

CONTENTS

BASIC INSPECTION4
DIAGNOSIS AND REPAIR WORK FLOW 4 Work Flow4
INSPECTION AND ADJUSTMENT5
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT
SYSTEM DESCRIPTION7
POWER WINDOW SYSTEM7System Diagram.7System Description.7Component Parts Location.10Component Description.10
DIAGNOSIS SYSTEM (BCM)12
COMMON ITEM12 COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)12
RETAINED PWR
DTC/CIRCUIT DIAGNOSIS14
POWER SUPPLY AND GROUND CIRCUIT14

BCM 14 BCM : Diagnosis Procedure14
POWER WINDOW MAIN SWITCH14 POWER WINDOW MAIN SWITCH : Diagnosis Procedure14
POWER WINDOW SUB-SWITCH15 POWER WINDOW SUB-SWITCH : Diagnosis Procedure
POWER WINDOW MOTOR17
DRIVER SIDE
PASSENGER SIDE18 PASSENGER SIDE : Description18 PASSENGER SIDE : Component Function Check
18 PASSENGER SIDE : Diagnosis Procedure18 PASSENGER SIDE : Component Inspection19
ENCODER21
DRIVER SIDE
PASSENGER SIDE23 PASSENGER SIDE : Description23 PASSENGER SIDE : Component Function Check23
PASSENGER SIDE : Diagnosis Procedure23
POWER WINDOW SERIAL LINK26
POWER WINDOW MAIN SWITCH26 POWER WINDOW MAIN SWITCH : Description26

D

Е

F

Н

J

PWC

L

M

Ν

0

POWER WINDOW MAIN SWITCH : Component	WITH BOTH POWER WINDOW MAIN SWITCH
Function Check	
POWER WINDOW MAIN SWITCH: Diagnosis	WITH BOTH POWER WINDOW MAIN SWITCH
Procedure	. 26 AND POWER WINDOW SUB-SWITCH : Description81
POWER WINDOW SUB-SWITCH	. 27 WITH BOTH POWER WINDOW MAIN SWITCH
POWER WINDOW SUB-SWITCH : Description	AND POWER WINDOW SUB-SWITCH : Diagno-
POWER WINDOW SUB-SWITCH : Component	sis Procedure82
Function Check	. 27
POWER WINDOW SUB-SWITCH : Diagnosis	ANTI-PINCH FUNCTION DOES NOT OPER-
Procedure	. 28 ATE 83
ECU DIAGNOSIS INFORMATION	
LCO DIAGNOSIS INI OKMATION	DRIVER SIDE83 DRIVER SIDE : Description83
BCM (BODY CONTROL MODULE)	DRIVER SIDE : Diagnosis Procedure
Reference Value	. 30
Wiring Diagram - BCM	
Fail-safe	
DTC Inspection Priority Chart	. 61 PASSENGER SIDE : Diagnosis Procedure 83
DTC Index	62
	AUTO OPERATION DOES NOT OPERATE
POWER WINDOW MAIN SWITCH	
Reference Value	. 65 DRIVER SIDE84
Wiring Diagram - POWER WINDOW CONTROL	DDIVED CIDE - Diamania Danas duma
SYSTEM	. 07
Fail-Safe	FASSENGER SIDE04
POWER WINDOW SUB-SWITCH	PASSENGER SIDE : Diagnosis Procedure 84
Reference Value	
Wiring Diagram - POWER WINDOW CONTROL	TOWER WINDOW RETAINED TOWER
SYSTEM	FUNCTION DOES NOT OPERATE NORMAL-
Fail-Safe	₇₇ LY 85
Tall Gale	Description85
SYMPTOM DIAGNOSIS	. 79 Diagnosis Procedure85
POWER WINDOWS DO NOT OPERATE	DOOR KEY CYLINDER SWITCH DOES NOT
WITH ANY POWER WINDOW SWITCHES	OPERATE POWER WINDOWS86
Description	Description
Diagnosis Procedure	. 19 Diamenta Daniel III
Diagnosis Flocedure	. 19
DRIVER SIDE POWER WINDOW ALONE	KEYLESS POWER WINDOW DOWN DOES
DOES NOT OPERATE	.80 NOT OPERATE87
Description	Description87
Diagnosis Procedure	
	POWER WINDOW LOCK SWITCH DOES
PASSENGER SIDE POWER WINDOW	NOT FUNCTION
ALONE DOES NOT OPERATE	Diagnosis Procedure
WHEN POWER WINDOW MAIN SWITCH IS OP-	Diagnosis Procedure88
ERATED	POWER WINDOW SWITCH ILLUMINATION
WHEN POWER WINDOW MAIN SWITCH IS OP-	DOES NOT ILLUMINATE89
ERATED : Description	
WHEN POWER WINDOW MAIN SWITCH IS OP-	DRIVER SIDE89
ERATED : Diagnosis Procedure	DRIVER SIDE : Diagnosis Procedure89
· ·	PASSENGER SIDE89
WHEN POWER WINDOW SUB-SWITCH IS OP-	PASSENGER SIDE : Diagnosis Procedure 90
ERATED	. 81
WHEN POWER WINDOW SUB-SWITCH IS OP-	AUTOMATIC WINDOW ADJUSTING FUNC-
ERATED : Description	· 81 TION DOES NOT OPERATE90
WHEN POWER WINDOW SUB-SWITCH IS OP-	
ERATED : Diagnosis Procedure	. 81 DRIVER SIDE90

DRIVER SIDE : Diagnosis Procedure90	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
PASSENGER SIDE90	SIONER"	92
PASSENGER SIDE : Diagnosis Procedure90	Precaution for Battery Service	
PRECAUTION92	REMOVAL AND INSTALLATION	93
PRECAUTIONS92	POWER WINDOW MAIN SWITCH	93
	Removal and Installation	93

Н

G

Α

В

С

D

Е

F

PWC

J

L

 \mathbb{N}

Ν

0

Ρ

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain 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

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000004460994

When the battery negative terminal is disconnected, the initialization is necessary.

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

- Power supply to the power window switch or power window motor is cut off by removal of battery terminal or if the battery fuse is blown.
- 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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000004460995

INITIALIZATION PROCEDURE

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

CAUTION:

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

CHECK ANTI-PINCH FUNCTION

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

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.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-70, "Fail-Safe"

PWC-5

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

PWC

Α

В

D

Е

F

Н

Ν

Р

2009 370Z

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000004460996

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

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

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

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

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

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.
- 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.

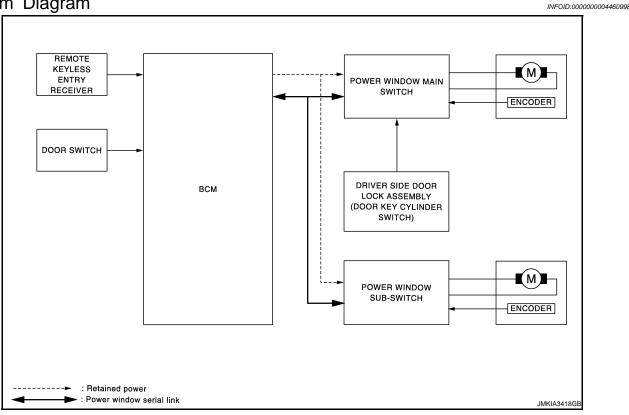
CAUTION:

- 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.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-70, "Fail-Safe"
- 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

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:0000000004460999

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 LOCK or UNLOCK direction for 1 second or more to OPEN or CLOSE all power windows when ignition switch OFF.

POWER WINDOW AUTO-OPERATION

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

PWC

Α

D

M

Ν

POWER WINDOW SYSTEM

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

POWER WINDOW LOCK FUNCTION

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

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 >

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

KEYLESS POWER WINDOW DOWN FUNCTION

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

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-49, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

NOTE:

Use CONSULT-III to change settings.

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

POWER CONSUMPTION CONTROL SYSTEM

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

LOW POWER CONSUMPTION MODE

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

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

- Ignition switch ON.
- When door key cylinder switch signal is received.
- When door lock signal is received.
- When the signal is received from serial link.

PWC

Р

PWC-9 Revision: 2009 December 2009 370Z

Α

В

D

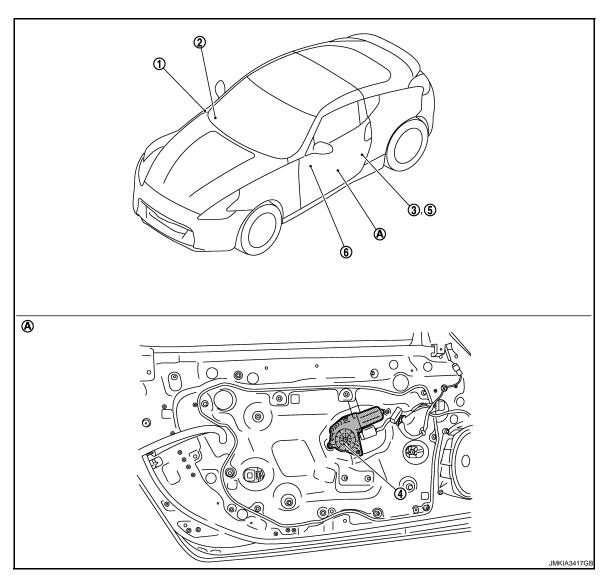
Е

Н

N

Component Parts Location

INFOID:0000000004461000



- BCM M118, M119, M122, M123 BCS-8, "Component Parts Location"
- Remote keyless entry receiver M104 3. DLK-30, "REMOTE KEYLESS EN-TRY FUNCTION: Component Parts Location"
- Driver side door lock assembly (door key cylinder switch) D15

- Driver side power window motor D10 5.
- Driver side door switch B16 View with door finisher removed
- Power window main switch D8

Component Description

INFOID:0000000004461001

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.	

Α

В

С

D

Е

F

G

Н

J

PWC

 \mathbb{N}

Ν

0

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000004555918

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

NOTE:

FREEZE FRAME DATA (FFD)

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

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

RETAINED PWR

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

INFOID:0000000004747508

0

Ρ

Data monitor

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000004461002

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	Rattory 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

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	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:0000000004461003

1. CHECK POWER SUPPLY CIRCUIT 1

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT 2

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

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

4. Check continuity between BCM harness connector and ground.

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "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	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

1. CHECK POWER SUPPLY CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. 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	Battery voltage	

PWC

Α

В

D

Е

F

Н

M

Ν

INFOID:0000000004461004

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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	BCM		Power window sub-switch	
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 BCS-84, "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 >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004461005

Α

В

D

Е

F

Н

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

DRIVER SIDE: Component Function Check

INFOID:0000000004461006

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-17, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004461007

1. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

1. Turn ignition switch OFF.

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

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

(+) Driver side power window motor		(–) Co		dition	Voltage (V) (Approx.)
Connector	Terminal				(, , pp. 3 ,)
	6	6 Ground Power window main switch		UP	Battery voltage
D10	6		Power window	DOWN	0
DIO	2		main switch	UP	0
	3			DOWN	Battery voltage

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-18, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver side power window motor. Refer to <u>GW-21, "Removal and Installation"</u>.

3.check power window motor circuit

1. Turn ignition switch OFF.

- 2. Disconnect power window main switch connector.
- 3. Check continuity between power window main switch harness connector and 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

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

PWC

M

Ν

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-93, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004461008

COMPONENT INSPECTION

1. CHECK DRIVER SIDE POWER WINDOW MOTOR

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

Driver side power window mo-	Terr	Motor operation	
tor connector	(+)	(–)	Wotor operation
D10	3	6	DOWN
D10	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-21</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004461009

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004461010

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-18, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004461011

1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

< DTC/CIRCUIT DIAGNOSIS >

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

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-19, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace passenger side power window motor. Refer to <u>GW-21, "Removal and Installation"</u>.

3.check power window motor circuit

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

Power wind	ow sub-switch	Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	9	D40	3	Existed
D36	8	D40	6	Existed

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

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

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-93, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

>> INSPECTION END

Refer to GI-39, "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.

PWC

Α

В

D

F

I\ /I

M

. .

N

INFOID:0000000004461012

< DTC/CIRCUIT DIAGNOSIS >

Passenger side power window	Terminal		Motor condition
motor connector	(+)	(–)	IVIOLOT COTTAILION
	3	6	DOWN
540	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-21, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

ENCODER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004461013

Α

В

D

Е

Н

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:0000000004461014

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-21</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

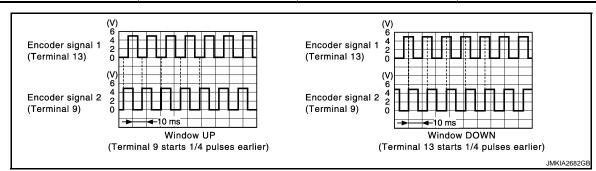
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004461015

1. CHECK ENCODER OPERATION

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

	(+)		6 : 1		
Power windo	w main switch	(-) Signal (Reference value		(–) Signai (Reference valu	Signal (Reference value)
Connector	Terminal		(**************************************		
D8	9	Ground	Refer to the following signal		
Do	13	Giouna	There to the following signal		



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-93, "Removal and Installation".

NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

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

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

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

PWC

IVI

Ν

 \circ

< DTC/CIRCUIT DIAGNOSIS >

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D8	9	_ Ground	Not existed
D0	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

- 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.

(Driver side pow	(+) Driver side power window motor		Voltage (V) (Approx.)
Connector	Terminal		(/ (pp. 5/)
D10	4	Ground	Battery voltage

Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

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

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

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-93, "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	Power window main switch		Driver side power window motor	
Connector	Terminal	Connector	Terminal	Continuity
D8	14	D10	1	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK GROUND CIRCUIT 2

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

- 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	Terminal	Ground	Continuity
D8	14		Existed

Is the inspection result normal?

YES >> Replace driver side power window motor. Refer to PWC-93, "Removal and Installation".

NO >> Replace power window main switch. Refer to <u>PWC-93</u>, "<u>Removal and Installation</u>".

PASSENGER SIDE

PASSENGER SIDE: Description

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

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-23, "PASSENGER SIDE : Diagnosis Procedure".

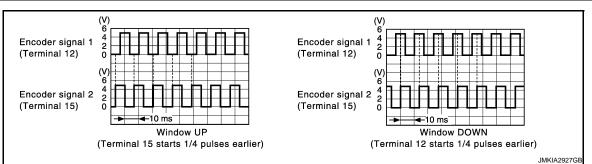
PASSENGER SIDE: Diagnosis Procedure

1. CHECK ENCODER SIGNAL

1. 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		(11010101100 101100)
D38	12		Defer to the following signal
D30	15	Ground	Refer to the following signal



Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-93, "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.

PWC

Α

D

F

INFOID:0000000004461016

INFOID:0000000004461017

INFOID:0000000004461018

N

Ν

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK ENCODER POWER SUPPLY CIRCUIT 1

- 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	Battery voltage	

Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY CIRCUIT 2

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

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

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

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

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to PWC-93, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK GROUND CIRCUIT 1

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

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

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

- 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 PWC-93, "Removal and Installation".

>> Replace power window sub-switch. Refer to PWC-93, "Removal and Installation". NO

PWC

Ν

0

PWC-25 Revision: 2009 December 2009 370Z

В

Α

C

D

Е

F

Н

J

M

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

INFOID:0000000004639964

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:0000000004461020

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(III) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to DLK-47, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-26, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000004461021

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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

(+) Power window	Power window main switch		Signal (Reference value)	
Connector	Terminal			
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

Turn ignition switch OFF.

< DTC/CIRCUIT DIAGNOSIS >

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

(+)			Voltage (V)	
Power windo Connector	w main switch Terminal	(-)	Voltage (V) (Approx.)	
D8	12	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-93, "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	ВСМ		Power window main switch	
Connector	Terminal	Connector	Terminal	Continuity
M123	132	D8	12	Existed

4. Check continuity between BCM connector and ground.

ВСМ		Continuity	
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH: Description

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

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

Keyless power window down signal

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

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

POWER WINDOW SUB-SWITCH: Component Function Check

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(II) With CONSULT-III

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to DLK-47, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

PWC

Α

В

D

Е

F

Н

INFOID:0000000004639967

.....

. .

n-

Ν

0

2009 370Z

INFOID:0000000004461023

< DTC/CIRCUIT DIAGNOSIS >

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	LOCK : ON UNLOCK : OFF LOCK : OFF	: 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-28, "POWER WINDOW SUB-SWITCH: Diagnosis Procedure".

POWER WINDOW SUB-SWITCH: Diagnosis Procedure

INFOID:0000000004461024

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	sub-switch Terminal	(-)	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-93, "Removal and Installation".

NO >> GO TO 2.

2.CHECK POWER WINDOW SERIAL LINK SIGNAL

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

	+) ow sub-switch	(-)	Voltage (V)	
Connector	Terminal		(Approx.)	
D38	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-93, "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.

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

< DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between BCM connector and ground.

В	BCM Continuity		Continuity
Connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".

NO >> Repair or replace harness.

Α

В

С

D

Е

F

G

Н

1

J

PWC

L

M

Ν

0

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
ED WIDED LII	Other than front wiper switch HI	Off
FR WIPER HI	Front wiper switch HI	On
ED MIDED LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED WACHED CW	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 STOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN CIONAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
LU DEAM OW	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OWA	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COINO CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUE OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DD 500 0W	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
DOOR SW DR	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD OW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

Α

В

С

D

Е

F

Н

PWC

L

M

Ν

0

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed	Off
OOK SW-BK	Back door opened	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
DDL LOCK SW	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
JDL UNLOCK 3W	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
CLI CIL LK-OW	Driver door key cylinder LOCK position	On
(EY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL OIN-SW	Driver door key cylinder UNLOCK position	On
EY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
1474DD CW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: At 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
FR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
N/BD OPEN 3W	While the back door opener switch is turned ON	On
RNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DVE LOCK	LOCK button of the Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On
	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: The item is indicated, but not monitored.	Off
DIVE DANIO	PANIC button of the Intelligent Key is not pressed	Off
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On
N/E BAN 055:	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
	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
ODTION OFNICES	Bright outside of the vehicle	Close to 5 V
PTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
.=0 0.11 ==	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

Revision: 2009 December PWC-31 2009 370Z

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
DEO SW. DD/TD	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE:	Off
ACCINET 1/D	The item is indicated, but not monitored.	OII
CLUCH SW NOTE:	The clutch pedal is not depressed	Off
At A/T models this item is not monitored.	The clutch pedal is depressed	On
DDAKE OWA	Stop lamp switch 1 signal circuit is open	Off
BRAKE SW 1	Stop lamp switch 1 signal circuit 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
At M/T models with SynchroR- ev 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:	Selector lever in any position other than P and N (A/T models) Control lever in any position other than neutral position (M/T models with SynchroRev Match mode)	Off
At 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 (M/T models with SynchroRev Match mode)	On
0/1 1 0 0 1/2	Steering is unlocked	Off
S/L -LOCK	Steering is locked	On
0// 1// 00//	Steering is locked	Off
S/L -UNLOCK	Steering is unlocked	On
0/L DEL AV. 5/2	Ignition switch in OFF or ACC position	Off
S/L RELAY-F/B	Ignition switch in ON position	On
LINUIX OFN. DD	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
BUOLLOW :==::	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CET DN 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
DELE-INIET	Selector lever in P position	On
OCT NI MACT	Selector lever in any position other than N	Off
SFT N -MET	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
0/L L 0.01/LIDDM	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
0/1.110111/4/100044	Steering is locked	Off
S/L UNLK-IPDM	Steering is unlocked	On
	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
S/L RELAY-REQ	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedom eter reading
VEH SPEED 2	While driving	Equivalent to speedom eter reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
	Steering is locked	Reset
D OK FLAG	Steering is unlocked	Set
DDMT FNO 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
VEV 014 6: 6=	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	NOTE: The item is indicated, but not monitored.	_
CONFRMIR	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

Revision: 2009 December PWC-33 2009 370Z

F

Α

В

С

D

Е

0

Н

J

PWC

M

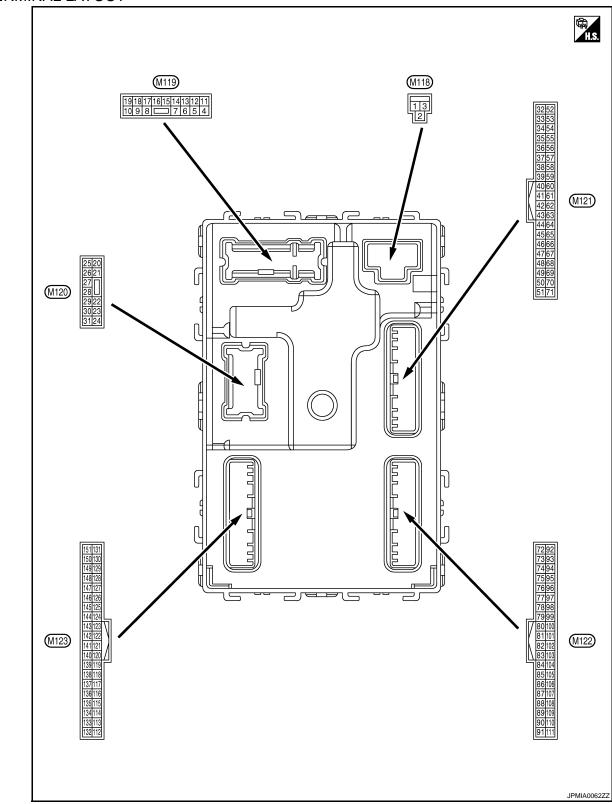
Ν

0

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM 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
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONTINUIDS	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
CONTINUID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONTINUE	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
154	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
IF J	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
IF Z	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
IF I	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 REGOTTET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT TRI	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 NET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

Α

В

С

D

Е

F

G

Н

J

PWC

M

Ν

0

< ECU DIAGNOSIS INFORMATION >

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

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V 0 V
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s
40		Doors lower times		Interior room	OFF	6.5 V 12 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
						6.5 V
23					OPEN (Back door opener actuator is activated)	12 V
(L)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
24* ¹	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
(O)		J I-	- 1	- GP	ON	12 V
					Turn signal switch OFF	0 V
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s
						6.5 V
30 (R)	Ground	Luggage room lamp	Output	Luggage room lamp	ON	0 V
(13)				iamp	OFF	12 V

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

	nal No.	Description			-	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
20				When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s
39 (W)	Ground	Rear bumper antenna (+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 10 1 s
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(V)	Ground	E/R) control	Output	ignition switch	ON	0 V
	52 (SB) Ground		Output	Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52				els)	When selector lever is not in P or N position	0 V
		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
					ON (Pressed)	0 V
61 (W)	Ground	Back door request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
				Late III and IZ	Sounding	1.0 V 0 V
64 (G)	Ground	Intelligent Key warn- ing buzzer	Output	Intelligent Key warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 10 ms JPMIA0011GB
						11.8 V
					ON (Door open)	0 V

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

	nal No. color)	Description	T		0 1111	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	^
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Ground	tenna (-)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	E
75		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s	G H
(BR)	Ground	tenna (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1 1 1 1 1 1 1 1 1 1	PV L
				When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
76 (V)	Ground	Driver door antenna (-)	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	O P

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
77	Ground	Driver door antenna	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(LG)		(+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
80 (GR)	Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the 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 communication	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(GR)				When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	Λ
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
			All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C		
87 (BR)	Ground	Combination switch INPUT 5	Input	put Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	E
					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	G H

PWC

J

M

Ν

0

Ρ

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

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(v)					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Ground	ACC relay control	Output	ignition switch	ACC or ON	12 V
96* ² (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	iliput	Steering lock	UNLOCK status	12 V
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Ground	tion No. 2	mput	Steering lock	UNLOCK status	0 V
		Selector lever P posi-		Calastanlaria	P position	0 V
99* ³		tion switch (A/T models)		Selector lever	Any position other than P	12 V
(R)*2 Ground (BR)*4	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
					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	igililion switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V
106	06 Steering lock unit		lanition assistate	OFF or ACC	12 V	
(W)	Ground	power supply	Output	Ignition switch	ON	0 V

	nal No.	Description				Value
(Wire	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
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
					Front wiper switch LO	(V) 15 10 5 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041G
108		Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038G
(R) Grou	Ground	INPUT 4	pat		Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA00360
					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 JPMIA00390

PWC

Α

В

С

D

Е

F

G

Н

M

Ν

0

P

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

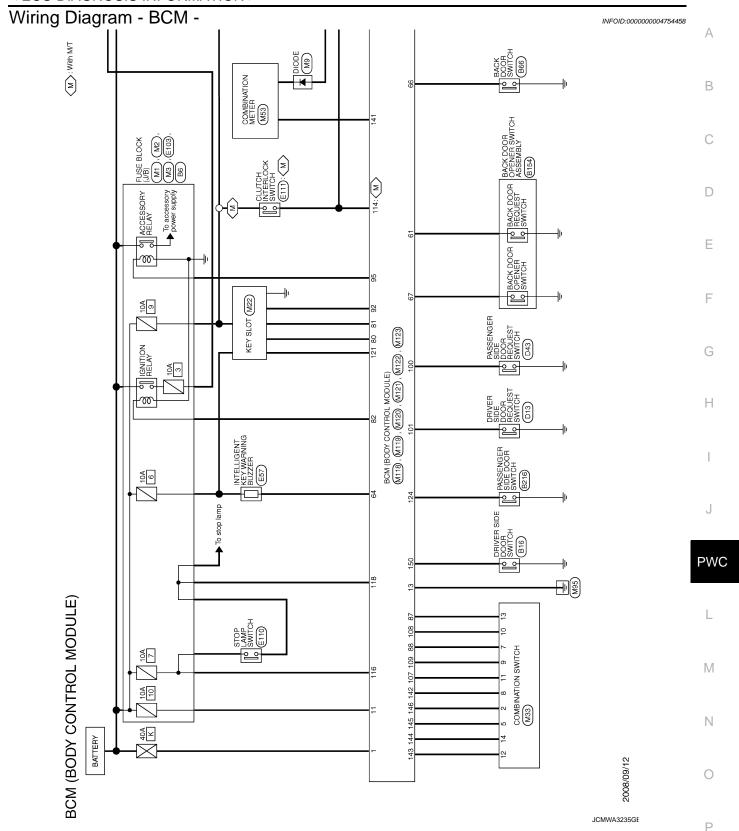
	nal No. color)	Description	1		0 155	Value
+	–	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111 (Y)	Ground	ound Steering lock unit communication Input/Output Steering lock		LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB	
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113	Ground	Ontical concer	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical sensor	Input	ŎN	When dark outside of the vehicle	Close to 0 V
114* ⁵	Ground	Clutch interlock	Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Giound	switch	прис	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)	Ground	σιορ ιαπιρ σνιτοπ 2	прис	switch	ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms
					UNLOCK status (Unlock switch sensor ON)	1.1 V 0 V
121	Ground	Key slot switch	Input	When the Intellig	gent Key is inserted into key	12 V
(R)	Cround	Toy Siot Switch	Прис	When the Intellique key slot	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)		2		3	ON	Battery voltage

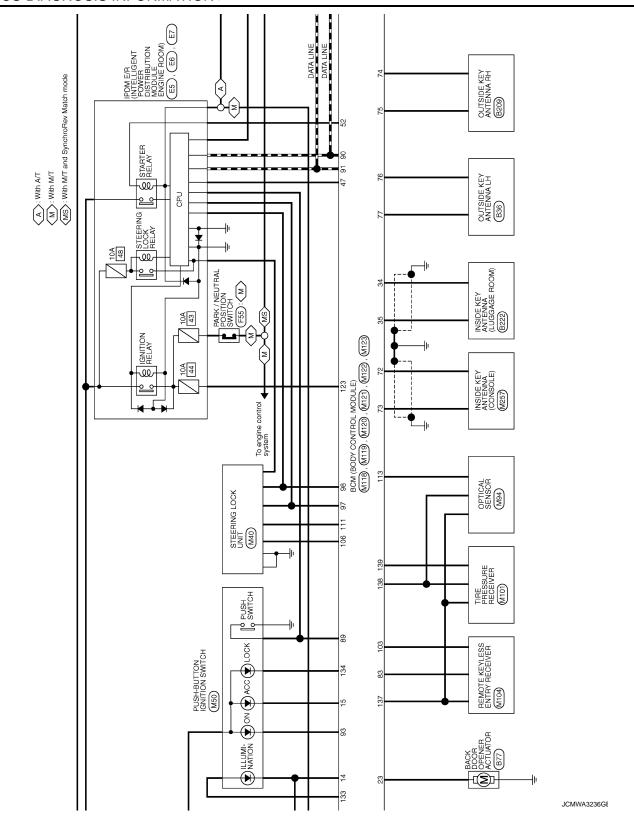
	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
130* ⁶ (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB
					Rear window defogger switch ON	0 V
132 (Y)	Ground	Power window switch communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
					ON (Tail lamps OFF)	9.5 V
133	Ground	d Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
(G)						10 0 JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF ON	Battery voltage 0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)	Citatia	power supply	Guiput	igindon switch	ACC or ON	5.0 V

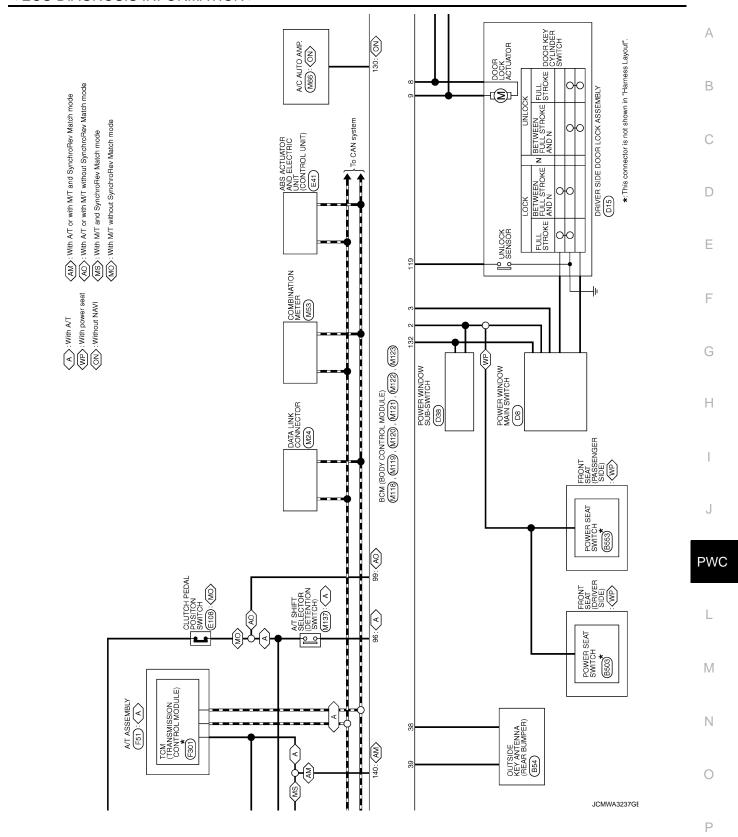
	nal No. color)	Description	_		Condition	Value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
139	Constant	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 • • 0.2s	
(L)	Ground	er communication	Output	ŌN	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Selector lever P/N			P or N position	12 V	
		position (A/T models)		Selector lever	Except P and N positions	0 V	
140* ⁷ (G)	Ground	Transmission range switch (M/T models	Input	Ignition switch	Control lever in neutral position	Battery voltage	
		with SynchroRev Match mode)		ON	Control lever in any position other than neutral	0 V	
					ON	0 V	
141 (Y)		Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 11.3 V	
					OFF	12 V	
					All switches OFF	0 V	
					Lighting switch 1ST		
				Combination	Lighting switch HI	(V) 15	
142 (O)	Ground	Combination switch OUTPUT 5	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms JPMIA0031GB	
					All switches OFF	10.7 V 0 V	
					(Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4)		
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB	

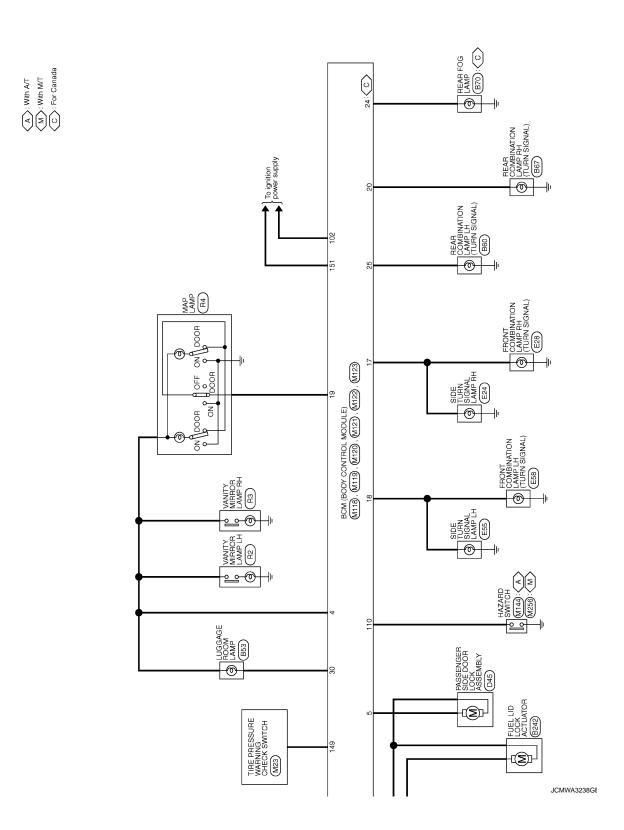
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
145	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10
(L)			·		Rear fog lamp switch ON	0
					All switches OFF	0 V
				Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	
		Combination switch OUTPUT 4			Lighting switch PASS	(V)
146 (SB)	Ground		Output		Turn signal switch LH	10 5 0 2 ms JPMIA0035GB
149 (W)	Ground	Tire pressure warning check switch	Input		_	12 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	Cround	ger relay control	Calput	defogger	Not activated	Battery voltage

- *1: For Canada
- *2: A/T models
- *3: Except M/T models with SynchroRev Match mode
- *4: M/T models without SynchroRev Match mode
- *5: M/T models
- *6: Without NAVI
- *7: Except M/T models without SynchroRev Match mode









< ECU DIAGNOSIS INFORMATION >

<u> </u>	bon] AR() T T T AR() UTPUT			A	
MIZO BOM (BODY CONTROL MODULE) NSIZEM-GS 20 21 22 23 24 25 26 27 28 29 30 31	Signal Name (Specification) Ture Stokal, ER (FE.AP) BACK DOOR OPEN OUTPUT FRAR STO GUITPUT TURN SIGNAL, IH (FE.AP) LUGGAGE ROOM LAMP OUTPUT			E	3
				C	` ,
Connector No. Connector Name Connector Type	Color Colo			С)
(F)	etion] ER SUPPLY K OUTPUT C OUTPUT OCK OUTPUT OCK OUTPUT T SIDE) TT. SIDE) SONT	3 TT SUPPLY PROPERTY RESURPLY PROPERTY RESURPLY PROPERTY MARCH MODEL	LETSW LETSW AY CONT WER SUPPLY PPLY 1	Е	=
MI19 BOM (BODY CONTROL MODULE) INSIGEW-CS 5 6 7	Signal Name (Specification) INTERIOR ROOM LAMP POWER SUPPLY PASSENGER DOOR UNLOCK OUTPUT ALL DOOR FUEL LID BLOCK OUTPUT DRIVER DOOR, FUEL LID BLOCK OUTPUT DRIVER DOOR, FUEL LID MILLOCK OUTPUT DRIVER DOOR, FUEL LID MILLOCK OUTPUT DRIVER SIGNAL HERONT SIDE) TURN SIGNAL HERONT SIDE) TURN SIGNAL HERONT SIDE) TURN SIGNAL HERONT SIDE) TOWN SIGNAL HERONT SIDE) TOWN SIGNAL HERONT SIDE)	COMBI SW INPUT 3 PUSH SW PUSH SW CAN-L CAN-L CAN-L CAN-L CAN-L CAN-L CAN-L SALC TELECTOR POWER S S.L CONDITION 1 S.L. CONDITION 1 S.L. CONDITION 1	SHIFT IN WITH AT THE PASSENGER DOOR REQUEST SW DRIVER DOOR REQUEST SW BLOWIE PARKE SEL UNIT POWER SURPLY COMBIS WIND THE COMBI	F	-
	Color of Wire B NITER O ALL O		R R R R R R R R R R R R R R R R R R R	G	ì
Connector No.	Terminal No. No. 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 88 88 88 80 80 80 80 80 80 80 80 80 8	99 100 101 103 103 108 108 110 110	F	1
(ODULE)	eofication] U ER SUPPLY(BAT) ER SUPPLY(RAP)	MODULE) 88 77 78 78 78 78 78 78 78 78 78 78 78 7	eerfication) ITT- ITT- ODR ANT- ODR ANT- ODR ANT- AND ANT- R ANT-	ı	
MOJEFILC MOJEFILC MOJEFILC	Signal Name (Specification) BAT (F/L) POWER WINDOW POWER SUPPLY(BAT) POWER WINDOW POWER SUPPLY(RAP)	Y CONTROL	Signal Name [Specification] ROOM ANT- PASSENGER DOOR ANT- PASSENGER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- IMMOBIL ANTENNA CONTRO- IGN RELAY (F.B.) CONTRO- IGN RELAY		J
ПаП	Octor of Wire	e e 888	Color of Wire	PV	٨
Connector No. Connector Name	Terminal No.	Connector No.	Terminal No. 72 72 73 74 74 74 74 77 77 77 88 82 82 82 82 83 83		
DDULE)	ation]	ULE)	ation] NIT- NIT- NIT+ T-	L	
SWITCH	Signal Name (Specification) OUTPUT 4 OUTPUT 3 INPUT 5 INPUT 1 INPUT 1 INPUT 1 INPUT 1 INPUT 1 INPUT 1 INPUT 5 OUTPUT 1 INPUT 5 OUTPUT 2	DNTROL MODUL	Signal Name [Speeification] LUGGAGE ROOM ANTT- LUGGAGE ROOM ANTT- LUGGAGE ROOM ANTT- BACK DOOR ANTT- BACK DOOR ANTT- IGN RELAY (RDM E.R) COUNT STAFFIER RELAY COUNT BACK DOOR OPENER REQUEST SW I-KEY WARN BUZZER (ENG ROOM) BACK DOOR OPENER SW BACK DOOR OPENER SW	V	/
ONTROL M33	Signal	No. M121 Name BCM (BODY CONTROL MODULE) Type ITHAFFGY-NH Signer of the sale	Signal LUG LUG LUG LUG RD BACK DOC 1-KEY WAL	N	J
W (BOC ector No. ector Name ector Type	Color Colo	ector No. ector Type	Color No. Color No. Color No. Color No. Color Colo)
Ogumo Como Commo C	Terminal No. 100 100 100 100 100 100 100 100 100 10	Commo	1 dermin No. 0, 34 derm	JCMWA3239GE	,
				_	

Revision: 2009 December PWC-57 2009 370Z

Connector Name	- MODULE)	134 GR LOCK IND	MODILIE) 137 P RECEIVER/SENSOR GND	138 V RECEIVER/SENSOR POWER SUPPLY	139 L TIRE PRESSURE RECEIVER COMM	140 G PASK/NEUTRAL POSITION SW DWth M/T and SynchroRev Match mode.	140 G SHIFT N/P [With A/T]	141 Y SECURITY INDICATOR	142 0 COMBI SW OUTPUT 5	143 P COMBI SW OUTPUT 1	39 138 138 138 138 138 138 139 139 139 139 139 139 139 139 139 139	145 L COMBI SW OUTPUT 3	146 SB COMBI SW OUTPUT 4	149 W TIRE PRESSURE WARN CHECK SW	150 GR DRIVER DOOR SW	OPTICAL SENSOR 151 G REAR WINDOW DEFOGGER RELAY CONT	CLUTCH INTERLOCK SW	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	REAR DEFOGGER SW	
Sor Type Sor Type	OY CONTROL	M123	COTINGO VOCA) MOA	ON INOS LOSS MOS	TH40FG-NH				<u> </u>	8 127 126 125 124 123 122 121 120 1	8 147 146 145 144 143 142 141 140 1			Nimel Name	Olgilai Maille	OPTICAL	NI HOLDO	☐ dots	J GOTS	NU ROOD RUN	KEY S	NDI IBN	PASSENGE	REAR DEF	THE CONTRACTOR CLINES
	Š	ۏؚ		Marine	· Type					131 130 129 12	151 150 149 14			ᆫ	of Wire	0	œ	SB	Ь	SB	۳	Μ	PT	٦	,

JCMWA3240GE

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

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

Revision: 2009 December **PWC-59** 2009 370Z

< ECU DIAGNOSIS INFORMATION >

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

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow ON and front wiper switch is INT position, BCM operates a fail-safe control.

< ECU DIAGNOSIS INFORMATION >

DTC Inspection Priority Chart

INFOID:0000000004754460

Α

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

Priority	DTC	В
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	С
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	D
	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STAPTER CONTRELAY 	F
	 B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS 	G
	 B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY 	Н
4	B2608: STARTER RELAY B2609: S/L STATUS B260A: IGNITION RELAY PROCEDUCTION OF CONTINUE	I
4	 B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST 	J
	 B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC 	PWC
	B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW	L
	B261E: VEHICLE TYPEB26E8: CLUTCH SWB26E9: S/L STATUS	М
	 B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	N

0

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
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] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] FR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RR
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

DTC Index

NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-17, "COM-MON ITEM":</u>

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-38
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2013: ID DISCORD BCM-S/L	×	×	_	_	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	_	_	SEC-51
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	<u>SEC-54</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page	А
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-56	В
B2557: VEHICLE SPEED	×	×	×	_	SEC-58	
B2560: STARTER CONT RELAY	×	×	×	_	SEC-59	
B2562: LOW VOLTAGE	_	×	_	_	BCS-41	С
B2601: SHIFT POSITION	×	×	×	_	SEC-60	
B2602: SHIFT POSITION	×	×	×	_	SEC-63	D
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-66	
B2604: PNP SW	×	×	×	_	SEC-69	
B2605: PNP SW	×	×	×	_	SEC-71	Е
B2606: S/L RELAY	×	×	×	_	SEC-73	
B2607: S/L RELAY	×	×	×	_	SEC-74	F
B2608: STARTER RELAY	×	×	×	_	SEC-76	Г
B2609: S/L STATUS	X	×	×	_	<u>SEC-78</u>	
B260A: IGNITION RELAY	X	×	×	_	PCS-50	G
B260B: STEERING LOCK UNIT	_	×	×	_	<u>SEC-82</u>	
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-83	
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-84	Н
3260F: ENG STATE SIG LOST	×	×	×	_	SEC-85	
B2612: S/L STATUS	×	×	×	_	SEC-90	
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52	
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55	
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58	J
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-94	
B2618: BCM	×	×	×	_	PCS-61	PW
B2619: BCM	×	×	×	_	SEC-96	
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-62	
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-97	L
B2622: INSIDE ANTENNA	_	×	_	_	DLK-55	
32623: INSIDE ANTENNA	_	×	_	_	<u>DLK-57</u>	M
326E8: CLUTCH SW	×	×	×	_	SEC-86	
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-88</u>	Ν
326EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-89	0
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT 4C	
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-16</u>	Р
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	MIT 40	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-18</u>	
C1711: [NO DATA] RL	_	_	_	×		

PWC-63 2009 370Z Revision: 2009 December

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page	
C1712: [CHECKSUM ERR] FL	_	_	_	×		
C1713: [CHECKSUM ERR] FR	_	_	_	×	VA/T 04	
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u>WT-21</u>	
C1715: [CHECKSUM ERR] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	MT 24	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-24</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1720: [CODE ERR] FL	_	_	_	×		
C1721: [CODE ERR] FR	_	_	_	×	WT-26	
C1722: [CODE ERR] RR	_	_	_	×	<u>VV 1-20</u>	
C1723: [CODE ERR] RL	_	_	_	×		
C1724: [BATT VOLT LOW] FL	_	_	_	×		
C1725: [BATT VOLT LOW] FR	_	_	_	×	WT 20	
C1726: [BATT VOLT LOW] RR	_	_	_	×	<u>WT-29</u>	
C1727: [BATT VOLT LOW] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-32	
C1734: CONTROL UNIT	_	_	_	×	<u>WT-34</u>	

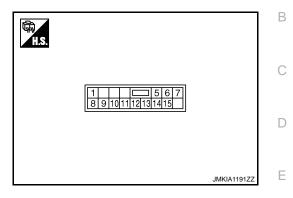
< ECU DIAGNOSIS INFORMATION >

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT

PHYSICAL VALUES



POWER WINDOW MAIN SWITCH

Terminal No. (Wire color)		Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	_	Battery voltage	
5 (O)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window adjusting operates	Battery voltage	
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	Battery voltage	
9 (LG)	Ground	Encoder pulse signal 2	Input	When power window motor operates	(V) 6 4 2 0 10 ms	
10	Ground	Ignition switch power signal	Input	IGN SW ON	Battery voltage	
(Y)	Giodila	Ignition switch power signal	IIIput	IGN SW OFF	0	
11 (BR)	Ground	Driver side power window motor DOWN signal	Output	When power window main switch (Driver side) is operated DOWN	Battery voltage	
12 (SB)	Ground	Power window serial link	Input/ Output	Ignition switch ON	(V) 15 10 5 10 10 ms JPMIA0013GB	

PWC

Α

F

G

Н

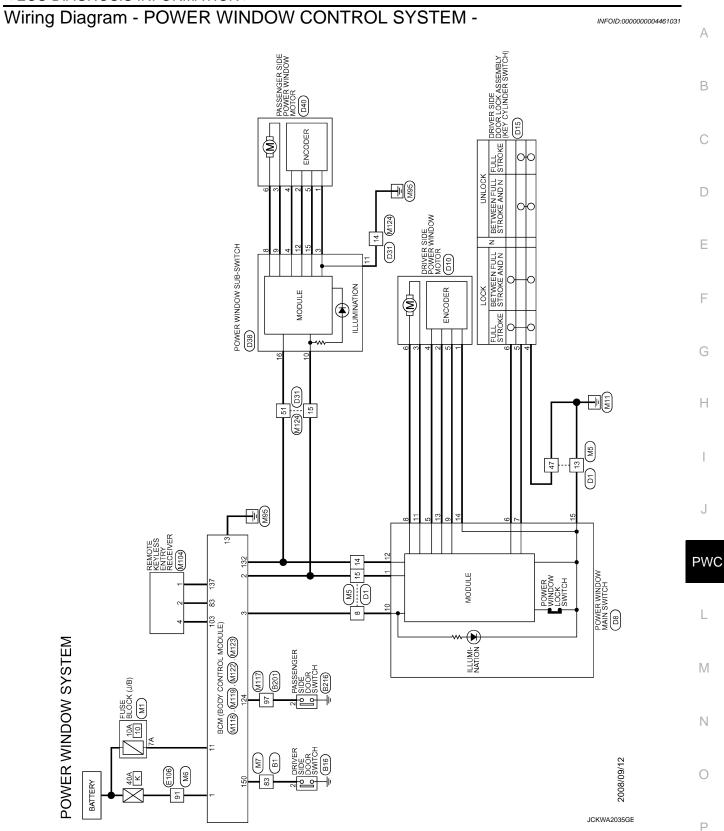
M

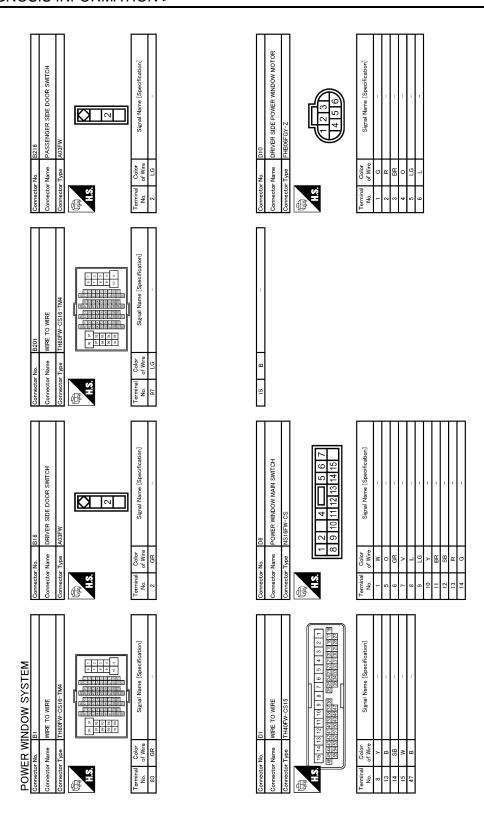
Ν

0

Р

	inal No. e color)	Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Conducti	(Approx.)	
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	

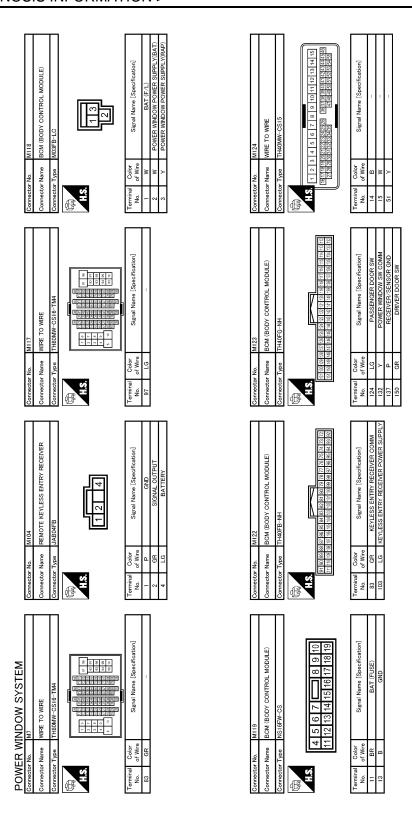




JCKWA2036GE

Connector No. D40 Connector Name PASSENGER SIDE POWER WINDOW MOTOR Connector Type FHB06FGV-2 M.S. 123 123 145	Terminal Color Signal Name [Specification] 1	Connector No. M6 Connector Name WIRE TO WIRE Connector Type TH-BOMW-CS16-TM4 TH-BOMW-CS16-TM4 Terminal Color Color Signal Name [Specification] 91 W Signal Name [Specification]	A B C
Commetter No. D38 Commetter Name POWER WINDOW SUB-SWITCH Commetter Type NSIEFW-CS LAST 1 2 3 4	Terminal Color No. of Wire Signal Name [Specification] 1	Connector No. M5 Connector No. M6 Connector Name WIRE Connector Name WIRE Connector Type TH40MW-CS15 Connector Type TH40MW-CS15 Connector Type Th40MW-CS15 Connector Type Th40MW-CS15 Th40MW-CS1	E F G
Connector No. D31 Connector Type TH40FW-CS15 H.S. 151 141 21 171 101 91 81 72 11 REGISTER SEATOR	Terminal Color Signal Name Specification	Connector Name FUSE BLOCK (J/B) Connector Type NISOBFW-M2 H.S. 3A Terminal Color Signal Name [Specification] Terminal of Wire Signal Name [Specification]	J PWC
POWER WINDOW SYSTEM Connector No. D15 Connector Name PRIVER SIDE DOOR LOOK ASSEMBLY Connector Type EDEFOY-RS TAS TAS TAS TAS TAS TAS TAS T	Terminal Color Signal Name Specification No. of Wire Signal Name Specification	Connector No. E106 Connector Name WIPE TO WIPE Connector Type TH80FW-CS16-TM4 LS. Rennell TH80FW-CS16-TM4 LS. Rennell TH80FW-CS16-TM4 Signal Name [Specification]	M N
		JCKWA2037GE	Р

Revision: 2009 December PWC-69 2009 370Z



JCKWA2038GE

INFOID:0000000004461032

FAIL-SAFE CONTROL

Fail-Safe

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

< ECU DIAGNOSIS INFORMATION >

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

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

- 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.

PWC

J

Α

В

D

Е

F

Н

Ν

0

Р

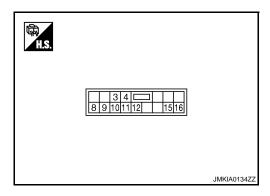
POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SUB-SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
3 (G)	Ground	Encoder ground	_	_	0	
4 (O)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window operates adjusting	Battery voltage	
8 (L)	Ground	Power window motor UP signal	Output	When power window motor is operated UP	Battery voltage	
9 (BR)	Ground	Power window motor DOWN signal	Output	When power window motor is operated DOWN	Battery voltage	
10 (W)	Ground	Battery power supply	Input	_	Battery voltage	
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	

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire 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	

PWC

Α

В

С

D

Е

F

G

Н

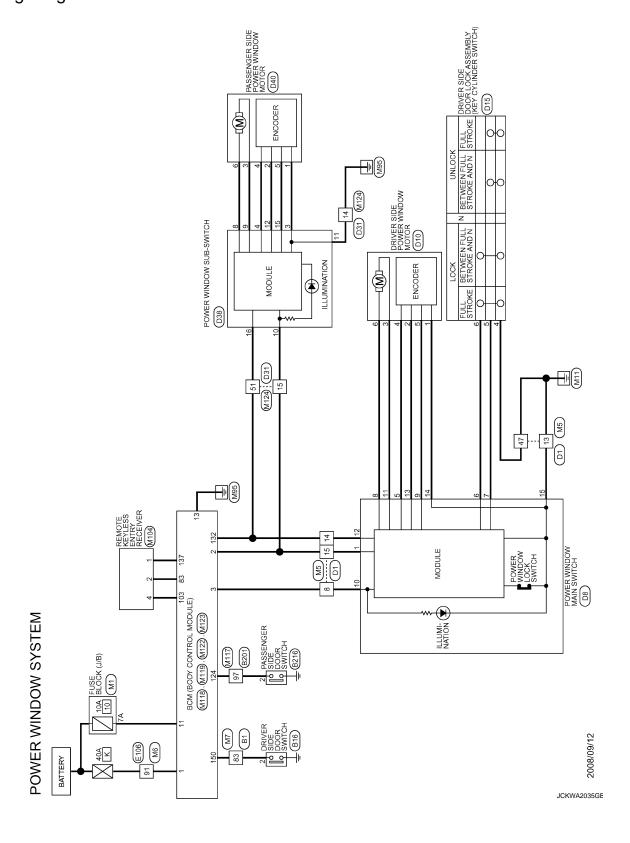
 \mathbb{N}

Ν

0

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

INFOID:0000000004461034



POWER WINDOW SUB-SWITCH

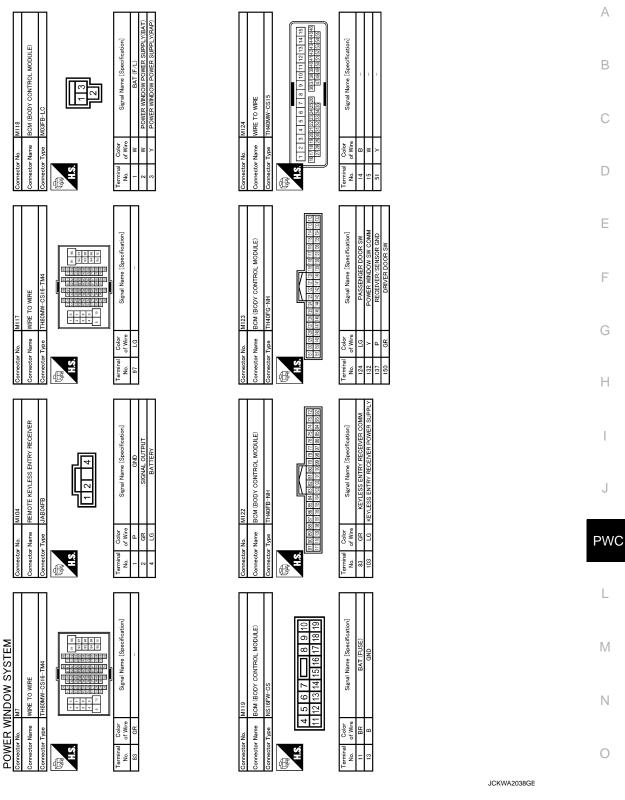
No.
wire To Wife THEOPY-CS16-TM4 THEOPY-CS16-TM4
B B B201
G e e e e e e e e e e e e e e e e e e e
Connector No. Connector Type No. 97 LG B H.S. H.S. H.S. H.S. H.S. H.S. H.S. H
Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]
DB DB Signal Name Specifical Specifical Signal Name Specifical Specifical Signal Name Specifical Specifical Signal Name Specifical Spec
Connector No. B Connector No. B Connector No. Connector No. Connector No. Connector No. Connector No. Connector Name Connector Name Connector Name Connector Name Connector No. Color No. Colo
Name
Connector Name Color Connector Name Color Co
Connector No. Connector No. Connector Name Connec
JCKWA2036GE

Revision: 2009 December PWC-75 2009 370Z

POWER WINDOW SUB-SWITCH

Connector No. D40 Connector Name PASSENGER SIDE POWER WINDOW MOTOR Connector Type FHEDWGY-Z H.S.	Terminal Color Signal Name Specification No. of Wire Signal Name Specification	Connector No. M6 Connector Type TH80MW-CS16-TM4 Terminal Color Signal Name [Specification]
Connector No. D38 Connector Type NS16FW-CS M.S.	Terminal Color Signal Name [Specification]	Connector No M5 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE WIRE TO WIRE TO WIRE WIRE TO WIRE TO WIRE WIRE TO WIRE TO WIRE WIRE TO
Connector Name WIRE TO WIRE Connector Type TH40FW-CS15 MAS 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1	Terminal Color No. of Wire Signal Name [Specification] 14 B -	Connector Name FUSE BLOCK (J/B)
POWER WINDOW SYSTEM Connector No. 015 Connector Name DRIVER SIDE DOOR LOCK ASSEMBLY Connector Type E067GY-RS LLS (123456)	Terminal Color Signal Name Specification Color No. of Wire Specification Color Color	Connector No. E106 Connector Name WIRE TO WIRE H.S. I High W. CS16-TM4 H.S. I High W. CS16-TM4 I H.S. I High W. CS16-TM4 Signal Name [Specification] Of Wive

JCKWA2037GE



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

< ECU DIAGNOSIS INFORMATION >

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

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

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

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

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCH-

< SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW **SWITCHES** В Description INFOID:0000000004471838 All power windows do not operate via power window main switch and power window sub-switch. Diagnosis Procedure INFOID:0000000004461036 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT D Check BCM power supply and ground circuit. Refer to PWC-14, "BCM: Diagnosis Procedure". Е Is the inspection result normal? >> GO TO 2. YES 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-39, "Intermittent Incident". NO >> GO TO 1. Н

PWC

J

F

M

Ν

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description INFOID:000000004471840

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

Diagnosis Procedure

INFOID:0000000004461037

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

Check power window main switch power supply and ground circuit.

Refer to PWC-14, "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-17, "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-39, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE
WHEN POWER WINDOW MAIN SWITCH IS OPERATED
WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Description INFOID:000000004471847
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
1. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT
Check power window sub-switch power supply and ground circuit. Refer to PWC-15 , "POWER WINDOW SUB-SWITCH: Diagnosis Procedure". Is the inspection result normal?
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.
2.CHECK POWER WINDOW SUB-SWITCH SERIAL LINK CIRCUIT
Check power window sub-switch serial link circuit. Refer to PWC-27, "POWER WINDOW SUB-SWITCH: 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-39, "Intermittent Incident".
NO >> GO TO 1. WHEN POWER WINDOW SUB-SWITCH IS OPERATED
WHEN POWER WINDOW SUB-SWITCH IS OPERATED: Description INFOID:000000004471846
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
1. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY AND GROUND CIRCUIT
Check power window sub-switch power supply and ground circuit. Refer to PWC-15, "POWER WINDOW SUB-SWITCH: 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-39, "Intermittent Incident".
NO >> GO TO 1. WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-
SWITCH

Revision: 2009 December PWC-81 2009 370Z

WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SWITCH: Description

NFOID:0000000004471848

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:0000000004471850

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to PWC-18, "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-39, "Intermittent Incident".

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
ANTI-PINCH FUNCTION DOES NOT OPERATE	F
DRIVER SIDE	
DRIVER SIDE: Description	Е
Anti-pinch function does not operate when power window up operated.	
DRIVER SIDE : Diagnosis Procedure	(
1. CHECK AUTO UP OPERATION	
Check AUTO UP operation.	
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to <u>PWC-84</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-39, "Intermittent Incident".	
NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE: Description	-
Anit-pinch function does not operate when power window up operated.	
PASSENGER SIDE : Diagnosis Procedure	ļ
1. CHECK AUTO UP OPERATION	
Check AUTO UP operation.	
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to PWC-84, "PASSENGER SIDE : Diagnosis Procedure".	P۱
2.CONFIRM THE OPERATION	
Confirm the operation again. <u>Is the result normal?</u>	L
YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".	
NO >> GO TO 1.	N
	_
	1

PWC-83 Revision: 2009 December 2009 370Z

 \bigcirc

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004461040

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to PWC-21, "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-39, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004461041

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NOR-MALLY

< SYMPTOM DIAGNOSIS >	
POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY	А
Description INFOID:000000004478548	В
Retained power function does not operate after ignition switch turns OFF.	
Diagnosis Procedure	С
1.check door switch	
Check door switch. Refer to <u>DLK-60, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	Е
2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal?	F
YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident". NO >> GO TO 1.	G
	Н
	I
	J
	PW(
	L
	M
	N

PWC-85 2009 370Z Revision: 2009 December

 \bigcirc

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Description INFOID:000000004478549

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

Diagnosis Procedure

INFOID:0000000004476281

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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

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

Refer to DLK-70, "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-39, "Intermittent Incident".

NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
KEYLESS POWER WINDOW DOWN DOES NOT OPERATE	А
Description	000000004478550
Power window down does not operate when pressing unlock button on Intelligent Key.	В
Diagnosis Procedure	000000004476282
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	С
Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-164, "Description".	D
2.CHECK POWER WINDOW OPERATION	Е
Check power window operation.	
Does power window operate up/down using power window main switch? YES >> GO TO 3. NO >> Refer to DLK-164, "Diagnosis Procedure".	F
3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"	
Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-49 , "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".	G
Is the inspection result normal? YES >> GO TO 4.	Н
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-39, "Intermittent Incident". NO >> GO TO 1.	J
	PWC
	L

 \mathbb{N}

Ν

 \bigcirc

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000004461042

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-93, "Removal and Installation".

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

TE FOID:000000004461043
(
ı
FOID:00000000004461044
I
I
(
I
P
Ŋ
1

Revision: 2009 December PWC-89 2009 370Z

 \bigcirc

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004461045

1. CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to PWC-84, "DRIVER SIDE : Diagnosis Procedure".

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-60, "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-26, "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-39, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004461046

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-60, "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-27, "POWER WINDOW SUB-SWITCH: Component Function Check"

Is the result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

Revision: 2009 December **PWC-90** 2009 370Z

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

С

В

D

Е

F

G

Н

-

J

PWC

L

M

Ν

0

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s)
 with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly
 causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

INFOID:0000000004757265

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

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

REMOVAL

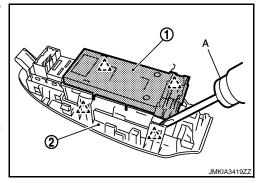
- 1. Remove the power window main switch finisher (2). Refer to INT-12, "Removal and Installation".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-bladed screw driver (A) etc.



CAUTION:

Never fold the pawl of power window main switch finisher. 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-6, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

PWC

Α

В

D

Е

F

Н

INFOID:0000000004461050

Ν

C