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CONTENTS

COUPE POWER SUPPLY AND GROUND CIRCUIT17 BCM17 BASIC INSPECTION6 BCM : Diagnosis Procedure17 DIAGNOSIS AND REPAIR WORK FLOW 6 POWER WINDOW MAIN SWITCH17 Work Flow6 POWER WINDOW MAIN SWITCH: Diagnosis INSPECTION AND ADJUSTMENT7 Procedure17 ADDITIONAL SERVICE WHEN REMOVING BAT-POWER WINDOW SUB-SWITCH18 POWER WINDOW SUB-SWITCH: Diagnosis TERY NEGATIVE TERMINAL7 ADDITIONAL SERVICE WHEN REMOVING Procedure18 BATTERY NEGATIVE TERMINAL: Description7 POWER WINDOW MOTOR20 ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Re-DRIVER SIDE20 pair Requirement7 DRIVER SIDE: Description20 DRIVER SIDE: Component Function Check20 ADDITIONAL SERVICE WHEN REPLACING **PWC** DRIVER SIDE : Diagnosis Procedure20 CONTROL UNIT7 DRIVER SIDE: Component Inspection21 ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description8 PASSENGER SIDE21 ADDITIONAL SERVICE WHEN REPLACING PASSENGER SIDE: Description21 CONTROL UNIT: Special Repair Requirement8 PASSENGER SIDE : Component Function Check SYSTEM DESCRIPTION9 PASSENGER SIDE : Diagnosis Procedure21 PASSENGER SIDE: Component Inspection22 POWER WINDOW SYSTEM9 System Diagram9 ENCODER24 System Description9 Component Parts Location12 DRIVER SIDE24 Component Description12 DRIVER SIDE : Description24 DRIVER SIDE: Component Function Check24 DIAGNOSIS SYSTEM (BCM)14 DRIVER SIDE: Diagnosis Procedure24 COMMON ITEM14 PASSENGER SIDE26 COMMON ITEM: CONSULT Function (BCM -PASSENGER SIDE: Description26 COMMON ITEM)14 PASSENGER SIDE: Component Function Check RETAINED PWR15 PASSENGER SIDE : Diagnosis Procedure26 RETAINED PWR: CONSULT Function (BCM -RETAINED PWR) (For Coupe)15 POWER WINDOW SERIAL LINK29 DTC/CIRCUIT DIAGNOSIS17 POWER WINDOW MAIN SWITCH29

POWER WINDOW MAIN SWITCH: Description POWER WINDOW MAIN SWITCH: Component	. 29	WHEN POWER WINDOW SUB-SWITCH IS OP- ERATED: Diagnosis Procedure	99
Function Check	. 29	WITH BOTH POWER WINDOW MAIN SWITCH	
POWER WINDOW MAIN SWITCH : Diagnosis		AND POWER WINDOW SUB-SWITCH	aa
Procedure	. 29	WITH BOTH POWER WINDOW MAIN SWITCH	55
POWER WINDOW SUB-SWITCH	. 30	AND POWER WINDOW SUB-SWITCH: Descrip-	
POWER WINDOW SUB-SWITCH: Description		tion	
POWER WINDOW SUB-SWITCH : Component		WITH BOTH POWER WINDOW MAIN SWITCH	
Function Check	. 30	AND POWER WINDOW SUB-SWITCH: Diagno-	
POWER WINDOW SUB-SWITCH : Diagnosis		sis Procedure	100
Procedure	. 31	ANTI DINOU FUNCTION DOES NOT ODED	
ECU DIAGNOSIS INFORMATION	. 33	ANTI-PINCH FUNCTION DOES NOT OPER-	.101
BCM (BODY CONTROL MODULE)	. 33	DRIVER SIDE	101
Reference Value		DRIVER SIDE : Description	
Wiring Diagram - BCM		DRIVER SIDE : Diagnosis Procedure	
Fail-safe			
DTC Inspection Priority Chart		PASSENGER SIDE	
DTC Index		PASSENGER SIDE : Description	
		PASSENGER SIDE : Diagnosis Procedure	101
POWER WINDOW MAIN SWITCH		AUTO OPERATION DOES NOT OPERATE	
Reference Value	. 77	BUT MANUAL OPERATES NORMALLY	102
Wiring Diagram - POWER WINDOW CONTROL		BOT MANOAL OF ENATES NORMALET	. 102
SYSTEM		DRIVER SIDE	102
Fail-safe	. 85	DRIVER SIDE : Diagnosis Procedure	102
POWER WINDOW SUB-SWITCH	. 87	PASSENGER SIDE	400
Reference Value		PASSENGER SIDE : Diagnosis Procedure	
Wiring Diagram - POWER WINDOW CONTROL		FASSENGER SIDE : Diagnosis Flocedule	102
SYSTEM	. 89	POWER WINDOW RETAINED POWER	
Fail-safe		FUNCTION DOES NOT OPERATE NORMAL-	
		LY	.103
SYMPTOM DIAGNOSIS	. 97	Description	
POWER WINDOWS DO NOT OPERATE		Diagnosis Procedure	
WITH ANY POWER WINDOW SWITCHES	07		
		DOOR KEY CYLINDER SWITCH DOES NOT	
Description Diagnosis Procedure	. 97	OPERATE POWER WINDOWS	
Diagnosis Flocedure	. 91	Description	
DRIVER SIDE POWER WINDOW ALONE		Diagnosis Procedure	104
DOES NOT OPERATE	. 98	KEYLESS POWER WINDOW DOWN DOES	
Description	. 98	NOT OPERATE	105
Diagnosis Procedure		Description	
		Diagnosis Procedure	
PASSENGER SIDE POWER WINDOW		•	100
ALONE DOES NOT OPERATE	. 99	POWER WINDOW LOCK SWITCH DOES NOT FUNCTION	106
WHEN POWER WINDOW MAIN SWITCH IS OP-		Diagnosis Procedure	
ERATED	. 99	Diagnosis i roccario	100
WHEN POWER WINDOW MAIN SWITCH IS OP-	00	POWER WINDOW SWITCH ILLUMINATION	
ERATED : Description	. 99	DOES NOT ILLUMINATE	.107
WHEN POWER WINDOW MAIN SWITCH IS OP-	00		
ERATED : Diagnosis Procedure	. 99	DRIVER SIDE	
WHEN POWER WINDOW SUB-SWITCH IS OP-		DRIVER SIDE : Diagnosis Procedure	107
ERATED	. 99	PASSENGER SIDE	107
WHEN POWER WINDOW SUB-SWITCH IS OP-		PASSENGER SIDE : Diagnosis Procedure	
ERATED : Description	. 99	3	

AUTOMATIC WINDOW ADJUSTING FUNC-	System Description116
TION DOES NOT OPERATE108	Component Parts Location119 A
	Component Description119
DRIVER SIDE108	DIACNOSIS SYSTEM (DCM)
DRIVER SIDE : Diagnosis Procedure108	DIAGNOSIS SYSTEM (BCM)121
PASSENGER SIDE108	COMMON ITEM121
PASSENGER SIDE : Diagnosis Procedure 108	COMMON ITEM: CONSULT Function (BCM -
•	COMMON ITEM)121
PRECAUTION110	RETAINED PWR122
PRECAUTIONS110	RETAINED PWR : CONSULT Function (BCM -
TREGROTIONOTI	RETAINED PWR) (For Roadster)122
FOR USA AND CANADA110	
FOR USA AND CANADA: Precaution for Supple-	DTC/CIRCUIT DIAGNOSIS124
mental Restraint System (SRS) "AIR BAG" and	POWER SUPPLY AND GROUND CIRCUIT 124
"SEAT BELT PRE-TENSIONER"110	POWER SUPPLY AND GROUND CIRCUIT 124
FOR USA AND CANADA : Precaution for Battery	BCM124
Service110 FOR USA AND CANADA : Precautions for Re-	BCM : Diagnosis Procedure124 F
moving Battery Terminal110	
	POWER WINDOW MAIN SWITCH : Diagnosis
FOR MEXICO111	Procedure124 G
FOR MEXICO : Precaution for Supplemental Re-	1 100edd1e124 0
straint System (SRS) "AIR BAG" and "SEAT BELT	POWER WINDOW SUB-SWITCH125
PRE-TENSIONER"	POWER WINDOW SUB-SWITCH : Diagnosis
FOR MEXICO: Precaution for Battery Service 111 FOR MEXICO: Precautions for Removing Battery	Procedure125
Terminal111	POWER WINDOW MOTOR127
REMOVAL AND INSTALLATION112	DRIVER SIDE127
DOWED WINDOW MAIN SWITCH	DRIVER SIDE : Description
POWER WINDOW MAIN SWITCH112	DRIVER SIDE : Component Function Check127
Removal and Installation112	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure127
	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure127 DRIVER SIDE : Component Inspection128
Removal and Installation112	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure127 DRIVER SIDE : Component Inspection128 PASSENGER SIDE
Removal and Installation	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure
Removal and Installation	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure
Removal and Installation	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check127 DRIVER SIDE : Diagnosis Procedure
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check
Removal and Installation	DRIVER SIDE : Component Function Check

PASSENGER SIDE	137	AUTO OPERATION DOES NOT OPERATE	
PASSENGER SIDE : DescriptionPASSENGER SIDE :	137	BUT MANUAL OPERATES NORMALLY2	19
Component Function Check	137	DRIVER SIDE 2	19
PASSENGER SIDE : Diagnosis Procedure		DRIVER SIDE : Diagnosis Procedure2	19
ECU DIAGNOSIS INFORMATION	139	PASSENGER SIDE	
BCM (BODY CONTROL MODULE)		POWER WINDOW RETAINED POWER	19
Reference Value		FUNCTION DOES NOT OPERATE NORMAL-	
Wiring Diagram - BCM		LY2	20
Fail-safe		Description	
DTC Inspection Priority Chart DTC Index		Diagnosis Procedure2	
SOFT TOP CONTROL UNIT	183	DOOR KEY CYLINDER SWITCH DOES NOT	
Reference Value		OPERATE POWER WINDOWS2	
Fail-safe		Description2	
DTC Inspection Priority Chart		Diagnosis Procedure	21
DTC Index		KEYLESS POWER WINDOW DOWN DOES	
POWER WINDOW MAIN SWITCH		NOT OPERATE2	
Reference Value		Description2	
Wiring Diagram - POWER WINDOW CONTRO		Diagnosis Procedure2	22
Fail-safe		POWER WINDOW LOCK SWITCH DOES	
DOWED WINDOW CUD CWITCH	005	NOT FUNCTION2	
POWER WINDOW SUB-SWITCH		Diagnosis Procedure2	23
Reference Value Wiring Diagram - POWER WINDOW CONTRO		POWER WINDOW SWITCH ILLUMINATION	
SYSTEM		DOES NOT ILLUMINATE2	24
Fail-safe			
SYMPTOM DIAGNOSIS	215	DRIVER SIDE	
		PASSENGER SIDE2	24
POWER WINDOWS DO NOT OPERATE		PASSENGER SIDE : Diagnosis Procedure 2:	
WITH ANY POWER WINDOW SWITCHES	_	·	- '
Description Diagnosis Procedure		AUTOMATIC WINDOW ADJUSTING FUNC-	
	213	TION DOES NOT OPERATE2	25
DRIVER SIDE POWER WINDOW ALONE		DRIVER SIDE2	25
Description		DRIVER SIDE : Diagnosis Procedure2	25
Diagnosis Procedure		PASSENGER SIDE2	25
	210	PASSENGER SIDE : Diagnosis Procedure 2	
PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE	217	PRECAUTION2	26
Description			
Diagnosis Procedure		PRECAUTIONS2	26
ANTI-PINCH FUNCTION DOES NOT OPER	?_	FOR USA AND CANADA2	26
ATE		FOR USA AND CANADA: Precaution for Supple-	
~! -	210	mental Restraint System (SRS) "AIR BAG" and	
DRIVER SIDE		"SEAT BELT PRE-TENSIONER"2	26
DRIVER SIDE : Description		FOR USA AND CANADA : Precaution for Battery	
DRIVER SIDE : Diagnosis Procedure	218	Service	26
PASSENGER SIDE	218	FOR USA AND CANADA: Precautions for Removing Battery Terminal	26
PASSENGER SIDE : Description			
PASSENGER SIDE : Diagnosis Procedure		FOR MEXICO2	27

straint System (SRS) "AIR BAG" and "SEAT BELT	REMOVAL AND INSTALLATION228	Λ
PRE-TENSIONER"	POWER WINDOW MAIN SWITCH228 Removal and Installation228	В
		С
		D
		Е
		F

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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.

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

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

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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:0000000011735511 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. Refer to PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement". D 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. Е 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 REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000011735512 INITIALIZATION PROCEDURE 1. Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or 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. **PWC** 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. Close door glass completely with AUTO-UP. N Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops. Check that glass does not rise when operating the power window main switch while lowering. **CAUTION:** 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. Р 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

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [COUPE]

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000011735513

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.

Refer to <u>PWC-8</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

- 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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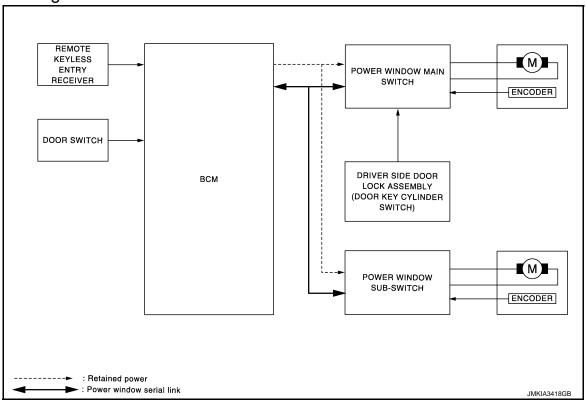
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SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:0000000011735516

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.

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Auto function is inoperable if encoder is malfunctioning.

POWER WINDOW SYSTEM

[COUPE]

< SYSTEM DESCRIPTION >

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

< SYSTEM DESCRIPTION >

[COUPE]

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

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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

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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-43, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Coupe)".

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NOTE:

Use CONSULT to change settings.

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

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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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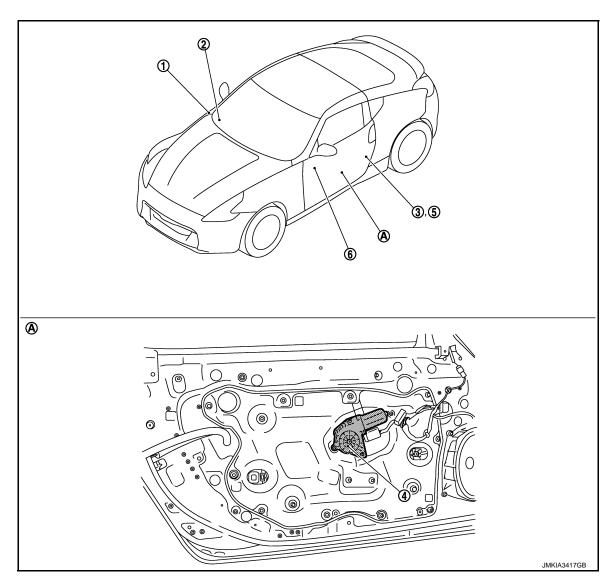
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PWC-11 Revision: 2015 June 2016 370Z

Component Parts Location

INFOID:0000000011735517



- BCM M118, M119, M122, M123
 BCS-10, "Component Parts Location"
- 4. Driver side power window motor D10 5.
- A. View with door finisher removed
- . Remote keyless entry receiver M104 3. <u>DLK-17</u>, "INTELLIGENT KEY SYS-<u>TEM</u>: 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:0000000011735518

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

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

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 Function (BCM - COMMON ITEM)

INFOID:0000000012104162

APPLICATION ITEM

CONSULT 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.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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.

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

[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" (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"	
Vehicle Condition	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*	
	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode	
	LOCK		Power supply position is "LOCK"*	
	OFF		Power supply position is "OFF" (Ignition switch OFF)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR) (For Coupe)

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DATA MONITOR **NOTE**:

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[COUPE]

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

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 >

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DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000011735521

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 supply	10 (10A)	

Is the fuse fusing?

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

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		(· .FF. 3/v.)	
M118	1	Ground	Rattory voltage	
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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

>> Repair harness or connector. NO

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

1.CHECK POWER SUPPLY CIRCUIT 1

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

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INFOID:0000000011735522

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[COUPE]

	+) w main switch	(–)	Voltage (V) (Approx.)
Connector	Terminal		(* (PP: 57.11)
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 $_2$

- 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 windo	w 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.

В	CM		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-106, "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 windo	w 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:0000000011735523

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		(· • • • • · · · · · · · · · · · · · · ·
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 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	CM	Power windo	ow sub-switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M118	2	D38	10	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-106</u>, "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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Revision: 2015 June **PWC-19** 2016 370Z

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[COUPE]

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011735524

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

DRIVER SIDE : Component Function Check

INFOID:0000000011735525

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-20, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000011735526

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 powe	•	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(.pp. 3)
	6			UP	12
D10	6	Ground	Power window	DOWN	0
טוט	3	Giouna	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-21, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver side power window motor. Refer to <u>GW-22</u>, "<u>Removal and Installation</u>".

3.check power window motor 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	8	D10	6	Existed
	11	010	3	Existed

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

POWER WINDOW MOTOR

Power windov			Continuity
Connector	Terminal	Ground	-
D8 -	8 8		Not existed
the inspection result norma			
•	vindow main switch. Refer e harness.	to PWC-112, "Removal a	and Installation".
efer to GI-45, "Intermittent I	ncident".		
RIVER SIDE : Compo OMPONENT INSPECTION CHECK DRIVER SIDE PO	DN		INFOID:0
Turn ignition switch OFF. Disconnect driver side po		ctor.	ide power window m
Turn ignition switch OFF.Disconnect driver side portion of the control of the c	ower window motor conne y connecting the battery v	ctor.	· T
Turn ignition switch OFF.Disconnect driver side poCheck motor operation b	ower window motor conne y connecting the battery v	ctor. oltage directly to driver s	ide power window m
Turn ignition switch OFF. Disconnect driver side por Check motor operation be nector. Driver side power window motor connector	ower window motor conne y connecting the battery v	ctor. oltage directly to driver s	· T
Turn ignition switch OFF. Disconnect driver side portion of the character of the connector. Driver side power window motor connector	Terr (+) 3 6	ctor. /oltage directly to driver s	Motor operation
Turn ignition switch OFF. Disconnect driver side por Check motor operation by nector. Driver side power window motor connector D10 the inspection result normal YES >> Driver side power NO >> Replace driver side ASSENGER SIDE ASSENGER SIDE : Door glass moves UP/DOWN	Terr (+) 3 6 al? r window motor is OK. de power window motor. F	ctor. voltage directly to driver s minal (-) 6 3 Refer to GW-22, "Remova	Motor operation DOWN UP al and Installation".
Turn ignition switch OFF. Disconnect driver side por Check motor operation be nector. Driver side power window motor connector D10 the inspection result normates >> Driver side power or side powe	Terr (+) 3 6 al? r window motor is OK. de power window motor. F	ctor. voltage directly to driver s minal (-) 6 3 Refer to GW-22, "Remova	Motor operation DOWN UP al and Installation".

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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.

>> Refer to PWC-21, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

- 1. 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.

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INFOID:0000000011735530

PWC-21 Revision: 2015 June 2016 370Z

< DTC/CIRCUIT DIAGNOSIS >

(+) Passenger side power window motor		(–)	Con	dition	Voltage (V)
Connector Terminal			Condition		(Approx.)
	0			UP	12
D40	6	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-22, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace passenger side power window motor. Refer to <u>GW-22</u>, "<u>Removal and Installation</u>".

3.check power window motor circuit

- 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 Connector Terminal		Continuity
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 windo	ow 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-112, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000011735531

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 >

[COUPE]

Passenger side power window	Terr	minal	Motor condition
motor connector	(+)	(-)	Wotor Condition
D40	3	6	DOWN
	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-22, "Removal and Installation".

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ENCODER

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000011735532

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:0000000011735533

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-24</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

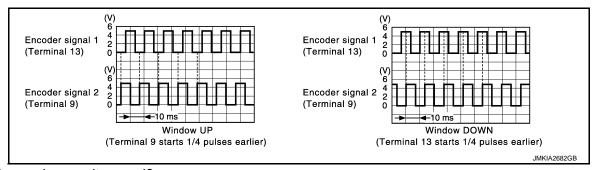
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000011735534

1. CHECK ENCODER OPERATION

- 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		(rtoronomos varias)
D0	9	Cround	Defer to the following signal
D8	13	Ground Refer to the follo	Refer to the following signal



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-112, "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 pow	Driver side power window motor	
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
	9	Giouria	Not existed
Do	13		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

- Connect power window main switch connector.
- 2. 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 - 7	
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.
- 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	5	D10	4	Existed

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

	Power windo	w 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-112, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT $^{\scriptscriptstyle 1}$

- Turn ignition switch OFF.
- 2. 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 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 >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK GROUND CIRCUIT 2

PWC-25 Revision: 2015 June 2016 370Z

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< DTC/CIRCUIT DIAGNOSIS >

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

Power windo	w main switch		Continuity
Connector Terminal		Ground	Continuity
D8	14		Existed

Is the inspection result normal?

YES >> Replace driver side power window motor. Refer to PWC-112, "Removal and Installation".

NO >> Replace power window main switch. Refer to PWC-112, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000011735535

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:0000000011735536

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-26, "PASSENGER SIDE: Diagnosis Procedure".

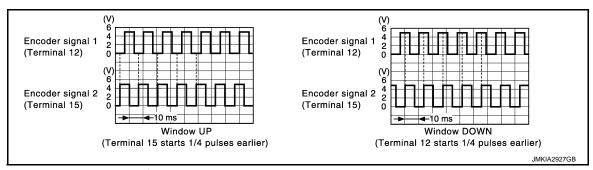
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000011735537

1. CHECK ENCODER SIGNAL

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

(+) Power window sub-switch		(–)	Signal (Reference value)	
Connector	Terminal		(**************************************	
D38	12	Ground	Poter to the following signal	
D36	15	Ground	Refer to the following signal	



Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-112, "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	low sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
D38	12	D40	2	Existed
D30	15		5	LXISIGU

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

Power window sub-switch			Continuity	
Connector	Terminal	Ground Not existe	Continuity	
D38	12		Not existed	
D30	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.

(+)			Voltage (V) (Approx.)	
Passenger side power window motor		(–)		
Connector	Terminal		(11 -)	
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

- 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	ow sub-switch	Passenger side power window motor Connector Terminal		Continuity	
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	Connector Terminal		Continuity
D38	4		Not existed

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-112, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK GROUND CIRCUIT 1

- 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.

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PWC-27 Revision: 2015 June 2016 370Z

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Power windo	ow sub-switch	Passenger side power 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.
- 2. Check continuity between power window sub-switch harness connector and ground.

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

Is the inspection result normal?

YES >> Replace passenger side power window motor. Refer to PWC-112. "Removal and Installation".

NO >> Replace power window sub-switch. Refer to PWC-112, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

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POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

INFOID:0000000011735538

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:0000000011735539

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(II) With CONSULT

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to DLK-41, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK) (For Coupe)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-29, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000011735540

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 Connector		(-)	Signal (Reference value)
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

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Revision: 2015 June **PWC-29** 2016 370Z

< DTC/CIRCUIT DIAGNOSIS > [COUPE]

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

(+) Power window main switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
D8	12	Ground	12	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-112, "Removal and Installation".

NO >> GO TO 3.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

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

4. Check continuity between BCM connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "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

INFOID:0000000011735542

INFOID:0000000011735541

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(I) With CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[COUPE]

INFOID:0000000011735543

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Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to DLK-41, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK) (For Coupe)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

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

POWER WINDOW SUB-SWITCH: Diagnosis Procedure

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.

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

Power window Connector		(-)	Signal (Reference value)
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-112, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-112, "Removal and Installation".

NO >> GO TO 3.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

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

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< DTC/CIRCUIT DIAGNOSIS >

[COUPE]

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

4. Check continuity between BCM connector and ground.

BCM			Continuity	
Connector Terminal		Ground	Continuity	
M123	132		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> Repair or replace harness.

< ECU DIAGNOSIS INFORMATION >

[COUPE]

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000012104163

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT	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 WIDED I OW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED WACHED OW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
	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 dial position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL AMD 014/	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
LIEAD LAND OWA	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA 001110 0144	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
DOOD OW DO	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD OW 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On

PWC-33 Revision: 2015 June 2016 370Z

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< ECU DIAGNOSIS INFORMATION >

[COUPE]

Monitor Item	Condition	Value/Status
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off
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
ODE LOOK OW	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
ODE ONEOOK OW	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
NET OTE EN-OW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
RET OTE ON OW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: 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
TR CANCEL SW	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 OPEN SW	 While the back door opener switch is turned ON (Coupe models) While the trunk lid opener switch is turned ON (Roadster models) 	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
RNE-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
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
TARE I / W OI LIV	UNLOCK button of the Intelligent Key is pressed and held	On
BKE WODE CHO	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 >

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Monitor Item	Condition	Value/Status
ODTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
DEO OW DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
	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
OOI I OVV	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	The clutch pedal is not depressed	Off
NOTE: 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	NOTE: The item is indicated but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated but not monitored.	Off
LINIL IZ CENT DD	Driver door is unlocked	Off
JNLK SEN -DR	Driver door is locked	On
211011 014/ 12214	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On

Revision: 2015 June **PWC-35** 2016 370Z

< ECU DIAGNOSIS INFORMATION >

[COUPE]

Monitor Item	Condition	Value/Status
ION DI VA. E/D	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
DETE SW IDDM	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
OST DV IDDM	 Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off
SFT PN -IPDM	 Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On
SFT P -MET	Selector lever in any position other than P	Off
OI II -WEI	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
SFI IN -IVIE I	Selector lever in N position	On
	Engine stopped	Stop
ENGINE CTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated but not monitored.	Off
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
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
DDMT ENO OTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY OM OLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key

< ECU DIAGNOSIS INFORMATION >

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Monitor Item	Condition	Value/Status
CONFERMID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL The kered The kered The keregist The kereg	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM ID4	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
CONEIDM ID2	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM IDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONEIDM ID2	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
ONFIRM ID3 ONFIRM ID2 ONFIRM ID1 ONFIRM ID1 OP 4 OP 3 OP 2 OP 1 OR PRESS FL OR PRESS FR OR PRESS RR OR PRESS RL	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CON INWIDT	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TD 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
1	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
1123	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
172	The ID of second Intelligent Key is registered to BCM	Done
	The ID of first Intelligent Key is not registered to BCM	Yet
IP1	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 Littine
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 LF tire
ID REGST EL 1	ID of front LH tire transmitter is registered	Done
ID REGGITE!	ID of front LH tire transmitter is not registered	Yet
ID DECST ED1	ID of front RH tire transmitter is registered	Done
ID REGOTT KT	ID of front RH tire transmitter is not registered	Yet
ID REGST RP1	ID of rear RH tire transmitter is registered	Done
ID REGOT KINT	ID of rear RH tire transmitter is not registered	Yet
ID DECST DI 1	ID of rear LH tire transmitter is registered	Done
ID NEGOI NEI	ID of rear LH tire transmitter is not registered	Yet
MADNING LAND	Tire pressure indicator OFF	Off
WAKINING LAWP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZEK	Tire pressure warning alarm is sounding	On

Revision: 2015 June **PWC-37** 2016 370Z

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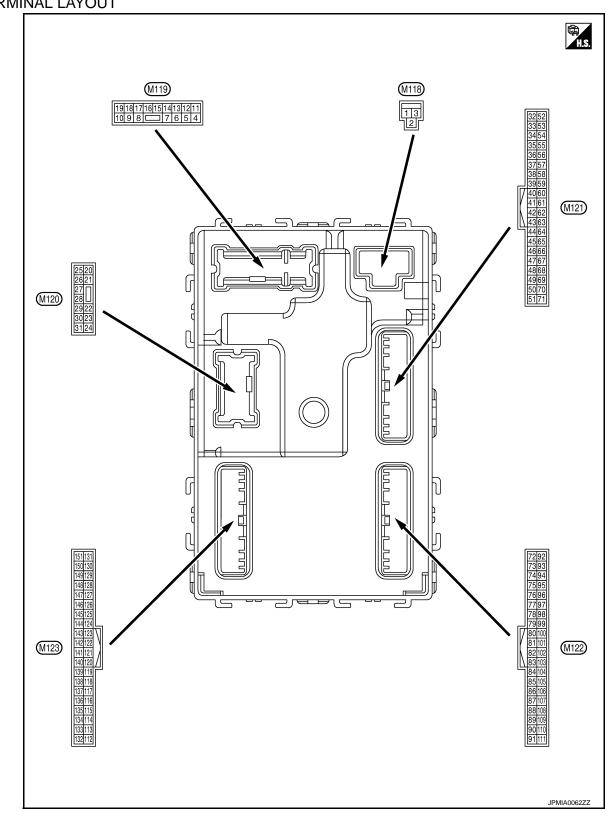
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TERMINAL LAYOUT



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 OFF		12 V
3 (Y)	Ground	P/W power supply (IGN)	Output	Ignition switch (ON	12 V
					np battery saver is activated. r 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)	(G) Ground LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V	
8	8 (V) All doors, fuel lid LOCK	Outrout	All doors, fuel	LOCK (Actuator is activated)	12 V	
(V)		LOCK	Output	lid	Other than LOCK (Actuator is not activated)	0 V
9	Cravind	Driver door, fuel lid	Outerut	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	_	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 >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	value (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 PKID0926E
					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 0 1 s PKID0926E 6.5 V
19 (P)	Ground	Interior room lamp control	Output	Interior room lamp	OFF ON	12 V 0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23		Back door/Trunk lid		Back door/	OPEN (Back door/Trunk lid opener actuator is activated)	12 V
(L)* ¹ (Y)* ²	Ground	open	Output	Trunk lid	Other than OPEN (Back door/Trunk lid opener actuator is not activated)	0 V
24* ⁸	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
(O)					ON Turn signal switch OFF	12 V 0 V
					Tutti signal switch OFF	UV
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
				Luggage room/	ON	0.5 V
30 (R)	Ground	Luggage room/Trunk room lamp	Output	Trunk room lamp	OFF	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
34	01	Luggage room/Trunk	0.4.4	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(G) Ground room antenna (–)	room antenna (-)	Output	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 (+)	om/Trunk	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB			
	Ground	room antenna (+)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
	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		
	Giodila	na (–)	Cuiput	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	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
39	One week	Rear bumper anten-	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)	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
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(V)	0.00	E/R) control	- Carpar	.9	ON	0 V
			Output	Ignition switch ON (A/T mod- els)	When selector lever is in P or N position	12 V
52	Ground	Starter relay control			When selector lever is not in P or N position	0 V
(SB)	Giodila	Starter relay control		Ignition switch	When the clutch pedal is depressed	Battery voltage
				ON (M/T mod- els)	When the clutch pedal is not depressed	0 V
60	Cround	Push-button ignition	Innut	Push-button ig-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage
					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 1.0 V
64	Ground	Intelligent Key warn-	Output	Intelligent Key	Sounding	0 V
(G)	Giouna	ing buzzer	Output	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 JPMIA0011GB
					ON (Door open)	11.8 V 0 V
					ON (DOOR OPER)	U V

< ECU DIAGNOSIS INFORMATION >

[COUPE]

	nal No. e color)	Description			0 100	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					Pressed	0 V
67 (GR)	Ground	Back door/Trunk lid opener switch	Input	Back door/ Input Trunk lid opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB
72 (L) Ground Room antenna 2 (–) (Center console)			When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB		
	Ground	(Center console)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
73 (P) Groun	Giouria	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

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< ECU DIAGNOSIS INFORMATION >

< ECU [DIAGNO	BC SIS INFORMATIO		DDY CONT	ROL MODULE)	[COUPE]	
	nal No. color)	Description	1		0 100	Value	
+	-	Signal name	Input/ Output	Condition		(Approx.)	
74	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(SB)	Clound	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 request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(BR)	Ciodila	tenna (+)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
76	Ground	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
(V)	Ground	Ground (-) Output switch ated	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		

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description			On a dition	Value
+	-	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 1 s JMKIA0062GB
(LG)	Giodila	(+)	When Intelligent Key is not in the antenna detection area When Intelligent Key is not in the antenna detection area (V) 15 10 5 0 MKIAOOG	15 10 5 0		
78* ²		Room antenna 1 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
78* ² (L) Gro	Ground	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
					When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
79* ² (R) G	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

ECU [DIAGNO	BC SIS INFORMATIO	-	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 receiver (front) com-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(GR)	Glound	munication Com-	Output	When operating either button on the Intelligent Key		(V) 15 10 5 0 1 ms
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
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
				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. color)	Description			O a little a	Value
+	-	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 (V) Ground Combination switch INPUT 3			Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0036GB		
			Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	1.3 V (V) 15 10 2 ms 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	
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		— OFF	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB 6.5 V 12 V
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Oround	Noo relay control	Output	ignition switch	ACC or ON	12 V
96* ³ (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
		Selector lever P posi-		Colootorilovor	P position	0 V
6	99* ⁶ (R) Ground (tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
		Clutch pedal position switch (M/T models	Input	Clutch pedal	OFF (Clutch pedal is depressed)	0 V
		without SynchroRev Match mode)	(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
102	Ground	Blower fan motor re-	Output	Ignition switch	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

< ECU DIAGNOSIS INFORMATION >

[COUPE]

	nal No. color)	Description	1			Value	А
+ (vvire	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
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	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	PW0
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	M

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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 1.4 V
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
(R)		INPUT 4		Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4)		15 10 5 0 2 ms
					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
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical Serisor	прис	ON	When dark outside of the vehicle	Close to 0 V
114*4	Ground	Clutch interlock	Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Cround	switch	прис	switch	ON (Clutch pedal is depressed)	Battery voltage
115* ⁹ (O)	_	_	I		_	_
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Innut	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 10 ms 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Crownd	Kov olat oviitah	laavit	When the Intellig	gent Key is inserted into key	12 V
(R)	Ground	Key slot switch	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)	Oroana	TOTTIOGRAPHIC	трис	igilia ori ovilcon	ON	Battery voltage
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

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description	I			Value	/
+	color)	Signal name	Input/ Output		Condition	(Approx.)	/
129* ² (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	E (
					ON	0 V	
130* ⁷ (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB	
					Rear window defogger switch ON	0 V	ŀ
132 (Y)* ¹ (V)* ²	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch C	NO	(V) 15 10 5 0 10 ms JPMIA0013GB	,
				Ignition switch C	OFF or ACC	12 V	Б
					ON (Tail lamps OFF)	9.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.	P
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	(V) 15 10 5 0	
					OFF	JPMIA0159GB	
134	_		_	LOCKindicator	OFF OFF	0 V 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)	Giound	power supply	Output	ignition Switch	ACC or ON	5.0 V	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition switch OFF (Remote key- less entry re-	During waiting	(V) 15 10 5 0 1 ms JMKIA0064GB
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	ceiver communica- tion)	When operating either button on the Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB
				Ignition switch ON (Tire pressure	Standby state	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				receiver com- munication)	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Selector lever P/N position (A/T models)		Selector lever	P or N position	12 V
140* ⁵	Ground	Park/neutral position	Input		Except P and N positions Control lever in neutral po-	0 V
(G)	Ground	switch (Coupe M/T models with Synchro- Rev Match mode)	mput	Ignition switch ON	sition Control lever in any position other than neutral	Battery voltage 0 V
					ON	0 V
141 (Y)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 JPMIA0014GB
					OFF	11.3 V 12 V
					J	1

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(O)	Ciduid	OUTPUT 5	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	0 2 ms 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	15 10 5 0 2 ms JPMIA0032GB 10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	(V) 15
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	
					Front wiper switch LO	(V)
145	0	Combination switch	0	Combination switch	Lighting switch AUTO	15
(L)	Ground	OUTPUT 3	Output	(Wiper intermittent dial 4)	Rear fog lamp switch ON	2 ms JPMIA0034GB
					All switches OFF	10.7 V
					Lighting switch 2ND	
					Lighting switch PASS	(V)
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	Turn signal switch LH	15 10 5 0 2 ms
						10.7 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 10 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:} M/T models

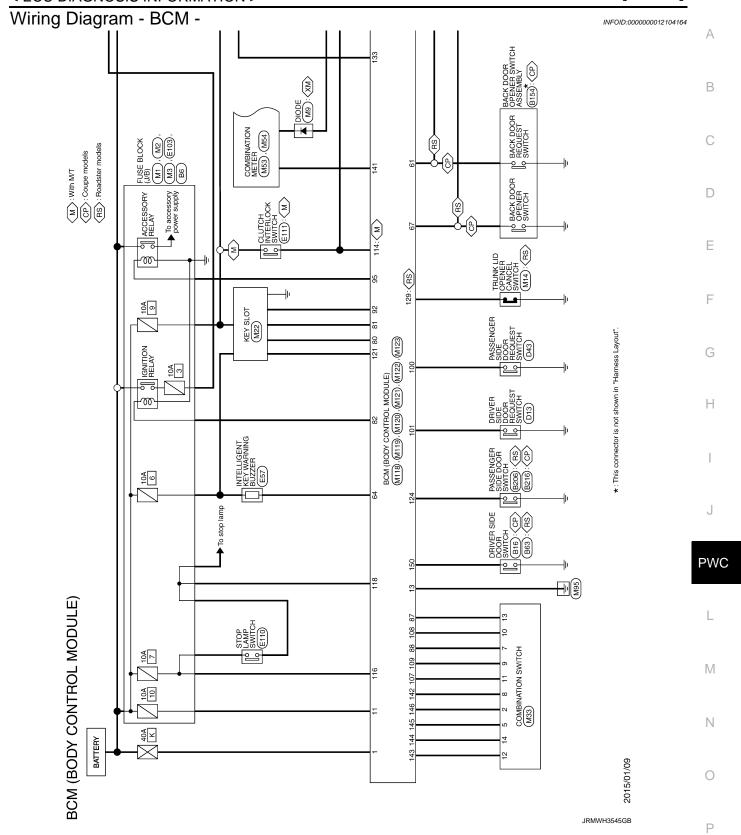
^{*5:} With A/T or coupe models with M/T and SynchroRev Match mode

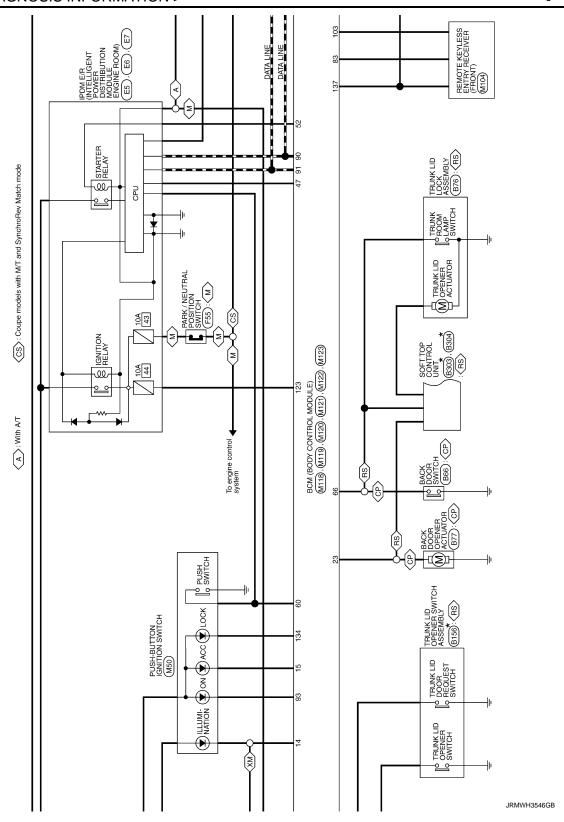
^{*6:} With A/T or with M/T without SynchroRev Match mode

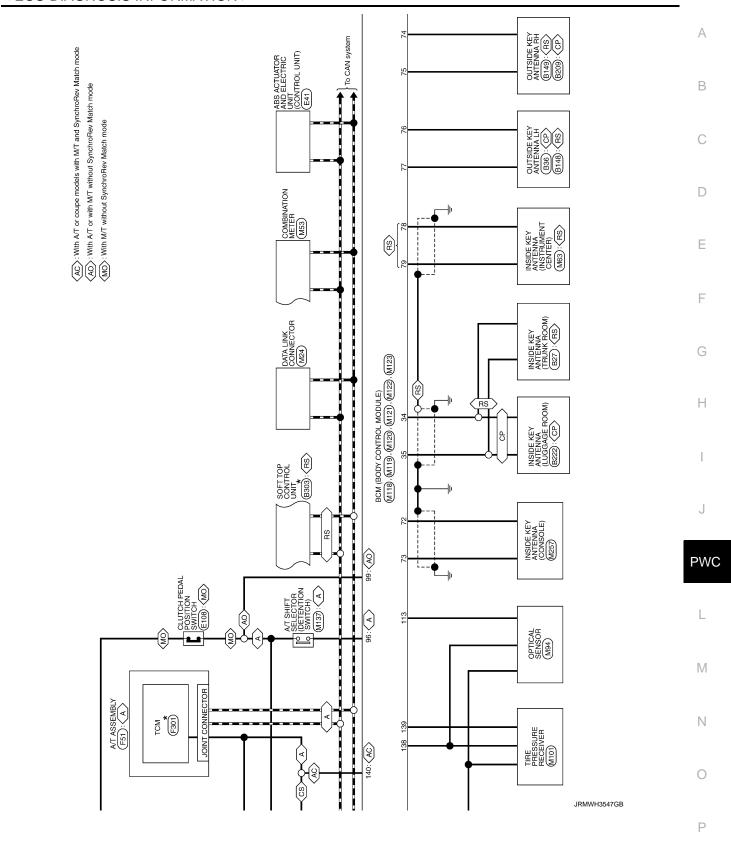
^{*7:} Without NAVI

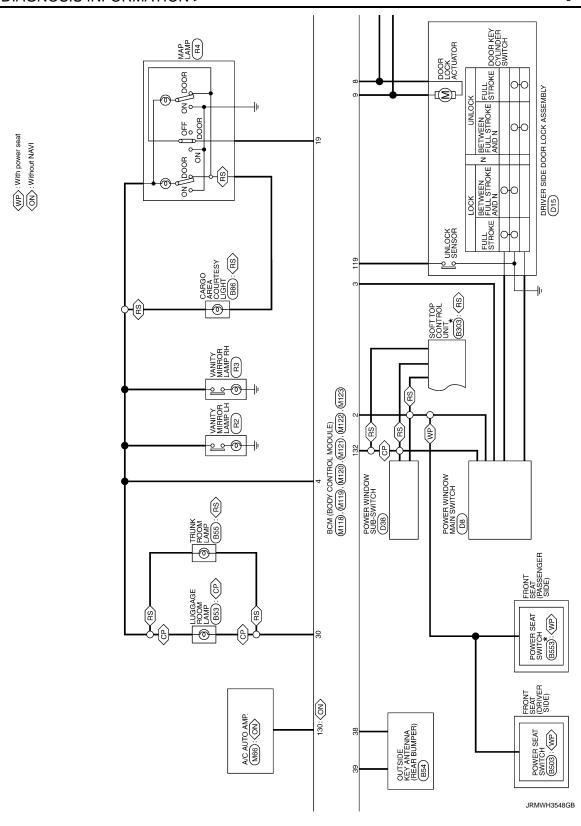
^{*8:} With rear fog lamp

^{*9:} BCM does not use this terminal for control.



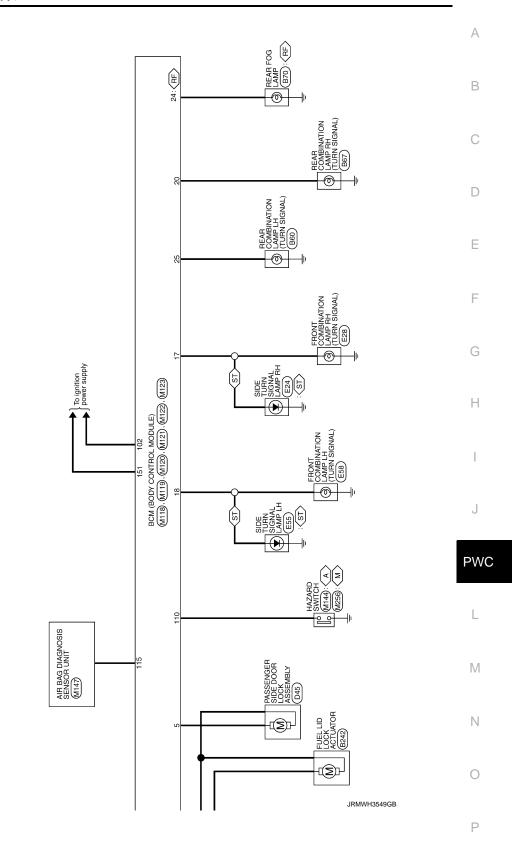






⟨RF⟩: With rear fog lamp
⟨ST⟩: With side turn signal lamp

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SSS STRUK BOOM LANP SS2PW	Signal Name (Specification)	Signal Name (Specification) [Coupe moddle] [Houdster models]
Connector No. Connector Name Connector Type H.S.	Terminal Color Of No. Wire No. Wire 1 BR 1 BR Connector No. Connector Name Connector Type	Mire G G G G G V V V V V V V V V V V V V V
Connector No.	Commettor Na	Terminal No. 1 2 2 2 2 4 4 6 6
1853 Сизсасе коом име Сизсас	Signal Name (Specification)	Signal Name [Specification]
Connector No. Connector Name Connector Type	Terminal Color Of No. Wire No. Table Color Of Connector No. Connector No. Connector Type	Terminal Color Of No. Wire Wire W
Connector No. B27 Connector Name INSI DE KEY ANTENNA, (TRUNK ROOM) Connector Type INIOTICY M.S. M.S.	Terminal Color Of Signal Name [Specification] No. Whee Signal Name [Specification] 1 V - Signal Name [Specification] Connector No. Bibs Connector Name OUTSDE KEY ANTENNA LH Connector Type RIGOLNGY	Terminal Color Of Signal Name Specification No. Wire 1 1.6
BCM (BODY CONTROL MODULE) Connector Name FLIS BLOCK (I/B) Connector Type MS1278IR-CS TALS TALS	Note of Signal Name [Specification]	Odor Of Signal Name [Specification] When GR
BCM (BOI Connector No.	* 	Terminal Color Of No. Wire 2 GR
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BCM (BODY	BCM (BODY CONTROL MODULE)						
Connector No. B	863	Connector No.	867	Connector No.	876	Connector No. B86	
Connector Name	DRIVER SIDE DOOR SWITCH	Connector Name	REAR COMBINATION LAMP RH	Connector Name	TRUNK LID LOCK ASSEMBLY	Connector Name CARGO AREA COURTESY LIGHT	
Connector Type	A03FW	Connector Type	RS06FGY-PR	Connector Type	NS03FW-CS	Connector Type S02FW	
H.S.		H.S.	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	EIS.	123	Hs.	
Terminal Color Of	Signal Name [Specification]	Terminal Color Of	Signal Name (Specification)	Terminal Color Of	f Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	
t		t	,	t		t	
3 B		2 R		2 LG		2 B -	
		3 B		3 B			
		4 >				-	
Connector No. B	998	9 BG				Connector No. B148	
Connector Name	BACK DOOR SWITCH			Connector No.	877	Connector Name OUTSIDE KEY ANTENNA LH	
Connector Type	AO3FW	Connector No.	870	Connector Name	BACK DOOR OPENER ACTUATOR	Connector Type RK02MGY	
ð	E	Connector Name	REAR FOG LAMP	Connector Type	M04FW-LC	1	
F	<u>-</u> K	Connector Type	RSO2FGY	€		Martin	
E S	<u>-T</u>	€		H.S.	6	H3.	
	3	H.S.	Ę		7 1		
Terminal Color Of]	Terminal Color Of	Γ
No. Wire	Signal Name [Specification]			Terminal Color Of	f Signal Name [Specification]		
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		2 B					

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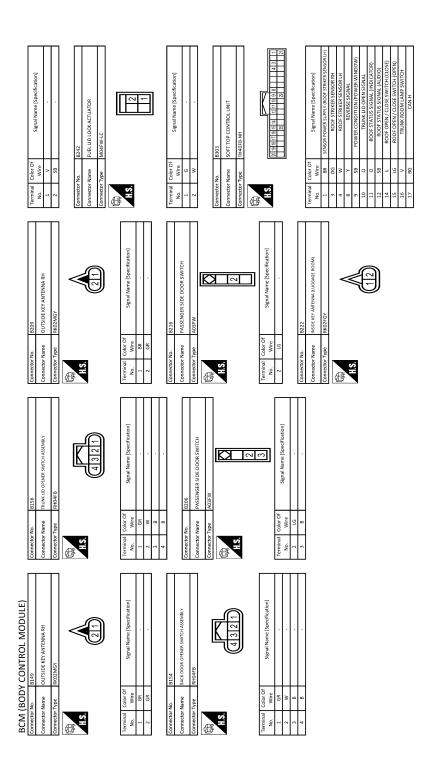
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Connector No. D38 Connector Name POWER WINDOW SUB-SWITCH Connector Type INSIGNW CS MS. 8 9 10 11 12 14 15 16	New Color of Signal Name (Specification) New Second Name Sec
Connector No. 1013 Connector Name 1010 VER SIDE DOOD REQUEST SWITCH Connector Type 100291.	Connector No. Wine Signal Name (Specification) Wine Win
Connector No. 18533 Connector Name POWER SEAT SWITCH Connector Type MOGMAV LC 13 48 6 5 4 3	Ferrimal Aure Signal Name Specification Signal Name Secretication Signal Name Secretication Signal Name Secretication Se
BCM (BODY CONTROL MODULE) 18 P CALL COMMUNICATION (POWER WINDOW) 19 LG LOCAL COMMUNICATION (POWER WINDOW) 20 V LOCAL COMMUNICATION (POWER WINDOW) 23 DG GROUND 23 DG GROUND 23 ROOF OPEN/ALOSE SWITCH (GND) 15 CORRECTOR NATION (CONTROL UNIT CONTROL NATION (CONTROL UNIT CONTROL NATION (CONTROL NAT	Terminal Color Of Signal Name (Specification) Color Of Color Of Signal Name (Specification) Color Of Color O

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Connector No. D45	Connector No. E6	\dashv	Connector No.	E41	
Connector Name PASSENGER SIDE DOOR LOCK ASSEMBLY	Connector Name IPDM F/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	74 G	Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	
Connector Type E06FGY-RS	Connector Type TH08FW-NH	2 >	Connector Type	BAA42FB-AHZ4-LH	
	E	77 R	售		
HS.	H.S. [42] 47] 40] 39]		HS.	ME 1 10 10 10 10 10 10 10	
	46 45 44 43	1 , 1			
Tarminal Color Of	Tarminal Color Of	Connector Type RK02FGY	Terminal Color Of		
No. Wire Signal Name [Specification]	\rightarrow	₹	$\overline{}$	Signal Na	
+	39 Р	≪ Wilson	+	GROUND	
2 [6]	40 L -		2 6	UBMR	
	$^{+}$		╁	GROUND	
Connector No. ES	43 SB		╀	DSFL	
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE	44 W		9 BG	DP RL	
	┞	Terminal Color Of Class Massac Constitution	\vdash	DP RR	
Connector Type TH20FW-CS12-M4-1V	46 V -	No. Wire Signarivanie (Specimeatori)	8 6	DP FR	
4		1 V .	10 W	DS FR	
		2 8 .	14 P	CAN-L	
	Connector No. E7		\dashv	BUS-L	
1213 53 5450 34	Connector Name 1990A E/R (MTELLIGENT POWER DISTRIBUTION MODULE ENSINE		+	DP.FL	
30	Т	Connector No. E28	+	DS RL	
	Connector Type TH20FW-CS12-M4	Connector Name FRONT COMBINATION LAMP RH	+	Zn	
	1	Ι	4	DS RK	
	WHAT I	Connector Type RS06FGY-PR	+	BLS	
Signal Name [Specification]	S 5 5 4 5 5 5 5 5 5 7 5 8 6 9 7 0 7 2 7 3 7 4 7 5 7 6 7 7	4	31 K	VDC OFF SW	
+	4849	季	35	L STO	
+		HIS.	+	1-000	
╀					
- [Roads		8 9 8	Connector No.	E55	
B/W	lei)	Connector Name	SIDE TURN SIGNAL LAMP LH	
+	Wire			nicoscon.	
10 KG	40 PG		adki inagaiiin	MOZFGI	
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Connector No. FS1	Terminal Color Of Signal Name [Specification]	Y IGNITIC W BACK GR ST GR ST CDr No. F3S CDr No. F3S CDr No. CDr No.	Connector Type 8100218	Terminal Color Of Signal Name Specification No. Wire 1 G 2 W
Connector No. E110 Connector Vane SYNTCH Connector Type MOGFW4.1C	Terminal Color Of Signal Name (Specification) Nr. Wire 1 1 	Connector Name CLUTCH INTERLOCK SWITCH Connector Type S02FL	Terminal Color of Signal Name [Specification] No. Wire Signal Name [Specification] 1 6	
Connector No. E103 Connector Name F126 BLOCK (J/B) Connector Type NS16 NV CS (SF 4F 7 2F 1F (SF 4F 7 3F 8F	Terminal Color Of Signal Name (Specification) No. Wire W .	ector No.	HS HS	Verminol Color Of No. Signal Name (Specification) No. Wire Verminol 1 G C Verminol Synchroller Watch model 1 Signal Name (Specification) 1 Signal Name
PCM (BODY CONTROL MODULE) Terminal Color Of Signal Name (Specification) No. Write Signal Name (Specification) O	HS HS	Terminal Color Of Signal Name Specification No. Whre Signal Name Specification 1	1	Terminal Color Of Signal Name [Specification] Nume Specification]

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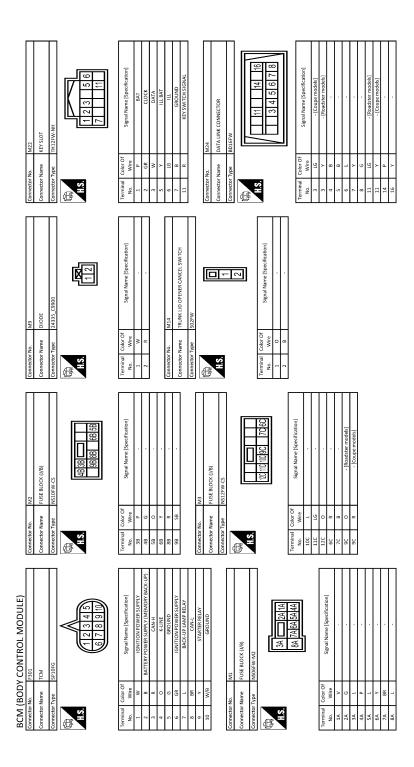
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BCM (Bo	(BOD)	BCM (BODY CONTROL MODULE) Comector No. M33	Conn	Connector No.	M53	Connector No.		M54	Connector No.	No.	M66	
Connector Name	or Name	COMBINATION SWITCH	Conn	Connector Name		Connecte	ne .	COMBINATION METER	Connector Name	r Name	A/CAUTO AMP.	
Connector Type	or Type	TH16FW-NH	S	Connector Type	TH24FW-NH	Connector Type	or Type	TH16FW-NH	Connector Type	r Type	SAB40FW	
Œ			Œ	_		Œ			售			
ĦS.	_	1 2 5 6 7 8 9 40 111 12 13 14	7	H.S.	1 2 3 4 5 6 9 10 12 1 1 2 3 4 5 6 9 10 12 1 5 16 17 18 19 20 21 22 23 24	ĦS.		25 26 27 28 29 32 33 34 34 34 35 38 39 40	HS.		1 2	
		71 11 01 0						20 00 100 100 100				
Terminal No.	Color Of Wire	f Signal Name (Specification)	Terr	Ferminal Color Of No. Wire	Of Signal Name [Specification]	Terminal No.	al Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	
1	۵			1 ^	BATTERY POWER SUPPLY	25	W	ALTERNATOR SIGNAL	1	L	CAN-H	
2	SB	OUTPUT 4	1	2 0		56	0	PARKING BRAKE SWITCH SIGNAL	2	Ь	CAN-L	
ın u	_ 。	OUTPUT3	1	3	VEHICLE SPEED SIGNAL (2-PULSE)	27	97 ^	BRAKE FLUID LEVEL SWITCH SIGNAL	9 1	7 "	TX (AMP_CONT)	
^	>	SKCOND	ľ	+	t	29 29	- 8	WASHER LEVEL SWITCH SIGNAL	, 01	. 8	LAN SIGNAL	
- 00	0	OUTPUTS	Ľ	. B	t	32	9	PADDLE SHIFTER DOWN SIGNAL	=	*	EACH DOOR MOTOR POWER SUPPLY	
6	۶	INPUT 2	Ĺ	9 R	ROOF STATUS SIGNAL	33	0	PADDLE SHIFTER UP SIGNAL	15	0	SUNLOAD SENSOR SIGNAL	
10	œ	INPUT 4	Ĺ	9 BR	Н	34	BR	FUEL LEVEL SENSOR SIGNAL	16	R	INTAKE SENSOR SIGNAL	
11	97	INPUT 1	1	10 L	COMMUNICATION SIGNAL (TRIPLE METER->METER)	32	7	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	17	٦	ACC POWER SUPPLY	
12	Ь	OUTPUT 1	1	12 G	-S-	36	_	PASSENGER SEAT BELT WARNING SIGNAL [For Mexico]	19	8	GROUND	
13	æ	INPUTS	щ	15 L	ACC POWER SUPPLY	36	۵	PASSENGER SEAT BELT WARNING SIGNAL [Except for Mexico]	50	ŋ	IGNITION POWER SUPPLY	
14	O	OUTPUT 2	1	16 R	AIR	37	G	NON-MANUAL MODE SIGNAL	24	0	ECV SIGNAL	
			"	17 B		88	>	MANUAL MODE SHIFT DOWN SIGNAL	56	æ	REAR WINDOW DEFOGGER FEEDBACK SIGNAL	
			1	18 ^	AMBIENT SENSOR SIGNAL	39	_	MANUAL MODE SHIFT UP SIGNAL	27	٦	REAR WINDOW DEFOGGER ON SIGNAL	
Connector No.	or No.	MS0		\dashv	A/CAUTO	40	≥	MANUAL MODE SIGNAL	32	۵	BLOWER MOTOR CONTROL SIGNAL	
Connecto	Connector Name	PUSH-BUTTON IGNITION SWITCH	-7	20 GR	AMBIENT				34	9	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL	
,	,		1	+					£ :	> !	AMBIENT SENSOR SIGNAL	
connector lype	ı iype	TKOSFBR	1	+		Connector No.	1	M63	36	2	IN-VEHICLE SENSOR SIGNAL	
ą			17	23 B		Connecte	Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)	37	g.	SENSOR GROUND	
手				74 Y	FUEL LEVEL SENSOR GROUND	4			38		GROUND	
H.S.	_	1 = 2 3 4 5 6 7 8				Connection 1998	adki Jo	IRRUZEGV	04	-	BAII EKY PUWEN SUPPLY	
Terminal	Color Of Wire	if Signal Name [Specification]										
į	8											
2	~					Terminal	al Color Of	() The state of t				
3	v					No.	Wire	Signal Name [Specification]				
4	BR					н	œ					
2	GR					2	1					
9 1	> >											
\ oo	> a											

Signal Namo [Sportferstion]	orginal realine (obsermentori)	•		•	•		•			
Terminal Color Of	Wire	8	В	9	BR	GR	٨	۸	Ь	
Terminal	No.	1	2	3	4	5	9	7	8	

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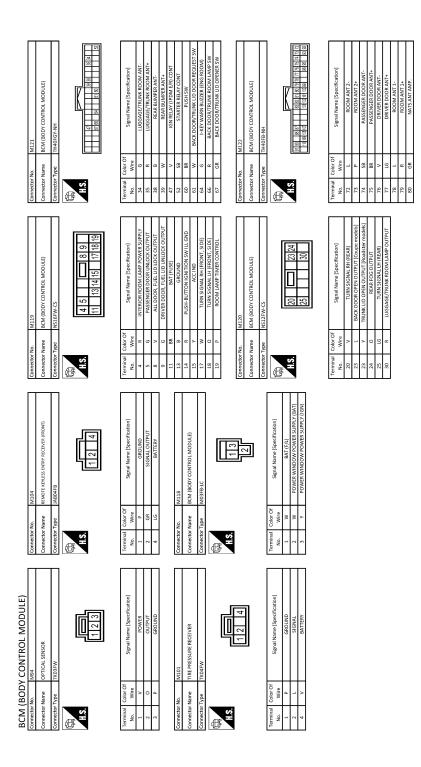
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PWC-69 2016 370Z Revision: 2015 June



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BCM	(BOD)	BCINI (BODT CONTROL MODULE)										
81	Μ		134	GR	LOCKIND	Connector No.	or No.	M144	52	8	SATELLITE RH2 (-)	
82	ď	IGN RELAY (F/B) CONT	137	Ь	RECEIVER &SENSOR GND	Connects	Connector Name	HAZARD SWITCH	53	٠	SATELLITE LH2 (+)	
83	GR	KYLS ENT RECEIVER (FRONT) COMM	138	^	RECEIVER & SENSOR POWER SUPPLY	100	2000		54	BR	SATELLITE LH2 (-)	
87	BR	COMBI SW INPUT 5	139		TIRE PRESS RECEIV COMM	Connector Type		TKO4FW	57	0	DEPLOYMENT_INFORMATIOM_OUTPUT	
88	>	COMBI SW INPUT 3	140	9	P/N POSITION	4			59	1	CAN-H	
90	۵	CAN-L	141	>	SECURITY INDICATOR	彦			09	۵	CAN-L	_
91	_	CAN+H	142	0	COMBI SW OUTPUT 5	ť		[]				
92	97	KEY SLOT ILL	143	Ь	COMBI SW OUTPUT 1	Ŷ	_					
93	۸	ONIND	144	9	COMBI SW OUTPUT 2			3 1 2 4	Connector No.		M256	
56	0	ACC RELAY CONT	145	1	COMBI SW OUTPUT 3				Connector Name		HOLINIS GOVENN	
96	γ	A/T SHIFT SELECTOR POWER SUPPLY	146	SB	COMBI SW OUTPUT 4						In the control of the	
66	В	SHIFT P/CLUTCH PEDAL POS SW	150	GR	DRIVER DOOR SW				Connector Type		TK04FW	
100	GR	PASSENGER DOOR REQUEST SW	151	9	REAR WINDOW DEFOGGER RELAY CONT	Terminal)	Signal Name (Specification)	þ			
101	>	DRIVER DOOR REQUEST SW				No.	Wire		厚			
102	0			ſ			SR.	GROUND	SH/			
103	9	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	Connector No.	T	M137	2	۵	BCM			,	
107	9] ,	COMBI SW INPUT 1	Connector Name		A/T SHIFT SELECTOR	e .	w .	+111			3 1 2 4	
108		COMBI SW INPUT 4		T		4	8	ILL-				
109	>	COMBI SW INPUT 2	Connector Type	1	TK10FW							
110	۵	HAZARD SW	þ				1					_
			医			Connector No.		M147	Terminal	Color Of	Signal Name [Specification]	
Connector No.	No.	M123	H.S.		12 3 4	Connect	Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT	-	e e	GRIONE	_
					01 0 0 10	Connector Type	r Type	NH28FY-EX	2	9	BCM	_
Connector Name	Name	BCM (BODY CONTROL MODULE)			0 / 0		1			88	+111	_
Connector Type	Type	TH40FG-NH				13			4	BG	ILL- [Coupe models]	_
ą						<u> </u>		8 9 7 6 \(\sum_2 5 4 \) 3	4	0	ILL- [Roadster models]	_
臣			Ja.	Color Of	Signal Name [Specification]		_					
S			o ,	Wire				19 52 54 23 24 22	o Management	Γ	63083	_
		130 128 119 119 119 119 119 119 119 119 119 11	1 2	\$ >				18 51 53 60 59 25 57 1	COILLIECTO	Τ	/62//	_
			3 2					ᅦ	Connector Name		INSIDE KEY ANTENNA (CONSOLE)	
			4	8		Terminal	I Color Of		Connector Type	Γ	RKOZEGY	_
			s	9		No.	Wire	Signal Name [Specification]				1
Terminal	Terminal Color Of		9	æ	,	п	91	IGN	ľ		<	
No.	Wire	olgilari valife	7	W		2	8	GND	ŧ		«	
113	0	OPTICAL SENSOR	80	d		8	>	DR1(+)	2		{	
114	В	CLUTCH INTERLOCK SW	6	γ		4	*	DR 1 (-) DR 2 (-)			((1 2))	
115	0		10	В		5	٨	DR 2 (+)				
116	SB	STOP LAMP SW 1				9	>	AS 1 (+)				
118	۵	STOP LAMP SW 2				7	>	AS 1 (-)				
119	88	DR DOOR UNLOCK SENSOR				œ	>	AS 2 (+)	Terminal	Color Of	[acjangjious] county [conj)	_
121	œ	KEY SLOT SW				6	>	AS 2 (-)	No.	Wire	ognativante [opecification]	
123	Μ	IGN F/B				18	ч	ECZS (+)	1	9	- [Roadster models]	
124	91	PASSENGER DOOR SW				19	_	ECZS (-)	1	Ь	- [Conpe models]	
129	0	TRUNK LID OPENER CANCEL SW				22	SHIELD	GND	2	1	- [Coupe models]	
130	٦	REAR DEFOGGER SW				23	R	AIRBAG W/L	2	В	- [Roadster models]	
132	^	P/W SW & SOFT TOP C/U COMM [Roadster models]				24	Ь	SEAT BELT				
132	>	POWER WINDOW SW COMM [Coupe models]				25	R	CUTOFF TELLTALE				
133	g	PUSH BUTTON IGNITION SW ILL POWER				51	W	SATELLITE RH2 (+)				

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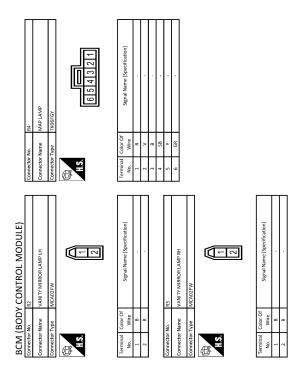
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PWC-71 2016 370Z Revision: 2015 June



JRMWH3560GB

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

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Display contents of CONSULT	Fail-safe	Cancellation
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 $ON \rightarrow OFF$
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
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)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
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
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)

DTC Inspection Priority Chart

INFOID:0000000012104166

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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Revision: 2015 June **PWC-73** 2016 370Z

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< ECU DIAGNOSIS INFORMATION >

[COUPE]

Priority	DTC
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2608: STARTER RELAY B2608: STARTER RELAY B2607: ENG STATE SIG LOST B2614: BCM B2615: BCM B2616: BCM B2617: BCM B2618: BCM B2618: BCM B2618: CLUTCH SW B2626: VEHICLE TYPE B2668: CLUTCH SW B2668: CLUTCH SW B266A: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
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 PWC-14, "COM-MON ITEM: CONSULT Function (BCM - COMMON ITEM)".

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
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-49
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-50
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-51

< ECU DIAGNOSIS INFORMATION >

[COUPE]

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference
B2190: NATS ANTENNA AMP	×	_	_	_	<u>SEC-46</u>
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-49
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-50</u>
B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-52</u>
B2195: ANTI SCANNING	×	_	_	_	SEC-53
B2553: IGNITION RELAY	_	×	_	_	PCS-54
B2555: STOP LAMP		×	_	_	SEC-54
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-56
B2557: VEHICLE SPEED	×	×	×	_	SEC-58
B2560: STARTER CONT RELAY	×	×	×	_	SEC-59
B2562: LOW VOLTAGE	_	×	_	_	BCS-52
B2601: SHIFT POSITION	×	×	×	_	SEC-60
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-63</u>
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-66
B2604: PNP SW	×	×	×	_	SEC-69
B2605: PNP SW	×	×	×	_	SEC-71
B2608: STARTER RELAY	×	×	×	_	<u>SEC-73</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-56
B260F: ENG STATE SIG LOST	×	×	×	_	<u>SEC-75</u>
B2614: BCM	_	×	×	_	PCS-58
B2615: BCM	_	×	×	_	PCS-61
B2616: BCM	_	×	×	_	PCS-64
B2617: BCM	×	×	×	_	<u>SEC-79</u>
B2618: BCM	×	×	×	_	PCS-67
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-68
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-82</u>
B2621: INSIDE ANTENNA	_	×	_	_	DLK-284
B2622: INSIDE ANTENNA	_	×	_	-	• <u>DLK-86</u> (Coupe) • <u>DLK-286</u> (Road- ster)
B2623: INSIDE ANTENNA	_	×	_	_	• <u>DLK-88</u> (Coupe) • <u>DLK-288</u> (Road- ster)
B26E8: CLUTCH SW	×	×	×	_	SEC-76
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)		<u>SEC-78</u>
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	W/T 24
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>
C1707: LOW PRESSURE RL	_	_	_	×	

< 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
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT-26
C1710: [NO DATA] RR	_	_	_	×	<u>W1-20</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-29
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-33</u>

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

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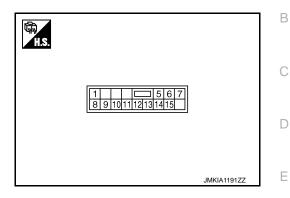
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POWER WINDOW MAIN SWITCH

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 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	In this control	la a cot	IGN SW ON	12
(Y)	Ground	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	15 10 5 0

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[COUPE]

	inal No. e 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

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Wiring Diagram - POWER WINDOW CONTROL SYSTEM -INFOID:0000000011735550 Α PASSENGER SIDE POWER WINDOW MOTOR D40 ENCODER - N95 В ★: This connector is not shown in "Harness Layout"
 ⟨CP⟩: Coupe models

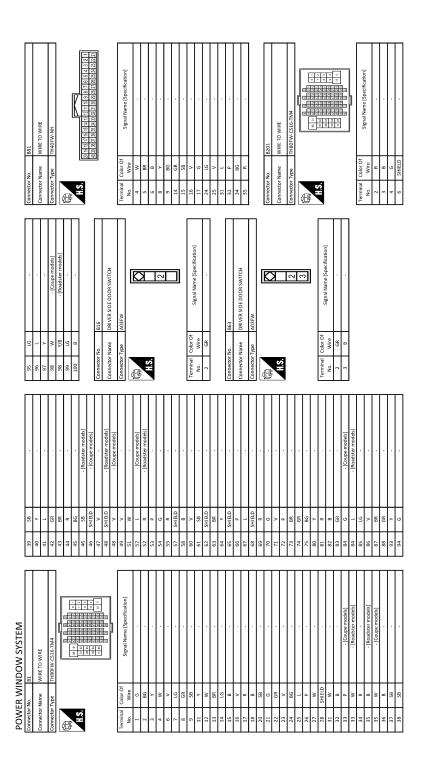
 ⟨RS⟩: Roadster models

 *1 97: ⟨CP⟩

 92: ⟨RS⟩

 *2 14: ⟨CP⟩

 7: ⟨RS⟩
 BETWEEN FULL STROKE AND N DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR KEY CYLINDER SWITCH) (D15) C POWER WINDOW SUB-SWITCH (D38) LOCK BETWEEN FULL STROKE AND N D ILLUMINATION MODULE Е F M124 D31 15 M5 G ENCODER \$ [<u>8</u> Н B81 MODULE J 14 15 103 BCM (BODY CONTROL MODULE) ILLUMI-NATION PWC M118, (M119), (M122), (M123) 30 M117 POWER WINDOW MAIN SWITCH DB L POWER WINDOW SYSTEM 10 10 M117 M BATTERY Ν 2010/09/22 0 (E)



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≥ ≥	POWER WINDOW STSTEIN 7 B	88	>	[Sounamodes]	Connector No	R301	10	c	TRINK ID OPEN SONA
:[>	[Doodstor models]	3 8	٠ ۽	[responsed]		Τ	2	, ,	DOOR STATE STATE OF THE PROPERTY OF THE PROPER
۽ اء	- [Koadster madels]	93	3 (- [Roadster models]	Connector Name	ne WIRE TO WIRE	1 5	0	POOF STATUS SIGNAL (INDICATOR)
<u>ا</u>	[siapoul adhon] -	94	9	[stanout jatsnpoul -	1	THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	17	٩.	ACOF STATUS SIGNAL (AUDIO)
. ا ۽	- [Kodaster models]	5 1	SHIELD	- Iconbe models	CONTRECTOR 19	1	1	-	ROOF OPEN / CLUSE SWITCH (CLUSE)
اً۔		35	ž	- [Coupe models]	ą		g	2	ROOF OPEN / CLOSE SWITCH (OPEN)
~		98	97	- [Roadster models]	昼		16	^	TRUNK ROOM LAMP SWITCH
U		26	9	- [Coupe models]	ŧ		17	BG	CAN-H
~		- 6	٨	- [Roadster models]	2	02 05 00 25 00 21 05 05 05 05 05 05 05 05 05 05 05 05 05	18	Ь	CAN-L
۱		86	≥	- [Coupe models]		2 2 4 2 6 7 8 10 11 21 11 11 12 13 14 13 10 11 18 18 20 10 10 10 10 10 10 10 10 10 10 10 10 10	19	93	LOCAL COMMUNICATION (POWER WINDOW)
≥		86	4/Β	- [Roadster models]			20	>	LOCAL COMMUNICATION (BCM)
1		66	9				21	æ	SENSOR POWER SUPPLY (ROOF STRIKERSENSOR RH
l,		100	8	- [Coupe models]			52	8	GROUND
1		100	>	- [Roadster models]	Terminal	Color Of	25	۵	BOOF OPEN / CLOSE SWITCH (GND)
۳,						Wire Signal Name [Specification]			
۵					4	. 91			
1		Connector No.	No.	8206	5		Connector No.	or No.	D1
SHELD		L			9				
BB BB		Connector Name	Name	PASSENGER SIDE DOOR SWITCH		. 0	Connect	Connector Name	WIRE TO WIRE
L		Connector Type	Type	A03FW	6		Connector Type	or Type	TH40FW-CS15
SHELD					14	88			
ľ	- [Coune models]	Œ		K	15	88	Œ	_	
. ا	- (Roadster models)	£.		K	16		进		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1	[Doodstor models]	Š		_	-		\ \ \		12 2 4 2 2 4 8 8 7 10 11 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Л.	[spagare models]			I	3				48454443421410133383738 [28250423222121319181718
اي	- [Coupe models]			2	24	`			ड्स्ड्राइड्डाइड्डाइड्डाइड्डाइड्डाइड्डाइड्डा
ا ۵				٣	52	91			
≥				2	31				
GR					32	р			
		Terminal	Color Of	Complete Special Speci	34	. 0	Terminal	I Color Of	Control Name (Control of
ı		No.	Wire	olgnal ivame [opecification]	32		No.	Wire	olgnar vame [opecification]
ı		2	97	,			9	SHIELD	,
SB		m	80				7	>-	
BG					Connector No.	B303	∞	>	
>						Γ	6	U	
۱.		Connector No.	No.	B216	Connector Name	ne SOFT TOP CONTROL UNIT	10	98	
1		L			Connector Type	e TH40FB-NH	11	۵	- [With BOSE system]
l _o		Connector Name	Name	PASSENGER SIDE DOOR SWITCH			11	>	- [Without BOSE system]
۱.	- [Roadster models]	Connector Type	Type	A03FW	Œ		12	-	
1	- [Coupe models]						13	8	
89	- [Coupe models]	1		K	2		14	88	- [Coune models]
1	- [Boadster models]	卖		K		2 4 8 8 11 11 11 11 11 11 11 11 11 11 11 11	14	>	- [Roadster models]
1	(slandaring)	Š		_		35 1 29 1 21		-	(space model)
1	[siapoul adhon] -			Ī			ct ct	* >	
- 1	- [conbe models]			7			FI	-	
- 1	- [Roadster models]						23	4/В	
	-]	Terminal	Color Of Signal Name (Specification)	25	w.	-
					No.	Wire	56	SHIELD	
۱.	- [Coupe models]	Terminal	Color Of	8		BR SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)	32	9	
≥	- [Roadster models]	No.	Wire	Signal Name (Specification)	9	DG ROOF STRIKER SENSOR RH	44	-	
≥		2	91	,	4		47	8	•
1.	- [Roadster models]		:				48	SB	,
8	- [Count models]	_			6	SB POWER CONDITION (POWER WINDOW)	64	3	
					-			:	

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Connector No. D38	Connector Name POWER WINDOW SUB-SWITCH	Т	Connector Type NS16FW-CS			3 4	8 0 10 1110	2 10 11 17			nal Color Of Signal Name [Specification]	t	98	JO NP	BR DOWN	M	B GND	R ENCODER SIG 1	Y DOOR SWITCH [Roadster models]	91	Y SERIAL LINK			Connector No. D40	Connector Name PASSENGER SIDE POWER WINDOW MOTOR		Connector Type FHB06FGY-Z			J.	W11213	()		nal Color Of Cincal Manual Control Control	Wire	. 9			. BG	. 91	_
D31 Connec	WIRE TO WIRE		TH40FW-CS15 Connec	(á		15 14 13 12 11 10 9 8 7 8 5 4 3 2 1	38 28 28 28 28 28 28 18 18 18 18 18 18	23 24 24 24 24 24 24 24 24 24 24 24 24 24			Signal Name [Specification] No		4		- [Without BOSE system] 9	- [With BOSE system] 10	- [With BOSE system] 11	- [Without BOSE system] 12	- 14					Connec	-	-	- Connec				CUT .					Terminal	No.	1	2	E	4	5	4
Connector No.	Connector Name	T	Connector Type	ą	序	S.					Terminal Color Of	t	7 0	11 16	12 LG	12 P	13 L	13 V	14 8	15 W	19 γ	23 Y/B	25 R	26 SHIELD	35 G	44 L	> 05	51 Y	52 G	53 BG	54 GR	1 22			I -	1	Γ			1			
Connector No. D10	Connector Name DRIVER SIDE POWER WINDOW MOTOR	Т	Connector Type FHB06FGY-Z	<i>x</i>		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		4 2 6			Terminal Color Of Signal Name [Specification]	$^{+}$	2 R	3 BR	4 86 -	. 91 5	- 1 9			Connector No. D15	VIGNATOR ADDITION TO DESCRIPTION OF THE PROPERTY OF THE PROPER		Connector Type E06FGY-RS				<u>ي</u>	(12 3 4 5 0)				Terminal Color Of Signal Name (Specification)	No. Wire Signal Name [Specification]	1 86 .	2 6	3 SB	4 8		GR -				
POWER WINDOW SYSTEM 50 16	Con		Con-		3		80		POWER WINDOW MAIN SWITCH	NS16FW-CS	Ten	1	1 4 5 6 /	8 9 10 11 12 13 14 15	2			100000000000000000000000000000000000000	oignai ivame [opecification]		DOOR SWITCH [Roadster models]		DOOR KEY CYLINDER LOCK Conf		B dn	ENCODER SIG 2		DOWN	SERIAL LINK [Coupe models]	SERIAL LINK [Roadster models]	ENCODER SIG 1	ONS											
POWER WINI	51 R	+	+	+	55 G		Connector No. D	Ī	Connector Name PC	Connector Type NS		=	Ż.					Terminal Color Of	No. Wire	1 W	γ γ	5 BG	6 GR	۷ /	7 8	97 6	\dashv	11 BR	12 SB	12 Y	13 R	14 6	15 B										

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POWER WINDOW MAIN SWITCH

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POWER Connector No.	ER WII	POWER WINDOW SYSTEM Connector No. E106	82	9		Connector No		MS	Connector No.		M6	
Connector Name	r Name	WIRETOWIRE	83	> -		Connector Name		WIRE TO WIRE	Connector Name		WIRE TO WIRE	
Connector Type	r Type	TH80FW-CS16-TM4	85	Н		Connector Type	П	TH40MW-CS15	Connector Type	П	TH80MW-CS16-TM4	
Œ	_		86	91 0	,	Œ			₫.			
F			68	+		The state of the s		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	事			
2	_	T	91	W		2 E		olean federal	2		3 B 7 C 3 B 7 C 3 B 7 C	
		шī	92	+	,			7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
			5	9 3			<u></u>					
			96	+	, ,							
Terminal	Color Of	functional Name of Street	86	GR		Terminal	Color Of	Construction of a second second	Terminal	Color Of	(==:==:g:===:g)====:N(===:g)	
No.	Wire		66	91		No.	Wire	ognal warne (specification)	No.	Wire	signal Name (specification)	
1	٨		100	98 C		9	SHIELD		1	٨		
8	٦					7	>		3	٦		
4	1					00	٨		4	-		
7	В		Conne	Connector No.	M1	6	9		7	8		
∞	۵		Jonna	Connector Name	FLISE RLOCK (1/B)	10	>		8	۵		
6	В	-				11	^	- [Without active noise control]	6	8	-	
11	>		Conne	Connector Type	NS06FW-M2	11	>	- [With active noise control]	11	GR		
12	æ	-	4	•		12	BR	- [With active noise control]	12	æ	-	
13	٦,		ß	_		12	٦	- [Without active noise control]	13	٦		
14	GR		Ŧ	ē	30	13	8		14	9		
15	Ь	-	1	2		14	٨	-	15	Ь	-	
16	W				84 7A 6A 5A 4A	15	Μ		16	Μ		
17	88					19	>		17	æ		
20	FIG.					23	4/Β		20	B.		
21	æ	- [Coupe models]		·		25	>		21	~		
21	g	- [Roadster models]	Termina	0	- Of Signal Name (Specification)	26	SHIELD		31	æ		
31	_		No.	Wire		35	BR		32	>		
32	>		14	>		44			36	SB		
36	>		2A	9		47	В		37	>		
37	>		3,4	_		48	88		38	91		
38	ď		44	۵.	,	49	>		39	SB	,	
33			SA	+		20	*		40	>	•	
40	>		9	\dashv		51	~		41	91	,	
41	P]		7,4	BB		52	_		42	œ		
42	SB		8A			23	Α		43	g		
43	O					54	U		44	g	- [With A/T]	
44	GR	 [Except for roadster models with M/T] 				55	æ		44	œ	- [With M/T]	
44	ď	- [Roadster models with M/T]							45	0		
45	BG	•							46	9	*	
46	W								47	BR		
47	а								28	SHIELD		
28	SHIELD								59	1		
29	1								70	В		
20	4								80	91		
80	Μ								81	GR		
81	۵								82	>		

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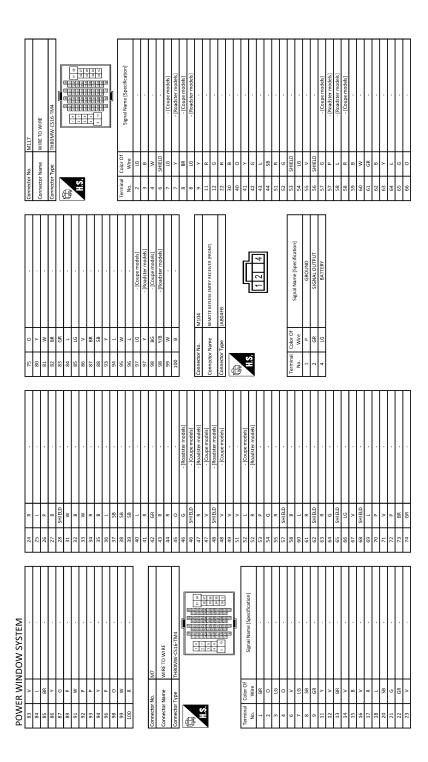
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		Connector No.	or No.	M119	_] 	\dashv	^	NATS ANT AMP.	134	g	LOCK IND
		Connecto	Connector Name	BCM (BODY CONTROL MODULE)		+	2	IGN RELAY (F/B) CONT	137	۵.	RECEIVER &SENSOR GND
] 	+	g g	KYLS ENT RECEIVER (FRONT) COMM	138	>	RECEIVER & SENSOR POWER SUPPLY
		Connector Type	r Type	NS16FW-CS		87 E	BR	COMBI SW INPUT 5	139	٦	TIRE PRESS RECEIV COMM
			-			88	^	COMBI SW INPUT 3	140	9	P/N POSITION
		E				06	Ь	CAN-L	141	Υ	SECURITY INDICATOR
		ŧ		<u> </u>	L	91	_	CAN-H	142	0	COMBI SW OUTPUT 5
		2	_	4 5	L	92	97	KEY SLOT ILL	143	۵	COMBI SW OUTPUT 1
				11 13 14 15 17 18 10	L	_	>	DNIND	144	g	COMBI SW OUTPUT 2
				0 1	L	L	0	ACC RELAY CONT	145	_	COMBI SW OUTPUT 3
					L	96	>	A/T SHIFT SELECTOR POWER SUPPLY	146	SB	COMBI SW OUTPUT 4
- [Coupe n	models]				L	66	<u>~</u>	SHIFT P/CLUTCH PEDAL POS SW	150	£	DRIVER DOOR SW
- [Roadster	r models]	Terminal	I Color Of	3	Ľ	H	GR	PASSENGER DOOR REQUEST SW	151	9	REAR WINDOW DEFOGGER RELAY CONT
- [Coupe models]	models]	No.	Wire	ognal Name [opecification]	[101	>	DRIVER DOOR REQUEST SW			
- [Roadster models]	r models]	4	œ	INTERIOR ROOM LAMP POWER SUPPLY	Ľ		0	BLOWER FAN MOTOR RELAY CONT			
- [Roadster	r models]	2	9	PASSENGER DOOR UNLOCK OUTPUT	Ľ	103	91	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	Connector No.	or No.	M124
- [Coupe models]	models]	∞	>	ALL DOOR, FUEL LID LOCK OUTPUT	Ľ	107	97	COMBI SW INPUT 1			- C- L- L- C- L- L- C- L- L- C- L-
- [Roadster models]	r models]	6	9	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	Ľ	108	~	COMBI SW INPUT 4	Connecto	or Name	WIRE IO WIRE
- Coupe	models	11	æ	BAT (FUSE)	Ľ	109	 -	COMBI SW INPUT 2	Connector Type	or Type	TH40MW-CS15
- [Coupe models]	models	13	-	GROUND	ľ	110		HAZARD SW			-
- Roadster models	r models	14	œ	PUSH-BUTTON IGNITION SW ILL GND	<u> </u>				Œ		
- [Coupe models]	models	15	>	ACCIND					The state of the s		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
- Roadster models	r models]	17	>	TURN SIGNAL RH (FRONT, SIDE)	ő	Connector No.	M123	23	H.S		
		18	0	TURN SIGNAL LH (FRONT, SIDE)	L	:	Γ				16.17.18.19.20.21.22.22.22.22.28.28.28.28.28.28.28.28.28.
- [Coupe models]	models	19	۵	ROOM LAMP TIMER CONTROL	5	Connector Name		BCM (BODY CONTROL MODULE)			elicificalicalicalis
- [Roadster	r models]				<u>[5</u>	Connector Type	Γ	TH40FG-NH			
		Connector No	i i	56133	Γ				Toronton	o solo	
				77714	手~	Ţ			N		Signal Name [Specification]
BCM (BODY CONTROL MODILIE)	ia ii de	Connector Name	or Name	BCM (BODY CONTROL MODULE)	1	2	Ė	COLOR INSTITUTION INSTITUTION INSTITUTION	6	SHIELD	-
	(magazi	Connector Type	r Type	TH40FB-NH			35		10	ŋ	
M03FB-LC		0	-				1		11	۸	•
									12	91	- [Without active noise control unit]
L	Г	ŧ		[12	>-	- [With active noise control unit]
<u> </u>		2	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ter	Terminal Col	Color Of	21 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 1	13	BR	- [With active noise control]
•	3			200000000000000000000000000000000000000	15	No.	Wire	oignativanie Lopecinicationi	13	^	- [Without active noise control]
<u>;</u>	7-			Post les	L an	113	0	OPTICAL SENSOR	14	8	
7					Ľ	114	~	CLUTCH INTERLOCK SW	15	≥	
IJ	7				Ľ	H	0		19	>	,
		Terminal	I Color Of	3	Ľ	116	SB	STOP LAMP SW 1	23	4/β	
20		No.	Wire	ognal Name [opecification]	ľ	118	۵	STOP LAMP SW 2	25	3	
signal ivame (specification)	pecification	7.5	_	ROOM ANT 2-	Ľ	119	SB	DR DOOR UNLOCK SENSOR	56	SHIELD	
BAT (E/U)	73	۵	ROOM ANT 2+	Ľ	L	~	KEY SLOT SW	32	80	
POWER WINDOW PO	OWER SUPPLY (BAT)	74	SB	PASSENGER DOOR ANT-	Ľ	123	8	IGN F/B	44	0	
OWER WINDOW PC	POWER WINDOW POWER SUPPLY (IGN)	75	BR	PASSENGER DOOR ANT+	Ľ	L	91	PASSENGER DOOR SW	20	>	
		76	>	DRIVER DOOR ANT-	⁻	129	0	TRUNK LID OPENER CANCEL SW	51	>	
		77	91	DRIVER DOOR ANT+	Ľ	130	_	REAR DEFOGGER SW	52	æ	
		78	_	ROOM ANT 1-	<u> </u>	132	V P/V	P/W SW & SOFT TOP C/U COMM [Roadster models]	23	*	
		79	œ	ROOM ANT 1+		132	<u>ه</u> ۲	POWER WINDOW SW COMM [Coupe models]	24	ŋ	
		08	æ	NATS ANT AMP.	Ľ	ŀ	_G	PUSH BLITTON IGNITION SWILL POWER	55	~	
		3		THE PROPERTY OF THE PARTY OF TH	_				S	-	

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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

[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 operate.

- 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.

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

[COUPE]

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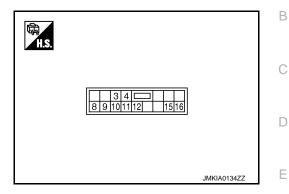
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POWER WINDOW SUB-SWITCH

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

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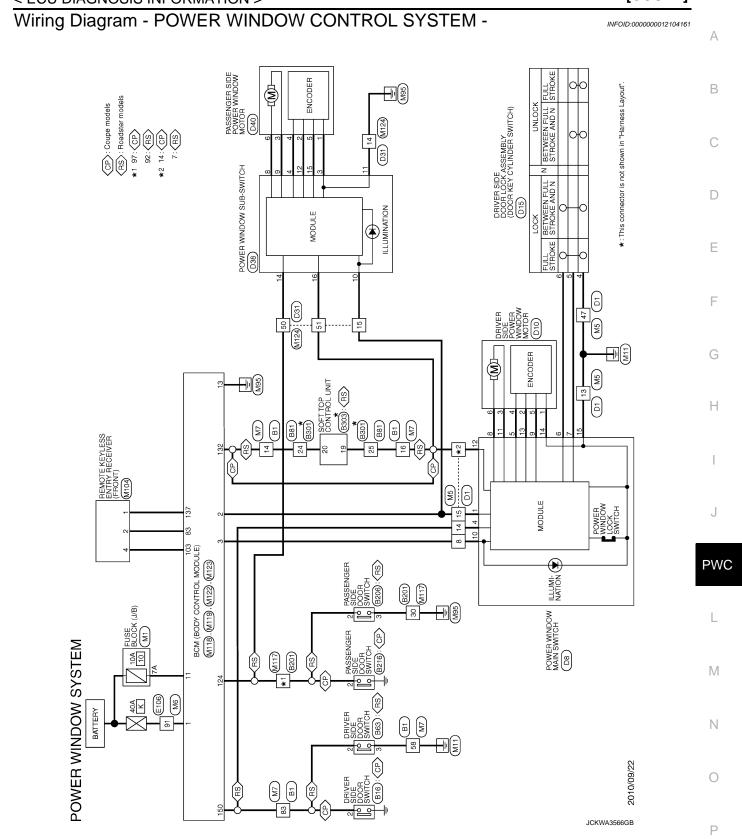
POWER WINDOW SUB-SWITCH

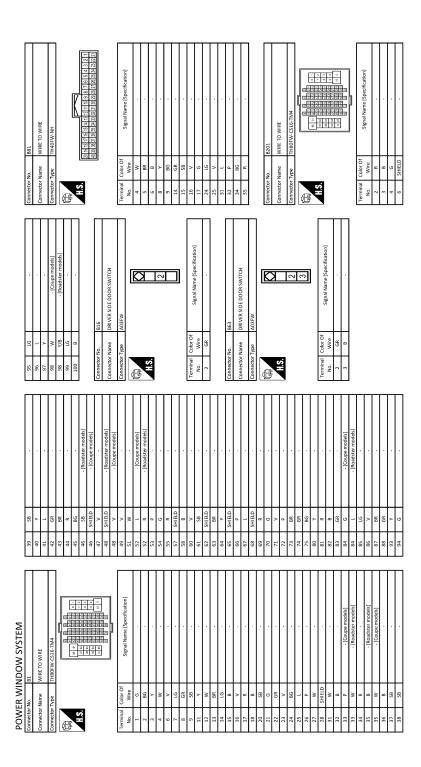
< ECU DIAGNOSIS INFORMATION >

[COUPE]

	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
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 0 10 ms JPMIA0013GB

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TRUNK IID OPEN SIGNAL	ROOF STATUS SIGNAL (INDICATOR)	ROOF STATUS SIGNAL (AUDIO)	ROOF OPEN / CLOSE SWITCH (CLOSE)	ROOF OPEN / CLOSE SWITCH (OPEN)	TRUNK ROOM LAMP SWITCH	CAN-H	CAN-L	LOCAL COMMUNICATION (POWER WINDOW)	LOCAL COMMUNICATION (BCM)	SENSOR POWER SUPPLY (ROOF STRIKERSENSOR RH)	GROUND	ROOF OPEN / CLOSE SWITCH (GND)								15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	प्रकारक व्यवस्थान	44.847 SECURIOR SECUR	. I II			Signal Name [Specification]					- [With BOSE system]	· [Without BOSE system]	,		- [Coupe models]	- [Roadster models]							
1	╀		L ROOF C	LG ROOF C	/ TRI	BG		LG LOCAL COM	/ LOCA	П	DG De	ROOF			10	e WIRE TO WIRE	TH40FW-CS15			15 14 13 12 1	ne se	4846363636364			L		SHIELD			58	3 4		_	8	SB	,	M :	× 8		SHIELD	9		a
10	+	H	14	15 U	16 \	17 B	18 F	19 L	70 \	21 B	29 D	35 F			Connector No.	Connector Name	Connector Type		E C	Ę	é				Terminal Color Of		HS 9	7		+	╀	11	12	\dashv	\dashv		+	19	+	+	t	┝	H
B301	4000	WIRE TO WIRE	TH40MW-NH				1 2 3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18 19 20	1 2 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				If Signal Name (Specification)																	8303	SOFT TOP CONTROL UNIT	TH40FB-NH				20 19 18 17 16 15 14 12 11 10 9 8	28		•	-	Signal Name [Specification]	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)	ROOF STRIKER SENSOR RH	BOOF STRIKER SENSOR I H
Connector No.		Connector Name	Connector Type		B	ŧ	Ż) ler	_	4 LG	2 0	- C	ł	14 BR	15 BR	16 W	17 DG	24 V	+	31 BG	32 P	╁			Connector No.	Connector Name	Connector Type		F	Ě	2				Torminal Color Of		t	9 Be	791
- [Coune models]	- [Roadster models]	- [Roadster models]	- [Coupe models]	- [Coupe models]	- [Roadster models]	- [Coupe models]	- [Roadster models]	- [Coupe models]	- [Roadster models]		- [Coupe models]	- [Roadster models]			B206	PASSENGER SIDE DOOR SWITCH	A03FW		<u>K</u>	<u>K</u>	<u> </u>	2	m]		Signal Name [Specification]				8316		PASSENGER SIDE DOOR SWITCH	A03FW		C	<u>x</u>	Ī	2]		Signal Name [Specification]	
>	. >	9	SHIELD	GR	91	91	٨	W	٨/8	9	BR	٨			r No.	r Name	r Type				_				Color Of		91	8		r.No		r Name	r Type				_				Color Of	Wire	9
8	68	94	94	95	95	46	6	86	86	66	100	100			Connector No.	Connector Name	Connector Type		E		Ź				Termina	No.	2	m		Connector No		connector warne	Connector Type	ģ	F) I					Termina	No.	2
models	Roadster models]	- [Coupe models]	- [Roadster models]																- [Coupe models]	- [Roadster models]	- [Roadster models]	- [Coupe models]											- [Roadster models]	- [Coupe models]	- [Coupe models]	- [Roadster models]	- (Coupe models)	- [Coupe models]	- [vodostel models]		- [Coupe models]	- [Roadster models]	
Jane 1	-																																										
7 8		- BR		٨	В	9	В	8	W	۸	9	1	SB	-	_ L	SHIELD	<u></u>	SHIELD	9	d	1	ж	80	w c	ž a	· >	>	SB	BG:	> 0		9	8	^	GR	1	۵.	_	⊾ α	. «	0 00	W	W

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Connection In D.O.	I	Connector Name POWER WINDOW SUB-SWITCH	Т	Connector Type NS16FW-CS				3 4	37 37 77 07 07 0	9 10 11 17 14 13			T	No. Wire Signal Name (Specification)	0	4 BG ENCODER PWR	8 r	9 BR DOWN		8	12 R ENCODER SIG 1	14 Y DOOR SWITCH [Roadster models]	15 LG ENCODER SIG 2	16 Y SERIAL LINK			Connector No. D40	Connector Name DASSENGER SIDE DOWER WANDOW ANDTOR		Connector Type FHB06FGY-Z			J.	(12 3)	N 5 8)		Terminal Color Of	No. Wire Signal Name (Specification)	1 6	2 R -	3 88	4 BG	╀	
Connected Mo ROL	Ī	Connector Name WIRE TO WIRE	٦	Connector Type TH40FW-CS15	ľ		1 0 0 1 2 8 7 8 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8	1 7 2 4 6 6 7 6 6 7 1 7 1 6 1 1 1 2 6 7	8	[55] 55] 55] 55] 55] 56] 45] 45] 47] [55] 55] 55] 55] 55] 55] 55]			Ti1		t	. v	11 16	12 LG - [Without BOSE system]	۵	-	>	14 B -	15 W -	19 γ	23 Y/B	25 R -	26 SHIELD -	35 G .	44 L -	- × 09	51 Y -	52 6 -	53 BG ·	5.4 GR .	. 1 29											
Connection No.	T	Connector Name DRIVER SIDE POWER WINDOW MOTOR	Т	Connector Type FHB06FGY-Z				1.5		74 2 6 7 7 7 7 7 7 7 7 7			T	No. Wire Signal Name [Specification]	t	2 R	3 88	4 86	. 91				Connector No. D15	Г	Connector Name DRIVER SIDE DOOR LOCK ASSEMBLY	Connector Type E06FGY-RS	ú	10000000000000000000000000000000000000			(123456)				Terminal Color Of Signal Manual Specification	No. Wire Signal Name [Specification]	1 86	2 6	3 SB	4 B	· · · · · · · · · · · · · · · · · · ·	6 GR -				
바	no no	51 R	4	_	54 GR -	H	1		Connector No. D8	3	Connector Name POWER WINDOW MAIN SWITCH	Connector Type NS16FW.CS	1			1 4 5 6 7	8 0 10 11 12 13 14 15	1 0 1			Terminal Color Of	No. Wire Signal Name [Specification]	1 W BAT	4 Y DOOR SWITCH (Roadster models)	5 BG ENCODER PWR	6 GR DOORKEY CYLINDER LOCK	7 V DOOR KEY CYLINDER UNLOCK	8 L UP	9 LG ENCODER SIG 2	٨	L	12 SB SERIAL LINK [Coupe models]	12 Y SERIAL LINK [Roadster models]	В	14 G ENCODER GND	15 B GND										

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POWER WINDOW SUB-SWITCH

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ctor No.	82 0 6 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 > 1 8 9 8 6 9 7 0 >		Connector No.	e e	M5 WIRETO WIDE	Connector No.	Т	M6
WIRE TO W	Connected Connected	> 1 8 9 8 8 1 9 ×		Connec	tor Name	AND TO THE PERSON OF THE PERSO			
TH80FW.C3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	B6			•	WIRE TO WIRE	Connector Name		WIRE TO WIRE
Solver Of V V V V V V V V V V V V V V V V V V	86 89 89 89 89 89 89 89 89 89 89 89 89 89	P		Connec	Connector Type	TH40MW-CS15	Connector Type	П	TH80MW-CS16-TM4
Color Of Wire Y L L L B	Sonnect Connect Connec	,		H.S.		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 10 11 12 13 14 15 18 18 18 18 18 18 18	E.S.		
→ 1 1 8	Connecte	- 68 - 1		Terminal No.	\vdash	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1 9	Connecte	88		9 1	SHIELD			-	
Н	Connecte			- 00			0 4	-	. ,
	Connect	Г	M1	6	9		7	8	
8 Р	and of	Г	ELISE BLOCK (1/8)	10	>		∞	۵	
\dashv	Connect	Π	(0.6)	11	>	- [Without active noise control]	6	8	
-	COMMERCE	Connector Type	NS06FW-M2	11	>	- [With active noise control]	11	g.	
12 R .	1			12	· 88	- [With active noise control]	12	œ .	
+	季			12	7	- [Without active noise control]	13	-	,
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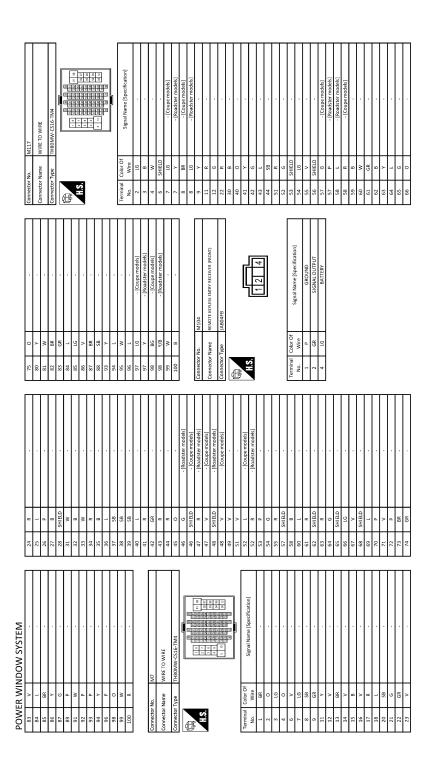
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97	- [Coupe models]				66	œ	SHIFT P/CLUTCH PEDAL POS SW	150	8	DRIVER DOOR SW
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В	- [Coupe models]	No.	Wire	Signal Name [Specification]	101	>	DRIVER DOOR REQUEST SW			
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o	- [Roadster models]	S	9	PASSENGER DOOR UNLOCK OUTPUT	103	91	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	Connector No.	.No.	M124
SHELD	- (Coupe models)	00	>	ALL DOOR, FUEL LID LOCK OUTPUT	107	9	COMBI SW INPUT 1			
97	- [Roadster models]	01		DRIVER DOOR, FUEL LID UNLOCK OUTPUT	108	~	COMBI SW INPUT 4	Connector Name	Name	WIRE TO WIRE
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ź >	- [Roadster models]	67		NOOM CAMP TIMEN CONTROL	Connector Type	Τ	TH40FG-NH		מ	
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		78	_	ROOM ANT 1-	132	>	P/W SW & SOFT TOP C/U COMM [Roadstermodels]	23	×	
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		80	GR	NATS ANT AMP.	133	9	PUSH BUTTON IGNITION SW ILL POWER	22	æ	

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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 SUB-SWITCH

[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 operate.

- 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.

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.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

Refer to PWC-17, "BCM: Diagnosis Procedure".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "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 INFOID:0000000011735557

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

Diagnosis Procedure

INFOID:0000000011735558

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

Check power window main switch power supply and ground circuit.

Refer to PWC-17, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DRIVER SIDE POWER WINDOW MOTOR

Check driver side power window motor.

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

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "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:0000000011735559 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:0000000011735560 ${f 1}$.CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT D Check power window sub-switch power supply and ground circuit. Refer to PWC-18, "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-30, "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-45, "Intermittent Incident". NO >> GO TO 1. WHEN POWER WINDOW SUB-SWITCH IS OPERATED WHEN POWER WINDOW SUB-SWITCH IS OPERATED: Description INFOID:0000000011735561 **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:0000000011735562 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-18, "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-45, "Intermittent Incident". >> GO TO 1. WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-**SWITCH**

Revision: 2015 June **PWC-99** 2016 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:0000000011735563

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:0000000011735564

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-21, "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-45, "Intermittent Incident".

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

ANTI-PINCH FUNCTION DOES NOT OPERATE	[COURT]	
< SYMPTOM DIAGNOSIS >	[COUPE]	
ANTI-PINCH FUNCTION DOES NOT OPERATE DRIVER SIDE		Α
DRIVER SIDE : Description	INFOID:0000000011735565	В
Anti-pinch function does not operate when power window up operated.		
DRIVER SIDE : Diagnosis Procedure	INFOID:0000000011735566	С
1. CHECK AUTO UP OPERATION		
Check AUTO UP operation.		D
Is the inspection result normal? YES >> GO TO 2.		
NO >> Refer to <u>PWC-102</u> , " <u>DRIVER SIDE</u> : <u>Diagnosis Procedure</u> ".		Е
2.CONFIRM THE OPERATION		
Confirm the operation again. Is the result normal?		F
YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".		
NO >> GO TO 1. PASSENGER SIDE		G
PASSENGER SIDE : Description	INFOID:0000000011735567	
Anti-pinch function does not operate when power window up operated.		Н
PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000011735568	
1.CHECK AUTO UP OPERATION		I
Check AUTO UP operation.		
Is the inspection result normal?		J
YES >> GO TO 2. NO >> Refer to <u>PWC-102</u> , " <u>PASSENGER SIDE</u> : <u>Diagnosis Procedure</u> ".		DIAGO
2.CONFIRM THE OPERATION		PWC
Confirm the operation again.		ı
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-45</u> , " <u>Intermittent Incident"</u> .		L
NO >> GO TO 1.		B. //
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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:0000000011735569

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 : Description".

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-24, "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-45, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011735570

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 (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

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

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-45, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-MALLY

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Description INFOID:0000000011735571

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

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-90, "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-45. "Intermittent Incident".

NO >> GO TO 1.

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INFOID:0000000011735572

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DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

[COUPE]

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Description INFOID:000000011735573

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

Diagnosis Procedure

INFOID:0000000011735574

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

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-101, "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-45, "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:0000000011735575 Power window down does not operate when pressing unlock button on Intelligent Key. В Diagnosis Procedure INFOID:0000000011735576 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-134, "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-134, "Diagnosis Procedure". ${f 3}.$ CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT" Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-43, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Coupe)". 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-45, "Intermittent Incident". NO >> GO TO 1.

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[COUPE]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000011735577

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-112, "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:0000000011735578 В 1. REPLACE POWER WINDOW MAIN SWITCH Replace power window main switch. C >> Refer to PWC-112, "Removal and Installation". PASSENGER SIDE D PASSENGER SIDE: Diagnosis Procedure INFOID:0000000011735579 Е 1. REPLACE POWER WINDOW SUB-SWITCH Replace power window sub-switch. F >> Refer to PWC-112, "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:0000000011735580

1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-102, "DRIVER SIDE : Diagnosis Procedure".

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-90, "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-29, "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-45, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011735581

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-90, "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-30, "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-45, "Intermittent Incident".

NO >> GO TO 1.

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< 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.

FOR USA AND CANADA: Precaution for Battery Service

INFOID:0000000012104910

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 USA AND CANADA: Precautions for Removing Battery Terminal

INFOID:0000000011735585

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

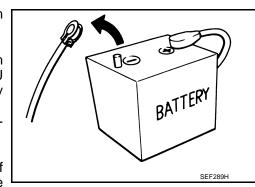
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur

• For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

detected.
After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
NOTE:



< PRECAUTION > [COUPE]

The removal of 12V battery may cause a DTC detection error.

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: 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: Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected

detected.

• After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

The removal of 12V battery may cause a DTC detection error.

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[COUPE]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000011735590

REMOVAL

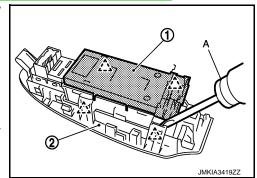
- 1. Remove the power window main switch finisher. Refer to INT-15, "Removal and Installation".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A).



CAUTION:

Never fold the pawl of power window main switch finisher. NOTE:

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 PWC-8, "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:000000001173559 **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.) 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>>SRC-434, "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.

< 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.

Refer to <u>PWC-114</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

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.
- 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

- 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:

- 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. 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:0000000011735594

Initial setting is necessary when replacing power window main switch.

Refer to PWC-115, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

CAUTION:

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

INSPECTION AND ADJUSTMENT

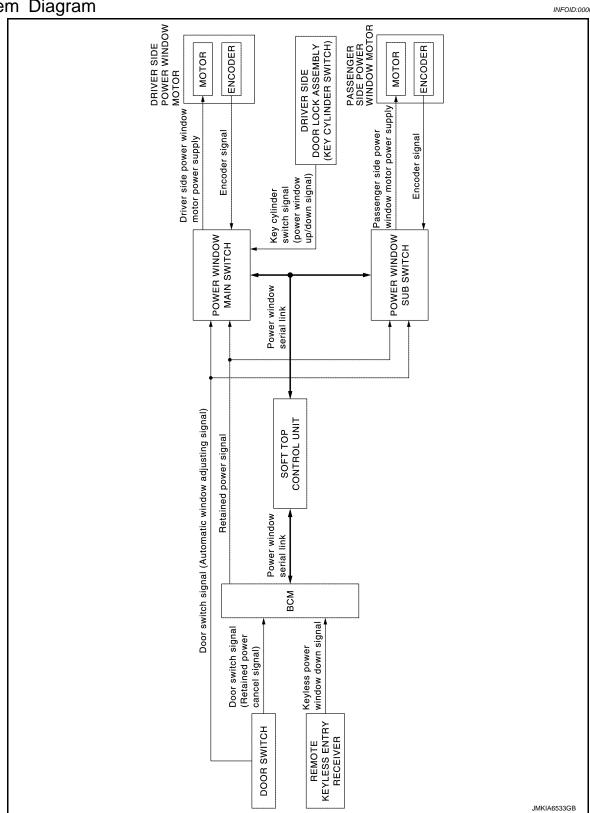
[ROADSTER] < BASIC INSPECTION > Auto-up operation Anti-pinch function Α Automatic window adjusting function Key cylinder switch power window function Power window UP operation while door is open В ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000011735595 INITIALIZATION PROCEDURE 1. Disconnect battery negative terminal or power window switch connector. Reconnect it after a minute or D 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 F switch for 3 seconds or more. 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. Н 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:** 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. J Finish initial setting. Otherwise, next operation cannot be performed. 1. Auto-up operation Anti-pinch function **PWC** 3. Automatic window adjusting function 4. Key cylinder switch power window function Power window UP operation while door is open N Р

Revision: 2015 June **PWC-115** 2016 370Z

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram INFOID:0000000011735596



System Description

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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-16, "SOFT TOP SYSTEM : System 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-237</u>, "INTELLIGENT KEY: <u>CONSULT Function (BCM - INTELLIGENT KEY)</u> (For Road-ster)".

NOTE:

Use CONSULT 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

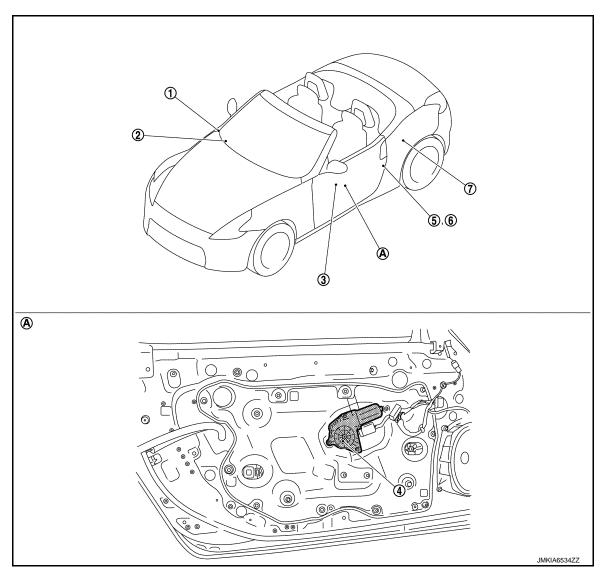
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- BCM
 BCS-10, "Component Parts Location"
- 4. Driver side power window motor
- 7. Soft top control unit BCS-10, "Component Parts Location"
- A. View with door finisher removed
- Remote keyless entry receiver <u>DLK-211. "DOOR LOCK:</u> <u>Component Parts Location"</u>
- 5. Driver side door lock assembly (door key cylinder switch)
- 3. Power window main switch
- 6. Driver side door switch

Component Description

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

Revision: 2015 June **PWC-119** 2016 370Z

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[ROADSTER]

Component	Function
Driver side power window motor	 Integrates the encoder and window motor. Starts operating with signals from power window main switch. Transmits power window motor rotation as a pulse signal to power window switch.
Passenger side power window motor	 Integrates the encoder and window motor. Starts operating with signals from power window main switch & power window subswitch. Transmits power window motor rotation as a pulse signal to power window switch.
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. Door switch signal is directly received by power window switch and is used for the automatic window adjusting function.
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 Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT 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.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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 systemEngine 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.

Revision: 2015 June **PWC-121** 2016 370Z

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^{*:} 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 (Odomete	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"*		
	OFF		Power supply position is "OFF" (Ignition switch OFF)		
	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	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the norm whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is on. 				

NOTE

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.
- · Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR) (For Roadster)

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DATA MONITOR **NOTE**:

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[ROADSTER]

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

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM

BOW

INFOID:0000000011735602

1. CHECK FUSE AND FUSIBLE LINK

BCM: Diagnosis Procedure

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 blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

(+) BCM		(-)	Voltage (Approx.)
Connector	Terminal		(v. (pp. 67.11)
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	Terminal	Ground	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:0000000011735603

1. CHECK POWER SUPPLY CIRCUIT

- 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		(Approx.)	
D8	1	Ground	12	
Do	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.

ВСМ		Power window main switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M118	2	D8	1	Existed
WITTO	3	D0	10	LXISIGU

4. Check continuity between BCM harness connector and ground.

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

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-106</u>, "Exploded View".

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Power window main switch			Continuity	
Connector	Connector Terminal		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

1. CHECK POWER SUPPLY CIRCUIT

- 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		(, 45, 21.1)
D38	10	Ground	12

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INFOID:0000000011735604

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

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.

В	BCM		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-106, "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	Terminal	Ground	Continuity
D38	11		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000011735605

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

DRIVER SIDE: Component Function Check

INFOID:0000000011735606

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.

>> Refer to PWC-127, "DRIVER SIDE: Diagnosis Procedure". NO

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011735607

1. CHECK DRIVER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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				(,,
	D10 Ground	Ground	Power window main switch	UP	12
D40				DOWN	0
סוט				UP	0
				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-128, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO

>> Replace driver side power window motor. Refer to GW-22, "Removal and Installation".

3.check harness continuty

Turn ignition switch OFF.

Disconnect power window main switch connector. 2.

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

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

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

Power window main switch			Continuity	
Connector	Terminal	Ground	Continuity	
D8	8	Ground	Not existed	
Do	11		NOT EXISTED	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-228, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000011735608

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 motor connector	Terr	Motor operation	
	(+)	(–)	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-22</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011735609

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

PASSENGER SIDE: Component Function Check

INFOID:0000000011735610

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-128, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000011735611

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR INPUT 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 >

[ROADSTER]

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(+)		()				
Passenger side power window motor		(-)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(11 - 7	
	6	Ground	6		UP	12
D40	0		Power window sub-	DOWN	0	
	2		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-129, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace passenger side power window motor. Refer to GW-22, "Removal and Installation".

3.check harness continuty

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 po	ower 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	Giouna	Not existed	
D30	9		Not existed	

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-228, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

>> INSPECTION END

Refer to GI-45, "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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INFOID:0000000011735612

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

Passenger side power window motor connector	Terminal		Motor condition
	(+)	(–)	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-22, "Removal and Installation"</u>.

[ROADSTER]

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DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011735613

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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:0000000011735614

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-131</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

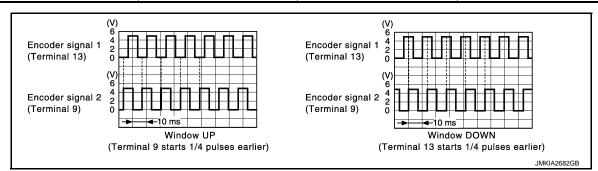
INFOID:0000000011735615

1. CHECK ENCODER OPERATION

1. Turn ignition switch ON.

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

(+)			Signal (Reference value)
Power window main switch		(–)	
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-228, "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	Power window main switch		Driver side power window motor	
Connector	Terminal	Connector	Terminal	Continuity
	9	D10	5	Existed
20	13	D10	2	LAISIGU

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

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< DTC/CIRCUIT DIAGNOSIS >

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 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.

(+)			V 16 0 0	
Driver side power window motor		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
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

- 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	Power window main switch		Driver side power window motor	
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-228, "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

< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the inspection result normal?

YES >> Replace driver side power window motor. Refer to <u>GW-22, "Removal and Installation"</u>.

NO >> Replace power window main switch. Refer to <u>PWC-228</u>, "<u>Removal and Installation</u>".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000011735616

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:0000000011735617

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-133, "PASSENGER SIDE: Diagnosis Procedure".

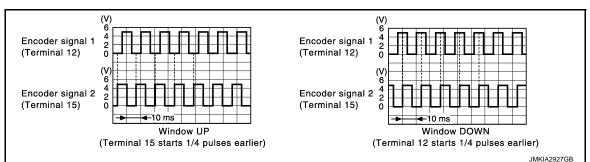
PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011735618

1. CHECK ENCODER SIGNAL

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

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



Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-228, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

- 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.

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Revision: 2015 June **PWC-133** 2016 370Z

Power wind	ow sub-switch	Passenger side po	ower window motor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
Dae	12	D40	2	Existed
D36	D38 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	Ground	Not existed	
D30	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		() []	
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 po	ower 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 PWC-228, "Removal and Installation".

NO >> Repair or replace harness.

${f 5.}$ 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.

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< DTC/CIRCUIT DIAGNOSIS >

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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 <u>GW-22</u>, "Removal and Installation".

NO >> Replace power window sub-switch. Refer to PWC-228, "Removal and Installation".

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DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE

DRIVER SIDE: Description INFOID:0000000011735619

Detects door open/closed condition.

DRIVER SIDE: Component Function Check INFOID:0000000011735620

1. CHECK FUNCTION

Check automatic window adjusting function.

Is the inspection result normal?

YES >> Door switch is OK.

>> Refer to PWC-136, "DRIVER SIDE: Diagnosis Procedure". NO

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011735621

[ROADSTER]

1. CHECK DOOR SWITCH

Check door switch. Refer to DLK-290, "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 window main switch Connector Terminal		Voltage (V) (Approx.)	
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-228, "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	w main switch	Driver side	door switch	Continuity
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	nain switch		Continuity
Connector Terminal		Ground	Continuity
D8	4		Not existed

DOOR SWITCH CIRCUIT [ROADSTER] < DTC/CIRCUIT DIAGNOSIS > Is the inspection result normal? Α YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK INTERMITTENT INCIDENT Refer to GI-45, "Intermittent Incident". >> INSPECTION END PASSENGER SIDE PASSENGER SIDE: Description INFOID:0000000011735622 Detects door open/closed condition. PASSENGER SIDE: Component Function Check INFOID:0000000011735623 Е 1. CHECK FUNCTION Check automatic window adjusting function. F Is the inspection result normal? YES >> Door switch is OK. >> Refer to PWC-137, "PASSENGER SIDE: Diagnosis Procedure". NO

PASSENGER SIDE : Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch. Refer to DLK-290, "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 windows	(+) Power window sub-switch		Voltage (V) (Approx.)	
Connector	Terminal	(-)	(Approx.)	
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-228, "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	ow sub-switch	Passenger si	de door switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D38	14	B206	2	Existed

PWC-137 Revision: 2015 June 2016 370Z

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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 s	ub-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-45, "Intermittent Incident".

>> INSPECTION END

< ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000012104170

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT	MONITOR ITEM
---------	--------------

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK NI	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
ED WACHED OW	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
TUDNI CICNIAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP CVV	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
III DE AM CVA	Lighting switch 1ST or 2ND Other than lighting switch HI 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 CW C	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA CCINIC CVV	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT 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 FOC CW	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
DOOD CW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On

PWC-139 Revision: 2015 June 2016 370Z

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< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Monitor Item	Condition	Value/Status
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off
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
ODE LOOK OW	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
ODE ONEOOK OW	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
NET OTE EN OW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
RET OTE ON OW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: 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
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
IN 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
INDO OPEN SW	 While the back door opener switch is turned ON (Coupe models) While the trunk lid opener switch is turned ON (Roadster models) 	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
NNL-LOOK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
NNE-UNLOUK	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
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
TALL MODE ONG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Monitor Item	Condition	Value/Status	
ODTICAL CENCOR	Bright outside of the vehicle	Close to 5 V	
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	
DEC 0W DD	Driver door request switch is not pressed	Off	
REQ SW -DR	Driver door request switch is pressed	On	
	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 3W -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	
1 0011 000	Push-button ignition switch (push switch) is pressed	On	
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off	
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	
CLUCH SW	The clutch pedal is not depressed	Off	
NOTE: 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: For M/T models with Synchro- Rev Match mode this item is not monitored.	Selector lever in P position (A/T models) The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off	
	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	NOTE: The item is indicated but not monitored.	Off	
S/L -UNLOCK	NOTE: The item is indicated but not monitored.	Off	
S/L RELAY-F/B	NOTE: The item is indicated but not monitored.	Off	
INI K SEN DD	Driver door is unlocked	Off	
UNLK SEN -DR	Driver door is locked	On	
DUCH CW. IDDM	Push-button ignition switch (push-switch) is not pressed	Off	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	

PWC-141 2016 370Z Revision: 2015 June

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Monitor Item	Condition	Value/Status
10N DIX4 E/D	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
DETE OW IDDA	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
SFT PN -IPDM	 Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off
	 Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On
SFT P -MET	Selector lever in any position other than P	Off
SI I F -IVILI	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
SFI N-WEI	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	NOTE: The item is indicated but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated but not monitored.	Off
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
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
DDMT FNC CTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
VEV SW. SLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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Monitor Item	Condition	Value/Status
CONEDMID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	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
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
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
	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM ID1	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TD 4	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
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 LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGITET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID NEGOT KLI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

Revision: 2015 June **PWC-143** 2016 370Z

PWC

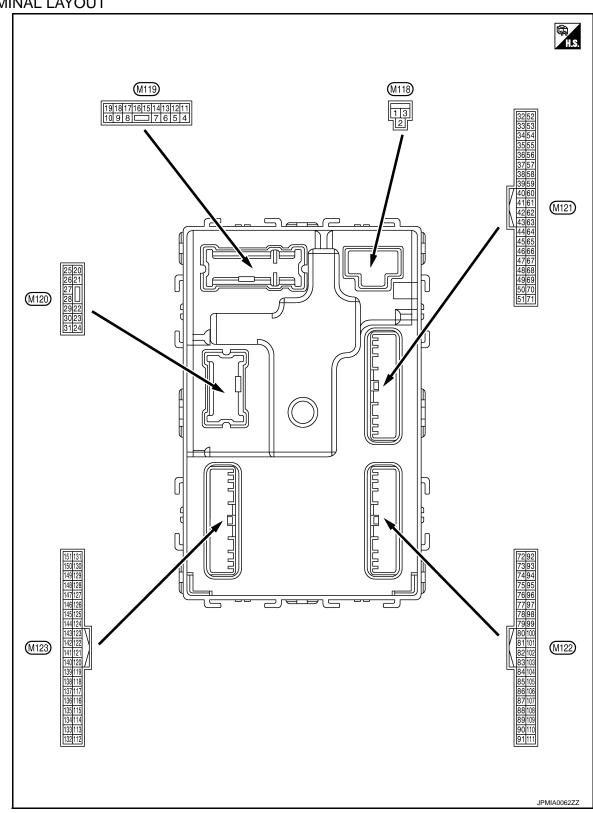
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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	ninal No. Description Condition		Value			
+	-	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 (IGN)	Output	Ignition switch (ON	12 V
					np battery saver is activated. r 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 door	UNLOCK (Actuator is activated)	12 V
(G)	(G) Ground	LOCK	Output		Other than UNLOCK (Actuator is not activated)	0 V
8	8 01	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
(V)	Ground				Other than LOCK (Actuator is not activated)	0 V
9	Cravind	Driver door, fuel lid	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK			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	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 >

	nal No.	Description				.,,
(Wire	color)	Signal name	Input/ Output		Condition	Value (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 PKID0926E
					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 0 1 s PKID0926E 6.5 V
19 (P)	Ground	Interior room lamp control	Output	Interior room lamp	OFF ON	12 V 0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23		Back door/Trunk lid		Back door/	OPEN (Back door/Trunk lid opener actuator is activated)	12 V
(L)* ¹ (Y)* ²	Ground	open	Output	Trunk lid	Other than OPEN (Back door/Trunk lid opener actuator is not activated)	0 V
24* ⁸	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
(O)					ON Turn signal switch OFF	12 V 0 V
					Tutti signal switch OFF	UV
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
				Luggage room/	ON	0.5 V
30 (R)	Ground	Luggage room/Trunk room lamp	Output	Trunk room lamp	OFF	12 V

< 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 JMKIA0062GB
(G)	Ground	room antenna (-)	Output	ŎFF	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
35 (R)	Ground	room antenna (+)	Output	OFF	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)	Giound	na (–)	, ,	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

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			O a malitica m	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
39		Rear bumper anten-		When the back door/trunk lid door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	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 JMKIA0063GB
47		Ignition relay (IPDM	0		OFF or ACC	12 V
(V)	Ground	E/R) control	Output	Ignition switch	ON	0 V
			Output	Ignition switch ON (A/T mod- els)	When selector lever is in P or N position	12 V
52	Ground	Starter relay control			When selector lever is not in P or N position	0 V
(SB)	Ground	,		Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	Oround	switch (Push switch)	IIIput	(push switch)	Not pressed	Battery voltage
					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	Craund	Intelligent Key warn-	Outnut	Intelligent Key	Sounding	0 V
(G)	Ground	ing buzzer	Output	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
					ON (Deer)	11.8 V
					ON (Door open)	0 V

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

	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
		Room antenna 2 (–) (Center console)	Output		When Intelligent Key is in the passenger compart- ment	15 10 5 0	F
72	Ground			Ignition switch OFF		JMKIA0062GB	G
(L)	Ground				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

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value
+	- COIOF)	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
(LG)	Ground	(+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
78* ²	0	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
78* ² (L)	Ground	(Instrument panel)	Culput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
79* ²	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Giodila	(Instrument panel)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value
+	_	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
83	Remote keyless entry		Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(GR)	Ground	receiver (front) communication	Output	When operating either button on the Intelligent Key		(V) 15 10 5 1 ms JMKIA0065GB
		nd Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4 V
87 (BR)	Ground				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 1.3 V

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description			O a little a	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
88 (V) Groun	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	1.3 V (V) 15 10 2 ms 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
90 (P)	Ground	CAN-L	Input/ Output		_	-
91 (L)	Ground	CAN-H	Input/ Output		— OFF	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 1 s JPMIA0015GB 6.5 V 12 V
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V) Groun					ON	0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Oround	Noo relay control	Output	ignition switch	ACC or ON	12 V
96* ³ (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
		Selector lever P posi-		Colootorilovor	P position	0 V
6	2016	tion switch (A/T models)		Selector lever	Any position other than P	12 V
99* ⁶ (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
102	Ground	Blower fan motor re-	Output	Ignition switch	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

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

(Mire color)		Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper 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	F
					Front washer switch ON	(V) 15 10 5 0 2 ms	

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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 4	Input	Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
(R)					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 10 ms JPMIA0012GB 1.1 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical Selisoi	трис	ON	When dark outside of the vehicle	Close to 0 V
114* ⁴	Ground	Clutch interlock	Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	трис	switch	ON (Clutch pedal is depressed)	Battery voltage
115* ⁹ (O)	_		_		_	_
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 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Cround	Kay alat awitah	lanut	When the Intellig	gent Key is inserted into key	12 V
(R)	Ground	Key slot switch	Input	When the Intelliq	gent Key is not inserted into	0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(VV)					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description	1			Value
+	color)	Signal name	Input/ Output	Trunk lid opener cancel switch CANCEL		
129* ² (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	15 10 5 0 10 ms JPMIA0012GB
					CANCEL CANCEL ON Rear window defogger switch OFF Rear window defogger switch ON N FF or ACC ON (Tail lamps OFF) OFF OFF OFF OFF ON N OFF	
130* ⁷		Rear window defog-		lanition switch	Rear window defogger	(V) 15 10
(L)	Ground	ger switch	Input	ON	Rear window defogger	JPMIA0012GB 1.1 V
						0 V
132 (Y)* ¹ (V)* ²	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch C	DN	15 10 5 0 10 ms JPMIA0013GB
				Ignition quitab (DEE or ACC	
				ignition switch C	T	
					,	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	10 111111111111111111111111111111111111
					OFF	JPMIA0159GB
134		100141111111111111111111111111111111111		LOCKindicator		
(GR)	Ground	LOCK indicator lamp	Output	lamp	CANCEL CANCEL	
137 (P)	Ground	Receiver and sensor ground	Input	0 V		
138	Ground	Receiver and sensor	Output	Ignition switch	0 V	
(V)	Cround	power supply	Carput	-gindon switch	ACC or ON	5.0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition switch OFF (Remote key- less entry re-	During waiting	(V) 15 10 5 0 1 ms JMKIA0064GB
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	ceiver communica- tion)	When operating either button on the Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB
				Ignition switch ON (Tire pressure	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D
				receiver com- munication)	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Selector lever P/N position (A/T models)		Selector lever	P or N position	12 V
140* ⁵	Ground	Park/neutral position	Input		Except P and N positions Control lever in neutral po-	0 V
(G)	Ground	switch (Coupe M/T models with Synchro- Rev Match mode)	input	Ignition switch ON	sition Control lever in any position other than neutral	Battery voltage 0 V
					ON	0 V
141 (Y)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 JPMIA0014GB
					OFF	11.3 V 12 V
					U 11	1

< ECU DIAGNOSIS INFORMATION >

/alue pprox.)
0 V
JPMIA0031GB
0.7 V 0 V
JPMIA0032GB
0 V
JPMIA0033GB
0 V
JPMIA0034GB
0.7 V
0 V
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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 10 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:} M/T models

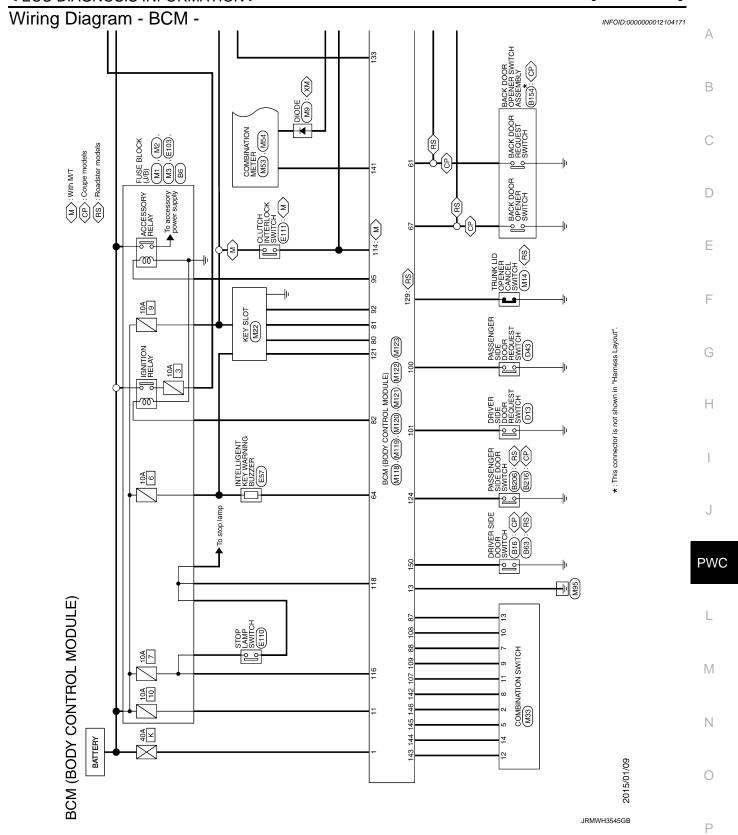
^{*5:} With A/T or coupe models with M/T and SynchroRev Match mode

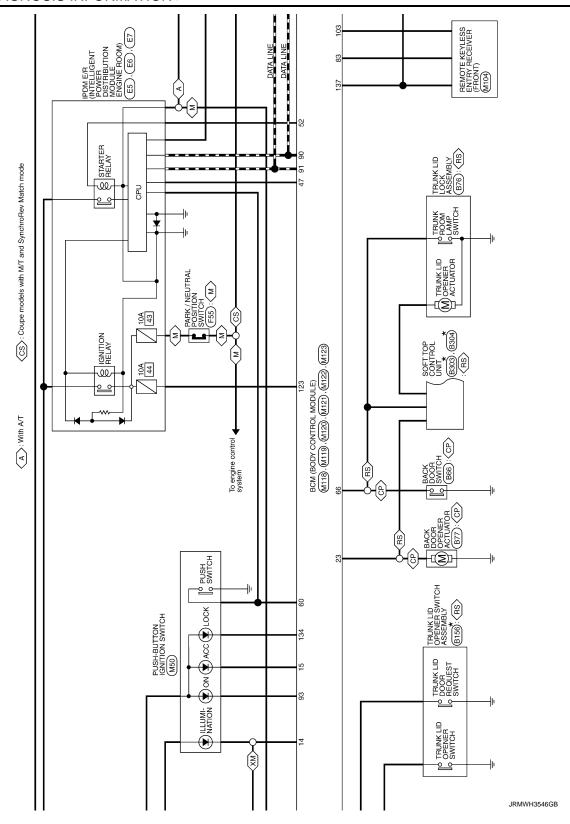
^{*6:} With A/T or with M/T without SynchroRev Match mode

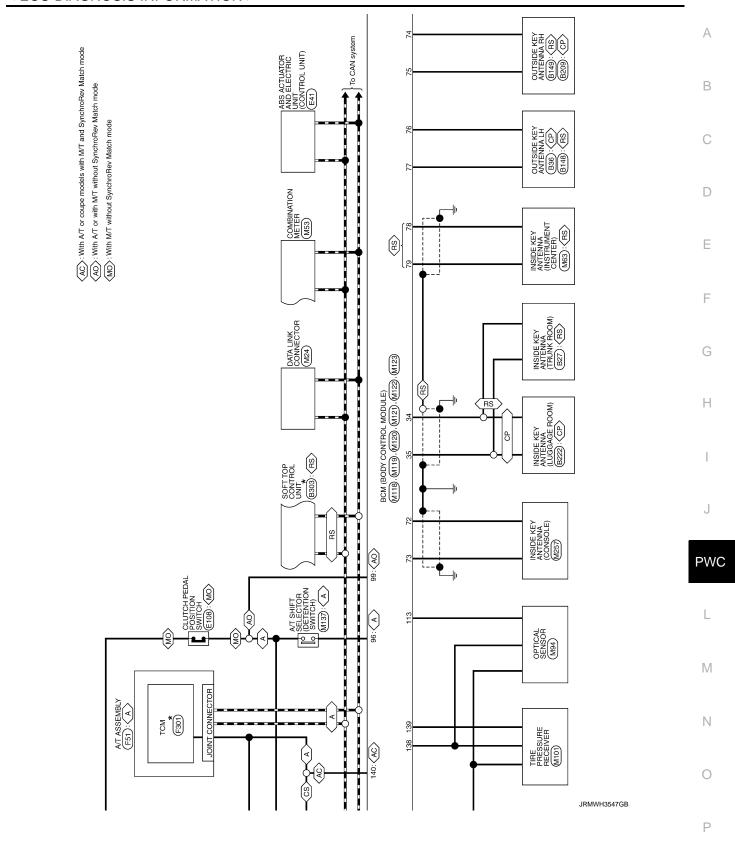
^{*7:} Without NAVI

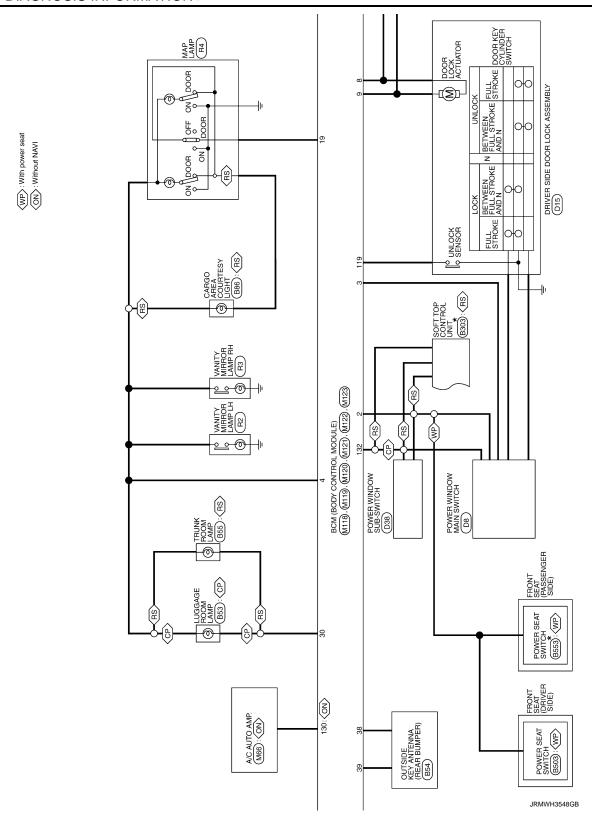
^{*8:} With rear fog lamp

^{*9:} BCM does not use this terminal for control.

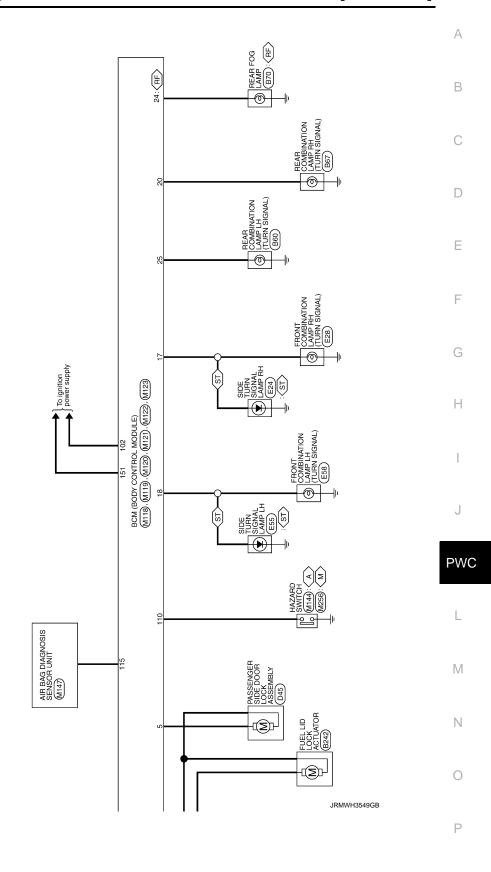




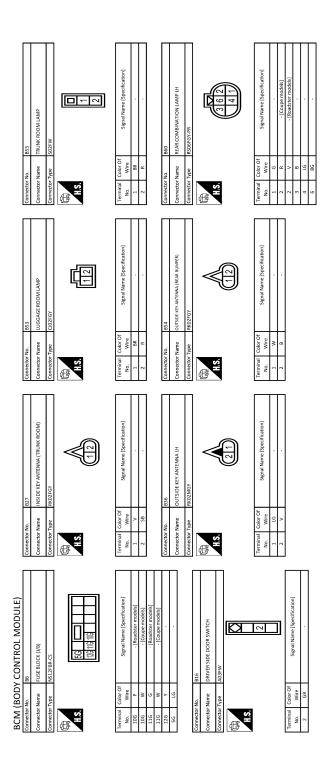




⟨RF⟩: With rear fog lamp
⟨ST⟩: With side turn signal lamp



Revision: 2015 June



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BCM (BOD	BCM (BODY CONTROL MODULE)						
Connector No.	B63	Connector No.	B67	Connector No.	876	Connector No. B86	
Connector Name	DRIVER SIDE DOOR SWITCH	Connector Name	REAR COMBINATION LAMP RH	Connector Name	TRUNK LID LOCK ASSEMBLY	Connector Name CARGO AREA COURTESY LIGHT	
Connector Type	A03FW	Connector Type	RS06FGY-PR	Connector Type	NS03FW-CS	Connector Type S02FW	
H.S.	<u> </u>	H.S.	33 <u>K</u>	H.S.		#3.	
Terminal Color Of No. Wire	of Signal Name [Specification]	Terminal Color Of No. Wire	Signal Name [Specification]	Terminal Color Of No. Wire	Signal Name [Specification]	Terminal Color Of Signal Name [Specification] No.	
2 GR		1 16		1 1		1 R	
3 B		2 R		2 LG		2 8 .	
		8 ×		3 B			
Connector No.	998	4 9 > 8				Connector No. B148	
Connector Name	BACK DOOR SWITCH			Connector No.	877	Connector Name OUTSIDE KEY ANTENNA LH	
Connector Type	AO3FW	Connector No.	870	Connector Name	BACK DOOR OPENER ACTUATOR	Connector Type RK02MGY	
€		Connector Name	REAR FOG LAMP	ector Type	M04FW-LC	₹	
H.S.	<u>K</u>	Connector Type	RSO2FGY	匮		H.S.	
		Œ		S	2		
	ര	HS.			<u>-</u>		
Terminal Color Of						Terminal Color Of	
No. Wire	Signal Name [Specification]			Terminal Color Of	(No. Wire Signal Name [Specification]	
H				No. Wire	ognal Name (Sperincation)	1 16	
3 8		Terminal Color Of	Signal Name [Specification]	→ 0		2 V	
		+		9 7			
		2 B	,				

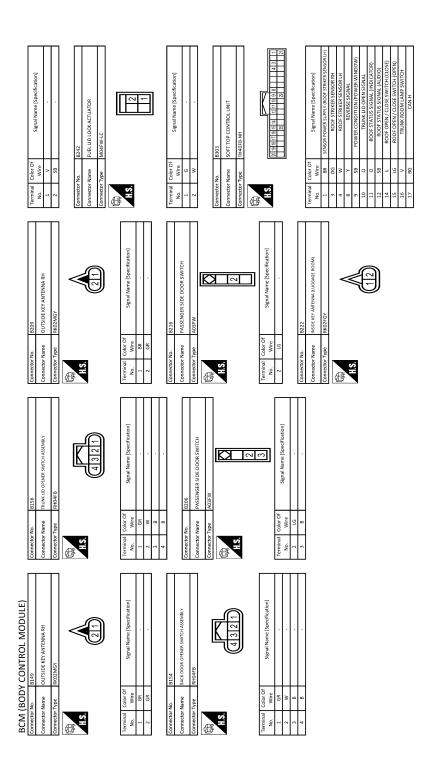
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BCM (BODY C	BCM (BODY CONTROL MODULE)						
18	\dashv		Conn	Connector No.	B553	Connector No. D13	Connector No. D38	
19	01 91	LOCAL COMMUNICATION (POWER WINDOW)	Conne	Connector Name	POWER SEAT SWITCH	Connector Name DRIVER SIDE DOOR REQUEST SWITCH	Connector Name POWER WINDOW SUB-SWITCH	
20	П	LOCAL COMMUNICATION (BCM)					П	
21	BR SEN	NSOR POWER SUPPLY (ROOF STRIKERSENSOR RH)	Conn	Connector Type	M06MW-LC	Connector Type RK02FL	Connector Type NS16FW-CS	
29	DG	GROUND	þ			þ	á	
35	۵	ROOF OPEN / CLOSE SWITCH (GND)	ß	•		()		
			7	¥.				
	ſ		1	3	33 48 6]-	
Connector No.	No. B304	304			5 / 3	((1 2))	8 9 10 11 12 14 15 16	
Connector Name		SOFT TOP CONTROL UNIT			6 + 6			
Connector Type	Τ	NS13EM-CC						
COILIECTO	1	SIZTW-C3	Termology	30 1-0		70	Tourism Colon Oc	
ą <u>E</u>			lermi		Signal Name [Specification]			
事			1	$^{+}$		t	$^{+}$	
ES.		48 49	`	+				
			-	9,74		2	3 -	
		1.5	1	$^{+}$			1	
			٩	+	,	١	BR	
			33	3 R		Connector No. D15	10 W BAT	
			48	8 8		VIONATOR NOOL BOOK BEING COMPANY AND	11 B GND	
Terminal	Color Of						12 B ENCODER SIG 1	
	Wire	Signal Name [Specification]				Connector Tune	: >	
2	2 2	TOTALISTO OPENIED ACTUATION	, and	Connector No		1	. 9	
141	3 .	I KUNN UPENER ACI DATUR		ECTOI NO.	80	₫.	2 :	
8	× 1	REAR WINDOW DEF IN 2	Conne	Connector Name	POWER WINDOW MAIN SWITCH		16 Y SERIALLINK	
49	×	REAR WINDOW DEF IN 1	ļ					
			Conn	Connector Type	NS16FW-CS	-	200	
Connector No	Mo	60	Œ	•		r	Т	
CONTRACTOR	T	503	手	_			Connector Name PASSENGER SIDE DOOR REQUEST SWITCH	
Connector Name		POWER SEAT SWITCH	٦	S.	1 4 5 6 7		Commenter Dans DV03E1	
Connector Type	Т	PACEBANALIC		ı	77 07 07 77 07 0	Tarminal Color Of	7	
	ı	CONTRACTO			0 8 10 11 17 13 14 13		Œ	
Œ						+	₹ E	
季						3 9	HS.	
<u>.</u>			F	JO solo		2 3		
		00 40	ermina No		Signal Name [Specification]	90 0		
		4 5 6	1	+	1.40	$^{+}$)	
			1	,	DOOD CANTON (Decidence conducted)	ľ		
			ľ	Ť	FNCODER PWR	-	Terminal Color Of	
Terminal Color Of	Color Of		ی ه	╀	DOOR KEY CYLINDER LOCK			
N.	Wire	Signal Name [Specification]	ľ	ł	DOOD KEY CKINDER INIOCK		t	
ď	í		α	+	LIP		2 2	
4	-		0	91	ENCODER SIG 2			
u	W/P		ç	ł	NSI			
, 4	V/44		1	- 8	NWOO			
> 6	;		1	+	NIACO NIACO			
£ 3	× (12	+	SERIAL LINK [Coupe models]			
48	8		12	+	SERIAL LINK [Roadster models]			
			13	+	ENCODER SIG 1			
			14	+	ENCODER GND			
			15	9	GND			

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Connector No. [E41	Connector Name ASS ACTUATOR AND ELECTRIC UNIT (CONTROLUNIT)	Connector Type BAA42FB-AHZ4-LH	1	H.S. (E. 1915) 1918 4 3 2 1		lal	No. Wire GROIND		æ	4 B GROUND	5 Y DSFL	6 BG DP.R.L	BR	2 B	: a	>	26 LG DP.FL	GR	9	30 SR BIS	+	1	45 B BUS-H		Connector No F55	١,	Ţ	Connector Type KKUZPGY	4	✓ Et)			
73 GR -	Н	75 SB	77 R 80 W	Connector No. E24	٩ ,			SH.					le l	NO. WIFE	2 8			Connector No. E28	Connector Name FRONT COMBINATION LAMP RH	Connector Type RS06FGV-DR	1			(3 7 6)	(4 5 8)			Lerminal Color Of Signal Name [Specification]	$^{+}$	4 B/W		- 91 9	_	d 8			
Connector No.	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENSINE	Connector Type THOSEW-NH	1	42 41 40 39	46 45 44 43	ler.	No. Wire	40	41 B/W	42 Y -	43 SB .	\dashv		4b V		Connector No. E7	Connector Massa (PDM F/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE	П	Connector Type TH20FW-CS12-M4	4		H.S. 5554555558 6870 7473 74757677	4849 51 80			Terminal Color Of Circal Manua (Concretical	Wire	48 L	+	53 W		Н	_	57 6	+	H	Н
BCM (BODY CONTROL MODULE) Connector No. 1045	Connector Name PASSENGER SIDE DOOR LOCK ASSEMBLY	Connector Type E06FGY-RS				- a	No. Wire	2 16	ł		Connector No. E5	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE	Т	Connector Type TH20FW-CS12-IM4-1V			1	4 5 7 16 18 19 36			Terminal Color Of	No. Wire Signal Name [Specification]	4 v		7 R -[Coupe models]	B/W	13 ү	10 I/0	\downarrow	L	. 1 82	Н	36 G .				

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	Connector Name A/T ASSEMBLY Connector Type RK10FG-DGY		(5 4 3 2 1) (0 9 8 7 6	Terminal Color Of Signal Name [Specification] No. Wire	Н	2 BR BATTERY POWER SUPPLY (MEMORY BACK-UP)	S C CANVE	. 8	6 Y IGNITION POWER SUPPLY	7 W BACK-UP LAMP RELAY	d	GR ST	10 B GROUND		Connector No. F55	Connector Name PARK / NEUTRAL POSITION SWITCH	Connector Type RK02FB	▼	HS.)	Terminal Color Of		1 6	2 W -		
	Connector Name STOP LAMP SWITCH Connector Type M04FW-LC		34	Terminal Color Of Signal Name [Specification]	- 1		9 0	┨		Connector No. E111	Connector Name CLUTCH INTERLOCK SWITCH	٦	Connector Type S02FL	•			17		Terminal Color Of Signal Name [Specification]		, and 2						
П	Connector Name FUSE BLOCK (J/B) Connector Type NS16FW-CS			Terminal Color Of Signal Name [Specification] No.	\dashv	+	2r w	╀	. 1 48	9F R - (Coupe models)	9F V - (Roadster models)			Connector No. E108		Connector Type S02FL		H.S.	2 1		Terminal Color Of Circus Name (Concidionaline)	No. Wire Signal Natite [Specification]	L		2 BR - [Without SynchroRev Match mode]		
BCM (BODY CONTROL MODULE) Terminal Color Of Signal Name (Specification)	+	<u>a</u>	Connector No. 557 Connector Name INTELLIGENT KEY WARNING BUZZER Connector Type RX03FBR	E		(1 3))		Terminal Color Of	olgildi ivalile	LG +BAT (VO	3 R BUZZER SIGNAL		Connector No. E58	Connector Name FRONT COMBINATION LAMP I H	\neg	1		(3 7 6)	(4 b)		Terminal Color Of Signal Name [Specification]	t	4 B/W	. d S	6 GR	5a 6

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Connector No. M22	<u>ء</u>	Connector Type TH12FW-NH	#S.	Terminal Color Of Signal Name [Specification] No.	1 P BAT CLOCK		5 Y ILLBAT		7 B GROUND	=	Connector No. M24	Connector Name DATA LINK CONNECTOR	Connector Type BD16FW		14	345678	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification]	3 LG - [Coupe models]	- «	+	· 1 9	7 ×	91	¥	14 P	
Connector No. M9	و ا	Connector Type 24335_C9900	HS.	Terminal Color Of Signal Name [Specification] No. Wire	1 W -			Connector No. M14	Connector Name TRUNK LID OPENER CANCEL SWITCH	Connector Type S02FW		H.S.		[2]	Terminal Color Of Signal Name [Specification]	Н										
Connector No. M2	Connector Name FUSE BLOCK (J/B)	Connector Type NS10FW-CS	48 58 68 58 68 58	Terminal Color Of Signal Name [Specification]	38 P	╀	- · · · · · · · · · · · · · · · · · · ·	Н	- SB - SB		Connector No. M3	Т	1	ES THE STATE OF TH	1/20 1/10 1/10 9C 7/2 6C		lernmal Color OT Signal Name [Specification] No. Wire 100 -	11.0 1.6	+	. 8	0	9C R - [Coupe models]				
BCM (BODY CONTROL MODULE) Connector No. F301	ne ne	Connector Type SP10FG	H.S. (17 8 9 10)	JC	1 W IGNITION POWER SUPPLY 2 B BATTERY POWER SUPPLY IMEMORY BACK-LIP)	╁	4 O K-LINE	9	6 GR IGNITION POWER SUPPLY	8 BR CAN-L	9 Y STARTER RELAY 10 W/B GROUND		Connector No. M1	Connector Name FUSE BLOCK (J/B) Connector Tupe NSOGEW: M2	1	ς <u>;</u>	[8A] <u>(A 6A 5A 4A</u>]	Trential Astro Of	No Wire Signal Name [Specification]	t	2A G .	3A L			7A BR .	

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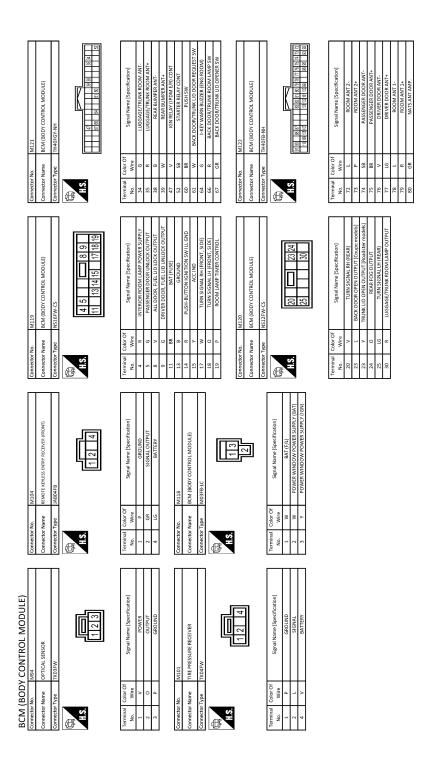
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Connector No. M66 Connector Name A/CAUTO AMP. Connector Type Subatraw (A) (A) (A) (A) (A) (B) (B) (B)	Signal Hame Signal Hame Specification 1
Connector No. M/S4 Connector Name COMBINATION MFTER Connector Yape ITH GFW ANH 10	Terminal Color Of Signal Name (Specification) No. Wire No. More More
Connector No. MISS Connector Name COMBINATION METER M.S. 1 2 3 4 5 6 9 10 12 1 5 10 17 18 19 20 21 22 23 24 24	Terminal Color Of Signal Name Specification No. Whre BATTERP POWER SUPPLY
ВСМ (BODY CONTROL MODULE) Connector Nan Connector Nan (A) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Terminal Color Of Sugnal Name [Specification]

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Revision: 2015 June **PWC-175** 2016 370Z



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			TPUT																					П																				
SATELLITE RH2 (-)	SATELLITE LH2 (+)	SATELLITE LH2 (-)	DEPLOYMENT_INFORMATIOM_OUTPUT	CAN-H	CAN-L			M256		HAZARD SWITCH	TK04FW]	7 7 7	9 7 4			Signal Name [Specification]	UNITORS	GNOONS	BCM	ILL- [Coupe models]	ILL- [Roadster models]		M257	INSIDE KEY ANTENNA (CONSOLE)	RKOZEGY		<	«	{	((1 2))				55	signal Name [specification]	- [Roadster models]	- [Coupe models]	- [Coupe models]	- [Roadster models]		
8	>	æ	0	-	۵						Γ								_	Wire	a (9 95	98	0			Г	Τ	1								Color Of	Wire	9	۵	1	ď		
52	53	54	57	59	09			Connector No.	L	Connector Name	Connector Type	C	修) II					Terminal	No.	٠,	7 8	4	4		Connector No.	Connector Name	Connector Type		E	1	Ċ					Terminal	No.	1	1	2	2		
M144	10 E 17 C C C C C C C C C C C C C C C C C C	HAZAKU SWITCH	TK04FW					3 1 2 4				Circui Mamo [Candidation]	ognal Name [openiikation]	GROUND	BCM	100			M147	AIR BAG DIAGNOSIS SENSOR UNIT	22 2200118	MAZOFT-EX		8 9 7 6 7 2 5 4 3		Т	18 51 53 60 59 25 57 1		Signal Name [Specification]	IGN	GND	DR 1 (+)	DR1(+)DR2(+)	DR 2 (+)	AS 1 (+)	AS 1 (-)	AS 2 (+)	AS 2 (+)	ECZS (+)	ECZS (-)	GND	AIRBAG W/L	SEAT BELT	
r No.		r Name	П									Color Of	Wire	GR	۵ ۵	x a			Ш	r Name	Tuno	a ishe						Color Of		97	8	٨	Υ	٨	>	٨	>	٨	Я	1	SHIELD	ч	Ь	
Connector No		Connector Name	Connector Type	֓֞֞֜֜֜֜֜֓֓֓֓֜֜֜֜֟֜֜֓֓֓֓֓֓֜֜֟֜֜֓֓֓֓֓֓֜֜֜֜֓֓֓֓֡֜֜֜֓֓֓֡֓֜֜֡֓֜֡֓֡֓֜֜֡֓֜֡֓	1	ŧ	2					Terminal	No.		2 5	v 4			Connector No.	Connector Name	Constant Tuno	COILLECT	13	N T				Terminal	No.	1	7	3	4	S	9	7	∞	6	18	19	22	23	24	
LOCK IND	RECEIVER &SENSOR GND	RECEIVER & SENSOR POWER SUPPLY	TIRE PRESS RECEIV COMM	P/N POSITION	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	REAR WINDOW DEFOGGER RELAY CONT			M137	A/T SHIFT SELECTOR	TK10FW			12 3 4	1	01 6 8 7 9 6			Signal Name [Specification]																			
GR	a.	>	_	o	>	0	۵	Ģ	L	SB	┞	H			Connector No.	Connector Name	Connector Type			ró					al Color Of	>	> -		9	œ	>	а	γ	œ										
134	137	138	139	140	141	142	143	144	145	146	150	151			Connec	Connec	Connec		F	HS					Terminal	-	7 7	η 4	'n	9	_	∞	6	10										
81 W NATS ANT AMP.	IGN RELAY (F/B) CONT	KYLS ENT RECEIVER (FRONT) COMM	COMBI SW INPUT 5	COMBI SW INPUT 3	CAN-L	CAN-H	KEY SLOT ILL	ONINO	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	SHIFT P/CLUTCH PEDAL POS SW	PASSENGER DOOR REQUEST SW		BLOWER FAN MOTOR RELAY CONT	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	COMBI SW INPULT	COMBI SW INPUT 2	HAZARD SW		M123	NILES.	BCM (BODY CONTROL MODULE)	TH40FG-NH				15 15			10 mm	olginal ivame [opecification]	OPTICAL SENSOR	CLUTCH INTERLOCK SW		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]	
× ×	œ	GR	BR	>	۵	_	97	>	٥	>	~	GR	>	٥	91	2 ~	>	۵		Г	Τ		Г			_				Color Of	Wire	0	ч	0	SB	Ь	SB	æ	W	97	0	٦	^	
81	82	83	87	88	96	91	92	93	95	96	66	100	101	102	103	108	109	110		Connector No	COILIECTO	Connector Name	Connector Type	q		¥S.				Terminal	No.	113	114	115	116	118	119	121	123	124	129	130	132	

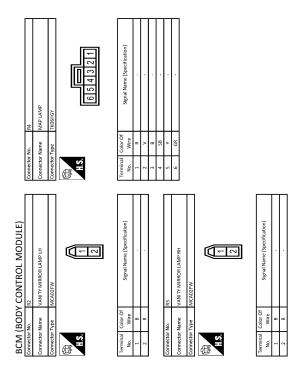
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Fail-safe

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	A
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	В
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	С
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	D
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)	Е
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) 	F
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)	G
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal	Н
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) 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)	J PWC

DTC Inspection Priority Chart

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

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM 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 >

[ROADSTER]

Priority	DTC
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2608: STARTER RELAY B2608: STARTER RELAY B2607: ENG STATE SIG LOST B2614: BCM B2615: BCM B2616: BCM B2617: BCM B2618: BCM B2618: BCM B2618: CLUTCH SW B2626: VEHICLE TYPE B2668: CLUTCH SW B2668: CLUTCH SW B266A: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
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 PWC-121, "COM- MON ITEM: CONSULT Function (BCM - COMMON ITEM)".

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
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-49
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-50
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-51

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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	A
B2190: NATS ANTENNA AMP	×	_	_	_	<u>SEC-46</u>	
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-49</u>	_
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-50</u>	C
B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-52</u>	-
B2195: ANTI SCANNING	×	_	_	_	<u>SEC-53</u>	
B2553: IGNITION RELAY	_	×	_	_	PCS-54	- [
B2555: STOP LAMP	_	×	_	_	<u>SEC-54</u>	-
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-56</u>	Е
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-58</u>	-
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-59</u>	-
B2562: LOW VOLTAGE	_	×	_	_	BCS-52	F
B2601: SHIFT POSITION	×	×	×	_	<u>SEC-60</u>	=
B2602: SHIFT POSITION	×	×	×	_	SEC-63	- C-
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-66</u>	
B2604: PNP SW	×	×	×	_	SEC-69	-
B2605: PNP SW	×	×	×	_	SEC-71	H
B2608: STARTER RELAY	×	×	×	_	<u>SEC-73</u>	-
B260A: IGNITION RELAY	×	×	×	_	PCS-56	
B260F: ENG STATE SIG LOST	×	×	×	_	<u>SEC-75</u>	- 1
B2614: BCM	_	×	×	_	PCS-58	-
B2615: BCM	_	×	×	_	PCS-61	J
B2616: BCM	_	×	×	_	PCS-64	-
B2617: BCM	×	×	×	_	<u>SEC-79</u>	D)
B2618: BCM	×	×	×	_	PCS-67	P۷
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-68	_
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-82	L
B2621: INSIDE ANTENNA	_	×	_	_	DLK-284	-
B2622: INSIDE ANTENNA	_	×	_	_	• <u>DLK-86</u> (Coupe) • <u>DLK-286</u> (Road- ster)	N
B2623: INSIDE ANTENNA	_	×	_	_	• <u>DLK-88</u> (Coupe) • <u>DLK-288</u> (Road- ster)	٨
B26E8: CLUTCH SW	×	×	×	_	<u>SEC-76</u>	С
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-78</u>	
C1704: LOW PRESSURE FL	_	_	_	×		F
C1705: LOW PRESSURE FR	_	_	_	×	MT O4	1
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>	
C1707: LOW PRESSURE RL	_	_	_	×		

PWC-181 2016 370Z Revision: 2015 June

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT-26
C1710: [NO DATA] RR	_	_	_	×	<u>W1-20</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-29
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-33</u>

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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SOFT TOP CONTROL UNIT

Α Reference Value INFOID:0000000012104206

VALUES ON THE DIAGNOSIS TOOL

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

Monitor Item		Condition	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
	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/GENTER LOOK		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 ET	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
IVITAIL NAISLU NII	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
	inder RH	Storage lid status sensor RH circuit is open or short	NG

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[ROADSTER]

Monitor Item		Status/Value	
		Storage lid is close	ON
S/LID CLOSE RH	State of storage lid drive cyl-	Other than above	OFF
	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
	der	5th bow latch open sensor circuit is open or short	NG
		Operate	ON
SWITCHING VALVE 1	Operation of switching valve 1	Stop	OFF
		Switching valve 1 circuit is short	NG
	On a notice of a witching	Operate	ON
SWITCHING VALVE 2	Operation of switching valve 2	Stop	OFF
		Switching valve 2 circuit is short	NG
	Operation of suit 11	Operate	ON
SWITCHING VALVE 3	Operation of switching valve 3	Stop	OFF
		Switching valve 3 circuit is short	NG
	On a notice of a witching	Operate	ON
SWITCHING VALVE 4	Operation of switching valve 4	Stop	OFF
		Switching valve 4 circuit is short	NG
	On a notice of a witching	Operate	ON
SWITCHING VALVE 5	Operation of switching valve 5	Stop	OFF
		Switching valve 5 circuit is short	NG
	On a setion of businessiis	Turning clockwise	ON
PUMP OUT (RH)	Operation of hydraulic pump motor	Other than above	OFF
		Hydraulic pump motor (RH) circuit is short	NG
	One retion of budgeville	Turning counterclockwise	ON
PUMP OUT (LH)	Operation of hydraulic pump motor	Other than above	OFF
		Hydraulic pump motor (LH) circuit is short	NG
		Lock	ON
5TH BOW LATCH CL	State of 5th bow latch cylin-	Other than above	OFF
	der	5th bow latch close sensor circuit is open or short	NG
ROOF SW (OPEN)	State of roof open/close	OPEN operation is in operation	ON
NOOF OW (OF EN)	switch	Other than above	OFF
ROOF SW (CLOSE)	State of roof open/close	CLOSE operation is in operation	ON
NOOF SW (CLOSE)	switch	Other than above	OFF
SHIFT R SIGNAL	Shift position	R position	ON
OTHER ROOMAL	Offit position	Other than R position	OFF
TRUNK OPEN OUT	Operation of trunk lid open-	OPEN operation is in operation	ON
TRONK OFEN OUT	er actuator	Other than above	OFF
THED DDOTEC DI IMD	Thermo protection hydraulic	In non-operation	OK
THER PROTEC PUMP	pump	In operation	NG
THER PROTEC RCU	Thermo protection soft top	In non-operation	OK
HIEN FNOTEG KGU	control unit	In operation	NG

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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Monitor Item		Condition	Status/Value
PWR COND RCU	Power supply voltage state	Normal	OK
FWR COND RCO	of soft top control unit	Malfunction	NG
PWR COND P/W	Power supply voltage state	Normal	OK
T WIN COND I /W	of power window	Malfunction	NG
	3	Normal	OK
LOCAL COMM 1	State of local communication 1	It is in sleep mode	SLEEP
		Communication error	NG
	2	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
FIXOLIIDI I F/W UF	Frombit of power willdow up	In non-operation	OFF
IGN ON SIG(BCM)	Power position signal	Ignition switch ON	ON
IGIN OIN SIG(DCIVI)	rower position signal	Other than above	OFF
DE OD DEO SW SIC	State of request switch sig-	OPEN operation is in operation	ON
RF OP REQ SW SIG	nal	Stop	OFF

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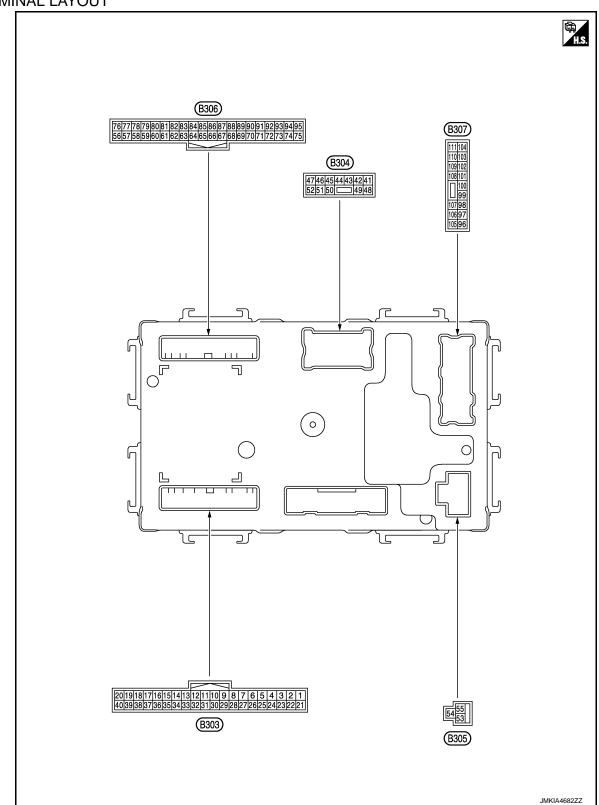
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TERMINAL LAYOUT



PHYSICAL VALUES

[ROADSTER]

	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]	above	Battery voltage
10 (O)	Ground	Trunk lid open request signal (BCM)	Input	[Ignition switch: ON] • Trunk opener	Operate Other than above	$0 \text{ V} \rightarrow \text{Battery voltage} \rightarrow 0 \text{ V}$ 0 V
11 (O)	Ground	Roof status signal (Indicator lamp)	Output	[Engine is running] • Soft top indicator lamp	Illuminate Not illuminate	0 V Battery voltage
12 (SB)	Ground	Roof status signal (Audio)	Output	[Engine is running] • Soft top system	Fully open Other than above	9.5 V 0 V
14 (L)	Ground	Roof open/close switch (Close)	Input	[Engine is running] • Close switch	Pressed Released	0 V Battery voltage
15 (LG)	Ground	Roof open/close switch (Open)	Input	[Engine is running] • Open switch	Pressed Released	0 V Battery voltage
16 (V)	Ground	Trunk room lamp switch	Input	[Ignition switch: ON] • Trunk lid	Open Other than above	0 V Battery voltage
17 (BG)	Ground	CAN-H	Input/ Output	_		_
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		Condition		Value
+	_	Signal name	Input/ Output			(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	Operate Stop	$0 \text{ V} \rightarrow \text{Battery voltage} \rightarrow 0 \text{ V}$ 0 V
48		Power source		[Engine is running]	Active	Battery voltage
(R)	Ground	(Rear window defog- ger)	Input	Rear window defogger	Not active	0 V
49 (R)	Ground	Power source (Rear window defog-	Input	[Engine is running] • Rear window defogger	Active	Battery voltage
(11)		ger)		Near window delogger	Not active	0 V
53 (R)	Ground	Power source (Roof)	Input	[Engine is running]		Battery voltage
54 (B)	Ground	Ground (Roof)	_	_		_
56		5th bow latch close		[Engine is running]	Lock	0.8 V
(W)	Ground	sensor	Input	• 5th bow latch	Other than above	3.0 V
57		Eth how latch open		[Engine is running]	Unlock	0.8 V
(G)	Ground	5th bow latch open sensor	Input	• 5th bow latch	Other than above	3.0 V
F0		Storage lid status		[Facina is winning]	Full open	0.8 V
58 (LG)	Ground	sensor RH (Open)	Input	[Engine is running]Storage lid	Other than above	3.0 V
59		Storage lid status		[Facina is winning]	Full close	0.8 V
(W)	Ground	sensor RH (Close)	Input	[Engine is running]Storage lid	Other than above	3.0 V
60		Storage lid status		[Engine is running]	Full open	0.8 V
(DG)	Ground	sensor LH (Open)	Input	Storage lid	Other than above	3.0 V
61		Roof status sensor		[Engine in rupping]	Raised	0.8 V
61 (Y)	Ground	RH (Close)	Input	[Engine is running]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
69		5th how status can		[Engine is rupping]	Raised	0.8 V
68 (P)	Ground	5th bow status sen- sor RH	Input	[Engine is running]5th bow	Other than above	3.0 V
60		Roof status sensor		[Engine is supplied]	Raised	0.8 V
69 (V)	Ground	LH (Close)	Input	[Engine is running]Soft top	Other than above	3.0 V

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

	nal No. color)	Description		O = selfate o c		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
70 (O)	Ground	5th bow status sensor LH	Input	[Engine is running] • 5th bow	Other than above	0.8 V 3.0 V	-
71 (SB)	Ground	Roof latch lock sensor	Input	[Engine is running] • Roof lock assembly	Lock Other than above	0.8 V 3.0 V	-
72 (W/R)	Ground	Hydraulic pump tem- perature sensor	Input	[Engine is running]	asoro	0 - 4.8 V Output voltage varies with hydraulic pump temperature.	-
73 (R)	Ground	Hydraulic pump relay 2 ON signal	Input	[Engine is running] • Hydraulic pump motor (Right rotation)	Active Inactive	12 V 0 V	-
74 (R/B)	Ground	Hydraulic pump relay 1 ON signal	Input	[Engine is running] • Hydraulic pump motor (Left rotation)	Active Inactive	12 V 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 (L)	Ground	5th bow striker sen- sor	Input	[Engine is running] • 5th bow striker	Hooked Released	0.8 V 3.0 V	=
92 (BG)	Ground	Sensor ground (Hydraulic pump tem- perature sensor)	_	_		_	=
93 (BR)	Ground	Sensor power supply (Roof status sensor RH/Storage lid status sensor RH)	Output	[Engine is running]		12 V	ŀ
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 (W)	Ground	Switching valve 4	Output	[Engine is running] • Switching valve 4	Active Inactive	12 V 0 V	-
97 (LG)	Ground	Switching valve 3	Output	[Engine is running] • Switching valve 3	Active Inactive	12 V 0 V	-
98 (L)	Ground	Switching valve 2	Output	[Engine is running] • Switching valve 2	Active Inactive	12 V 0 V	=
99 (O)	Ground	Switching valve 1	Output	[Engine is running] • Switching valve 1	Active Inactive	12 V 0 V	-
100 (BR)	Ground	Hydraulic pump relay	Output	[Engine is running] • Hydraulic pump motor (Right rotation)	Active	12 V 0 V	=

PWC-189 2016 370Z Revision: 2015 June

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

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

< ECU DIAGNOSIS INFORMATION >

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	Display contents of CONSULT	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.

^{*:} This item indicates the roof status signal (Audio).

DTC Inspection Priority Chart

INFOID:0000000012104208

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
	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

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Revision: 2015 June **PWC-191** 2016 370Z

Priority		Display contents of CONSULT
	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

^{*:} This item indicates the roof status signal (Audio).

DTC Index

NOTE:

For details of Freeze Frame Data, refer to RF-28, "CONSULT Function".

	Display contents of CONSULT	Fail-safe	Freeze Frame Data	Reference page
No DTC is o	detected. Further testing may be required.	_	_	_
U1000	CAN COMM CIRCUIT	×	×	<u>RF-71</u>

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

	Display contents of CONSULT	Fail-safe	Freeze Frame Data	Reference page
U1010	CONTROL UNIT (CAN)	×	X	<u>RF-72</u>
U0140	LOCAL COMM-1	×	×	RF-73
U0215	LOCAL COMM-2	×	×	RF-74
B1701	ROOF CONTROL UNIT	×	×	RF-76
B1701	ROOF CONTROL UNIT	×	×	RF-77
B1702	ROOF SWITCH-OPEN	×	×	RF-78
B1708	ROOF SWITCH-CLOSE	×	×	RF-80
B170F	SENSOR POWER SUPPLY	×	×	RF-82
B171A	HYDRAULIC PMP(LH)	×	×	RF-85
B171B	HYDRAULIC PMP(RH)	×	×	RF-88
B171C	SWITCHING VALVE 1	×	×	RF-91
B171D	SWITCHING VALVE 2	×	×	RF-93
B171D	ROOF STATE SIG(TRUNK)*	×	×	RF-95
B172C	HYDRAULIC STATE 1			RF-97
B1758	THERMO PROTECTION	×	×	-
		×	×	RF-98
B175C	PWR SOURCE(ROOF)	×	×	RF-99
B175D	PWR SOURCE(ROOF)	×	×	RF-100
B175E	PWR SOURCE(WINDOW)	×	×	<u>RF-101</u>
B175F	PWR SOURCE(WINDOW)	×	×	<u>RF-103</u>
B1766	SWITCHING VALVE 3	×	×	<u>RF-105</u>
B1767	SWITCHING VALVE 4	×	×	<u>RF-107</u>
B1768	SWITCHING VALVE 5	×	×	<u>RF-109</u>
B176A	THERMO PROTECTION	×	×	<u>RF-111</u>
B176B	ROOF WARNING LAMP	×	×	<u>RF-112</u>
B176C	STRIKER SENSOR RH	×	×	<u>RF-114</u>
B176D	STRIKER SENSOR LH	×	×	<u>RF-116</u>
B176E	ROOF LATCH LOCK SEN	×	×	<u>RF-118</u>
B176F	ROOF STATUS SEN LH	×	×	<u>RF-120</u>
B1770	ROOF STATUS SEN RH	×	×	<u>RF-122</u>
B1771	ROOF STATUS SEN LH	×	×	<u>RF-124</u>
B1772	5BOW STATUS SEN LH	×	×	<u>RF-126</u>
B1773	5BOW STATUS SEN RH	×	×	<u>RF-128</u>
B1774	S/LID STATUS SEN LH	×	×	<u>RF-130</u>
B1775	S/LID STATUS SEN RH	×	×	<u>RF-132</u>
B1776	S/LID STATUS SEN RH	×	×	<u>RF-134</u>
B1777	REAR DEF OUT SIG	×	×	<u>RF-136</u>
B1778	TRUNK OPEN OUT SIG	×	×	<u>RF-137</u>
B1779	THERMO PROTECTION	×	×	RF-139
B177A	ROOF STATE INCORRECT	×	×	<u>RF-141</u>
B177B	ROOF STATE INCORRECT	×	×	<u>RF-142</u>
B177C	THERMO PROTECTION	×	×	RF-143
B177D	5BOW LATCH OPEN SEN	×	×	RF-144
B177E	5BOW LATCH CLOSE SEN	×	×	RF-146
B177F	5BOW STRIKER SENSOR	×	×	RF-148

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[ROADSTER]

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

POWER WINDOW MAIN SWITCH

[ROADSTER]

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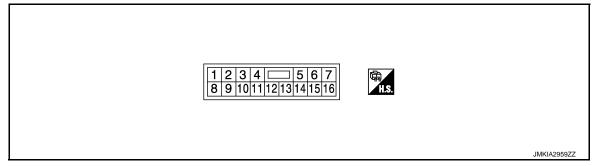
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POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW MAIN SWITCH

	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	_	12
4 (Y)	Ground	Driver side door switch	Input	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
				ON (Door open)	0
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
10	Ground	lanition quitab nower cianal	Innut	IGN SW ON	12
(Y)	Giound	Ignition switch power signal	Input	IGN SW OFF	0

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

	inal No. e color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Conducti	(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 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 10 10 10 ms 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

[ROADSTER] < ECU DIAGNOSIS INFORMATION > Wiring Diagram - POWER WINDOW CONTROL SYSTEM -INFOID:0000000011735635 Α PASSENGER SIDE POWER WINDOW MOTOR D40 ENCODER \$ В ★: This connector is not shown in "Harness Layout"
 ⟨ÇP⟩: Coupe models

 ⟨RS⟩: Roadster models

 * 1 97: ⟨CP⟩

 92: ⟨RS⟩

 *2 14: ⟨CP⟩

 7: ⟨RS⟩
 BETWEEN FULL STROKE AND N DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR KEY CYLINDER SWITCH) (D15) C POWER WINDOW SUB-SWITCH (D38) LOCK BETWEEN FULL STROKE AND N D ILLUMINATION MODULE Е F M124 (D31) M5 15 G ENCODER \$ MS) Н B81 MODULE J 14 15 103 BCM (BODY CONTROL MODULE) ILLUMI-NATION PWC M118, (M119), (M122), (M123) 30 M117 POWER WINDOW MAIN SWITCH DB L POWER WINDOW SYSTEM 10 10 M117 M BATTERY Ν

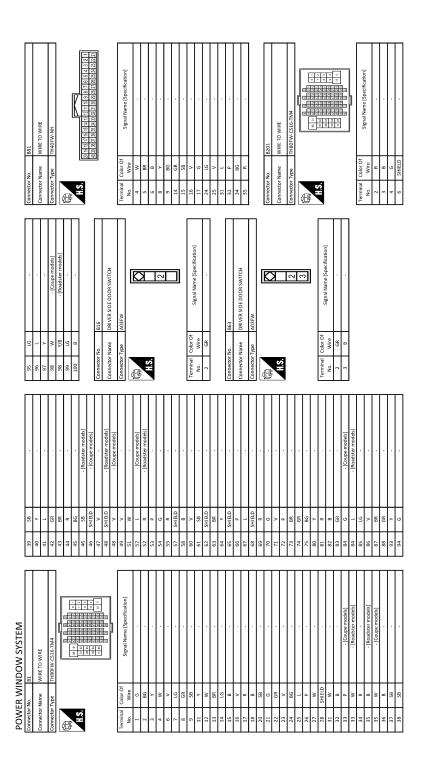
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POWER WINDOW MAIN SWITCH

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10 O TRUNK LID OPEN SIGNAL	0	SB		- Ro	V TRUNK RO	BG	۵	IG LOCAL	20 V LOCAL COMMUNICATION (BCM)	21 BR SENSOR POWER SUPPLY (ROOF STRIKERSENSOR RH)	29 DG GROUND	35 P ROOF OPEN / CLOSE SWITCH (GND)			Connector No. D1	Connector Name WIRE TO WIRE	Т	Connector Type TH40FW-CS15	4		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	25 R5	36343633130				Terminal Color Of Signal Name [Specification]	t	Т	·	Н	BG	а	11 V - [Without BOSE system]	+	13 B	gc :	+	15 W	23 V/B	+	SHIELD	t		44 .
B301	WIRE TO WIRE		TH40MW-NH				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	7 2 2 2 2 2 2 2 2 2 3 3 3 2 3 3 3 3 3 3				Signal Mamo [Specification]	incommunity and a second and a second as a																	8303	SOFT TOP CONTROL LINIT		TH40F8-NH			7	20 19 18 17 16 15 14 12 11 10 9 8 4 3 1	35 21 29 21				Signal Name [Specification]	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)	Hd dOSK35 daridas socia	NOOL STRIKEN SENSON WIL
Connector No.	Connector Name		Connector Type	ą	彦	٦	T I					Terminal Color Of	No. Wire	4 LG	2 r	+	8	+	+	+	+	17 DG	+	+	1	+	34 0	1		Connector No.	Connector Name		Connector Type	q.	至	S					Terminal Color Of		1 8R	3	_
- [Coupe models]							- [Roadster models]		B - (Roadster models)		- [Coupe models]	- [Roadster models]			8206	PASSENGER SIDE DOOR SWITCH	┪	A03FW	E	<u> </u>	<u> </u>	ŀ	2	er.	•		Ot Signal Name [Specification]					8216	PASSENGER SIDE DOOR SWITCH	T	A03FW	E	2	1	C	7]		a. Signal Name (Specification)	
93 V	Н	┪	S	+	+	97 16	97 Y	W 86	8/ X	9 66	100 BR	100 Y			Connector No.	Connector Name		Connector Type	q	车	S.						Terminal Color Of	t	+			Connector No.	Connector Name		Connector Type	₫.	车	S					Terminal Color Of	No	
																																					T			T					1
POWER WINDOW SYSIEM 7 R	- [Roadster models]	- [Coupe models]	- [Roadster models]		•			,		,								•		-[Conbe models]	- [Roadster models]	- [Roadster models]	- [Coupe models]										,		- Roadster models	- [conbe models]	[suanou adnos] -	- Roadster models	- (Coupe models)	- [Roadster models]	(capped paragraph)		- [Coupe models]	- [Boadster models]	Toponomic recognition
	>	BR	97	>	œ	ŋ	œ	8	w	>	U	1	SB	Ь	٦	SHIELD	BR	>	SHIELD	9 1	۵.	٦	~	g	×	35	e >	. >	. 25	BG	>	۵	٦	9	m :	> (ъ.	٦ ،	-	, .	. a	. 60	8	W	*
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Revision: 2015 June **PWC-199** 2016 370Z

Connector No. D38	T	Connector Name POWER WINDOW SUB-SWITCH	Connector Type NS16FW-CS			HS.	8 9 10 1112 14 15 16	21 11 01 0		Terminal Color Of Signal Name (Specification)	t	4 BG ENCODER PWR	dn 1 8	9 BR DOWN	10 W BAT	11 B GND	12 R ENCODER SIG 1	14 Y DOOR SWITCH [Roadster models]	15 LG ENCODER SIG 2	16 Y SERIAL LINK			Connector No. D40	Connector Name PASSENGER SIDE POWER WINDOW MOTOR		Connector Type FHB06FGY-2	þ				1 5 8				Terminal Color Of Signal Name (Sperification)	No. Wire	1 6	2 R -	3 BR .	\dashv	. 51 (5	- 1 9
Connector No. D31	I	Connector Name WIRE TO WIRE	Connector Type TH40FW-CS15			ν.	स्वस्थान्यस्थान्यस्थान्यस्थान्यस्य स्थापन्यस्य । । स्वस्थान्यस्थान्यस्थान्यस्य			Terminal Color Of Signal Name [Specification]	t	10 V -		12 LG - [Without BOSE system]	12 P - (With BOSE system)	13 L - [With BOSE system]	13 V - [Without BOSE system]	14 B .	15 W -	19 ү	23 Y/B -	1	26 SHIELD -	35 G .	44 L -	50 Y	51 Y -	52 G -		54 GR -												
Connector No. D10	T	Connector Name DRIVER SIDE POWER WINDOW MOTOR	Connector Type FHB06FGY-Z			SH SH	-			Terminal Color Of Signal Name [Specification]	t	2 R	3 BR	4 86 -	. 91 8				Connector No. D15	VIOLENCE Name OBIVED SIDE DOOR ASSESSED VIOLE		Connector Type E06FGY-RS	þ				(123451)				Terminal Color Of Signal Name (Specification)	No. Wire Signal Marine [Specification]	1 86 .	2 6	3 SB .	4 B		6 GR -				
POWER WINDOW SYSTEM		52 V	53 86	┞	Н		Connector No. D8	Connector Name POWER WINDOW MAIN SWITCH	Connector Type NS16FW-CS	1		11 4 1 19 6 7	8 9 10 11 12 13 14 15	2			le le			4 Y DOOR SWITCH [Roadster models]	BG	GR	7 V DOOR KEY CYLINDER UNLOCK		LG ENCO	>		SB	Y SERIAL	R	G ENC	15 B GND										

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POWER WINDOW MAIN SWITCH

[ROADSTER]

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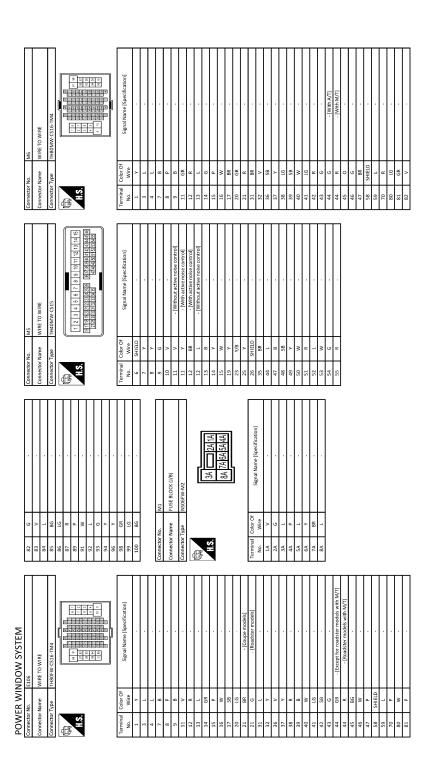
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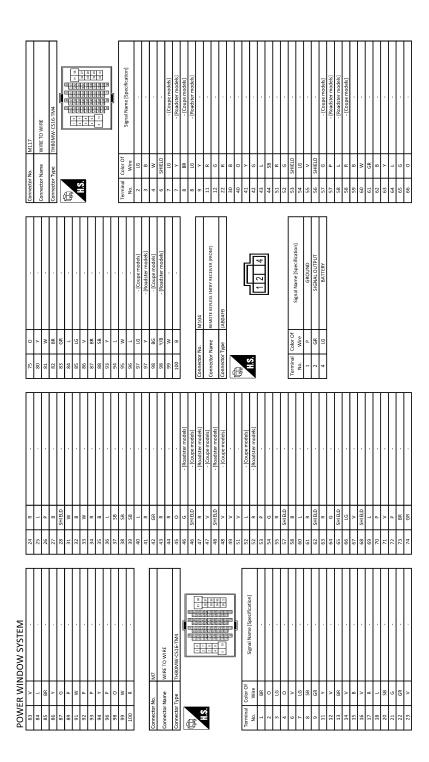
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 		Connector !			_			ľ		
				BCM (BODY CONTROL MODULE)	82	~	IGN RELAY (F/B) CONT	137	_	RECEIVER &SENSOR GND
					83	GR	KYLS ENT RECEIVER (FRONT) COMM	138	>	RECEIVER & SENSOR POWER SUPPLY
		Connector Type	Г	NS16FW-CS	87	BR	COMBI SW INPUT 5	139	7	TIRE PRESS RECEIV COMM
					88	۸	COMBI SW INPUT 3	140	9	NOILISON NA
 		E			06	۵	CAN-L	141	>	SECURITY INDICATOR
 					91	_	CAN-H	142	0	COMBI SW OUTPUT 5
		Ż		4 b	92	97	KEY SLOT ILL	143	Ь	COMBI SW OUTPUT 1
 				11 13 14 15 17 18 10	93	>	GNIND	144	9	COMBI SW OUTPUT 2
 				01 1	95	0	ACC RELAY CONT	145	_	COMBI SW OUTPUT 3
 					96	>	A/T SHIFT SELECTOR POWER SUPPLY	146	SB	COMBI SW OUTPUT 4
 	- [Coupe models]				66	œ	SHIFT P/CLUTCH PEDAL POS SW	150	GR	DRIVER DOOR SW
	- [Roadster models]	Terminal	Color Of	(100	GR	PASSENGER DOOR REQUEST SW	151	9	REAR WINDOW DEFOGGER RELAY CONT
	- [Coupe models]	No.	Wire	ognal Name (operation)	101	>	DRIVER DOOR REQUEST SW			
	- [Roadster models]	4	æ	INTERIOR ROOM LAMP POWER SUPPLY	102	0	BLOWER FAN MOTOR RELAY CONT			
	- [Roadster models]	S	9	PASSENGER DOOR UNLOCK OUTPUT	103	91	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	Connector No.	.No.	M124
++	- [Coupe models]	80	۸	ALL DOOR, FUEL LID LOCK OUTPUT	107	91	COMBI SW INPUT 1		Name of	10000
H	- [Roadster models]	6	9	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	108	œ	COMBI SW INPUT 4	Connecto	Name	WIRE IO WIRE
H	- [Coupe models]	11	HB.	BAT (FUSE)	109	>	COMBI SW INPUT 2	Connector Type	Type	TH40MW-CS15
	- [Coupe models]	13	9	GROUND	110	۵	HAZARD SW			
۸ 46	- [Roadster models]	14	æ	PUSH-BUTTON IGNITION SW ILL GND				ľ	9	
۸ 86	- [Coupe models]	15	>	ACCIND				·		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
8/A 86	- [Roadster models]	17	Α.	TURN SIGNAL RH (FRONT, SIDE)	Connector No.		M123	Ż.		and the feet of th
9 66		18	0	TURN SIGNAL LH (FRONT, SIDE)		Г	() ()			16 1/16 19 20 21 22 22 24 22 28 35 37 35 36 40 41 42 43 44 45 49
100 BR	- [Coupe models]	19	Ь	ROOM LAMP TIMER CONTROL	Connector IV.		ICM (BODT CONTROL MODULE)			official and a second
100 Y	- [Roadster models]				Connector Type	П	TH40FG-NH		,	
		old responded	Γ	0000	Œ			Toronian	o solo	
		COLLEGE	I	771	華			i i i i i i i i i i i i i i i i i i i		Signal Name [Specification]
Ī	20	Connector Name		BCM (BODY CONTROL MODULE)	S	L	7	NO.	wire on o	
Connector Name BCM	BCM (BODY CONTROL MODULE)	Connector Type	Ť	TH40FB.NH				, 01	9	
Connector Type M03	M03FB-LC		1			= 1		11	>	
		1						12	91	- [Without active noise control unit]
€		Al-						12	>-	- [With active noise control unit]
		<u>8</u>	كل		Terminal	Color Of		13	BR	- [With active noise control]
H.S.	1.3			30 00 00 00 00 00 00 00 00 00 00 00 00 0	No.	Wire	Signal Name [Specification]	13	>	- [Without active noise control]
			- 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	113	0	OPTICAL SENSOR	14	8	
	2				114	000	CLUTCH INTERLOCK SW	15	*	
]				115	0		19	>	
		Terminal	Color Of		116	SB	STOP LAMP SW 1	23	Y/8	
Terminal Color Of	3	No.	Wire	ognal vame [opecification]	118	۵	STOP LAMP SW 2	25	Μ	
No. Wire	ognal Name [opecification]	72	_	ROOM ANT 2-	119	SB	DR DOOR UNLOCK SENSOR	56	SHIELD	
1 W	BAT (F/L)	73	۵	ROOM ANT 2+	121	œ	KEY SLOT SW	35	8	
-	POWER WINDOW POWER SUPPLY (BAT)	74	SB	PASSENGER DOOR ANT-	123	>	IGN F/B	44	0	
L	POWER WINDOW POWER SUPPLY (IGN)	75	BR	PASSENGER DOOR ANT+	124	91	PASSENGER DOOR SW	20	>	
		76	>	DRIVER DOOR ANT-	129	0	TRUNK LID OPENER CANCEL SW	51	>-	
		77	97	DRIVER DOOR ANT+	130	_	REAR DEFOGGER SW	52	GR	
		78	-	ROOM ANT 1-	132	>	P/W SW & SOFT TOP C/U COMM [Roadster models]	53	Μ	
		79	œ	ROOM ANT 1+	132	>	POWER WINDOW SW COMM [Coupe models]	54	9	,
		G S	æ	NATS ANT AMP	133	· ·	PLISH BLITTON IGNITION SWITT BOWER	5		

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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.

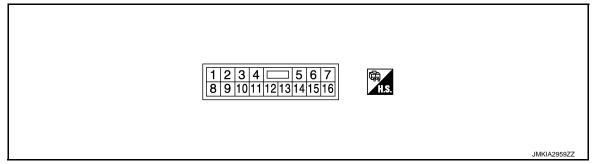
POWER WINDOW SUB-SWITCH

[ROADSTER]

POWER WINDOW SUB-SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal 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			
14 (Y)	Ground	Passenger side door switch	Input	OFF (Door close)				
				ON (Door open)	0			

Revision: 2015 June **PWC-205** 2016 370Z

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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
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 0 10 ms JPMIA0013GB

[ROADSTER] < ECU DIAGNOSIS INFORMATION > Wiring Diagram - POWER WINDOW CONTROL SYSTEM -INFOID:0000000012104181 Α PASSENGER SIDE POWER WINDOW MOTOR D40 ENCODER \$ В ★: This connector is not shown in "Harness Layout"
 ⟨ÇP⟩: Coupe models

 ⟨RS⟩: Roadster models

 * 1 97: ⟨CP⟩

 92: ⟨RS⟩

 *2 14: ⟨CP⟩

 7: ⟨RS⟩
 BETWEEN FULL STROKE AND N DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR KEY CYLINDER SWITCH) (D15) C POWER WINDOW SUB-SWITCH (D38) LOCK BETWEEN FULL STROKE AND N D ILLUMINATION MODULE Е F M124 (D31) M5 15 G ENCODER \$ MS) Н B81 MODULE J 14 15 103 BCM (BODY CONTROL MODULE) ILLUMI-NATION PWC M118, (M119), (M122), (M123) 30 M117 POWER WINDOW MAIN SWITCH DB L POWER WINDOW SYSTEM

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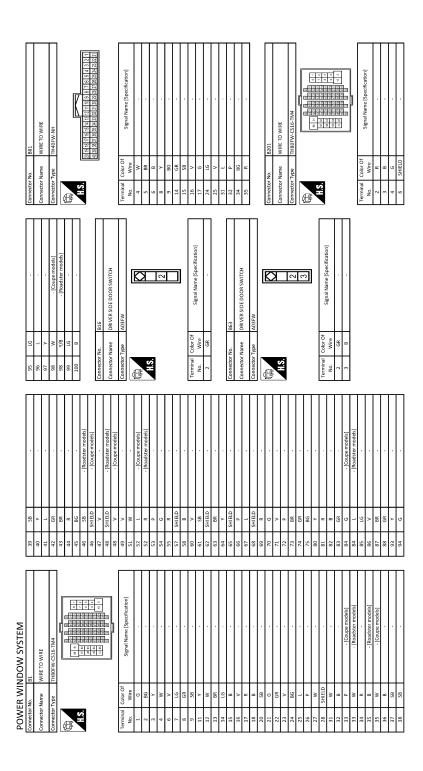
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Connector No. D38	Ι,	41	Connector Type NS16FW-CS			HS.	8 0 101111 11111	71 11 01 0		ler		A BC ENCODER DIAM	3 -	BR		11 B GND	R ENCC	14 Y DOOR SWITCH [Roadster models]	15 LG ENCODER SIG 2	16 Y SERIAL LINK			Connector No. D40	Connector Name PASSENGER SIDE DOWER WANDOW ANDTOR		Connector Type FHB06FGY-2			J.	(1 2 3)	8 2 1)		Terminal Color Of Signal Name (Specification)	No. Wire	1 6 .	2 R .	3 BR .	\dashv	. 91 5	
D31 [G	1000		TH40FW-CS15			15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	(4) (4) (4) (4) (4) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	s		Signal Name [Specification]				- [Without BOSE system]	- [With BOSE system]	- [With BOSE system]	- [Without BOSE system]						υ ·			· .									<u> </u>						_	
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POWER WINDOW SUB-SWITCH

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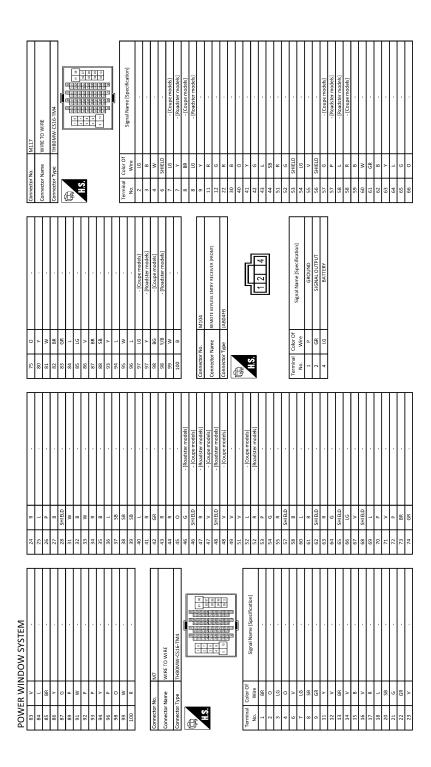
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b	- [Coupe models]				66	R	SHIFT P/CLUTCH PEDAL POS SW	150	GR	DRIVER DOOR SW
91	- [Roadster models]	Terminal	Color Of	Signal Name (Snerification)	100	GR	PASSENGER DOOR REQUEST SW	151	9	REAR WINDOW DEFOGGER RELAY CONT
œ	- [Coupe models]	No.	Wire	-Brian series [above series]	101	*	DRIVER DOOR REQUEST SW			
>	- [Roadster models]	4	В	INTERIOR ROOM LAMP POWER SUPPLY	102	0	BLOWER FAN MOTOR RELAY CONT			
ŋ	- [Roadster models]	2	9	PASSENGER DOOR UNLOCK OUTPUT	103	PI	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	Connector No.	. No.	M124
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91	- [Roadster models]	6	9	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	108	R	COMBI SW INPUT 4		allipa	WINE IO WINE
SB	- [Coupe models]	11	BB	BAT (FUSE)	109	>	COMBI SW INPUT 2	Connector Type	Type	TH40MW-CS15
97	- [Coupe models]	13	8	GROUND	110	۵	HAZARD SW			
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>	BAT (F/L)	73	۵	ROOM ANT 2+	121	æ	KEY SLOT SW	35		
>	POWER WINDOW POWER SUPPLY (BAT)	74	SB	PASSENGER DOOR ANT-	123	×	IGN F/B	44	0	
>	POWER WINDOW POWER SUPPLY (IGN)	75	BR	PASSENGER DOOR ANT+	124	91	PASSENGER DOOR SW	20	>	
		76	>	DRIVER DOOR ANT-	129	0	TRUNK LID OPENER CANCEL SW	51	>	
		77	51	DRIVER DOOR ANT+	130	_	REAR DEFOGGER SW	52	æ	
		. 28	-	ROOM ANT 1-	132	>	P/W SW & SOFT TOP C/U COMM [Boadstermodels]	23	3	,
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		79	œ	ROOM ANT 1+	132	>	POWER WINDOW SW COMM [Coupe models]	24	G	
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INFOID:0000000012104182

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.

POWER WINDOW SUB-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 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:0000000011735640

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 BCS-53, "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-45, "Intermittent Incident".

NO >> GO TO 1.

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[ROADSTER]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description INFOID:000000011735642

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

Diagnosis Procedure

INFOID:0000000011735643

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

Check power window main switch power supply and ground circuit.

Refer to PWC-124, "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-127, "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-45, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > [ROADSTER]

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE Α Description INFOID:0000000011735644 Passenger side power window operates using power window main switch and power window sub-switch. В Diagnosis Procedure INFOID:0000000011735645 1. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT C Check power window sub-switch power supply and ground circuit. Refer to PWC-125, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2. CHECK PASSENGER SIDE POWER WINDOW MOTOR Check passenger side power window motor. Refer to PWC-128, "PASSENGER SIDE: Component Function Check". F 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. Н Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". >> GO TO 1. NO

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ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > [ROADSTER]

ANTI-PINCH FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000011735646

Anti-pinch function does not operate when power window up operated.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000011735647

1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-219, "DRIVER SIDE : Diagnosis Procedure".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011735648

Anti-pinch function does not operate when power window up operated.

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000011735649

1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-219, "PASSENGER SIDE : Diagnosis Procedure".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

LY
< SYMPTOM DIAGNOSIS > [ROADSTER]
AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES
NORMALLY
DRIVER SIDE
DRIVER SIDE : Diagnosis Procedure
1.PERFORM INITIALIZATION PROCEDURE
Initialization procedure is performed and operation is confirmed. Refer to PWC-114 , "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description".
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-131, "DRIVER SIDE : Component Function Check". F
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-45, "Intermittent Incident".
YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1.
PASSENGER SIDE
PASSENGER SIDE : Diagnosis Procedure
1.PERFORM INITIALIZATION PROCEDURE
Initialization procedure is performed and operation is confirmed. Refer to PWC-114 , "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Descrip-
tion". 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-133, "PASSENGER SIDE: Component Function Check".
Is the inspection result normal?
YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.
J. CONFIRM THE OPERATION
Confirm the operation again. Is the result normal?
YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-MALLY

< SYMPTOM DIAGNOSIS > [ROADSTER]

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Description INFOID:000000011735652

INFOID:0000000011735653

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

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-290, "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-45, "Intermittent Incident".

NO >> GO TO 1.

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

[ROADSTER] < SYMPTOM DIAGNOSIS >

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

Description INFOID:0000000011735654

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

Diagnosis Procedure

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-114, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description".

Is the inspection result normal?

>> INSPECTION END

NO >> GO TO 2.

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

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

Refer to DLK-301, "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-45, "Intermittent Incident".

NO >> GO TO 1.

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KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > [ROADSTER]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Description

Power window down does not operate when pressing unlock button on Intelligent Key.

Diagnosis Procedure

INFOID:0000000011735657

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 DLK-337, "Diagnosis Procedure".

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 PWC-215, "Diagnosis Procedure".

3.check "pw down set" setting in "work support"

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

Refer to DLK-237, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Roadster)".

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-45, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION [ROADSTER] < SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000011735658 1. REPLACE POWER WINDOW MAIN SWITCH В Replace power window main switch. С >> Refer to PWC-228, "Removal and Installation". D Е F G Н J PWC L M Ν 0 Р

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[ROADSTER]

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000011735659

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-228, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000011735660

1. REPLACE POWER WINDOW SUB-SWITCH

Replace power window sub-switch.

>> Refer to PWC-228, "Removal and Installation".

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE [ROADSTER] < SYMPTOM DIAGNOSIS > AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000011735661 В 1. CHECK AUTO UP OPERATION Check AUTO UP operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to PWC-219, "DRIVER SIDE : Diagnosis Procedure". D 2. CHECK DOOR SWITCH Check door switch. Refer to PWC-136, "DRIVER SIDE: Component Function Check". Е Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. F 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1. Н PASSENGER SIDE PASSENGER SIDE: Diagnosis Procedure 1. CHECK AUTO UP OPERATION

Check AUTO UP operation. Is the inspection result normal? YES >> GO TO 2.

NO >> Refer to PWC-219, "PASSENGER SIDE : Diagnosis Procedure".

2.CHECK DOOR SWITCH

Check door switch.
Refer to PWC-137, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

<u>Is the result normal?</u>

YES >> Check intermittent incident. Refer to <u>GI-45, "Intermittent Incident"</u>.

NO >> GO TO 1.

Revision: 2015 June **PWC-225** 2016 370Z

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< 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 USA AND CANADA: Precautions for Removing Battery Terminal

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 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

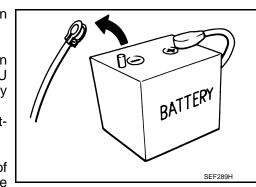
NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:



< PRECAUTION > [ROADSTER]

The removal of 12V battery may cause a DTC detection error.

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: 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: Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected

detected.
After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

The removal of 12V battery may cause a DTC detection error.

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REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

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REMOVAL

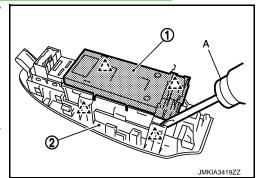
- 1. Remove the power window main switch finisher. Refer to INT-48, "Removal and Installation".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A).



CAUTION:

Never fold the pawl of power window main switch finisher. NOTE:

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 PWC-115, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".