inspection result normal?

YES >> Replace power window main switch.Refer to PWC-215, "Removal and Installation".

NO >> GO TO 3.

# 3.check door switch circuit

- Turn ignition switch OFF.
- Disconnect power window main switch connector and driver side power window motor connector.
- Check continuity between power window main switch harness connector and driver side door switch harness connector.

Power windo	Power window main switch		Driver side door switch	
Connector	Terminal	Connector	Terminal	Continuity
D8	4	B63	2	Existed

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

Power window m	ain switch		Continuity
Connector	Terminal	Ground	Continuity
D8	4		Not existed

DOOR SWITCH CIRCUIT [ROADSTER] < DTC/CIRCUIT DIAGNOSIS > Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK INTERMITTENT INCIDENT Refer to GI-43, "Intermittent Incident". >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE: Description

Detects door open/closed condition.

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

Check automatic window adjusting function.

Is the inspection result normal?

YES >> Door switch is OK.

>> Refer to PWC-129, "PASSENGER SIDE: Diagnosis Procedure". NO

PASSENGER SIDE : Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch. Refer to DLK-284, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR SWITCH INPUT SIGNAL

Check voltage between power window sub-switch harness connector and ground.

(+) Power window	(+) Power window sub-switch		Voltage (V) (Approx.)
Connector	Terminal		(, ibbiovr)
D38	14	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB

### Is the inspection result normal?

YES >> Replace power window sub-switch.Refer to PWC-215, "Removal and Installation".

>> GO TO 3. NO

# 3.check door switch circuit

Disconnect passenger side door switch connector.

Check continuity between passenger side door switch harness connector and power window sub-switch harness connector.

Power windo	Power window sub-switch Passenger side door switch		Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
D38	14	B206	2	Existed	

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## **DOOR SWITCH CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

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

Power window sub-switch			Continuity
Connector	Terminal	Ground	Continuity
D38	14		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

< ECU DIAGNOSIS INFORMATION >

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# **ECU DIAGNOSIS INFORMATION**

# **BCM (BODY CONTROL MODULE)**

Reference Value INFOID:0000000006845667

## VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK HI	Front wiper switch HI	On
ED WIDED LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED STOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONALI	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAIVIP SVV	Lighting switch 1ST or 2ND	On
LILDEAM CW	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OWA	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COING OW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DD 500 0W	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
DOOR SW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD 0\M A C	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

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# < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed (Coupe models)     Trunk lid closed (Roadster models)	Off
DOOK SW-BK	Back door opened (Coupe models)     Trunk lid opened (Roadster models)	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
CDL LOCK SW	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
CDL UNLOCK SW	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
RET CTL LR-SW	Driver door key cylinder LOCK position	On
KEY OVELINEOW	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD CM	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
<b>NOTE:</b> For models with NAVI this item is not monitored.	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TD CANCEL CVV	Trunk lid opener cancel switch OFF	Off
TR CANCEL SW	Trunk lid opener cancel switch ON	On
TD/DD ODEN OW	Back door opener switch OFF (Coupe models)     Trunk lid opener switch OFF (Roadster models)	Off
TR/BD OPEN SW	<ul> <li>While the back door opener switch is turned ON (Coupe models)</li> <li>While the trunk lid opener switch is turned ON (Roadster models)</li> </ul>	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
RRE-LOCK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
KKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD NOTE:	TRUNK OPEN button of the Intelligent Key is not pressed	Off
For Coupe models this item is not monitored.	TRUNK OPEN of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
INNL-FAINIO	PANIC button of the Intelligent Key is pressed	On
DKE DW ODEN	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
BKE MODE CHC	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On

## < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

ECO DIAGNOSIS INFO	SKWATION >	
Monitor Item	Condition	Value/Status
ODTION OFNOOD	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
DEO CW. DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
DEC 014/ AC	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed (Coupe models)     Trunk lid door request switch is not pressed (Roadster models)	Off
KEQ SW -BD/TK	Back door request switch is pressed (Coupe models)     Trunk lid door request switch is pressed (Roadster models)	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
FUSH SVV	Push-button ignition switch (push switch) is pressed	On
ION DI VO. E/D	Ignition switch in OFF or ACC position	Off
GN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	The clutch pedal is not depressed	Off
<b>NOTE:</b> For A/T models this item is not monitored.	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DDAKE OW O	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW NOTE:	Selector lever in P position (A/T models)     The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off
For M/T models with Synchro- Rev Match mode this item is not monitored.	Selector lever in any position other than P (A/T models)     The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On
SFT PN/N SW NOTE: For roadster M/T models and	Selector lever in any position other than P and N (A/T models)     Control lever in any position other than neutral position (Coupe M/T models with SynchroRev Match mode)	Off
coupe M/T models without SynchroRev Match mode this item is not monitored.	Selector lever in P or N position (A/T models)     Control lever in neutral position (Coupe M/T models with SynchroRev Match mode)	On
S/L -LOCK <b>NOTE</b> :	Steering is unlocked	Off
For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
<b>NOTE:</b> For models without steering lock unit, this item is not monitored.	Steering is unlocked	On

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status		
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off		
<b>NOTE:</b> For models without steering lock unit, this item is not monitored.	Ignition switch in ON position	On		
UNLK SEN -DR	Driver door is unlocked	Off		
ONER OLIV BIX	Driver door is locked	On		
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off		
TOOM II DIM	Push-button ignition switch (push-switch) is pressed	On		
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off		
ION KETT-17B	Ignition switch in ON position	On		
DETE SW -IPDM	Selector lever in any position other than P	Off		
DETE 3W -IF DIVI	Selector lever in P position	On		
SFT PN -IPDM	<ul> <li>Selector lever in any position other than P and N (A/T models)</li> <li>The clutch pedal is not depressed (M/T models)</li> </ul>	Off		
SI I FIN -IF DIVI	<ul> <li>Selector lever in P or N position (A/T models)</li> <li>The clutch pedal is depressed (M/T models)</li> </ul>	On		
SFT P -MET	Selector lever in any position other than P	Off		
SFIF-WEI	Selector lever in P position	On		
SFT N -MET	Selector lever in any position other than N	Off		
SI I IN -IVIL I	Selector lever in N position	On		
	Engine stopped	Stop		
ENGINE STATE	While the engine stalls	Stall		
ENGINE STATE	At engine cranking	Crank		
	Engine running	Run		
S/L LOCK-IPDM	Steering is unlocked	Off		
<b>NOTE:</b> For models without steering lock unit, this item is not monitored.	Steering is locked	On		
S/L UNLK-IPDM	Steering is locked	Off		
<b>NOTE:</b> For models without steering lock unit, this item is not monitored.	Steering is unlocked	On		
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off		
For models without steering lock unit, this item is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On		
VEH SPEED 1	While driving	Equivalent to speedom- eter reading		
VEH SPEED 2	While driving	Equivalent to speedom- eter reading		
	Driver door is locked	LOCK		
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY		
	Driver door is unlocked	UNLOCK		
	Passenger door is locked	LOCK		
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY		
	Passenger door is unlocked	UNLOCK		

## < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Monitor Item	Condition	Value/Status	
ID OK FLAG	Steering is locked	Reset	
ID OK I LAG	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	
FIXIVIT LING STAT	The engine start is permitted	Set	
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off	
KET OW GEOT	The Intelligent Key is inserted into key slot	On	
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key	
RKE OPE COUN2	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key	
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	
CONFRIMID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done	
CONFIDMID 4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet	
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	
CONFIDM ID2	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	
	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	
	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet	I
CONFIRM ID1	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done	
	The ID of fourth Intelligent Key is not registered to BCM	Yet	
TP 4	The ID of fourth Intelligent Key is registered to BCM	Done	
TD 0	The ID of third Intelligent Key is not registered to BCM	Yet	
TP 3	The ID of third Intelligent Key is registered to BCM	Done	
TD 0	The ID of second Intelligent Key is not registered to BCM	Yet	
TP 2	The ID of second Intelligent Key is registered to BCM	Done	
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet	
TP 1	The ID of first Intelligent Key is registered to BCM	Done	
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire	
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire	
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire	
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire	
	ID of front LH tire transmitter is registered	Done	
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet	

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# < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
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 REGOT KRT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGST RLT	ID of rear LH tire transmitter is not registered	Yet
MADNING LAMD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

[ROADSTER]

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**PWC** 

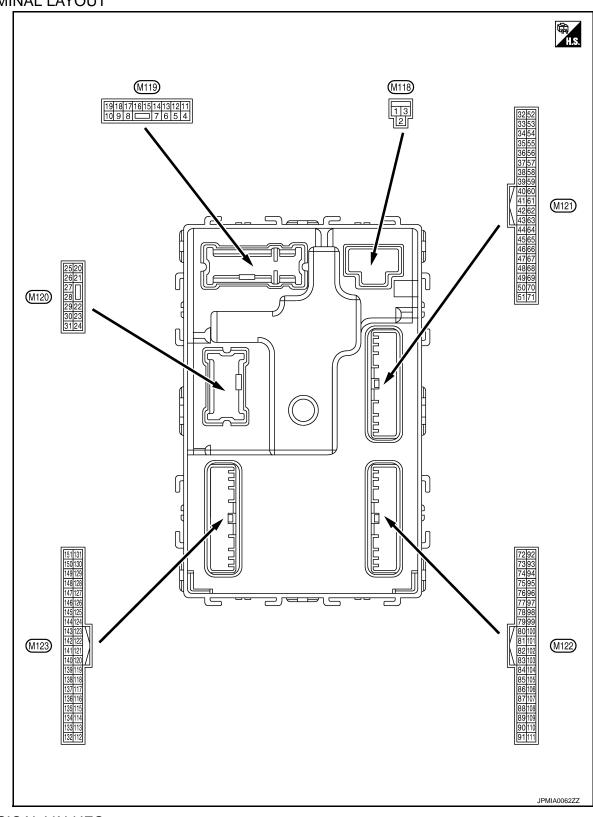
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TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2011 October **PWC-137** 2011 370Z

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch (	OFF	12 V
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch (	ON	12 V
					mp battery saver is activated. or room lamp power supply)	0 V
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V
(G)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V
8	Ground	All doors, fuel lid	Output	All doors, fuel	LOCK (Actuator is activated)	12 V
(V)	Ground	LOCK			Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (BR)	Ground	Battery power supply	Input	Ignition switch (	OFF	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch (	ON	0 V
					OFF	0 V
		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position.
14 (R)	Ground	switch illumination ground	Output	Tail lamp	ON	(V) 10 0 2 ms JSNIA0010GB
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(1)			· 		ACC	0 V

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s	
					Turn signal switch OFF	6.5 V 0 V	
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5	
19		Room lamp timer		Interior room	OFF	1 s PKID0926E 6.5 V	
(P)	Ground	control	Output	lamp	ON	0 V	
					Turn signal switch OFF	0 V	
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0	
						PKID0926E 6.5 V	
23		Back door/Trunk lid		Back door/	OPEN (Back door/Trunk lid opener actuator is activated)	12 V	
(L)* <sup>1</sup> (Y)* <sup>2</sup>	Ground	open	Output	Trunk lid	Other than OPEN (Back door/Trunk lid opener actuator is not activated)	0 V	
24	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V	
(O)		J I-	- 1	- 3	ON	12 V	
					Turn signal switch OFF	0 V	
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 11 1 s	
						6.5 V	
30	Ground	Luggage room/Trunk	Output	Luggage room/ Trunk room	ON	0 V	
(R)		room lamp		lrunk room lamp	OFF	12 V	

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description	1			Value	
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
34	Ground	Luggage room/Trunk	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s  JMKIA0062GB	
(G)	Glound	room antenna (-)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
35	Ground	Luggage room/Trunk room antenna (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0  JMKIA0062GB	
(R)	Clound			OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
38	Ground	d Rear bumper anten- na (–)	Output	When the back door/trunk lid door request switch is oper- ated with igni- tion switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(B)	2.330				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

## < ECU DIAGNOSIS INFORMATION >

Signal name   Input	Terminal No. (Wire color)		Description		Condition		Value	
Ground   Rear bumper antendra (+)   Output   When the back door/runk lid door request switch   GFF   Output   Intelligent Key warning buzzer   Output   Intelligent Key warning buzzer   Output   Intelligent Key is in the antenna detection area   OFF or ACC   12 V	-	-	Signal name			Condition		А
Ground   G					door/trunk lid	the antenna detection	15 10 5 0	B C
Ground   E/R) control   Gutput   Ignition switch   ON		Ground		Output	switch is oper- ated with igni- tion switch	in the antenna detection	15 10 5 0	E
Ground   Starter relay control   Output   Ignition switch ON (A/T models)   Over   Ignition switch ON (M/T models)   Ignitio	47	Cround	Ignition relay (IPDM	Output	Ignition awitch	OFF or ACC	12 V	G
Starter relay control  Starter relay control  Output  Input Back door/ Trunk lid door request switch  Ground  Ground  Ground  Ground  Back door/Trunk Lid door request switch  Ground  Ground  Ground  Ground  Back door/Trunk Lid door request switch  Ground  Ground  Ground  Back door/Trunk Lid door request switch  Ground  Ground  Ground  Back door/Trunk Lid door request switch  Ground  Ground  Ground  Back door/Trunk Lid door request switch  Ground  Ground  Ground  Ground  Back door/Trunk Lid door request switch  Ground  Ground  Ground  Ground  Ground  Ground  Back door/Trunk lid door request switch  Ground  Ground  Ground  Ground  Ground  Ground  Back door/Trunk lid door request switch  Ground	(V)	Ground	E/R) control	Output	ignition switch	ON	0 V	
Starter relay control   Output   Els)   When selector lever is not in P or N position   O V							12 V	Н
Salter relay control   Starter relay control   Start	52	Otantan valau santual	<b>.</b>			0 V		
61 (W) Ground Back door/Trunk Lid door request switch (W) Intelligent Key warning buzzer Output Frunk room lamp switch (R) Ground (R) Ground (R) Ground (R) Ground (R) Back door/Trunk Input (R) Back do		Ground	Starter relay control	Output	ON (M/T mod-		Battery voltage	ı
Ground Back door/Trunk Lid door request switch Input Trunk lid door request switch OFF (Not pressed)  Ground Ground Intelligent Key warning buzzer  Ground Ground Back door/Trunk lid door request switch OFF (Not pressed)  Input Sounding OV  Not sounding 12 V  Back door/ Trunk room lamp switch Input Back door/ Trunk room lamp switch OFF (Door close)  Ground Ground Back door/Trunk room lamp switch Input Input Back door/ Trunk room lamp switch Input Input Input Back door/ Trunk room lamp switch Input Inpu							0 V	J
Ground Ground Back door/Trunk Lid door request switch Input Frunk lid door request switch OFF (Not pressed)  Ground Ground Intelligent Key warning buzzer  Ground Ground Back door/Trunk Input Intelligent Key warning buzzer  Ground Ground Back door/Trunk Input Back door/Trunk Input I						ON (Pressed)	0 V	
Ground Intelligent Key warning buzzer Output Intelligent Key warning buzzer Not sounding 12 V    Ground Gro		Ground		Input	Trunk lid door	OFF (Not pressed)	15 10 5 0 10 ms JPMIA0016GB	PW L
(G) Ground ing buzzer warning buzzer Not sounding 12 V  Back door/Trunk room lamp switch Input Back door/ Trunk room lamp switch OFF (Door close)  JPMIA0011GB	64		Intelligent Kev warn-	_	Intelligent Kev	Sounding		
Ground Ground Back door/Trunk room lamp switch Input Back door/ Trunk room lamp switch OFF (Door close)  OFF (Door close)		Ground		Output		_	12 V	Ν
	66 (R)	Ground		Input	Trunk room	OFF (Door close)	15 10 5 0 10 ms JPMIA0011GB	O P
ON (Door open) 0 V						ON (Danier C)		

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Back door/Trunk lid opener switch	Input	Back door/ Trunk lid open- er switch	Pressed  Not pressed	0 V  (V) 15 10 10 ms  JPMIA0011GB  11.8 V
72	Ground	Room antenna 2 (–) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(L)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s  JMKIA0063GB
73 (P)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description			O Pri	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Ground	tenna (-)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
75		Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
75 (BR)	Ground	tenna (+)	Z siput	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
76	Ground	Driver door antenna	Output	When the driver door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s
(V)	Glound	(-)	Output	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
77	Ground	Driver door antenna	Output	When the driver door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(LG)	Clound	(+)	Output	ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
78* <sup>2</sup>	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(L)				OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
79* <sup>2</sup>	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
		Remote keyless entry		During waiting		(V) 15 10 1 ms JMKIA0064GB
83 (GR	Ground	receiver (front) communication	Input/ Output	When operating gent Key	geither button on the Intelli-	(V) 15 10 5 1 ms  JMKIA0065GB
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
				Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 6  Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
88	Ground	Combination switch	Input	Combination switch	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
(V)		INPUT 3			Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
89	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR) 90		switch (Push switch)	Input/	(push switch)	Not pressed	Battery voltage
(P)	Ground	CAN-L	Output		<del></del>	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination Outpu	Output	Key slot illumi- nation	Blinking	(V) 15 10 1   1   1   1   1   1   1   1   1   1
					ON	6.5 V 12 V
	1				- '	-2 •

# < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
( • )					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Oround	NOO Telay control	Output	ignition switch	ACC or ON	12 V
96* <sup>3</sup> (Y)	Ground	A/T shift selector (Detention switch) power supply	Output			12 V
97* <sup>4</sup>	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Oround	tion No. 1	iliput	Steering lock	UNLOCK status	12 V
98* <sup>4</sup>	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Ground	tion No. 2	Input	oteening lock	UNLOCK status	0 V
		Selector lever P posi-			P position	0 V
		tion switch (A/T models)		Selector lever	Any position other than P	12 V
99* <sup>5</sup> (R)	Ground	Clutch pedal position switch (M/T models	Input	Clutch pedal	OFF (Clutch pedal is depressed)	0 V
		without SynchroRev Match mode)		position switch	ON (Clutch pedal is not depressed)	Battery voltage
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(O)		lay control		J	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver (front) power supply	Output	Ignition switch (	DFF	12 V
106*4	C	Steering lock unit	O	Ignition occited	OFF or ACC	12 V
(W)	Ground	power supply	Output	Ignition switch	ON	0 V

**PWC-147** 2011 370Z Revision: 2011 October

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

### < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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

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# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	value (Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 2 ms 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description	T		0 1111	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* <sup>4</sup> (Y) Ground	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113	Cround	Ontical concer	Innut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical sensor	Input	ŎN	When dark outside of the vehicle	Close to 0 V
114* <sup>6</sup>	Cround	Clutch interlock	Innut	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	Input	SWITCH	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)	Ground	Stop lamp switch 2	Input	switch	ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Innut	When the Intellig	gent Key is inserted into key	12 V
(R)	Giouria	val 2001 2 MILLII	Input	When the Intellig	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)				3	ON	Battery voltage

### < ECU DIAGNOSIS INFORMATION >

Termin		Description				Value
(Wire		Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (Door open)	0 V
129* <sup>2</sup> (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					ON	0 V
130* <sup>7</sup> (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms 10 ms JPMIA0012GB
					Rear window defogger switch ON	0 V
132 (Y)* <sup>1</sup> (V)* <sup>2</sup>	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	+	12 V
					ON (Tail lamps OFF)	9.5 V
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.  (V) 15 10 5 U JPMIA0159GB
					OFF	0 V

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
134	Ground	LOCK indicator lamp	Output	LOCKindicator	OFF	Battery voltage
(GR)	Ground	LOCK indicator lamp	Output	lamp	ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)	Cround	power supply	Output	ignition switch	ACC or ON	5.0 V
			Ignition switch OFF (Remote key-	During waiting	(V) 15 10 5 0 1 ms JMKIA0064GB	
			Input/ Output	less entry re- ceiver communica- tion)	When operating either button on the Intelligent Key	(V) 15 10 5 0
	Ground	Tire pressure receiver communication		Ignition switch ON	Standby state	JMKIA0065GB  (V)  4  2  0  •••0.2s  OCC3881D
	(Tire pressu receiver con munication)	receiver com-	When receiving the signal from the transmitter	(V) 6 4 2 0 •• 0.2s OCC3880D		
		Selector lever P/N		0.1	P or N position	12 V
		position (A/T models)		Selector lever	Except P and N positions	0 V
140* <sup>8</sup> (G)	Ground	Park/neutral position switch (Coupe M/T	Input	Ignition switch ON	Control lever in neutral position	Battery voltage
		models with Synchro- Rev Match mode)			Control lever in any position other than neutral	0 V

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					ON	0 V
141 (Y)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 0 1 1 s JPMIA0014GB
					OFF	12 V
-					All switches OFF	0 V
					Lighting switch 1ST	
				Combination switch (Wiper intermit- tent dial 4)	Lighting switch HI	(V) 15
142 (O)	Ground	Combination switch OUTPUT 5	Output		Lighting switch 2ND	10 5 0
					Turn signal switch RH	JPMIA0031GB 10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 3  Wiper intermittent dial 6  Wiper intermittent dial 7	10 5 0 2 ms JPMIA0032GB
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 5  Wiper intermittent dial 6	15 10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V) 15 10 5 0
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	
					Rear fog lamp switch ON	2 ms JPMIA0034GB
						10.7 v

#### < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Α

В

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Н

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
-					All switches OFF	0 V
					Lighting switch 2ND	
				Combination	Lighting switch PASS	(V)
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit- tent dial 4)	Turn signal switch LH	10 5 0 JPMIA0035GB 10.7 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window defogger	Active	0 V
(G)	Ground	ger relay control	Output		Not activated	Battery voltage

- \*1: Coupe models
- \*2: Roadster models
- \*3: A/T models
- \*4: With steering lock unit
- \*5: Except M/T models with SynchroRev Match mode
- \*6: M/T models
- \*7: Without NAVI
- \*8: A/T models or coupe M/T models without SynchroRev Match mode

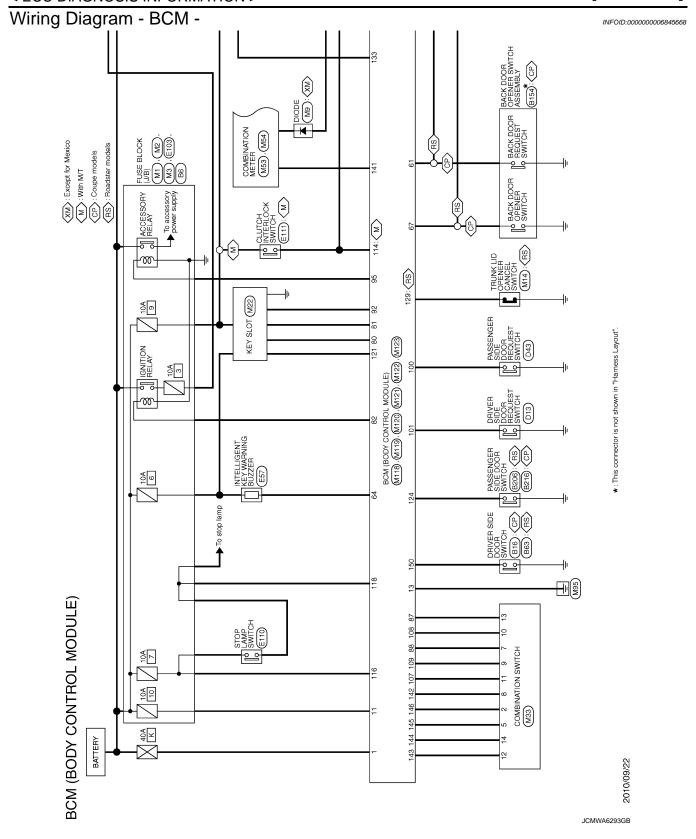
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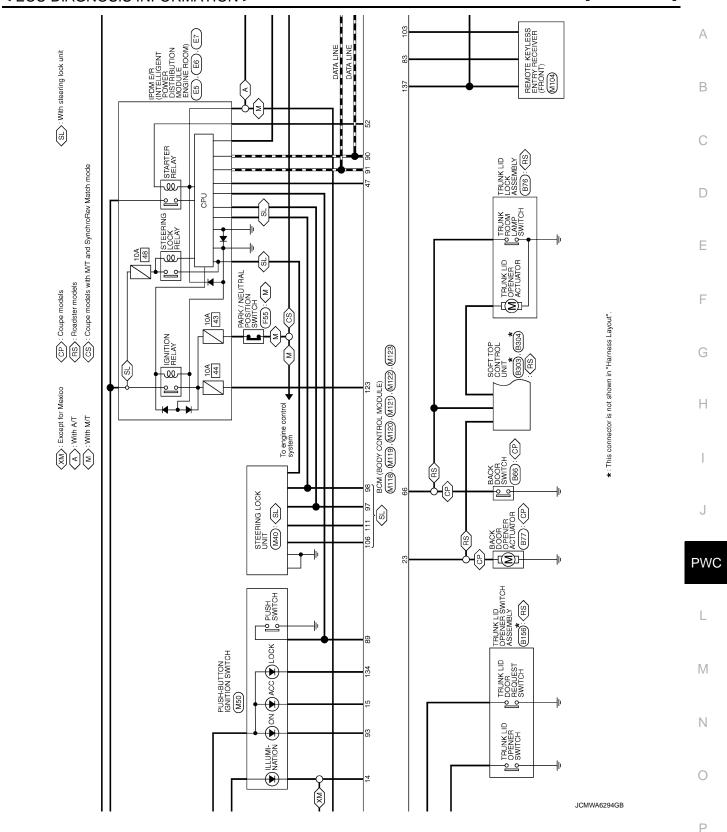
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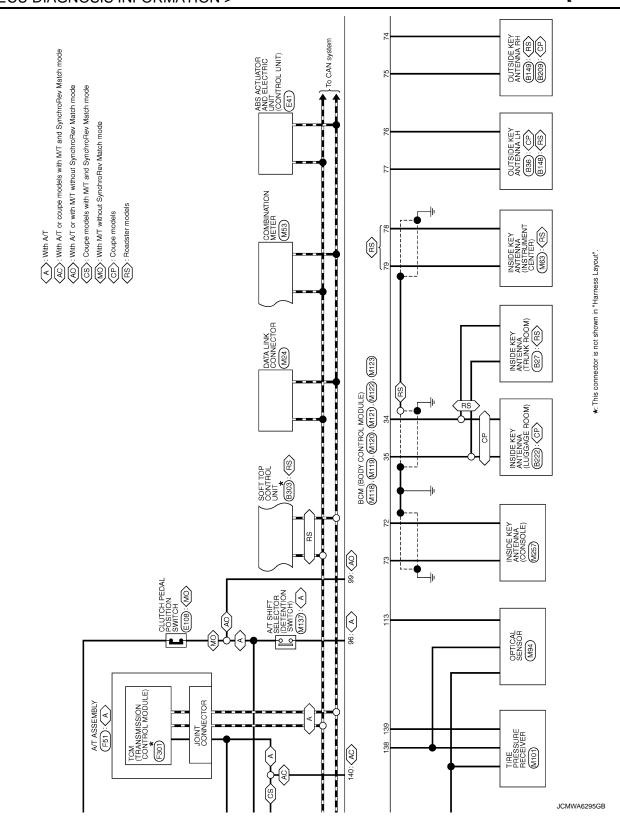
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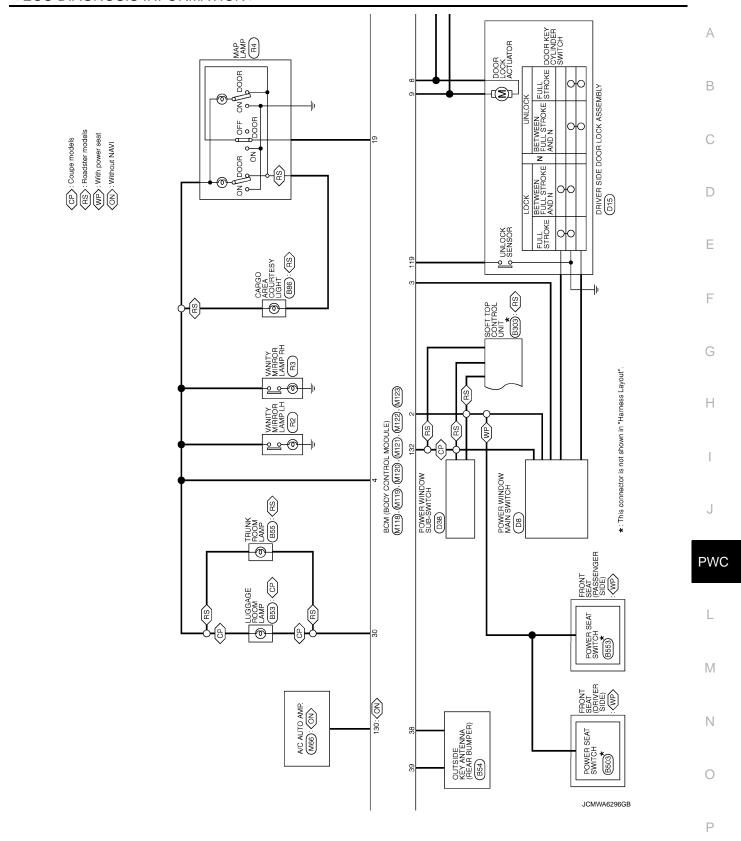
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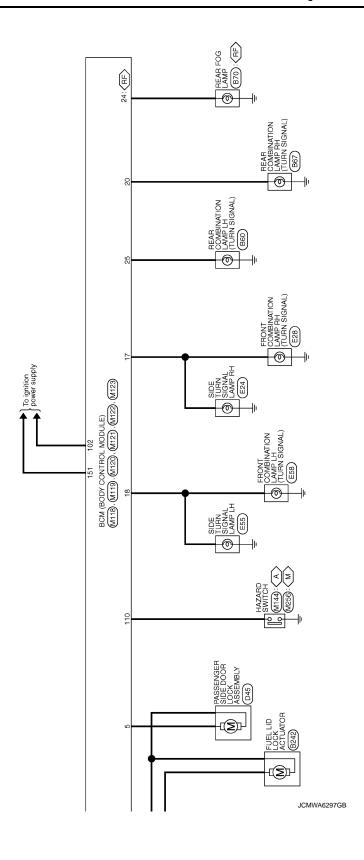






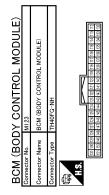






< ECU DIAGNOSIS INFORMATION >

T) COMM	2	А
INATS ANT AMP.  IGN RELAY (F-8) CONT.  COMEI SW INPUT 6  COMEI SW INPUT 6  COMEI SW INPUT 7  CAN-H  CAN-H  KEY SLOT ILL  MIND  ACC RELAY CONT.  ACT RELAY CONT.	S./L. CONDITION I.  S./L. CONDITION I.  S./L. CONDITION I.  S./L. CONDITION I.  PASSENGER DOOR REQUEST SW.  BLOWER FAN MOTOR REQUEST SW.  BLOWER FAN MOTOR REQUEST SW.  S./L. UNIT DOOR SW. INPUT I.  COMEI SW	В
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AODULE)	Peofication	Е
NH NH SECTIONS SECTIO	Signal Name (S)  LUGGAGE RC  LUGGAGE RC  LUGGAGE RC  EACK DOO  BACK DOO  IGN RELAY UPDIO  STARTTER REI  AUNK LID OPENER SI  AUNK LID OPENER SI  STARTTER REI  REOOM AI  ROOM AI  R	F
No. Name Type	Mon. of Wire   Color	G
	The control of the	Н
OL MODULE)	Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] TURN SIGNAL IN (FREAT) RODY CONTROL MODULE) W-CS Signal Name [Specification] TURN SIGNAL HI (FREAT) POOR OPEN OUTPUT (Readster models) REAR FOG OUTPUT TURN SIGNAL HI (FREAT) Signal Name [Specification] TURN SIGNAL HI (FREAT) DOOR OPEN OUTPUT (Readster models) KILD OFFN OUTPUT (Readster models) KILD OFFN OUTPUT (Readster models) KILD OFFN OUTPUT (READSTER TO OUTPUT TURN SIGNAL LH (FREAT)	I
MI 18 BCM (BODY CONTROL MODULE) INSIGEW-CS 1 5 6 7	Signal Name (Specification)  INTERIOR ROOM LAMP POWER SUPPLY ALL DOORS FUEL LID LIOK OUTPUT BAT FUSIES GND TURN SIGNAL LIN (FRONT SIDE) ROOM LAMP TIMEN CONTROL TURN SIGNAL LIN (FRONT SIDE) ROOM LAMP TIMEN CONTROL MIZO BCM (BODY CONTROL MODULE) NS12PW-CS  Signal Name (Specification)  ZURN SIGNAL LIN (FRONT SIDE) ROOM CONTROL MODULE) Signal Name (Specification) TURN SIGNAL LIN (FRONT SIDE) ROOM CONTROL MODULE) Signal Name (Specification) TURN SIGNAL LIN (FREAR) EACK DOOR OFFEN OUTPUT (Goaps models) TRUNK LID OFFEN OUTPUT (Goaps models) TRUNK LID OFFEN OUTPUT (Readster models) TURN SIGNAL LIN (FREAR)	J
No. Type	Terminal Color   Terminal Color   Terminal Color   Miles	PWO
TE)	n) n) LY ((GAT)	L
MTCH	Signal Name (Specification)  FRWASHER (-)  OUTPUT 4  OUTPUT 4  OUTPUT 3  OUTPUT 3  OUTPUT 1  INPUT 1  INPUT 1  OUTPUT 2  INPUT 1  OUTPUT 2  OUTPUT 2  OUTPUT 2  INPUT 1  OUTPUT 2  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 1  INPUT 1  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 5  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 5  OUTPUT 7  OUTPUT 7  INPUT 5  OUTPUT 7  INPUT 8  INPUT 9  OUTPUT 7  INPUT 9  OUTPUT 9  OUTPUT 7  INPUT 9  OUTPUT 7  INPUT 9  OUTPUT 7  INPUT 9  OUTPUT 7  INPUT 9  OUTPUT 9  OUTPUT 9  OUTPUT 9  OUTPUT 9  OUTPUT 9  OUTPUT 9  INPUT 9  OUTPUT 9  OUTPUT 9  INPUT 9  OUTPUT 9  OUTPUT 9  INPUT 9  INPUT 9  INPUT 9  OUTPUT 9  INPUT	M
17 CONTROL M33 COMBINATION SWITCH THIGFW-NH T 2 3   4 4 7 8 9 10 11 12	Signal Nane (Specification of TRWASHER (C)  OUTPUT 4  OUTPUT 3  OUTPUT 3  OUTPUT 3  OUTPUT 1  INPUT 1  INPUT 1  OUTPUT 2  INPUT 1  INPUT 1  OUTPUT 2  INPUT 1  INPUT 1  INPUT 1  OUTPUT 2  INPUT 1  OUTPUT 2  INPUT 1  INPUT 3  INPUT 1  INPUT 1  OUTPUT 2  INPUT 3  INPUT 4  INPUT 4  INPUT 4  INPUT 5  INPUT 1  INPUT 2  INPUT 3  INPUT 3  INPUT 3  INPUT 3  INPUT 4  INPUT 4  INPUT 4  INPUT 4  INPUT 4  INPUT 5  INPUT 5  INPUT 5  INPUT 6  INPUT 6  INPUT 6  INPUT 7  INPUT 7  INPUT 7  INPUT 7  INPUT 8  INPUT 1	N
(BOD	Color   Colo	0
ଲ <u>ାତା ଦାହାଲିୟ</u>		JCMWA6298GB
		Р



	Signal Name [Specification]	OPTICAL SENSOR	CLUTCH INTERLOCK SW	SHOCK SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	TRUNK LID OPENER CANCEL SW	REAR DEFOGGER SW	P/W SW & SOFT TOP C/U COMM [Roadster models]	POWER WINDOW SW COMM [Coupe models]	PUSH BUTTON IGNITION SW ILL POWER	LOCK IND	RECEIVER/SENSOR GND	RECEIVER / SENSOR POWER SUPPLY	TIRE PRESS/KYLS ENT (REAR) RECEIV COMM	P/N POSITION SW [With M/T]	SHIFT N/P [With A/T]	SECURITY INDICATOR	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	
2	of Wire	0	ď	0	SB	Ь	SB	۳	W	ΡΠ	0	٦	۸	Y	9	GR	Р	^	٦	G	g	Υ	0	Ь	9	L	SB	GR	ļ
Thermody	No.	113	114	115	116	118	119	121	123	124	129	130	132	132	133	134	137	138	139	140	140	141	142	143	144	145	146	150	,

JCMWA6299GB

Fail-safe

### FAIL-SAFE CONTROL BY DTC

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

# < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  Starter control relay signal  Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent  • Selector lever P position switch signal  • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled     Ignition switch is in the ON position     Selector lever P position switch signal: Except P position (battery voltage)     Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	<ul> <li>500 ms after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Status 1  - Ignition switch is in the ON position  - Selector lever P/N position signal: P and N position (battery voltage)  - P range signal or N range signal (CAN): ON  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: Except P and N positions (0 V)  - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Status 1  - Ignition switch is in the ON position  - Selector lever P/N position signal: Except P and N positions (0 V)  - Interlock/PNP switch signal (CAN): OFF  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: P or N position (battery voltage)  - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Steering lock relay signal (Request signal)  • Steering lock relay signal (Condition signal)

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### < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Display contents of CONSULT	Fail-safe	Cancellation				
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent  • Steering lock relay signal (Request signal)  • Steering lock relay signal (Condition signal)				
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent  Starter motor relay control signal  Starter relay status signal (CAN)				
B2609: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status				
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>				
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	<ul><li>When any of the following conditions are fulfilled</li><li>Power position changes to ACC</li><li>Receives engine status signal (CAN)</li></ul>				
B2612: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When any of the following conditions are fulfilled  Steering lock unit status signal (CAN) is received normally  The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)				
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal				
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM b comes normal				
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal				
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization				
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled  • Status 1  - Clutch switch signal (CAN from ECM): ON  - Clutch interlock switch signal: OFF (0 V)  • Status 2  - Clutch switch signal (CAN from ECM): OFF  - Clutch interlock switch signal: ON (Battery voltage)				
B26E9: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled  • Steering condition No. 1 signal: LOCK (0 V)  • Steering condition No. 2 signal: LOCK (Battery voltage)				

## DTC Inspection Priority Chart

INFOID:0000000006845670

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT     U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Priority	DTC	
	B2013: ID DISCORD BCM-S/L     B2014: CHAIN OF S/L-BCM	
	<ul> <li>B2014: CHAIN OF S/L-BCW</li> <li>B2553: IGNITION RELAY</li> <li>B2555: STOP LAMP</li> <li>B2556: PUSH-BTN IGN SW</li> </ul>	
	<ul> <li>B2557: VEHICLE SPEED</li> <li>B2560: STARTER CONT RELAY</li> <li>B2601: SHIFT POSITION</li> <li>B2602: SHIFT POSITION</li> </ul>	
	<ul> <li>B2603: SHIFT POSI STATUS</li> <li>B2604: PNP SW</li> <li>B2605: PNP SW</li> <li>B2606: S/L RELAY</li> </ul>	
	<ul> <li>B2607: S/L RELAY</li> <li>B2608: STARTER RELAY</li> <li>B2609: S/L STATUS</li> <li>B260A: IGNITION RELAY</li> </ul>	
4	B260B: STEERING LOCK UNIT     B260C: STEERING LOCK UNIT     B260D: STEERING LOCK UNIT     B260F: ENG STATE SIG LOST	
	<ul> <li>B2612: S/L STATUS</li> <li>B2614: ACC RELAY CIRC</li> <li>B2615: BLOWER RELAY CIRC</li> <li>B2616: IGN RELAY CIRC</li> </ul>	
	<ul> <li>B2617: STARTER RELAY CIRC</li> <li>B2618: BCM</li> <li>B2619: BCM</li> <li>B261A: PUSH-BTN IGN SW</li> </ul>	
	B261E: VEHICLE TYPE     B26E8: CLUTCH SW     B26E9: S/L STATUS     B26EA: KEY REGISTRATION	
	<ul> <li>C1729: VHCL SPEED SIG ERR</li> <li>U0415: VEHICLE SPEED SIG</li> </ul>	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1709: IND DATA FL	
5	<ul> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1716: [NDESSDATA EDDIE]</li> </ul>	
	<ul> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1718: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RL</li> <li>C1734: CONTROL UNIT</li> </ul>	
6	B2621: INSIDE ANTENNA     B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA	
C Index	INFOID:000000	

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#### NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-19. "COM-MON ITEM"</u>:

CONSULT display	Fail-safe	Freeze Frame Data  •Vehicle Speed  •Odo/Trip Meter  •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_		BCS-42
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-43
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-44
B2013: ID DISCORD BCM-S/L*	×	×	_	_	SEC-52
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-53
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-44
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-47
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-48
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-50
B2195: ANTI SCANNING	×	_	_	_	<u>SEC-51</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-52
B2555: STOP LAMP		×	_	_	SEC-56
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-58
B2557: VEHICLE SPEED	×	×	×	_	SEC-60
B2560: STARTER CONT RELAY	×	×	×	_	SEC-61
B2562: LOW VOLTAGE	_	×	_	_	BCS-45
B2601: SHIFT POSITION	×	×	×	_	SEC-62
B2602: SHIFT POSITION	×	×	×	_	SEC-65
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-68
B2604: PNP SW	×	×	×	_	SEC-71
B2605: PNP SW	×	×	×	_	SEC-73
B2606: S/L RELAY*	×	×	×	_	<u>SEC-75</u>
B2607: S/L RELAY*	×	×	×	_	SEC-76
B2608: STARTER RELAY	×	×	×		<u>SEC-78</u>
B2609: S/L STATUS*	×	×	×	_	SEC-80
B260A: IGNITION RELAY	×	×	×	_	PCS-54
B260B: STEERING LOCK UNIT*		×	×		SEC-84
B260C: STEERING LOCK UNIT*	_	×	×		SEC-85
B260D: STEERING LOCK UNIT*	_	×	×		SEC-86
B260F: ENG STATE SIG LOST	×	×	×		SEC-87
B2612: S/L STATUS*	×	×	×		SEC-92
B2614: ACC RELAY CIRC		×	×		PCS-56
B2615: BLOWER RELAY CIRC	_	×	×		PCS-59
B2616: IGN RELAY CIRC	_	×	×	_	PCS-62
B2617: STARTER RELAY CIRC	×	×	X		SEC-96
B2618: BCM	×	×	×	_	PCS-65
B2619: BCM*	×	×			SEC-98
B261A: PUSH-BTN IGN SW		×	^ ×		PCS-66

### < ECU DIAGNOSIS INFORMATION >

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CONSULT display	Fail-safe	Freeze Frame Data  •Vehicle Speed  •Odo/Trip Meter  •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-99
B2621: INSIDE ANTENNA	_	×	_	_	DLK-278
B2622: INSIDE ANTENNA	_	×	_	_	• <u>DLK-83</u> (Coupe) • <u>DLK-280</u> (Road- ster)
B2623: INSIDE ANTENNA	_	×	_	_	• <u>DLK-85</u> (Coupe) • <u>DLK-282</u> (Road- ster)
B26E8: CLUTCH SW	×	×	×	_	<u>SEC-88</u>
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	SEC-90
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-91</u>
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT 00
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-23</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT 05
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT 20
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-28</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-32</u>

<sup>\*:</sup> For models without steering lock unit, this DTC is not applied.

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[ROADSTER]

# SOFT TOP CONTROL UNIT

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item		Condition	Status/Value
		Lock position	ON
ROOF LATCHED RH	State of roof lock is in roof	Other than above	OFF
	latch RH	Roof striker sensor RH circuit is open or short	NG
		Lock position	ON
ROOF LATCHED LH	State of roof lock is in roof	Other than above	OFF
NOON EMONES EN	latch LH	Roof striker sensor LH circuit is open or short	NG
		Lock	ON
F/CENTER LOCK	State of roof latch cylinder	Other than above	OFF
T/OLIVIER EGOR	State of roof later symmetr	Roof latch lock sensor circuit is open or short	NG
		Soft top is close	ON
R/RAIL RAISED LH	State of roof drive cylinder	Other than above	OFF
TOTO WE TO WOLD EIT	LH	Roof status sensor LH circuit is open or short	NG
		Soft top is close	ON
R/RAIL RAISED RH	State of roof drive cylinder	Other than above	OFF
1010111	RH	Roof status sensor RH circuit is open or short	NG
		Soft top is open	ON
R/RAIL LOWERED	State of roof drive cylinder	Other than above	OFF
.,,,,,,,	LH	Roof status sensor LH circuit is open or short	NG
		5th bow is close	ON
5TH BOW LOWERED	State of 5th bow drive cylin-	Other than above	OFF
	der LH	5th bow status sensor LH circuit is open or short	NG
		5th bow is open	ON
5TH BOW RAISED	State of 5th bow drive cylin-	Other than above	OFF
	der RH	5th bow status sensor RH circuit is open or short	NG
		Storage lid is open	ON
S/LID OPEN LH	State of storage lid drive cyl-	Other than above	OFF
	inder LH	Storage lid status sensor LH circuit is open or short	NG
		Storage lid is open	ON
S/LID OPEN RH	State of storage lid drive cyl-	Other than above	OFF
55	inder RH	Storage lid status sensor RH circuit is open or short	NG

#### < ECU DIAGNOSIS INFORMATION >

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Monitor Item		Condition	Status/Value
		Storage lid is close	ON
S/LID CLOSE RH	State of storage lid drive cyl-	Other than above	OFF
0,2.D 02002 TWT	inder RH	Storage lid status sensor RH circuit is open or short	NG
		Unlock	ON
5TH BOW LATCH OP	State of 5th bow latch cylin-	Other than above	OFF
om Bow Externol	der	5th bow latch open sensor circuit is open or short	NG
		Operate	ON
SWITCH VALVE 1	Operation of switching valve 1	Stop	OFF
	Valvo	Switching valve 1 circuit is short	NG
		Operate	ON
SWITCH VALVE 2	Operation of switching valve 2	Stop	OFF
	Valve 2	Switching valve 2 circuit is short	NG
		Operate	ON
SWITCH VALVE 3	Operation of switching valve 3	Stop	OFF
	valve J	Switching valve 3 circuit is short	NG
		Operate	ON
SWITCH VALVE 4	Operation of switching valve 4	Stop	OFF
	valve 4	Switching valve 4 circuit is short	NG
		Operate	ON
SWITCH VALVE 5	Operation of switching valve 5	Stop	OFF
	valve 5	Switching valve 5 circuit is short	NG
		Turning clockwise	ON
PUMP OUT (RH)	Operation of hydraulic pump motor	Other than above	OFF
	pump motor	Hydraulic pump motor (RH) circuit is short	NG
		Turning counterclockwise	ON
PUMP OUT (LH)	Operation of hydraulic	Other than above	OFF
	pump motor	Hydraulic pump motor (LH) circuit is short	NG
		Lock	ON
5TH BOW LATCH CL	State of 5th bow latch cylin-	Other than above	OFF
JIII BOW LAIGIT CL	der	5th bow latch close sensor circuit is open or short	NG
2005 014 (0051)	State of roof open/close	OPEN operation is in operation	ON
ROOF SW (OPEN)	switch	Other than above	OFF
DOOE OW (O) OSE'	State of roof open/close	CLOSE operation is in operation	ON
ROOF SW (CLOSE)	switch	Other than above	OFF
OLUET D. CLONIA!	Ohitta a a siti a s	R position	ON
SHIFT R SIGNAL	Shift position	Other than R position	OFF
EDINIK OPEN OF	Operation of trunk lid open-	OPEN operation is in operation	ON
TRUNK OPEN OUT	er actuator	Other than above	OFF
THE DOCUMENT	Thermo protection hydraulic	In non-operation	OK
THER PROTEC PUMP	pump	In operation	NG
	Thermo protection soft top	In non-operation	OK
THER PROTEC RCU	control unit	In operation	NG

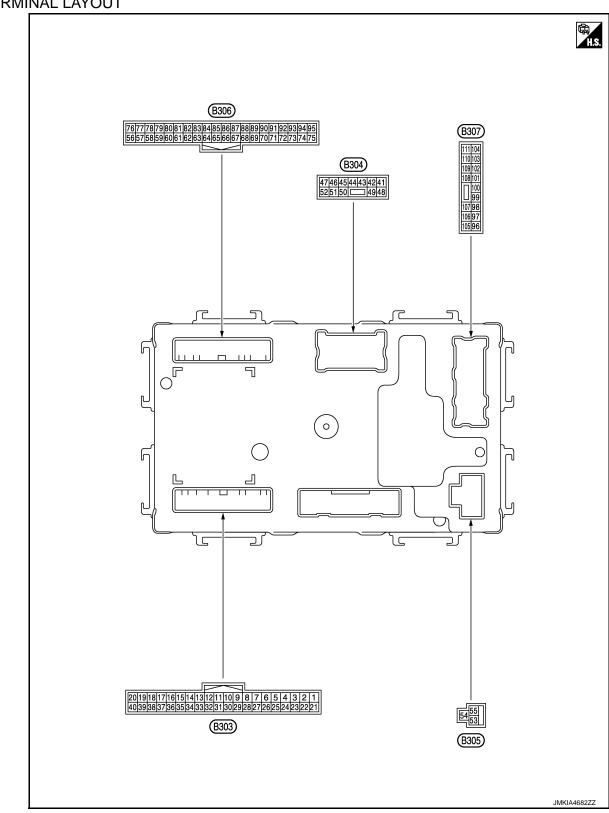
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# < ECU DIAGNOSIS INFORMATION >

LCO DIAGNOSIS II	I ORIVITATION >		•
Monitor Item		Condition	Status/Value
PWR COND RCU	Power supply voltage state	Normal	OK
PWR COND RCO	of soft top control unit	Malfunction	NG
PWR COND P/W	Power supply voltage state	Normal	OK
FWK COND F/W	of power window	Malfunction	NG
		Normal	OK
LOCAL COMM 1	State of local communication 1	It is in sleep mode	SLEEP
		Communication error	NG
		Normal	OK
LOCAL COMM 2	State of local communication 2	It is in sleep mode	SLEEP
		Communication error	NG
REAR DEF OUT	Operation of rear window	Roof position is full close	OK
REAR DEF OUT	defogger	Other than above	NG
		5th bow striker is in 5th bow latch	ON
5BOW STRIK LATCH	State of 5th bow latch	Other than above	OFF
		5th bow striker sensor circuit is open or short	NG
P/W OP REQ SW SIG	State of request switch sig-	OPEN operation is in operation	ON
P/W OP REQ SW SIG	nal	Stop	OFF
PROHIBIT P/W UP	Prohibit of power window up	In operation	ON
TROTTIDIT F/W UF	Frombit of power willidow up	In non-operation	OFF
GN ON SIG(BCM)	Power position signal	Ignition switch ON	ON
GIN OIN SIG(DOINI)	Fower position signal	Other than above	OFF
RF OP REQ SW SIG	State of request switch sig-	OPEN operation is in operation	ON
NI OF NEW 3W 3IG	nal	Stop	OFF

[ROADSTER]

TERMINAL LAYOUT



PHYSICAL VALUES

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	nal No. color)	Description		Condition		Value
+	_	Signal name	Input/ Output	Condition		(Approx.)
1 (BR)	Ground	Sensor power supply (Roof striker sensor LH)	Output	[Engine is running]		12 V
3 (DG)	Ground	Roof striker sensor RH	Input	[Engine is running] • Roof lock assembly	Hooked Released	0.8 V 3.0 V
4 (W)	Ground	Roof striker sensor LH	Input	[Engine is running] • Roof lock assembly	Hooked Released	0.8 V 3.0 V
8 (Y)	Ground	Back up lamp signal	Input	[Ignition switch: ON] • Shift position	R position Other than above	Battery voltage 0 V
9 (SB)	Ground	Power source (Power window)	Input	[Ignition switch: OFF]		Battery voltage
10		Trunk lid open re-		[Ignition switch: ON]	Operate	$0 \text{ V} \rightarrow \text{Battery voltage} \rightarrow 0 \text{ V}$
(O)	Ground	quest signal (BCM)	Input	Trunk opener	Other than above	0 V
11	Ground	Roof status signal	Output	[Engine is running]	Illuminate	0 V
(O)	Ground	(Indicator lamp)	Output	Soft top indicator lamp	Not illuminate	Battery voltage
12		Roof status signal		[Engine is running]	Fully open	9.5 V
(SB)	Ground	(Audio)	Output	Soft top system	Other than above	0 V
14	Ground	Roof open/close switch	Innut	[Engine is running]	Pressed	0 V
(L)	Giouna	(Close)	Input	Close switch	Released	Battery voltage
15 (LG)	Ground	Roof open/close switch (Open)	Input	<ul><li>[Engine is running]</li><li>Open switch</li></ul>	Pressed Released	0 V  Battery voltage
		(-1)			Open	0 V
16 (V)	Ground	Trunk room lamp switch	Input	[Ignition switch: ON] • Trunk lid	Other than above	Battery voltage
17 (BG)	Ground	CAN-H	Input/ Output	_	I	_
18 (P)	Ground	CAN-L	Input/ Output			_
19 (LG)	Ground	Local communication (Power window)	Input/ Output	_		(V) 15 10 5 0 ++10ms JMKIA4024GB
20 (V)	Ground	Local communication (BCM)	Input/ Output	_		(V) 15 10 5 0 ++10ms JMKIA4024GB

#### < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

	nal No. color)	Description		0		Value
+	_	Signal name	Input/ Output	Condition		(Approx.)
21 (BR)	Ground	Sensor power supply (Roof striker sensor RH)	Output	[Engine is running]		12 V
29 (DG)	Ground	Ground	_	_		_
35 (P)	Ground	Ground (Roof open/close switch)	_	_		_
41 (DG)	Ground	Trunk lid opener actuator  Output  Trunk lid opener		Trunk lid opener	Operate Stop	0 V → Battery voltage → 0 V 0 V
48 (R)	Ground	Power source (Rear window defog- ger)	Input	[Engine is running]  Rear window defogger	Active  Not active	Battery voltage 0 V
49 (R)	Ground	Power source (Rear window defog-	Input	[Engine is running]  • Rear window defogger  Not active		Battery voltage 0 V
53 (R)	Ground	ger) Power source (Roof)	Input [Engine is running]		Battery voltage	
54 (B)	Ground	Ground (Roof)	_	_		_
56 (W)	Ground	5th bow latch close sensor Input		[Engine is running] • 5th bow latch	Lock Other than above	0.8 V 3.0 V
57		5th bow latch open		[Engine is running]	Unlock	0.8 V
(G)	Ground	sensor	Input	5th bow latch	Other than above	3.0 V
58	Ground	Storage lid status sensor RH	Input	[Engine is running]	Full open Other than	0.8 V
(LG)		(Open)		Storage lid	above	3.0 V
59	Ground	Storage lid status sensor RH	Input	[Engine is running]	Full close	0.8 V
(W)	Ciodila	(Close)	put	Storage lid	Other than above	3.0 V
60	Ground	Storage lid status sensor LH	Input	[Engine is running]	Full open	0.8 V
(DG)	Signia	(Open)		Storage lid	Other than above	3.0 V
61	0	Roof status sensor	le	[Engine is running]	Raised	0.8 V
(Y)	Ground	RH (Close)	Input	Soft top	Other than above	3.0 V
66		Roof status sensor		[Engine is running]	Lowered	0.8 V
(L)	Ground	LH (Open)	Input	• Soft top	Other than above	3.0 V
68	Ground	5th bow status sen-	Input	[Engine is running]	Raised	0.8 V
(P)	Ground	sor RH	Input	• 5th bow	Other than above	3.0 V
69		Roof status sensor		[Engine is running]	Raised	0.8 V
(V)	Ground	LH (Close)	Input	• Soft top	Other than above	3.0 V

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	nal No. color)	Description		0 1111		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
				r= · · · · ·	Lowered	0.8 V	
70 (O)	Ground	5th bow status sen- sor LH	Input	[Engine is running] • 5th bow Other the above		3.0 V	
71		Roof latch lock sen-		[Engine in rupping]	Lock	0.8 V	
(SB)	Ground	sor	Input	Roof lock assembly	[Engine is running]  • Roof lock assembly  Other than above		
72 (W/R)	Ground	Hydraulic pump tem- perature sensor	Input	[Engine is running]		0 - 4.8 V Output voltage varies with hy- draulic pump temperature.	
73	0	Hydraulic pump relay	lanat	[Engine is running]	Active	12 V	
(R)	Ground	2 ON signal	Input	<ul> <li>Hydraulic pump motor (Right rotation)</li> </ul>	Inactive	0 V	
74		Hydraulic pump relay		[Engine is running]	Active	12 V	
(R/B)	Ground	1 ON signal	Input	<ul> <li>Hydraulic pump motor (Left rotation)</li> </ul>	Inactive	0 V	
75 (BR)	Ground	Sensor power supply (Roof status sensor LH//5th bow latch open sensor/5th bow latch close sensor/ 5th bow striker sen- sor)	Output	[Engine is running]		12 V	
76	Ground	5th bow striker sen-	Input	[Engine is running]	Hooked	0.8 V	
(L)		sor	•	5th bow striker     Released		3.0 V	
92 (BG)	Ground	Sensor ground (Hydraulic pump temperature sensor)	_	_		_	
93 (BR)	Ground	Sensor power supply (Roof status sensor RH/Storage lid status sensor RH)	Output	[Engine is running]		12 V	
94 (BR)	Ground	Sensor power supply (Roof latch lock sen- sor/5th bow status sensor LH)	Output	[Engine is running]		12 V	
95 (BR)	Ground	Sensor power supply (Storage lid status sensor/5th bow sta- tus sensor RH)	Output	[Engine is running]		12 V	
96	Ground	Switching valve 4	Output	[Engine is running]	Active	12 V	
(W)		<u> </u>		Switching valve 4	Inactive	0 V	
97 (LG)	Ground	Switching valve 3	Output	<ul><li>[Engine is running]</li><li>Switching valve 3</li></ul>	Active	12 V	
					Inactive	0 V	
98 (L)	Ground	Switching valve 2	Output	<ul><li>[Engine is running]</li><li>Switching valve 2</li></ul>	Active	12 V 0 V	
				•	Active	12 V	
99 (O)	Ground	Switching valve 1	Output	<ul><li>[Engine is running]</li><li>Switching valve 1</li></ul>	Inactive	0 V	
		I balance at the second		[Engine is running]	Active	12 V	
100 (BR)	Ground	Hydraulic pump relay 2	Output	Hydraulic pump motor			

#### < ECU DIAGNOSIS INFORMATION >

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	nal No. color)	Description		Condition		Value
+	_	Signal name	Input/ Output	Condition		(Approx.)
101	0	Hydraulic pump relay	0 1 1	[Engine is running]	Active	12 V
(SB)	Ground	1	Output	<ul> <li>Hydraulic pump motor (Left rotation)</li> </ul>	Inactive	0 V
102	Ground	Switching valve 5	Output	[Engine is running]	Active	12 V
(P)	Giodila	Switching valve 5	Output	<ul> <li>Switching valve 5</li> </ul>	Inactive	0 V
103 (B)	Ground	Hydraulic unit ground	_	_		_
				[Engine is running]	Active	Battery voltage
104 (R)	Ground	Rear window defog- ger power supply	Output	<ul> <li>Rear window defogger NOTE: Roof is fully closed.</li> </ul>	Not active	0 V
		Rear window defog- ger power supply  Output		[Engine is running]	Active	Battery voltage
111 (R)	Ground		Rear window defogger     NOTE:     Roof is fully closed.	Not active	0 V	

Fail-safe

#### FAIL-SAFE CONTROL BY DTC

Soft top control unit performs fail-safe control when any of the following DTCs is detected.

	Display contents of CONSULT-III	Fail-safe	Cancellation
U1000	CAN COMM CIRCUIT	Inhibit soft top operation.	Communication is normal.
U1010	CONTROL UNIT (CAN)	Inhibit soft top operation.	Communication is normal.
U0140	LOCAL COMM-1	Inhibit soft top operation.	Communication is normal.
U0215	LOCAL COMM-2	Inhibit soft top operation.	Communication is normal.
B1701	ROOF CONTROL UNIT	Inhibit soft top operation.	Replace soft top control unit.
B1702	ROOF CONTROL UNIT	Inhibit soft top operation.	Replace soft top control unit.
B1709	ROOF SWITCH(OPEN)	Inhibit soft top operation.	Detects roof open/close switch (OPEN) is OFF.
B170A	ROOF SWITCH(CLOSE)	Inhibit soft top operation.	Detects roof open/close switch (CLOSE) is OFF.
B170F	SENSOR POWER SUPPLY	Inhibit soft top operation.	Detects normal value.
B171A	HYDRAULIC PMP(LH)	Inhibit soft top operation.	Detects normal value.
B171B	HYDRAULIC PMP(RH)	Inhibit soft top operation.	Detects normal value.
B171C	SWITCHING VALVE 1	Inhibit soft top operation.	Detects normal value.
B171D	SWITCHING VALVE 2	Inhibit soft top operation.	Detects normal value.
B172C	ROOF STATE SIG(TRUNK)*	Inhibit soft top operation.	Detects normal value.
B1731	HYDRAULIC STATE 1	Inhibit soft top operation.	Turn ignition switch OFF.
B1758	THERMO PROTECTION	Inhibit soft top operation.	Turn ignition switch OFF and wait at least 5 minutes.
B175C	PWR SOURCE(ROOF)	Inhibit soft top operation.	Power source is 11.4 (V) or more for 0.5 second.
B175D	PWR SOURCE(ROOF)	Inhibit soft top operation.	Power source is14.5 (V) or more for 4 seconds.
B175E	PWR SOURCE(WINDOW)	Inhibit soft top operation and rear power window operation.	Power source (power window) is 9.5 (V) or more.
B175F	PWR SOURCE(WINDOW)	Inhibit soft top operation and rear power window operation.	Power source (power window) is 15.5 (V) or more.
B1766	SWITCHING VALVE 3	Inhibit soft top operation.	Detects normal value.
B1767	SWITCHING VALVE 4	Inhibit soft top operation.	Detects normal value.

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### < ECU DIAGNOSIS INFORMATION >

	Display contents of CONSULT-III	Fail-safe	Cancellation
B1768	SWITCHING VALVE 5	Inhibit soft top operation.	Detects normal value.
B176A	THERMO PROTECTION	Inhibit soft top operation.	Turn ignition switch OFF and wait at least 5 minutes.
B176B	ROOF WARNING LAMP	Inhibit soft top operation.	Detects normal value.
B176C	STRIKER SENSOR RH	Inhibit soft top operation.	Detects normal value.
B176D	STRIKER SENSOR LH	Inhibit soft top operation.	Detects normal value.
B176E	ROOF LATCH LOCK SEN- SOR	Inhibit soft top operation.	Detects normal value.
B176F	ROOF STATUS SEN LH	Inhibit soft top operation.	Detects normal value.
B1770	ROOF STATUS SEN RH	Inhibit soft top operation.	Detects normal value.
B1771	ROOF STATUS SEN LH	Inhibit soft top operation.	Detects normal value.
B1772	5BOW STATUS SEN LH	Inhibit soft top operation.	Detects normal value.
B1773	5BOW STATUS SEN RH	Inhibit soft top operation.	Detects normal value.
B1774	S/LID STATUS SEN LH	Inhibit soft top operation.	Detects normal value.
B1775	S/LID STATUS SEN RH	Inhibit soft top operation.	Detects normal value.
B1776	S/LID STATUS SEN RH	Inhibit soft top operation.	Detects normal value.
B1777	REAR DEF OUT SIG	Inhibit soft top and rear window defogger operation.	Detects normal value.
B1778	TRUNK OPEN OUT SIG	Inhibit soft top and trunk lid opener actuator operation.	Detects normal value.
B1779	THERMO PROTECTION	Inhibit soft top operation.	Detects normal value.
B177A	ROOF STATE INCORRECT	Inhibit soft top operation.	Detects normal value.
B177B	ROOF STATE INCORRECT	Inhibit soft top operation.	Detects normal value.
B177C	THERMO PROTECTION	Inhibit soft top operation.	Detects normal value.
B177D	5BOW LATCH OPEN SEN	Inhibit soft top operation.	Detects normal value.
B177E	5BOW LATCH CLOSE SEN	Inhibit soft top operation.	Detects normal value.
B177F	5BOW STRIKER SENSOR	Inhibit soft top operation.	Detects normal value.

<sup>\*:</sup> This item indicates the roof status signal (Audio).

### DTC Inspection Priority Chart

INFOID:0000000006353966

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

Priority	Display contents of CONSULT-III		
	U1000	CAN COMM CIRCUIT	
	U1010	CONTROL UNIT (CAN)	
	B170F	SENSOR POWER SUPPLY	
	B175C	PWR SOURCE(ROOF)	
1	B175D	PWR SOURCE(ROOF)	
	B175E	PWR SOURCE(WINDOW)	
	B175F	PWR SOURCE(WINDOW)	
	B1701	ROOF CONTROL UNIT	
	B1702	ROOF CONTROL UNIT	

< ECU DIAGNOSIS INFORMATION >

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Priority		Display contents of CONSULT-III
	B1709	ROOF SWITCH(OPEN)
	B170A	ROOF SWITCH(CLOSE)
	B176B	ROOF WARNING LAMP
	B176C	STRIKER SENSOR RH
	B176D	STRIKER SENSOR LH
	B176E	ROOF LATCH LOCK SEN
	B176F	ROOF STATUS SEN LH
	B1770	ROOF STATUS SEN RH
2	B1771	ROOF STATUS SEN LH
	B1772	5BOW STATUS SEN LH
	B1773	5BOW STATUS SEN RH
	B1774	S/LID STATUS SEN LH
	B1775	S/LID STATUS SEN RH
	B1776	S/LID STATUS SEN RH
	B177D	5BOW LATCH OPEN SEN
	B177E	5BOW LATCH CLOSE SEN
	B177F	5BOW STRIKER SENSOR
	U0140	LOCAL COMM-1
	U0215	LOCAL COMM-2
	B171A	HYDRAULIC PMP(LH)
	B171B	HYDRAULIC PMP(RH)
	B171C	SWITCHING VALVE 1
	B171D	SWITCHING VALVE 2
	B172C	ROOF STATE SIG(TRUNK)*
	B1731	HYDRAULIC STATE 1
	B1758	THERMO PROTECTION
3	B1766	SWITCHING VALVE 3
	B1767	SWITCHING VALVE 4
	B1768	SWITCHING VALVE 5
	B176A	THERMO PROTECTION
	B1777	REAR DEF OUT SIG
	B1778	TRUNK OPEN OUT SIG
	B1779	THERMO PROTECTION
	B177A	ROOF STATE INCORRECT
	B177B	ROOF STATE INCORRECT
	B177C	THERMO PROTECTION

<sup>\*:</sup> This item indicates the roof status signal (Audio).

DTC Index

#### NOTE:

For details of Freeze Frame Data, refer to RF-29, "CONSULT-III Function".

	Display contents of CONSULT-III	Fail-safe	Freeze Frame Data	Reference page
No DTC is o	detected. Further testing may be required.	_	_	_
U1000	CAN COMM CIRCUIT	×	×	<u>RF-70</u>

	Display contents of CONSULT-III	Fail-safe	Freeze Frame Data	Reference pag
U1010	CONTROL UNIT (CAN)	×	×	<u>RF-71</u>
U0140	LOCAL COMM-1	×	×	<u>RF-72</u>
U0215	LOCAL COMM-2	×	×	<u>RF-73</u>
B1701	ROOF CONTROL UNIT	×	×	<u>RF-75</u>
B1702	ROOF CONTROL UNIT	×	×	<u>RF-76</u>
B1709	ROOF SWITCH-OPEN	×	×	<u>RF-77</u>
B170A	ROOF SWITCH-CLOSE	×	×	<u>RF-79</u>
B170F	SENSOR POWER SUPPLY	×	×	<u>RF-81</u>
B171A	HYDRAULIC PMP(LH)	×	×	<u>RF-84</u>
B171B	HYDRAULIC PMP(RH)	×	×	<u>RF-87</u>
B171C	SWITCHING VALVE 1	×	×	<u>RF-90</u>
B171D	SWITCHING VALVE 2	×	×	<u>RF-92</u>
B172C	ROOF STATE SIG(TRUNK)*	×	×	<u>RF-94</u>
B1731	HYDRAULIC STATE 1	×	×	<u>RF-96</u>
B1758	THERMO PROTECTION	×	×	<u>RF-97</u>
B175C	PWR SOURCE(ROOF)	×	×	<u>RF-98</u>
B175D	PWR SOURCE(ROOF)	×	×	RF-99
B175E	PWR SOURCE(WINDOW)	×	×	<u>RF-100</u>
B175F	PWR SOURCE(WINDOW)	×	×	<u>RF-102</u>
B1766	SWITCHING VALVE 3	×	×	<u>RF-104</u>
B1767	SWITCHING VALVE 4	×	×	RF-106
B1768	SWITCHING VALVE 5	×	×	RF-108
B176A	THERMO PROTECTION	×	×	RF-110
B176B	ROOF WARNING LAMP	×	×	<u>RF-111</u>
B176C	STRIKER SENSOR RH	×	×	RF-113
B176D	STRIKER SENSOR LH	×	×	<u>RF-115</u>
B176E	ROOF LATCH LOCK SEN	×	×	<u>RF-117</u>
B176F	ROOF STATUS SEN LH	×	×	<u>RF-119</u>
B1770	ROOF STATUS SEN RH	×	×	<u>RF-121</u>
B1771	ROOF STATUS SEN LH	×	×	RF-123
B1772	5BOW STATUS SEN LH	×	×	RF-125
B1773	5BOW STATUS SEN RH	×	×	RF-127
B1774	S/LID STATUS SEN LH	×	×	RF-129
B1775	S/LID STATUS SEN RH	×	×	RF-131
B1776	S/LID STATUS SEN RH	×	×	RF-133
B1777	REAR DEF OUT SIG	×	×	RF-135
B1778	TRUNK OPEN OUT SIG	×	×	RF-136
B1779	THERMO PROTECTION	×	×	RF-138
B177A	ROOF STATE INCORRECT	×	×	RF-140
B177B	ROOF STATE INCORRECT	×	×	RF-141
B177C	THERMO PROTECTION	×	×	RF-142
B177D	5BOW LATCH OPEN SEN	×	×	RF-143
B177E	5BOW LATCH CLOSE SEN	×	×	RF-145
B177F	5BOW STRIKER SENSOR	×	×	RF-147

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

\*: This item indicates the roof status signal (Audio).

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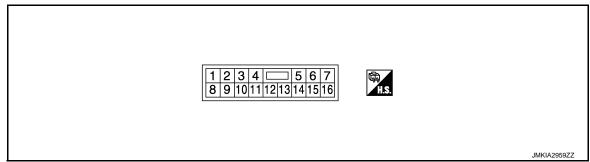
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[ROADSTER]

# **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	Gondalon	(Approx.)	
1 (W)	Ground	Battery power supply	Input	_	12	
4 (Y)	Ground	Driver side door switch	Input	OFF (Door close)	(V) 15 10 5 0 JPMIA0011GB	
				ON (Door open)	0	
5 (O)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window adjusting operates	12	
6 (GR)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral → Locked)	5 → 0	
7 (V)	Ground	Door key cylinder switch UN- LOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0	
8 (L)	Ground	Driver side power window motor UP signal	Output	When power window main switch (Driver side) is operated UP	12	
9 (LG)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms	
10	0	1	1	IGN SW ON	12	
(Y)	Ground	Ignition switch power signal	Input	IGN SW OFF	0	

# **POWER WINDOW MAIN SWITCH**

# < ECU DIAGNOSIS INFORMATION >

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	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Containon	(Approx.)
11 (BR)	Ground	Driver side power window motor DOWN signal	Output	When power window main switch (Driver side) is op- erated DOWN	12
12 (SB)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 0 JPMIA0013GB
13 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms JMKIA0070GB
14 (G)	Ground	Encoder ground	_	_	0
15 (B)	Ground	Ground	_	_	0

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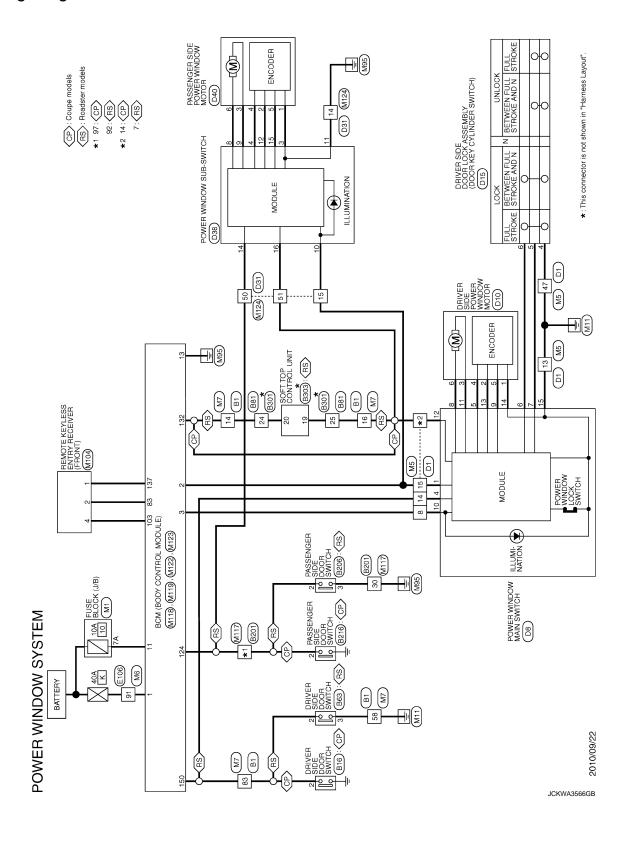
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Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

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# **POWER WINDOW MAIN SWITCH**

< ECU DIAGNOSIS INFORMATION >

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> 8 8 8 8 > 0 9 > 1 0 8	С
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freation]	Е
Signal Name [Specification]	F
	G
Connector No.  Connector Name  Connector Name	Н
models] models] models] models] models] rmodels] rmodels]	I
- [Coupe models] - [Roadster models] - [Coupe models]	J
B B B C C C C B B B C C C C B B B B C C C C C C B B B B C	PW
46 46 46 46 46 47 47 47 47 47 47 48 48 68 68 68 68 68 68 69 69 69 69 69 69 69 69 69 69 69 69 69	
	L
WIRE CSIG-TM4  CSIG-TM4  Signal Name [Specification]  Signal Name [Specification]	M
Connector No.   Bit   Connector No.   Connector No.   Bit   Connector Type   TH80FW-CS16-TM4	
WINDOW S  WHE TO WHE  Signal	N
Commerciar Type   Commerciar	0
JCKWA3567GB	i
	Р

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POWE	×				- 1		
Connector No	4o. B201	69	7	ı	lal	Signal Name [Specification]	Connector No. B303
Connector Name	NIRE TO WIRE	07 62	5 E	1 1	No. of Wire	1	Connector Name SOFT TOP CONTROL UNIT
Connector Type	TH80FW-CS16-TM4	73	-	- [Coupe models]	3 8	=	Connector Type TH40FB-NH
		73	8 0	- [Roadster models]			
N E	11 E 10 10 10 10 10 10 10 10 10 10 10 10 10	74		- [Roadster models]	Connector No.	B216	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75	W	- [Coupe models]	American Manager	DASSENCED SIDE DOOD SWITCH	<u> </u>
		75	В	- [Roadster models]			20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
		76	а :	1	Connector Type	A03FW	
		08 7	> 8	1	Œ		
	- «	<del>-</del> 5	g (	1	F	K	₽
lerminal	Color Signal Name [Specification]	78 87	9 0	1	Š	K	Signal Name [Specification]
t		3 8	r 3	1 1		I	2 0
1,	Donata modela	80	: 0	1		7	DOOR CIDINGS CENCOR DI
,		t	SHIFLD	1			? ≥
	B = [Boadster models]	t		ı			: >
4		88	BH BH	1	Terminal Golor	L	SB POWER C
7	R - [Coupe models]	88	>	1	_	Signal Name [Specification]	╀
_		t	SHIELD	1	2 LG	1	O ROOI
89	- PI	95	SB	- [Coupe models]			L
6	, ,	95	re	- [Roadster models]			ROC
=	1	93	>	- [Coupe models]	Connector No.	B301	15 LG ROOF OPEN / CLOSE SWITCH (OPEN)
20		93	м	- [Roadster models]			>
21	1	T	SHIELD	- [Coupe models]	Connector Name		BG
30	- 1	94	9	- [Roadster models]	Connector Type	TH40MW-NH	18 P CAN-L
40		92	GR	- [Coupe models]	ą		19 LG LOCAL COMMUNICATION (POWER WINDOW)
41	- ^	92	FG	- [Roadster models]	唐		20 V LOCAL COMMUNICATION (BCM)
42	- 5	97	PT	- [Coupe models]	\$ <del> </del>		21 BR SENSOR POWER SUPPLY (ROOF STRIKERSENSOR RH)
43		97	FG	- [Roadster models]			Г
44	SB	66	<b>,</b>	- [Roadster models]	1 2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	35 P ROOF OPEN / CLOSE SWITCH (GND)
51		86	W	- [Coupe models]	72712	0H 250 050 170 050 150 150 150 150 150 150 150 150 15	
Н	T	Н	Y/B	- [Roadster models]			
53	SHIELD -	66	G	-			
54	BR -	100	BR	- [Coupe models]	lal	Constitutions [Secretarion]	
П		100	Υ	- [Roadster models]	No. of Wire		
99	SHIELD -				4 LG	-	
57	G - [Coupe models]				2 F	1	
22	P - [Roadster models]	Connector No.	o. B206		9 9	-	
28	R - [Coupe models]	Connector Name		DASSENGED SIDE DOOD SWITCH	8	-	
28	L - [Roadster models]	Collifector in		INGEN SIDE DOOR SMILOH	. A	1	
69	- 8	Connector Type	ype A03FW		14 BR	-	
09	M	4	1		15 BR	1	
19	GR -	F			16 W	1	
62	- 8	S.		$\bigcirc$	F	1	
63	_				24 V	1	
64	- ^			[0	25 LG	-	
92	SB -			1 0	31 BG	-	
99	Bg			m	32 P	1	
- 69	>				H	1	
89	- 4				35 SB	1	
					ł		

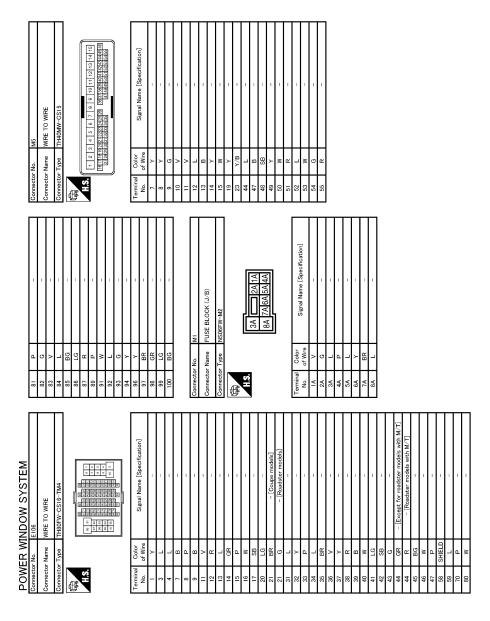
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# **POWER WINDOW MAIN SWITCH**

[ROADSTER]

Connector No.   D38   Connector Name   POWER WINDOW SUB-SWITCH		A B C
Color   Signal Name   Speedification]   Color		E F
Terminal		G
Signal Name [Specification]		J
Terminal   Color		PWC
V SYSTEM		L M
NWRE TO   NWRE		Ν
Connector No.	JCKWA3569GB	O
		Р

**PWC-185** 2011 370Z Revision: 2011 October



JCKWA3570GB

# **POWER WINDOW MAIN SWITCH**

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Second   S	А
- [Roadster models] - [Coupe models] - [Roadster models] - [Coupe models] - [Roadster models]	В
	С
1   1   1   1   1   1   1   1   1   1	D
models] models]	Е
- (Coupe models) - (Coupe models) - (Coupe models) - (Coupe models)	F
	G
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Н
[leation]	I
The Towner Signal Name (Specification)  Signal Name (Specification)	J
WWR TO COLOR OF COLOR	J
No.   Connector No.   Connector Type   S.   Connector No.   Connector Type   S.   Connector No.   Connector	PW
[[voj	L
WWRE CSIG-TM4  CSIG-TM4  Signal Name (Specification)  Signal Name (With AVT)  - [With AVT]  - [With MVT]  - [With	M
WINE TO WRE THEOMY-CSIG-TM4 Signal Name  Signal Name  - Wine - Wine	
MINDOW S WIRE TO WIRE THEOMM-CSSIG	N
Connector Name   Conn	0
G 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JCKWA3571GB
	Р

**PWC-187** 2011 370Z Revision: 2011 October

POWE	R WIN	POWER WINDOW SYSTEM	Į	$\left. \right $								
Connector No.	No. M117	11.17	9	1 69	1	က	>	POWER WINDOW POWER SUPPLY (IGN)	80	В	NATS ANT AMP.	
Connector Name		WIRE TO WIRE		+	'				18	× (	NATS ANT AMP.	
T softon	Т	ENT STOO WINDOUT	<u>`</u>	+		,	Γ		8 8	٤ (	IGN RELAY (F/B) CONI	
Connector	٦.	H8UMW-CS10-1M4	]	+		Connector No.	Τ	8118	3 5	5	KYLS ENI RECEIVER (FRONT) COMM	
<b>€</b>			<u> </u>	+		Connector Name		BCM (BODY CONTROL MODULE)	8	¥ >	COMBI SW INPUT 5	
	_	(A)	ľ	+		c	Т	00 11000	8 8	> 6	COMBI SW INPOL S	
Ś		8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ľ	+	1	connector Type	7	NSI0FW-CS	ŝ	ž (	WS HOUSE	
		表 B 表 B 表 B 表 B	8 3	08 5		1			98	<u>.</u>	CAN-L	
			°l°	+		ŧ,			5 8	-	CAN-H	
	<u> </u>	28	~	+	-	HS	Ŀ		35	5	KEY SLOT ILL	
			∞	4	1		4	5 6 7 0 8	83	>	ON IND	
			∞	84 R	-		Ŧ	12 13 14 15 16 17 18 19	92	0	ACC RELAY CONT	
Г	Color	Signal Name [Specification]	∞	┪	-				96	>	A/T SHIFT SELECTOR POWER SUPPLY	
No.	of Wire	Ogna varie [openication]	œ	86 SHIELD	OTE				97	٦	S/L CONDITION 1	
2	GR	- [Coupe models]	8	87 G	-				86	Ь	S/L CONDITION 2	
2	re	- [Roadster models]	αŏ	1 88		Terminal	Color	Cinnal Mana Connection	66	Я	CLUTCH PEDAL POS SW [With M/T]	
3	0	- [Coupe models]	80	89 P	- [Coupe models]	No.	of Wire	orginal wante Lopechication	66	ч	SHIFT P [With A/T]	
3	В	- [Roadster models]	80	٧ 68	- [Roadster models]	4	œ	INTERIOR ROOM LAMP POWER SUPPLY	100	GR	PASSENGER DOOR REQUEST SW	
4	W	1	ō	90 SHIELD	- OTI	2	9	SUPER LOCK OUTPUT	101	٨	DRIVER DOOR REQUEST SW	
7	P	- [Coupe models]	ا ا	92 G	- [Coupe models]	æ	>	ALL DOOR, FUEL LID LOCK OUTPUT	102	0	BLOWER FAN MOTOR RELAY CONT	
7	¥	- [Roadster models]	92	Н	LG - [Roadster models]	6	5	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	103	ΓC	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	
8	ΓC		6	93 R	- [Coupe models]	11	BR	BAT (FUSE)	106	W	S/L UNIT POWER SUPPLY	
6	٨	1	6	83 ۱	- [Roadster models]	13	В	GND	107	ÐΠ	COMBI SW INPUT 1	
Ξ	œ	1	6	4 SHIELD	=LD - [Coupe models]	14	œ	PUSH-BUTTON IGNITION SWILL POWER	108	œ	COMBI SW INPUT 4	
20	5	1	٥	94 G		15	>	ACC IND	109	>	COMBI SW INPUT 2	
21	œ	1	٥	95 SB		17	Α	TURN SIGNAL RH (FRONT, SIDE)	110	а	HAZARD SW	
30	8	1	ð	17 Se		18	0	TURN SIGNAL LH (FRONT, SIDE)	Ξ	>	S/L UNIT COMM	
4	0	1	6	╀		61		ROOM LAMP TIMER CONTROL				
41	<b>&gt;</b>	1	6	┝								
42	ŋ	-	ත්	86	- [Coupe models]							
43	-	1	٥	98 Y/B	ľ	Connector No.	Γ	M122				
44	97		Ť	t								
<u>.</u>	3 ~	1	۔ ا	F	- [Coupe models]	Connector Name		BCM (BODY CONTROL MODULE)				
52	g		٢	╀	ľ	Connector Type	Г	TH40FB-NH				
Г	SHIELD	1		$\left\{ \right.$			1					
Г	FC	1				修						
55	>	1	Conn	Connector No.	M118	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
Г	SHIELD	1			П			(				
22	ŋ	- [Coupe models]	5	Connector Name	BOM (BODT CONTROL MODULE)		91 90 89 88	87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72				
22	۵	- [Roadster models]	Conn	Connector Type	e M03FB-LC		20 100	76 [56] 56 [56] 66 [76] 66 [66] [01] [01] [01] [01] [01]				
28	~	- [Coupe models]	4									
28	7	- [Roadster models]	彦	•								
29	8	1	7	ď		Terminal	Color					
99	М	1		1	7	N	of Wire	olgnai Name Lopecinication				
19	GR	1				72	_	ROOM ANT 2-				
62	В	1			7	73	Ь	ROOM ANT 2+				
63	Υ					74	SB	PASSENGER DOOR ANT-				
64	٦	_				75	BR	PASSENGER DOOR ANT+				
65	5	1	Tern	lal	or Signal Name [Specification]	76	>	DRIVER DOOR ANT-				
99	0	1	z	No. of Wire		77	PT	DRIVER DOOR ANT+				
67	>			Α.	+	78	_	ROOM ANT 1-				
89	۵	_	2	2 W	/ POWER WINDOW POWER SUPPLY (BAT)	79	œ	ROOM ANT 1+				

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POW	EK W	JOWER WINDOW SYSTEM			
Connector No.	or No.	M123	Connector No.	r No.	M124
Connector Name	or Name	BCM (BODY CONTROL MODULE)	Connector Name	r Name	WIRE TO WIRE
Connector Type	r Type	TH40FG-NH	Connector Type	r Type	TH40MW-CS15
唇 医			唇 医		
	151 150 123 1	(2) (2) (2) (2) (2) (2) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		1 2 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15   15 6 17 8 9 10 11 12 13 14 15   15 15 15 15 15 15 15 15 15 15 15 15 15
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
113	0	OPTICAL SENSOR	10	5	
114	۳	CLUTCH INTERLOCK SW	11	٨	-
115	0	SHOCK SENSOR	12	ΓC	-
116	SB	STOP LAMP SW 1	13	>	_
118	۵	STOP LAMP SW 2	14	В	_
119	SB	DR DOOR UNLOCK SENSOR	15	М	
121	۳	KEY SLOT SW	19	λ	
123	М	IGN F/B	23	A/B	1
124	57	PASSENGER DOOR SW	44	0	1
129	0	TRUNK LID OPENER CANCEL SW	20	Υ	
130	٦	REAR DEFOGGER SW	51	Υ	1
132	^	P/W SW & SOFT TOP C/U COMM [Roadster models]	52	SR	1
132	Υ	POWER WINDOW SW COMM [Coupe models]	53	Μ	1
133	9	PUSH BUTTON IGNITION SW ILL POWER	54	5	_
134	GR	LOCK IND	22	œ	_
137	Д	RECEIVER/SENSOR GND			
138	>	RECEIVER / SENSOR POWER SUPPLY			
139	٦	TIRE PRESS/KYLS ENT (REAR) RECEIV COMM			
140	5	P/N POSITION SW [With M/T]			
140	9	SHIFT N/P [With A/T]			
141	Y	SECURITY INDICATOR			
142	0	COMBI SW OUTPUT 5			
143	Ь	COMBI SW OUTPUT 1			
144	9	COMBI SW OUTPUT 2			
145	7	COMBI SW OUTPUT 3			
146	SB	COMBI SW OUTPUT 4			
150	GR	DRIVER DOOR SW			
151	9	REAR WINDOW DEFOGGER RELAY CONT			
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# Fail-Safe

## **FAIL-SAFE CONTROL**

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

## **POWER WINDOW MAIN SWITCH**

[ROADSTER]

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

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

- Auto-up operation
- Anti-pinch function
- Automatic window adjusting function
- Retained power operation

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 switch or in motor.

# **POWER WINDOW SUB-SWITCH**

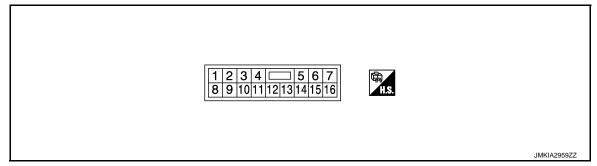
< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

# POWER WINDOW SUB-SWITCH

Reference Value

**TERMINAL LAYOUT** 



## PHYSICAL VALUES

inal No. e color)	Description		Condition	Voltage [V]
-	Signal name	Input/ Output	Condition	(Approx.)
Ground	Encoder ground	_	_	0
Ground	Encoder power supply	Output	When ignition switch ON or automatic window operates adjusting	12
Ground	Power window motor UP signal	Output	When power window motor is operated UP	12
Ground	Power window motor DOWN signal	Output	When power window motor is operated DOWN	12
Ground	Battery power supply	Input	_	12
Ground	Ground	_	_	0
Ground	Encoder pulse signal 1	Input	When power window motor operates	(V) 6 4 2 0 10 ms
Ground	Passenger side door switch	Input	OFF (Door close)	(V) 15 10 5 0 JPMIA0011GB
	Ground Ground Ground Ground Ground Ground	- Signal name  Ground Encoder ground  Ground Encoder power supply  Ground Power window motor UP signal  Ground Power window motor DOWN signal  Ground Battery power supply  Ground Ground  Ground Encoder pulse signal 1	- Signal name Input/Output  Ground Encoder ground —  Ground Encoder power supply Output  Ground Power window motor UP signal Output  Ground Battery power supply Input  Ground Ground —  Ground Encoder power supply Input  Input  Ground Encoder pulse signal 1 Input	Ground Encoder ground — — When ignition switch ON or automatic window operates adjusting  Ground Power window motor UP signal Output UP signal Output

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# **POWER WINDOW SUB-SWITCH**

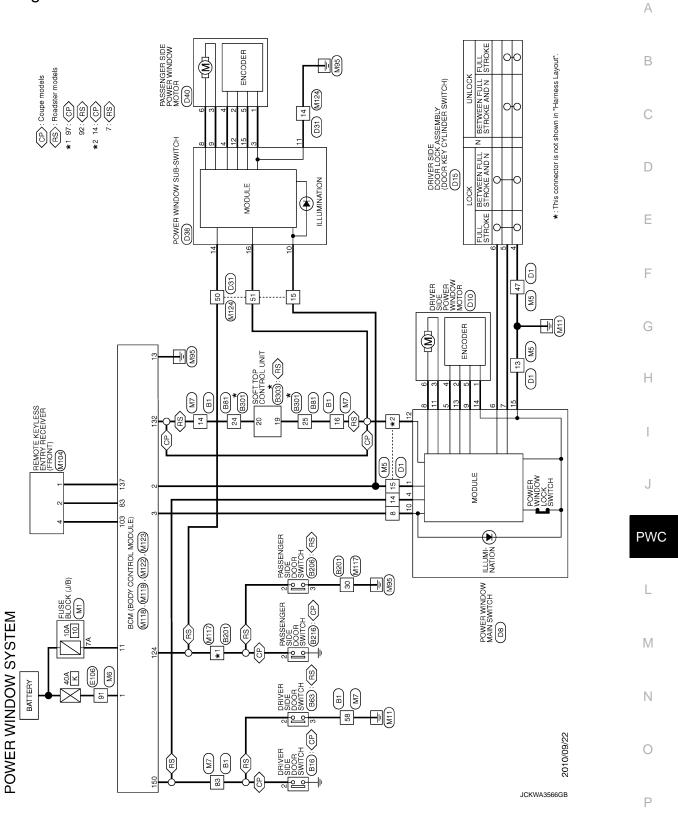
# < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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

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Wiring Diagram - POWER WINDOW CONTROL SYSTEM -



9 ecification]  9 e 6 5 8 4 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6		Connector Type A03FW  Terminal Color No. of Wire Signal Name [Specification]  2 GRR  Connector No. B63  Connector Name DRIVER SIDE DOOR SWITCH Connector Type A03FW	15   SB
Signal Name (Specification) 64 65 65 65 65 65 65 65 65 65 65 65 65 65		inal Color GR	N B P L C 10 0
Signal Name (Specification) 64		minal Color of Wire GR	> - 4 8 8 a
Signal Name (Specification) 663 665 665 665 665 665 665 665 665 665		inal Color of Wire of Wire GR OF Wire GR OF Wire GR OF WIRE OF WIRE OF WASHINGTON Type A03FW	2
Signal Name (Specification) 64 65 66 66 66 66 66 66 66 66 66 66 66 66		intal Color of Wire GR	28 α
62 64 64 65 65 65 67 67 68 69 69	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	intal Color of Wire of RR of R	α
65 65 66 67 68 68 69 70		of Wire GR ector No. B83 ector Type A03FW.	
65 66 67 68 69 69	1 1 1 1 1 1 1 1 1 1 1 1 1 1	GR ector No. ector Name ector Type	
66 67 68 68 69 70	1 1 1 1 1 1 1 1 1 1 1	ector No. ector Name ector Type	
69 69 70		ector No. ector Type	
69 69 70		ector Name ector Type	
69		ector Name	
70	111111	ector Type	
		ector Type A03FW	
T	11111	છાં	
	1 1 1 1	્યું	
- 73 BR	1 1 1		
74	1 1		
12	-	2	
08		1	
	1	C	
82	_	<u> </u>	
- 83 GR	_		
	- [Coupe models]	Terminal Color	
- 84 L	- [Roadster models]	No. of Wire Signal Name [Specification]	
- 88 FG	1	2 GR –	
98	1	3 B	
- 87 BR	1		
88	1		
- 93 Y	1	Connector No. B81	
	- [Coupe models]	O TOWN OT DUMM	
- 94 G	- [Roadster models]		
- 95 GR	- [Coupe models]	Connector Type TH40FW-NH	
	- [Roadster models]	ú	
7 96 -	1	<b></b>	
	1	SH.	
- [Roadster models] 98 W	- [Coune models]		
86	- [Roadster models]	20 18 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	
╀	-	6 35 34 33 32 31 30 29 28	
100	1		
1		Terminal Color	
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		- 1	
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# **POWER WINDOW SUB-SWITCH**

[ROADSTER]

T [5] [4] [3] [1] [5] [5] [5] [5] [5] [5] [5] [5] [5] [5	А
DONTROL UNI    Control   C	В
	С
Connector No.   Connector No.   Connector No.   Connector Name   Connector Name   Connector Type   Connect	D
Peoification]	Е
Signal   Name   Signal   Signal   Name   Sig	F
Color   Colo	G
1   1   1   1   1   1   1   1   1   1	Н
	I
B206 A03FW A03FW	J
100   100	PW
200 1000 1000 1000 1000 1000 1000 1000	ı
	_
WRE CSIG-TM4  CSIG-TM4  CSIG-TM4  Signal Name [Specification]  - [Coupe models]  - [Roadster models]  - [Coupe models]	M
OCI 10288 L. O. L. AK-OS P. L. S.	Ν
Connector Name   Connector Type   Conn	0
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Connector No. D38 Connector Name POWER WINDOW SUB-SWITCH Connector Type NS16PW-CS  MACHINE 3 4	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	15   LG	Terminal Color   Signal Name [Specification]
Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   2   6	Connector No. D31 Connector Type WRE TO WRE  Connector Type   TH40FW-CS15  (15) 41 53 12 11 10 12 11 10 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Terminal   Color   Signal Name   Specification   10. of Wire   Signal Name   Specification   10. of Wire   Color   1. of   1	56 L
Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   No.	BR		Connector No. D15 Connector Name DRIVER SIDE DOOR LOCK ASSEMBLY Connector Type EDBFGY-RS  While The Connector Type (123456)
Connector Name	Color   Signal Name [Specification]   of Wre   Y   Y   C   G   G   G   G   G   G   G   G   G		Connector Name POWER WINDOW MAIN SWITCH Connector Type NSI 16FW-CS    1     4     5   7     8 9   10   11   12   13   14   5
POW Connecte Connecte Connecte H.S.	Terminal No. No. 17 7 8 8 9 9 9 11 11 11 11 11 11 11 11 11 11 11	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Connectt Connectt

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POWER WINDOW SYSTEM

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					D
			13   14   15   22   23   24   24   25   23   24   25   24   25   24   25   25   25	[feation]	Е
	WIRE	-CS15		Signal Name (Specification)	F
. No. M5	>	Type TH40MW-CS15	1 2 3 4 5 6 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		G
Connector No.	Connector Name	Connector Type	H.S.	To maintail 7 or mintail 7 or mintail 7 or mintail 7 or mintail 8 or m	Н
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۵	ე >	اد 2	2	N	PW
81	83	84	86 87 89 93 93 94	100   100	
7		$\neg$			L
9	WIRE TO WIRE	TH80FW-CS16-TM4		Signal Name [Specification]	M
o. E106		ctor Type TH8	0 210 210	S D D D D D D D D D D D D D D D D D D D	
ctor No.	Z I	ŗ.			

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**PWC-197** 2011 370Z Revision: 2011 October

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- 7	GR	4	_	FG	>	98 BG - [Coupe models]		- M 66				Connector No. M104	Connector Name REMOTE KEYLESS ENTRY RECEIVER (FRONT)	П	Connector Type JAB04FB	1			1 2 4	1			Terminal Color	No. of Wire Signal Name [Specification]		GR	4 LG BATTERY																					
1	1	1	ı	1	1	1	-		1	1	1	1	1	1	1		- [Coupe models]	[Separation of the control of the co		1	1	1	1	1	1	1	1	ı		1	-	-	-	-	-	1	-	-	1		1	1		1	-	1		
24 R	+	+	1	ά	31 W	32 B	33 W	34 R	F	H	40 L	Н	42 GR	4	+	+	46 SHIELD	+	ď.	t	╀	ş	T	7 09	П	ည်	+	1	66 SHIELD	H	68 SHIELD	T 69	70 P	71 V	$\dashv$	4	74 GR	75 0	× 08	W 18	F	H	84 L	85 LG	H	Н	BS 88	
1	1	-	1	1	1	-	-	-	1	1	1	-	-	1	-		M7		WIRE TO WIRE	TH80MW-CS16-TM4			2 12 12 12 12 12 12 12 12 12 12 12 12 12	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	23	N N N N		Signal Name [Specification]	1	-	-	_	-	_	_	_	_	-	-	-	-	_	1	-	1	1	
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# **POWER WINDOW SUB-SWITCH**

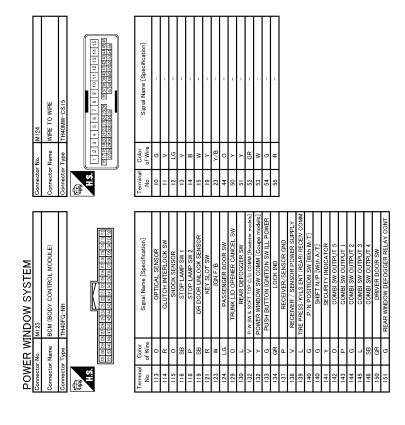
< ECU DIAGNOSIS INFORMATION >

Revision: 2011 October

[ROADSTER]

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**PWC-199** 2011 370Z



JCKWA3573GB

# Fail-Safe

INFOID:0000000006353973

## **FAIL-SAFE CONTROL**

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

## **POWER WINDOW SUB-SWITCH**

### < ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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

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

- Auto-up operation
- Anti-pinch function
- Automatic window adjusting function
- Retained power operation

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 switch or in motor.

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# POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

< SYMPTOM DIAGNOSIS >

[ROADSTER]

# SYMPTOM DIAGNOSIS

# POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

Description INFOID:000000006353974

All power windows do not operate via power window main switch and power window sub-switch.

Diagnosis Procedure

INFOID:0000000006353975

# 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-117, "BCM: Diagnosis Procedure".

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

# DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

[ROADSTER] < SYMPTOM DIAGNOSIS > DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE Α Description INFOID:0000000006353976 Driver side power window does not operate using power window main switch. В Diagnosis Procedure INFOID:0000000006353977 1. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY AND GROUND CIRCUIT Check power window main switch power supply and ground circuit. Refer to PWC-117, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.CHECK DRIVER SIDE POWER WINDOW MOTOR Check driver side power window motor. Refer to PWC-120, "DRIVER SIDE: Component Function Check". F Is the measurement value within the specification? YES >> GO TO 3.

NO

YES

NO

3.CONFIRM THE OPERATION

Confirm the operation again.

>> GO TO 1.

Is the result normal?

>> Repair or replace the malfunctioning parts.

>> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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## PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[ROADSTER]

# PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description INFOID:00000000003533978

Passenger side power window operates using power window main switch and power window sub-switch.

## **Diagnosis Procedure**

INFOID:0000000006353979

# 1. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window sub-switch power supply and ground circuit.

Refer to PWC-118, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-121, "PASSENGER SIDE: Component Function Check".

### Is the measurement value within the specification?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

# **ANTI-PINCH FUNCTION DOES NOT OPERATE**

ANTI-PINCH FUNCTION DOES NOT OPERATE		
< SYMPTOM DIAGNOSIS >	[ROADSTER]	ì
ANTI-PINCH FUNCTION DOES NOT OPERATE		А
DRIVER SIDE		
DRIVER SIDE : Description	INFOID:0000000006353980	В
Anti-pinch function does not operate when power window up operated.		
DRIVER SIDE : Diagnosis Procedure	INFOID:0000000006353981	0
1.CHECK AUTO UP OPERATION		
Check AUTO UP operation.		D
Is the inspection result normal?		D
YES >> GO TO 2. NO >> Refer to <u>PWC-206</u> , " <u>DRIVER SIDE</u> : <u>Diagnosis Procedure</u> ".		_
2.CONFIRM THE OPERATION		Е
Confirm the operation again.		
Is the result normal?		F
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".  NO >> GO TO 1.		
PASSENGER SIDE		G
PASSENGER SIDE : Description	INFOID:0000000006353982	
Anit-pinch function does not operate when power window up operated.		Н
PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000006353983	I
1.CHECK AUTO UP OPERATION		
Check AUTO UP operation.  Is the inspection result normal?		J
YES >> GO TO 2.		
NO >> Refer to <u>PWC-206</u> , " <u>PASSENGER SIDE</u> : <u>Diagnosis Procedure</u> ".		PW
2.CONFIRM THE OPERATION		
Confirm the operation again.  Is the result normal?		L
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".		
NO >> GO TO 1.		M
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# AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY

< SYMPTOM DIAGNOSIS >

[ROADSTER]

# AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

**DRIVER SIDE** 

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006353984

# 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to PWC-108, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

# 2.CHECK ENCODER (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-124, "DRIVER SIDE: Component Function Check".

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

### PASSENGER SIDE

## PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000006353985

# 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to <u>PWC-108</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

# 2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to PWC-126, "PASSENGER SIDE: Component Function Check".

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

## Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-**MALLY** [ROADSTER] < SYMPTOM DIAGNOSIS > POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE Α NORMALLY Description INFOID:0000000006353986 В Retained power function does not operate after ignition switch turns OFF. **Diagnosis Procedure** INFOID:0000000006353987 1. CHECK DOOR SWITCH Check door switch. D Refer to DLK-87, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. Е 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-43, "Intermittent Incident". NO >> GO TO 1. Н J

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# DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

[ROADSTER]

# DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

**Description** 

Power window does not operate when locking or unlocking a door using door key cylinder.

# **Diagnosis Procedure**

INFOID:0000000006353989

# 1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to <u>PWC-108</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

## Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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

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

Refer to DLK-98, "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-43, "Intermittent Incident".

NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERAT < SYMPTOM DIAGNOSIS >	E [ROADSTER]
KEYLESS POWER WINDOW DOWN DOES NOT OPERATE	
Description	INFOID:0000000006353990
Power window down does not operate when pressing unlock button on Intelligent Key.	
Diagnosis Procedure	INFOID:0000000006353991
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function.	
Does door lock/unlock with Intelligent Key button?	
YES >> GO TO 2. NO >> Refer to <u>DLK-331</u> , " <u>Diagnosis Procedure</u> ".	
2.CHECK POWER WINDOW OPERATION	
Check power window operation.	
Does power window operate up/down using power window main switch?	
YES >> GO TO 3.	
NO >> Refer to <a href="PWC-202">PWC-202</a> . "Diagnosis Procedure".  3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"	
Check "PW DOWN SET" setting in "WORK SUPPORT".  Refer to DLK-41, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".	
4.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1.	

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# POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS > [ROADSTER]

# POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-215, "Removal and Installation".

# POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

[ROADSTER] < SYMPTOM DIAGNOSIS > POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE Α **DRIVER SIDE** DRIVER SIDE: Diagnosis Procedure INFOID:0000000006353993 В 1. REPLACE POWER WINDOW MAIN SWITCH Replace power window main switch. C >> Refer to PWC-215, "Removal and Installation". PASSENGER SIDE D PASSENGER SIDE: Diagnosis Procedure INFOID:0000000006353994 Е 1. REPLACE POWER WINDOW SUB-SWITCH Replace power window sub-switch. F >> Refer to PWC-215, "Removal and Installation". Н J **PWC** M Ν

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# **AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[ROADSTER]

# AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE DRIVER SIDE

**DRIVER SIDE: Diagnosis Procedure** 

INFOID:0000000006353995

# 1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-206, "DRIVER SIDE : Diagnosis Procedure".

2. CHECK DOOR SWITCH

Check door switch.

Refer to PWC-128, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006353996

# 1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-206, "PASSENGER SIDE : Diagnosis Procedure".

2.CHECK DOOR SWITCH

Check door switch.

Refer to PWC-129, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

## **PRECAUTIONS**

< PRECAUTION > [ROADSTER]

# **PRECAUTION**

PRECAUTIONS
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:**

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: Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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.

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## **PRECAUTIONS**

< PRECAUTION > [ROADSTER]

 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 MEXICO: Precaution for Battery Service

INFOID:0000000006354000

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

## **POWER WINDOW MAIN SWITCH**

< REMOVAL AND INSTALLATION >

[ROADSTER]

INFOID:0000000006354001

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# REMOVAL AND INSTALLATION

# POWER WINDOW MAIN SWITCH

## Removal and Installation

# Cernoval and installation

## **REMOVAL**

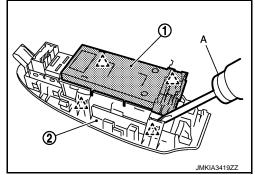
- 1. Remove the power window main switch finisher (2). Refer to <a href="INT-15">INT-15</a>, "Removal and Installation".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A) etc.



### **CAUTION:**

Never fold the pawl of power window main switch finisher.

The same procedure is also performed for power window subswitch.



## INSTALLATION

Install in the reverse order of removal.

#### NOTE:

Power window main switch is replaced or is removed it is necessary to do the initialization procedure. Refer to <a href="PWC-109">PWC-109</a>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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