

SECTION **PWC**

POWER WINDOW CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000011488763

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurred) as possible when the customer brings the vehicle in.

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

Check that the malfunction is not reproduced, 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:000000011488764

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

If any of the following operations are performed, the initialization is necessary as well as when the battery negative terminal is disconnected. Refer to [PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

1. Initial connection or reconnection of battery terminal.
2. Removal and installation of power window regulator.
3. Removal and installation of power window motor.
4. When the power supply to power window switches and motor shuts off for any reason while power window is being operated.
5. Fuse blowout and replacement of fuse for the power window power supply.
6. Removal and installation of door glass or adjustment of door glass.

CAUTION:

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

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000011488765

INITIALIZATION PROCEDURE

CAUTION:

If the initialization is not complete, UP does not operate while door is open.

1. Disconnect the battery negative terminal or power window motor connector, and then reconnect.
2. Door close (door switch OFF).
3. Turn ignition switch ON.
4. Operate power window switch to open the glass halfway or more. (This operation is not necessary if the glass is already open halfway or more)
5. Continue pulling power window switch UP (AUTO UP operation). Even after the glass stops at the fully open position, continue pulling the switch for 3 seconds or more.
6. Check anti-pinch function.

NOTE:

The work procedures for driver seat and passenger seat are the same.

CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
 2. Place a piece of wood near the fully closed position.
 3. Close door glass completely using AUTO UP.
- Check that glass starts to lower without pinching the piece of wood, lowers approximately 150 mm, and then stops. When the piece of wood is 60 mm thick or more, glass may lower approximately 100 mm and then stop.
 - Check that glass does not rise when operating the power window main switch while lowering.

CAUTION:

- Never check with hands or other body parts because they may be pinched. Never get pinched.
- Check that AUTO UP operation before inspection during 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-79, "Fail-Safe"](#)
- Perform initial setting when AUTO UP operation or anti-pinch function does not operate normally.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

• **Finish initial setting. Otherwise, the next operation cannot be done.**

1. **AUTO UP operation**
2. **Anti-pinch function**
3. **Automatic window adjusting function**
4. **Retained power operation**

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MOTOR

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MOTOR : Description

INFOID:000000011488766

When the control unit is replaced, initialization is necessary.

If any of the following operations are performed, the initialization is necessary as well as when the control unit is disconnected. Refer to [PWC-6. "ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MOTOR : Special Repair Requirement"](#).

1. Initial connection or reconnection of battery terminal.
2. Removal and installation of power window regulator.
3. Removal and installation of power window motor.
4. When the power supply to power window switches and motor shuts off for any reason while power window is being operated.
5. Fuse blowout and replacement of fuse for the power window power supply.
6. Removal and installation of door glass or adjustment of door glass.

CAUTION:

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

- **AUTO UP operation**
- **Anti-pinch function**
- **Automatic window adjusting function**
- **Retained power operation**

ADDITIONAL SERVICE WHEN REPLACING POWER WINDOW MOTOR : Special Repair Requirement

INFOID:000000011488767

INITIALIZATION PROCEDURE

CAUTION:

If the initialization is not complete, UP does not operate while door is open.

1. Disconnect the battery negative terminal or power window motor connector, and then reconnect.
2. Door close (door switch OFF).
3. Turn ignition switch ON.
4. Operate power window switch to open the glass halfway or more. (This operation is not necessary if the glass is already open halfway or more)
5. Continue pulling power window switch UP (AUTO UP operation). Even after the glass stops at the fully open position, continue pulling the switch for 3 seconds or more.
6. Check anti-pinch function.

NOTE:

The work procedures for driver seat and passenger seat are the same.

CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
 2. Place a piece of wood near the fully closed position.
 3. Close door glass completely using AUTO UP.
- Check that glass starts to lower without pinching the piece of wood, lowers approximately 150 mm, and then stops. When the piece of wood is 60 mm thick or more, glass may lower approximately 100 mm and then stop.
 - Check that glass does not rise when operating the power window main switch while lowering.

CAUTION:

- **Never check with hands or other body parts because they may be pinched. Never get pinched.**
- **Check that AUTO UP operation before inspection during system initialization is performed.**

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to [PWC-79, "Fail-Safe"](#)
 - Perform initial setting when AUTO UP operation or anti-pinch function does not operate normally.
 - Finish initial setting. Otherwise, the next operation cannot be done.
1. AUTO UP operation
 2. Anti-pinch function
 3. Automatic window adjusting function
 4. Retained power operation

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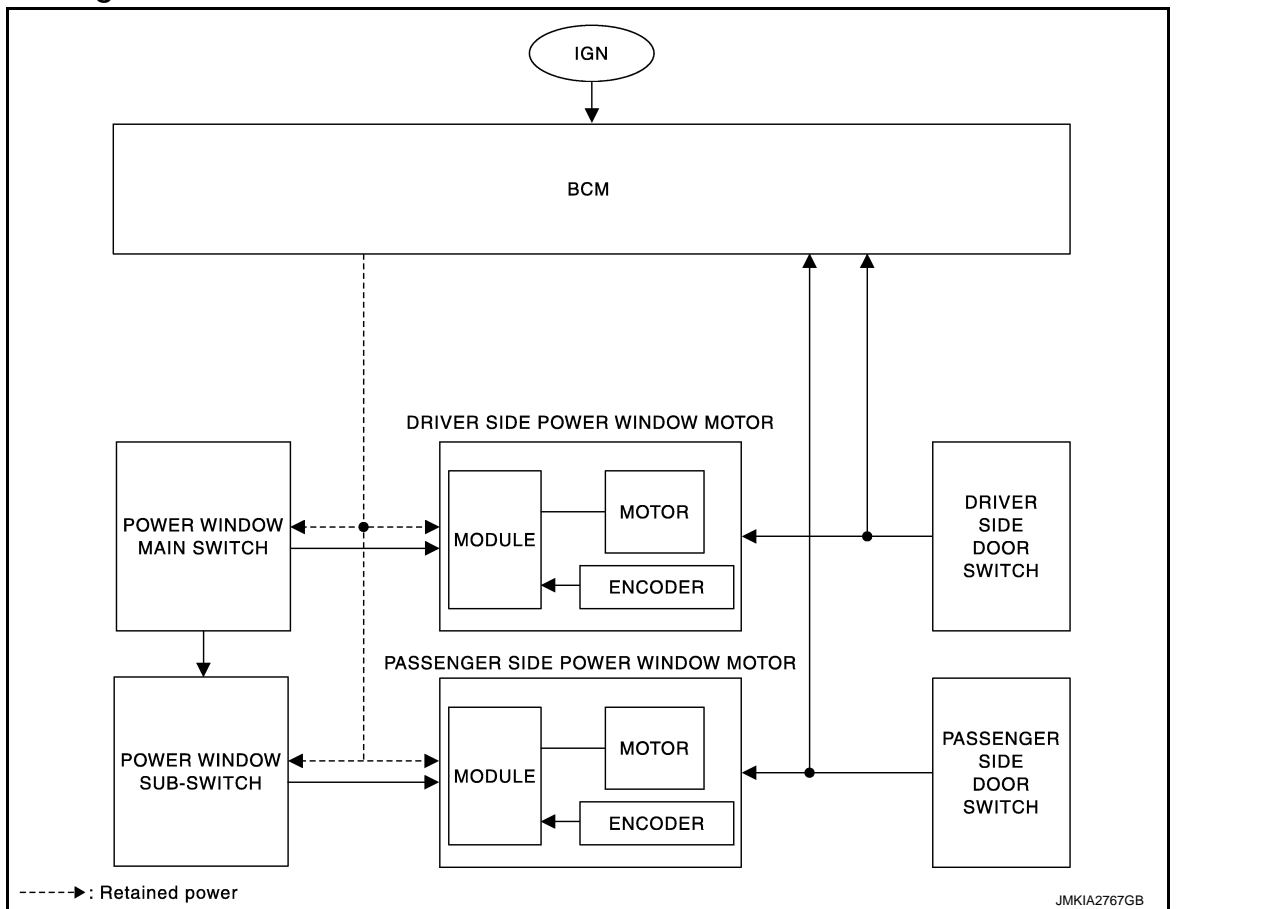
POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:000000011488769

POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON to OFF.
- Power window main switch can open/close all windows.
- Power window sub-switch can open/close the passenger side windows.

POWER WINDOW AUTO-OPERATION

- When each switch of power window main switch or assistant seat power window switch is operated to the Auto position, power window motor is activated in the AUTO UP or DOWN operation.
- When the glass is in the fully open or close position, module in power window motor detects the encoder signal change and deactivates the AUTO UP or DOWN operation.
- Even if the encoder is malfunctioning, power window motor can be activated. (Except in AUTO operation.)

RETAINED POWER OPERATION

BCM controls power window for approximately 45 seconds after ignition switch turns OFF. (In a position other than ON)

Retained power function cancel conditions

When BCM detects the following signal it cancels.

1. When any door is open.
2. When ignition switch turns ON again.
3. When timer time passes. (Approximately 45 seconds)

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

NOTE:

If the system initialization is not complete, the retained power operation does not operate.

POWER WINDOW LOCK FUNCTION

When power window lock switch turns ON, assistant seat power window switch circuit in power window main switch shuts OFF and assistant seat power window switch is deactivated.

ANTI-PINCH FUNCTION

Module in driver seat and assistant seat power window motor detects and controls front door glass operation via encoder signal 1 and encoder signal 2. While door glass is moving upward in AUTO UP or retained power operation, when front door glass receives a load of the specified value or more, the module detects the encoder signal change, stops power window motor AUTO UP operation, sends DOWN signal, and lowers the front door glass for the specified value (approximately 150 mm).

OPERATION CONDITION

- When front door glass is between fully the open position and the position just before fully closed. When front door glass is not fully closed.
- When front door glass is moving upward in the AUTO UP operation.
- When front door glass is moving upward in ignition switch position except ON (timer operation).

NOTE:

Anti-pinch function may be activated when a load or impact similar to pinching is applied on front door glass by surrounding conditions or driving conditions.

AUTOMATIC WINDOW ADJUSTING FUNCTION

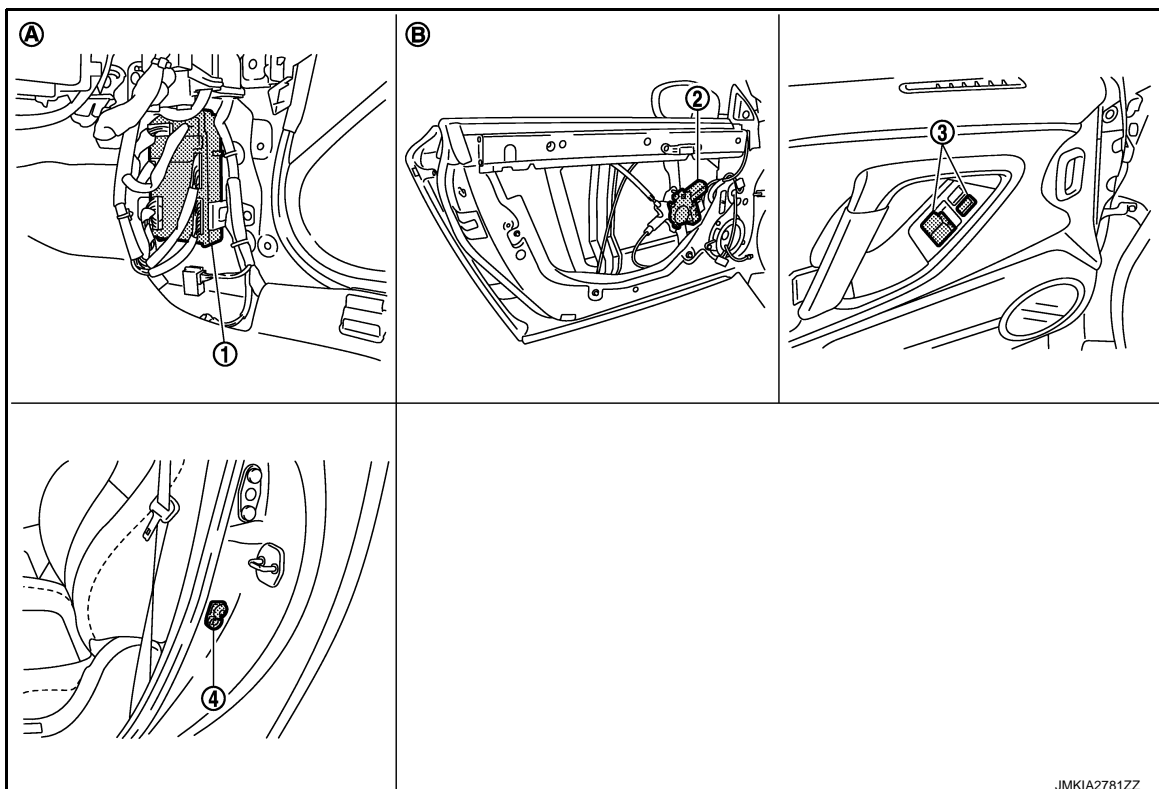
- When driver seat door or assistant seat door is open, the door glass of opened door lowers approximately 15 mm from the fully closed position. After the door is closed, it raises the door glass to the fully closed position. This improves the operability for door open or close, and the sealing ability of door glass.
- Even if power window is in the lock position, the automatic window adjusting function operates.
- The open or closed door position is judged by the door switch position that is ON or OFF.

No operating conditions

- When the automatic window adjusting function starts to lower the door glass, the door glass is already open the specified value (approximately 15 mm) or more from the fully closed position.
- When the automatic window adjusting function is lowering the door glass, the door is closed.

Component Parts Location

INFOID:000000011488770



JMKIA2781ZZ

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|-------------------------------------|---------------------------------------|--------------------------------|
| 1. BCM M118, M119, M123 | 2. Driver side power window motor D10 | 3. Power window main switch D8 |
| 4. Driver side door switch B21 | | |
| A. Dash side lower (passenger side) | B. View with door finisher removed | |

Component Description

INFOID:000000011488771

Component	Function
BCM	<ul style="list-style-type: none"> Supplies the power to power window main switch and power window sub-switch Supplies power to driver side and passenger side power window motor Controls retained power
Power window main switch	<ul style="list-style-type: none"> Outputs the UP or DOWN signal to driver side and passenger side power window motor Power window lock switch is equipped, and when the button is pressed (LOCK), deactivates the assistant seat power window operation
Power window sub-switch	Outputs the UP or DOWN signal to passenger side power window motor
Driver side power window motor	<ul style="list-style-type: none"> Operates by UP or DOWN signal from power window main switch Encoder: Detects power window motor speed by 2 pulse signals Module: Controls the anti-pitch, Auto operation, and automatic window adjusting functions by the pulse signal from encoder
Passenger side power window motor	<ul style="list-style-type: none"> Operates by UP or DOWN signal from power window main switch or assistant seat power window switch Encoder: Detects power window motor speed by 2 pulse signals Module: Controls the anti-pitch and automatic window adjusting functions by the pulse signal from encoder
Door switch	Detects the driver side and passenger side doors open or closed condition

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011798476

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		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	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

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

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	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected	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 shift lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode
	LOCK		Power supply position is "LOCK" (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	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 3...38 → 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 Function (BCM - RETAINED PWR)

INFOID:0000000011488773

Data monitor

NOTE:

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

Monitor Item	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:000000011798475

1.CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	I
	10

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

POWER WINDOW MOTOR

POWER WINDOW MOTOR : Diagnosis Procedure

INFOID:000000011488775

1.CHECK POWER WINDOW MOTOR POWER SUPPLY

Check voltage between power window motor harness connector and ground.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window motor					
Connector	Terminal				
D10/D40*	7	Ground	Ignition switch	OFF	Battery voltage
	2			ON	
				Other than the ON (Timer is activated)	
	Timer is not activated			0	

*: Passenger side

Is the inspection result normal?

YES >> Power window motor power supply is OK.

NO >> GO TO 2.

2.CHECK POWER WINDOW MOTOR POWER SUPPLY CIRCUIT

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

BCM		Power window motor		Continuity
Connector	Terminal	Connector	Terminal	
M118	2	D10/40*	7	Existed
	3		2	

*: Passenger side

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M118	2		Not existed
	3		

*: Passenger side

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-89. "Removal and Installation"](#).

NO >> Repair or replace harness.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000011488776

1.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY

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

(+)		(-)	Voltage (V) (Approx.)
Power window main switch			
Connector	Terminal		
D8	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Power window main switch power supply is OK.

NO >> GO TO 2.

2.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M118	3	D8	2	Existed

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M118	3		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-89, "Removal and Installation"](#).
 NO >> Repair or replace harness.

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POWER WINDOW MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MAIN SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000011488777

Outputs UP or DOWN signal to driver side power motor.

DRIVER SIDE : Component Function Check

INFOID:000000011488778

1. CHECK FUNCTION

Check that driver side power window operates when power window main switch for driver side is operated to the UP or DOWN position.

Is the inspection result normal?

- YES >> Power window main switch (driver side) function is OK.
- NO >> Refer to [PWC-16, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000011488779

1. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
D8	10	Ground	UP	Battery voltage
	11		Other than above	0
			DOWN	Battery voltage
	Other than above		0	

Is the inspection result normal?

- YES >> Power window main switch (driver side) function is OK.
- NO >> GO TO 2.

2. CHECK POWER WINDOW MAIN SWITCH (DRIVER SIDE)

Check power window main switch (driver side). Refer to [PWC-16, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000011488780

1. CHECK POWER WINDOW MAIN SWITCH (DRIVER SIDE)

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

POWER WINDOW MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition	Continuity	
Power window main switch					
Connector	Terminal				
D8	3	2	Driver side switch	AUTO	Existed
				Other than above	Not existed
	10			UP	Existed
				Other than above	Not existed
	11			DOWN	Existed
				Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011488781

- Sends UP or DOWN signal to passenger side power window motor.
- Power window lock switch is equipped, and when the button is operated (LOCK), it deactivates the passenger side power window operation.

PASSENGER SIDE : Component Function Check

INFOID:0000000011488782

1.CHECK FUNCTION

Check that passenger side power window operates when power window main switch for passenger side (power window lock switch is UNLOCK) is operated to the UP or DOWN position.

Is the inspection result normal?

YES >> Power window main switch (passenger side) function is OK.

NO >> Refer to [PWC-17, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011488783

1.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Power window lock switch UNLOCK.
3. Check voltage between power window main switch harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window main switch					
Connector	Terminal				
D8	7	Ground	Passenger side switch	UP	Battery voltage
				Other than above	0
	15			DOWN	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 5.

2.CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

POWER WINDOW MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window sub-switch					
Connector	Terminal				
D38	15	Ground	Power window main switch (passenger side)	UP	Battery voltage
	16		Other than above	0	
			DOWN	Battery voltage	
	Other than above		0		

Is the inspection result normal?

YES >> Power window main switch (passenger side) function is OK.

NO >> GO TO 3.

3.CHECK POWER WINDOW SUB-SWITCH INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window sub-switch					
Connector	Terminal				
D38	6	Ground	Power window main switch (passenger side)	UP	Battery voltage
	7		Other than above	0	
			DOWN	Battery voltage	
	Other than above		0		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 6.

4.CHECK POWER WINDOW SUB-SWITCH

Check power window sub-switch. Refer to [PWC-21, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace power window sub-switch. Refer to [PWC-94, "Removal and Installation"](#).

5.CHECK POWER WINDOW MAIN SWITCH (PASSENGER SIDE)

Check power window main switch (passenger side). Refer to [PWC-19, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

6.CHECK PASSENGER SIDE POWER WINDOW CIRCUIT

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

Power window sub-switch		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D38	6	D8	7	Existed
	7		15	

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

POWER WINDOW MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Power window sub-switch		Ground	Continuity
Connector	Terminal		
D38	6		
	7		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000011488784

1.CHECK POWER WINDOW MAIN SWITCH (PASSENGER SIDE)

1. Turn ignition switch OFF.
2. Power window lock switch UNLOCK.
3. Disconnect power window main switch connector.
4. Check continuity between power window main switch terminals.

Power window main switch		Condition	Continuity
Connector	Terminal		
D8	6	AUTO	Existed
		Other than above	Not existed
	7	UP	Existed
		Other than above	Not existed
	15	DOWN	Existed
		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

PWC

POWER WINDOW SUB-SWITCH

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SUB-SWITCH

Description

INFOID:000000011488785

Sends UP or DOWN signal to passenger side power window motor.

Component Function Check

INFOID:000000011488786

1. CHECK FUNCTION

Check that passenger side power window operates when passenger side power window switch (power window lock switch is UNLOCK) is operated to the UP or DOWN position.

Is the inspection result normal?

- YES >> Power window sub-switch function is OK.
NO >> Refer to [PWC-20, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011488787

1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Power window lock switch OFF.
3. Check voltage between power window sub-switch harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window sub-switch					
Connector	Terminal				
D38	15	Ground	Power window sub-switch	UP	Battery voltage
				Other than above	0
	16		DOWN	Battery voltage	
				Other than above	0

Is the inspection result normal?

- YES >> Power window sub-switch function is OK.
NO >> GO TO 2.

2. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY

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

(+)		(-)	Voltage (V) (Approx.)
Power window sub-switch			
Connector	Terminal		
D38	3	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 4.

3. CHECK POWER WINDOW SUB-SWITCH

Check power window sub-switch. Refer to [PWC-21, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Replace power window sub-switch. Refer to [PWC-94, "Removal and Installation"](#).

4. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

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

POWER WINDOW SUB-SWITCH

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Voltage (V) (Approx.)
Power window main switch			
Connector	Terminal	Ground	Battery voltage
D8	16		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

5.CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY CIRCUIT

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

Power window sub-switch		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D38	3	D8	16	Existed

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

Power window sub-switch		Ground	Continuity
Connector	Terminal		
D38	3		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000011488788

PWC

1.CHECK POWER WINDOW SUB-SWITCH

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

POWER WINDOW SUB-SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Power window sub-switch		Condition	Continuity	
Connector	Terminal			
D38	14	AUTO	3	Existed
			5	Not existed
		Other than above	3	Not existed
			5	Existed
	15	UP	3	Existed
			6	Not existed
		Other than above	3	Not existed
			6	Existed
	16	DOWN	3	Existed
			7	Not existed
		Other than above	3	Not existed
			7	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window sub-switch. Refer to [PWC-94, "Removal and Installation"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

Description

INFOID:000000011488789

- Operates via UP or DOWN signal from power window main switch or power window sub-switch.
- Encoder and module are built-in and controls anti-pitch function, AUTO operation, and automatic window adjusting function.

Component Function Check

INFOID:000000011488790

1. CHECK FUNCTION

Check that corresponding power window operates when power window switch (power window lock switch is UNLOCK) is operated to the UP or DOWN position.

Is the inspection result normal?

- YES >> Power window motor function is OK.
 NO >> Refer to [PWC-23, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011488791

1. CHECK POWER WINDOW MOTOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Power window lock switch OFF.
3. Check voltage between malfunctioning power window motor harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Power window motor				
Connector	Terminal			
D10/D40*	3	Ground	When operating the corresponding power window switch upwards	Battery voltage
			Other than above	0
	4		When operating the corresponding power window switch downwards	Battery voltage
			Other than above	0

*: Passenger side

Is the inspection result normal?

- YES >> Replace malfunctioning power window motor. Refer to [GW-28, "Disassembly and Assembly"](#).
 NO >> GO TO 2.

2. CHECK POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the corresponding power window motor connector and power window switch connector.
3. Check continuity between the corresponding power window motor harness connector and power window switch harness connector.

Power window motor		Power window switch		Continuity
Connector	Terminal	Connector	Terminal	
D10/D40*	3	D8/D38*	10/15*	Existed
	4		11/16*	

*: Passenger side

4. Check continuity between the corresponding power window motor harness connector and ground.

Power window motor		Ground	Continuity
Connector	Terminal		
D10/D40*	3		Not existed
	4		

*: Passenger side

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between the corresponding power window motor harness connector and ground.

Power window motor		Ground	Continuity
Connector	Terminal		
D10/D40*	8		Existed

*: Passenger side

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

POWER WINDOW AUTO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW AUTO CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:0000000011488792

Sends AUTO signal to driver side or passenger side power window motor.

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:0000000011488793

1.CHECK FUNCTION

Check that corresponding power window operates when driver side or passenger side switch of power window main switch (power window lock is UNLOCK) is operated to the AUTO position.

Is the inspection result normal?

- YES >> Power window main switch AUTO function is OK.
 NO >> Refer to [PWC-25. "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:0000000011488794

1.CHECK POWER WINDOW AUTO FUNCTION

- Turn ignition switch ON.
- Power window lock switch UNLOCK.
- Operate driver side and passenger side switch of power window main switch to the AUTO position.

Which side of power window AUTO operation does not operate?

- Driver side>>GO TO 2.
 Passenger side>>GO TO 5.

2.CHECK DRIVER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal				
D10	1	Ground	Power window main switch (driver side switch)	AUTO	Battery voltage
				Other than above	0
	3			UP	Battery voltage
				Other than above	0
	4			DOWN	Battery voltage
				Other than above	0

Is the inspection result normal?

- YES >> Replace driver side power window motor. Refer to [GW-28. "Disassembly and Assembly"](#).
 NO >> GO TO 3.

3.CHECK POWER WINDOW AUTO SIGNAL CIRCUIT 1

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

Driver side power window motor		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D10	1	D8	3	Existed

- Check continuity between driver side power window motor harness connector and ground.

POWER WINDOW AUTO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Driver side power window motor		Ground	Continuity
Connector	Terminal		
D10	1		

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Repair or replace harness.

4. CHECK POWER WINDOW MAIN SWITCH (DRIVER SIDE)

Check power window main switch (driver side).
 Refer to [PWC-16, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 13.
 NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

5. CHECK PASSENGER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)	
Passenger side power window motor					
Connector	Terminal				
D40	1	Ground	Power window main switch (passenger side switch)	AUTO	Battery voltage
				Other than above	0
	3			UP	Battery voltage
				Other than above	0
	4			DOWN	Battery voltage
				Other than above	0

Is the inspection result normal?

- YES >> Replace passenger side power window motor. Refer to [GW-28, "Disassembly and Assembly"](#).
 NO >> GO TO 6.

6. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window sub-switch					
Connector	Terminal				
D38	14	Ground	Power window main switch (passenger side switch)	AUTO	Battery voltage
				Other than above	0
	15			UP	Battery voltage
				Other than above	0
	16			DOWN	Battery voltage
				Other than above	0

Is the inspection result normal?

- YES >> GO TO 7.
 NO >> GO TO 8.

7. CHECK POWER WINDOW AUTO SIGNAL CIRCUIT 2

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

POWER WINDOW AUTO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Passenger side power window motor		Power window sub-switch		Continuity
Connector	Terminal	Connector	Terminal	
D40	1	D38	14	Existed

4. Check continuity between passenger side power window motor harness connector and ground.

Passenger side power window motor		Ground	Continuity
Connector	Terminal		
D40	1		Not existed

Is the inspection result normal?

YES >> GO TO 13.

NO >> Repair or replace harness.

8.CHECK POWER WINDOW SUB-SWITCH INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window sub-switch					
Connector	Terminal				
D38	5	Ground	Power window main switch (passenger side switch)	AUTO	Battery voltage
				Other than above	0
	6			UP	Battery voltage
				Other than above	0
	7			DOWN	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> GO TO 9.

NO >> GO TO 10.

9.CHECK POWER WINDOW SUB-SWITCH

Check power window sub-switch.

Refer to [PWC-21, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 13.

NO >> Replace power window sub-switch. Refer to [PWC-94, "Removal and Installation"](#).

10.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)	
Power window main switch					
Connector	Terminal				
D8	6	Ground	Power window main switch (passenger side switch)	AUTO	Battery voltage
				Other than above	0
	7			UP	Battery voltage
				Other than above	0
	15			DOWN	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> GO TO 11.

NO >> GO TO 12.

POWER WINDOW AUTO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

11. CHECK POWER WINDOW AUTO SIGNAL CIRCUIT 3

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

Power window main switch		Power window sub-switch		Continuity
Connector	Terminal	Connector	Terminal	
D8	6	D38	5	Existed

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	6		Not existed

Is the inspection result normal?

- YES >> GO TO 13.
NO >> Repair or replace harness.

12. CHECK POWER WINDOW MAIN SWITCH (PASSENGER SIDE)

Refer to [PWC-19, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 13.
NO >> Replace power window main switch. Refer to [PWC-94, "Removal and Installation"](#).

13. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH : Description

INFOID:000000011488795

Sends AUTO signal to passenger side power window motor.

POWER WINDOW SUB-SWITCH : Component Function Check

INFOID:000000011488796

1. CHECK FUNCTION

Check that passenger side power window operates when power window sub-switch (power window lock switch is UNLOCK) is operated to the AUTO position.

Is the inspection result normal?

- YES >> Power window sub-switch AUTO function is OK.
NO >> Refer to [PWC-28, "POWER WINDOW SUB-SWITCH : Diagnosis Procedure"](#).

POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:000000011488797

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Power window lock switch UNLOCK.
3. Check voltage between passenger side power window motor harness connector and ground.

POWER WINDOW AUTO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition	Voltage (V) (Approx.)	
Passenger side power window motor					
Connector	Terminal				
D40	1	Ground	Power window sub-switch	AUTO	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> Replace passenger side power window motor. Refer to [GW-28, "Disassembly and Assembly"](#).

NO >> GO TO 2.

2. CHECK POWER WINDOW AUTO SIGNAL CIRCUIT

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

Passenger side power window motor		Power window sub-switch		Continuity
Connector	Terminal	Connector	Terminal	
D40	1	D38	14	Existed

- Check continuity between passenger side power window motor harness connector and ground.

Passenger side power window motor		Ground	Continuity
Connector	Terminal		
D40	1		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SUB-SWITCH

Check power window sub-switch.

Refer to [PWC-21, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power window sub-switch. Refer to [PWC-94, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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POWER WINDOW SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW SWITCH ILLUMINATION CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000011488798

When ignition switch turns ON, power window main switch illuminates.

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000011488799

1.CHECK FUNCTION

Check that power window main switch illuminates when ignition switch turns ON.

Is the inspection result normal?

YES >> Power window main switch illumination circuit is OK.

NO >> Refer to [PWC-30. "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000011488800

1.CHECK GROUND CIRCUIT

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

Power window main switch		Ground	Continuity
Connector	Terminal		Existed
D8	8		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-94. "Removal and Installation"](#).

NO >> Repair or replace harness.

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH : Description

INFOID:000000011488801

When ignition switch turns ON, power window sub-switch illuminates.

POWER WINDOW SUB-SWITCH : Component Function Check

INFOID:000000011488802

1.CHECK FUNCTION

Check that power window sub-switch illuminates when ignition switch turns ON.

Is the inspection result normal?

YES >> Power window sub-switch illumination circuit is OK.

NO >> Refer to [PWC-30. "POWER WINDOW SUB-SWITCH : Diagnosis Procedure"](#).

POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:000000011488803

1.CHECK POWER WINDOW SUB-SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Power window sub-switch			
Connector	Terminal		
D38	11	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

POWER WINDOW SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2.

2.CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY CIRCUIT

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

Power window sub-switch		Passenger side power window motor		Continuity
Connector	Terminal	Connector	Terminal	
D38	11	D40	2	Existed

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

Power window sub-switch		Ground	Continuity
Connector	Terminal		
D38	11		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Power window sub-switch		Ground	Continuity
Connector	Terminal		
D38	8		Existed

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to [PWC-94. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH CIRCUIT

Description

INFOID:000000011488804

Detects driver side and passenger side doors open or closed condition.

Component Function Check

INFOID:000000011488805

1. CHECK FUNCTION

Check that driver side and passenger side automatic window adjustment function operates.

Is the inspection result normal?

- YES >> Door switch circuit function is OK.
- NO >> Refer to [PWC-32, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011488806

1. CHECK DOOR SWITCH

Check door switch.

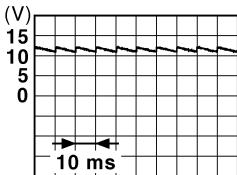
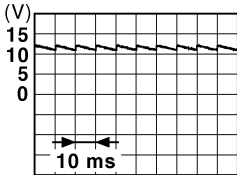
Refer to [DLK-63, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage signal between power window motor harness connector and ground with oscilloscope.

(+)		(-)	Condition	Voltage (V) (Approx.)
Power window motor Connector	Terminal			
D10	6	Ground	Door switch (driver side) Pressed	 JPMIA0011GB
			Released	0
D40	6	Ground	Door switch (passenger side) Pressed	 JPMIA0011GB
			Released	0

Is the inspection result normal?

- YES >> Replace malfunctioning power window motor. Refer to [GW-28, "Disassembly and Assembly"](#).
- NO >> GO TO 3.

3. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and malfunctioning power window motor connector.
2. Check continuity between BCM harness connector and malfunctioning power window motor harness connector.

DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power window motor		BCM		Continuity
Connector		Terminal	Terminal	
Driver side	D10	6	150	Existed
Passenger side	D40		M123	

3. Check continuity between malfunctioning power window motor harness connector and ground.

Power window motor		Terminal	Ground	Continuity
Connector				Continuity
Driver side	D10	6		Not existed
Passenger side	D40			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000011798412

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

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Monitor Item	Condition	Value/Status	
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off	A
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off	B
CDL LOCK SW	Other than power door lock switch LOCK	Off	C
	Power door lock switch LOCK	On	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	D
	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	NOTE: The item is indicated, but not monitored.	Off	E
KEY CYL UN-SW	NOTE: The item is indicated, but not monitored.	Off	F
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	G
HAZARD SW	Hazard switch is not pressed	Off	H
	Hazard switch is pressed	On	
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	I
H/L WSR SW	NOTE: The item is indicated, but not monitored.	Off	J
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off	K
	Trunk lid opener cancel switch ON	On	
TR/BD OPEN SW	Trunk lid opener switch OFF	Off	L
	While the trunk lid opener switch is turned ON	On	
TRNK/HAT MNTR	Trunk lid closed	Off	M
	Trunk lid opened	On	
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off	N
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off	O
	LOCK button of Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off	P
	UNLOCK button of Intelligent Key is pressed	On	
RKE-TR/BD	TRUNK OPEN button of Intelligent Key is not pressed	Off	P
	TRUNK OPEN button of Intelligent Key is pressed	On	
RKE-PANIC	PANIC button of Intelligent Key is not pressed	Off	P
	PANIC button of Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of Intelligent Key is not pressed	Off	P
	UNLOCK button of Intelligent Key is pressed and held	On	
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off	P
	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	P
	Dark outside of the vehicle	Close to 0 V	
REQ SW-DR	Driver door request switch is not pressed	Off	P
	Driver door request switch is pressed	On	
REQ SW-AS	Passenger door request switch is not pressed	Off	P
	Passenger door request switch is pressed	On	

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW-RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW-RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW-BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Shift lever in P position	Off
	Shift lever in any position other than P	On
SFT PN/N SW	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
UNLK SEN-DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT PN -IPDM	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
SFT P -MET	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT N -MET	Shift lever in any position other than N	Off
	Shift lever in N position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
ENGINE STATE	Engine stopped	Stop	A
	While the engine stalls	Stall	
	At engine cranking	Crank	B
	Engine running	Run	
S/L LOCK-IPDM	Steering is unlocked	Off	
	Steering is locked	On	C
S/L UNLK-IPDM	Steering is locked	Off	
	Steering is unlocked	On	D
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off	
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On	E
VEH SPEED 1	While driving	Equivalent to speedometer reading	F
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DOOR STAT-DR	Driver door is locked	LOCK	G
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	H
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door is unlocked	UNLOCK	
ID OK FLAG	Steering is locked	Reset	I
	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	J
	The engine start is permitted	Set	
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	PWC
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off	
	Intelligent Key is inserted into key slot	On	L
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	M
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done	N
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet	O
	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	P
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	

BCM (BODY CONTROL MODULE)

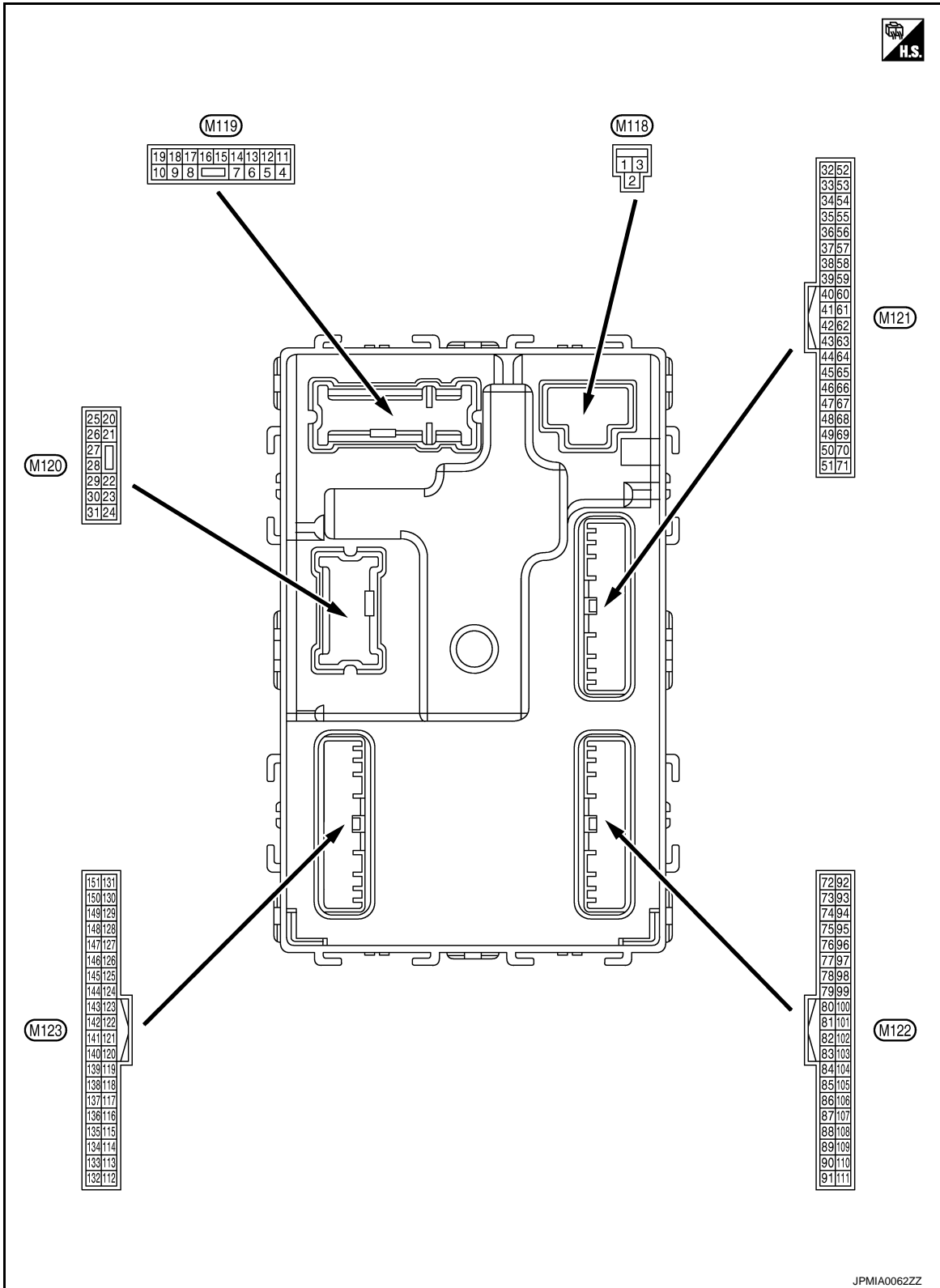
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done

BCM (BODY CONTROL MODULE)

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TERMINAL LAYOUT



PHYSICAL VALUES

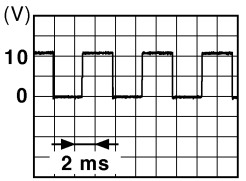
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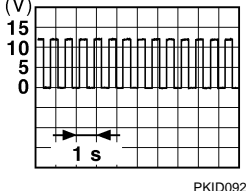
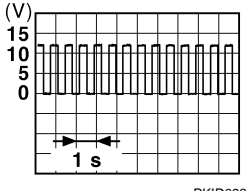
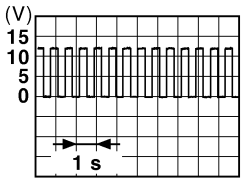
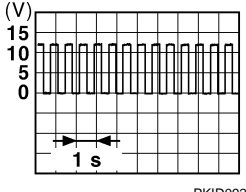
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (W)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (R)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0 V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
5 (G)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp control signal	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (P)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
17 (W)	Ground	Turn signal RH (Front)	Output		
				Turn signal switch RH	 6.5 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch LH	 6.5 V
19 (V)	Ground	Interior room lamp control signal	Output	Interior room lamp	OFF Battery voltage
				ON	0 V
20 (SB)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch RH	 6.5 V
23 (G)	Ground	Trunk lid open	Output	Trunk lid	Open (Trunk lid opener ac- tuator is activated) Battery voltage
				Close (Trunk lid opener ac- tuator is not activated)	0 V
25 (V)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch LH	 6.5 V
30 (BG)	Ground	Trunk room lamp control signal	Output	Trunk room lamp	ON 0 V
				OFF	Battery voltage

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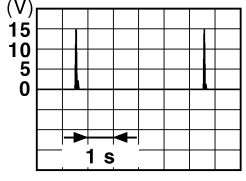
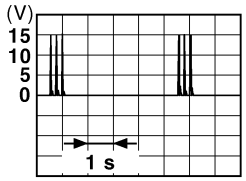
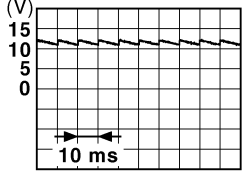
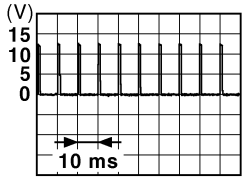
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (P)	Ground	Trunk room antenna (-)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
35 (L)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
38 (R)	Ground	Rear bumper anten- na (-)	Output	When the trunk lid opener re- quest switch is operated with ig- nition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

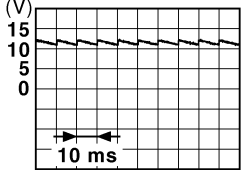
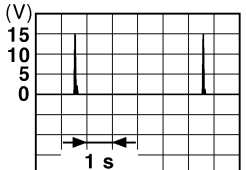
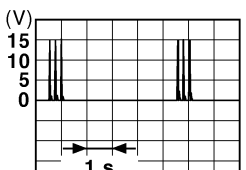
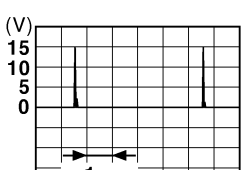
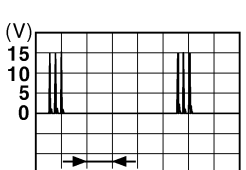
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
39 (BR)	Ground	Rear bumper antenna (+)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC Battery voltage ON 0 V
50 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> 11.8 V
				ON (Trunk is open)	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON	Battery voltage
				When shift lever is not in P or N position	0 V
61 (W)	Ground	Trunk lid opener request switch	Input	ON (Pressed)	0 V
				OFF (Not pressed)	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p> 1.0 V
64 (BG)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding 0 V Not sounding Battery voltage

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BCM (BODY CONTROL MODULE)

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
67 (G)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>	
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>	
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>	

BCM (BODY CONTROL MODULE)

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
74 (SB)	Ground	Passenger door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the passenger door request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
75 (BR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the passenger door request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the driver door request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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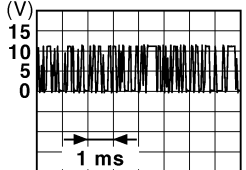
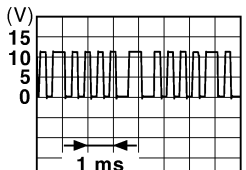


BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

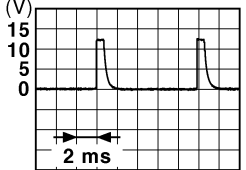
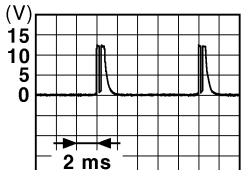

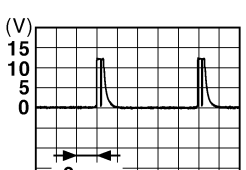
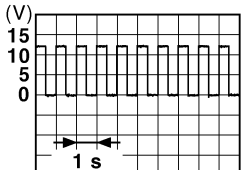
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (L)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 <p style="text-align: right; font-size: small;">JMKIA0064GB</p>
				When operating either button on Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Any of the conditions below with all switches OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>

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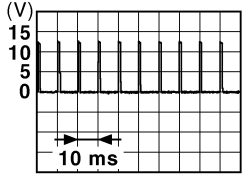
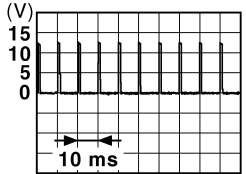
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switches OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch)	Pressed	0 V
					Not pressed	Battery voltage
90 (P)	Ground	CAN - L	Input/ Output	—	—	
91 (L)	Ground	CAN - H	Input/ Output	—	—	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	Battery voltage
					Blinking	 <p style="text-align: right; font-size: small;">JPMIA0015GB</p> <p style="text-align: center;">6.5 V</p>
					ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

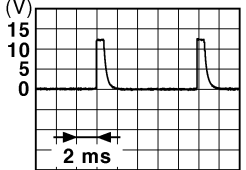

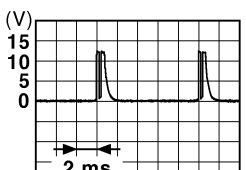
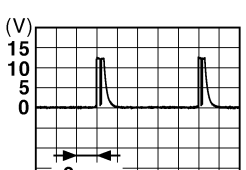
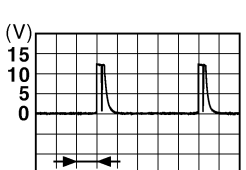
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (SB)	Ground	A/T shift selector (detention switch) power supply	Output	—		Battery voltage
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (R)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (G)	Ground	Shift lever P position switch	Input	Shift lever	P position	0 V
					Any position other than P	Battery voltage
100 (W)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
101 (V)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
102 (BG)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (P)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 <p style="text-align: right;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Turn signal switch LH	 <p style="text-align: right;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Turn signal switch RH	 <p style="text-align: right;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: right;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: right;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

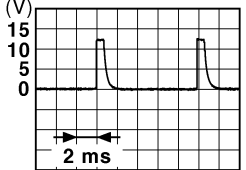

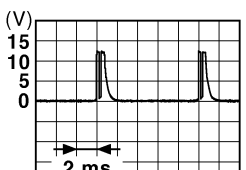
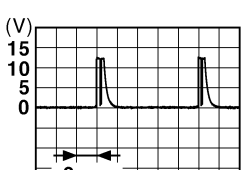
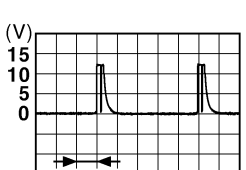
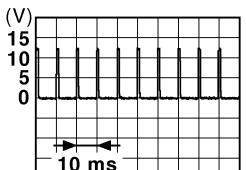
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	<p style="text-align: center;">1.4 V</p>
					Lighting switch AUTO (Wiper intermittent dial 4)	<p style="text-align: center;">1.3 V</p>
					Lighting switch 1ST (Wiper intermittent dial 4)	<p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	<p style="text-align: center;">1.3 V</p>

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	 <p style="text-align: right;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: right;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND	 <p style="text-align: right;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch INT	 <p style="text-align: right;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch HI	 <p style="text-align: right;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>
					Pressed	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <p style="text-align: right;">JPMIA0012GB</p> <p style="text-align: center;">1.1 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

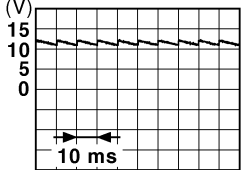
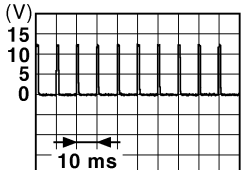
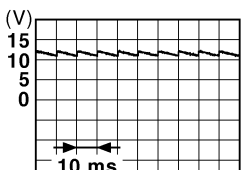
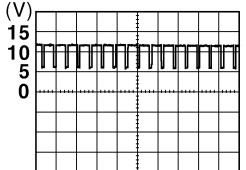
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	<p style="text-align: right; font-size: small;">JMKIA0066GB</p>
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113 (P)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
				When dark outside of the vehicle	Close to 0 V	
116 (SB)	Ground	Stop lamp switch 1	Input	—	Battery voltage	
118 (P)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
119 (SB)	Ground	Driver side door lock actuator (Unlock sen- sor)	Input	Driver door	LOCK status (Unlock sen- sor switch OFF)	<p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					UNLOCK status (Unlock sensor switch ON)	0 V
121 (R)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	Battery voltage	
				When Intelligent Key is not inserted into key slot	0 V	
123 (BR)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
				ON	Battery voltage	
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	<p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					ON (When passenger door opens)	0 V

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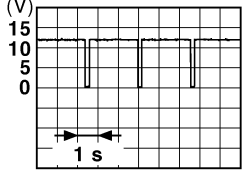
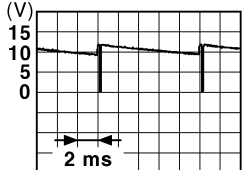

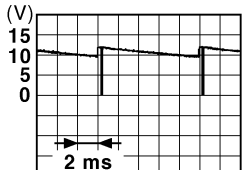
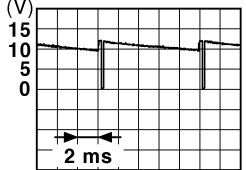
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
128 (P)	Ground	Door lock and unlock switch LOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position  11.8 V
				LOCK position	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL  1.1 V
				ON	0 V
131 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position  11.8 V
				LOCK position	0 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button igni- tion switch illumi- nation	ON (When tail lamps OFF) 5.5 V
				ON (When tail lamps ON)  NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.	
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON 0 V
				OFF	Battery voltage
137 (L)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF 0 V
				ACC or ON	5.0 V
140 (BR)	Ground	Shift lever P/N posi- tion	Input	Shift lever	P or N position 12 V
				Except P and N positions	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

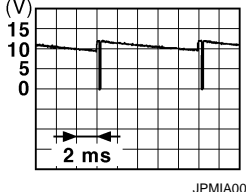
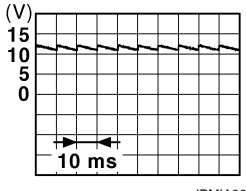
Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
		Signal name	Input/ Output				
+	-						
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V	
				Blinking	 <p style="text-align: right; font-size: small;">JPMA0014GB</p>	11.3 V	
				OFF	Battery voltage		
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V	
				Turn signal switch RH	Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMA0031GB</p>	10.7 V
					Lighting switch HI		
					Lighting switch 2ND		
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V	
				Turn signal switch RH	Front wiper switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMA0032GB</p>	10.7 V
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V	
				Turn signal switch RH	Front washer switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMA0033GB</p>	10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V	
				Lighting switch AUTO	Front wiper switch INT	 <p style="text-align: right; font-size: small;">JPMA0034GB</p>	10.7 V

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BCM (BODY CONTROL MODULE)

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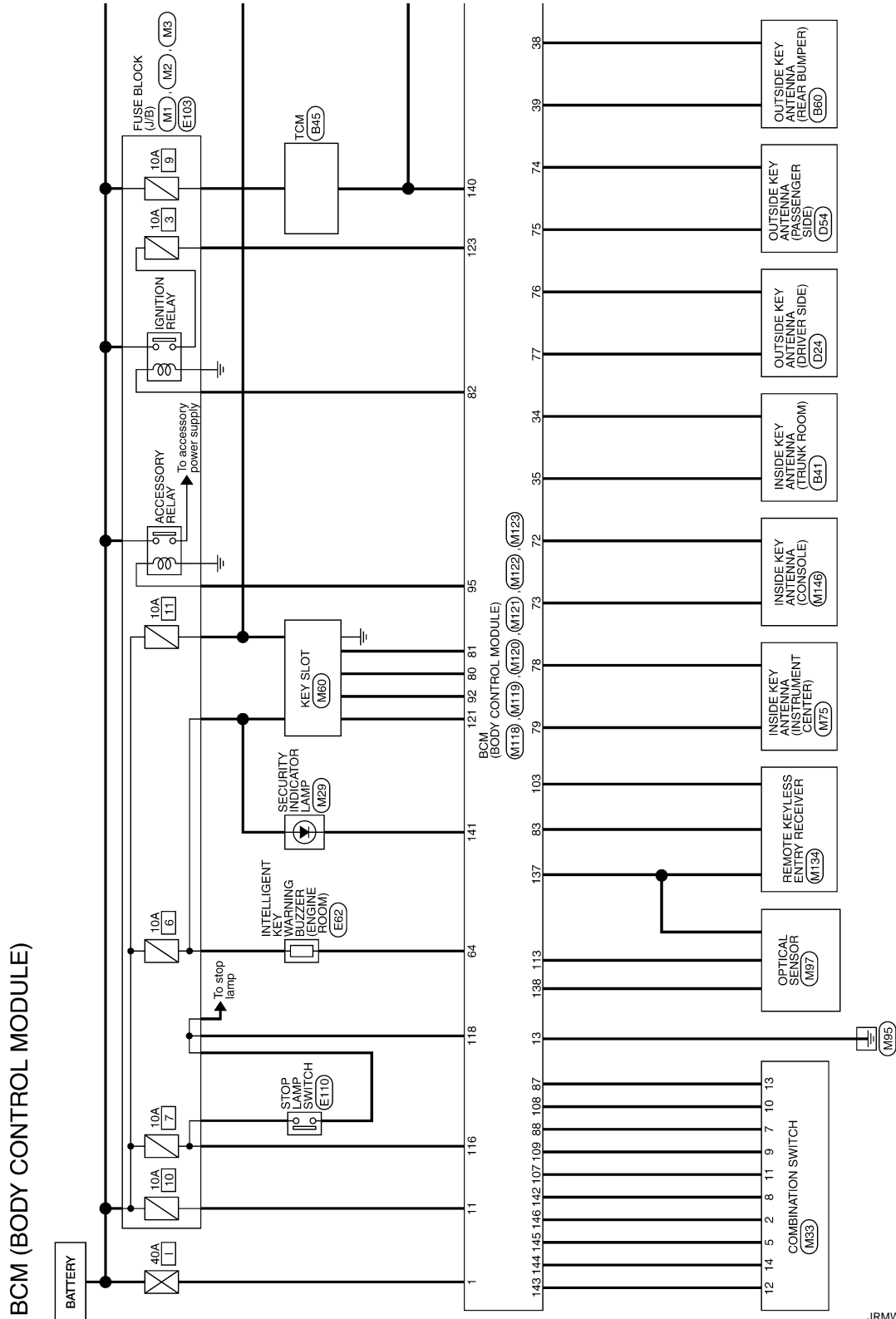
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
146 (SB)	Ground	Combination switch OUTPUT 4	Output	All switches OFF	0 V
				Lighting switch 2ND	
				Lighting switch PASS	
				Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	OFF (When driver door closes)	
				ON (When driver door opens)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Active	0 V
				Not activated	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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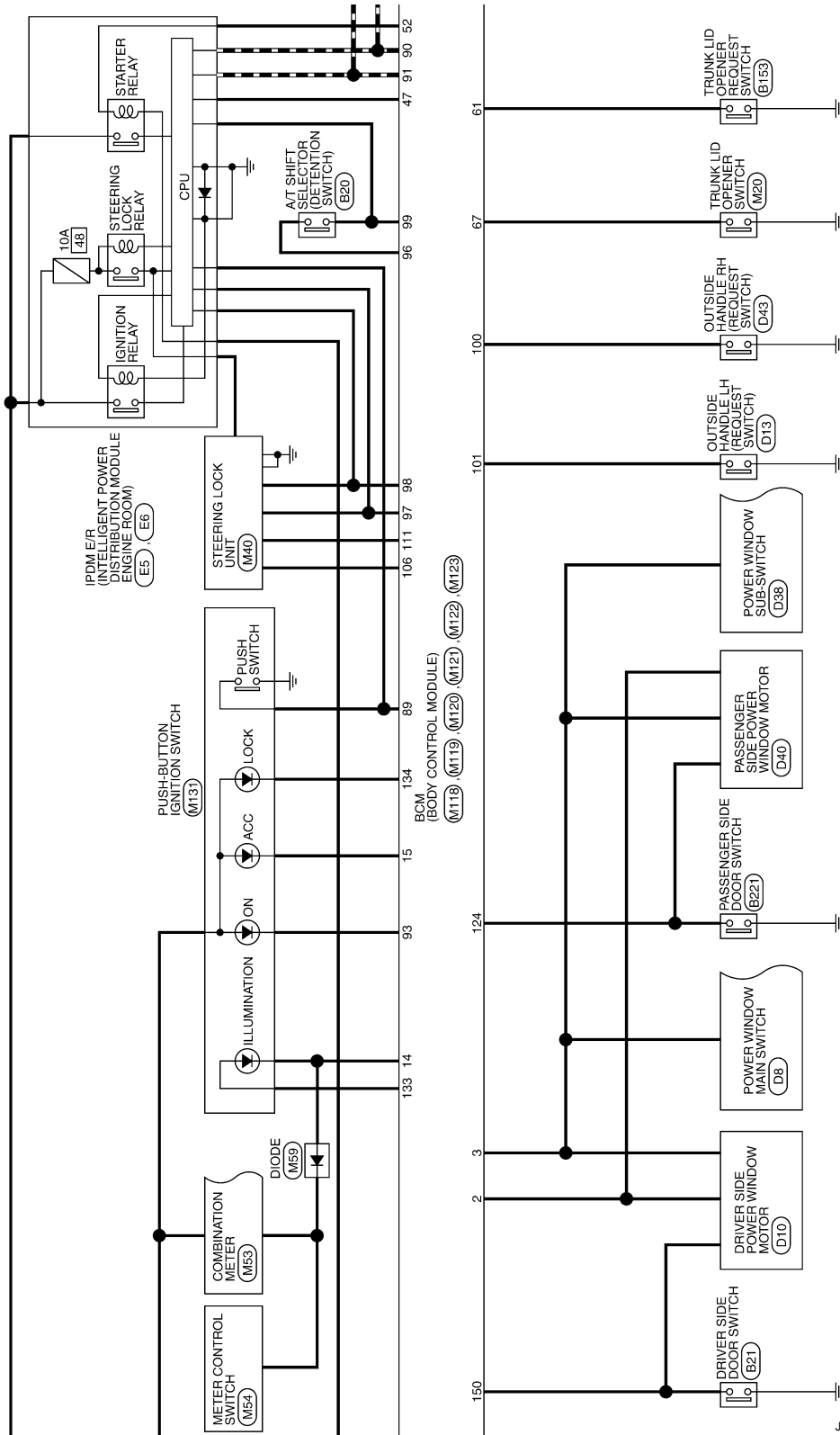
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BCM (BODY CONTROL MODULE)

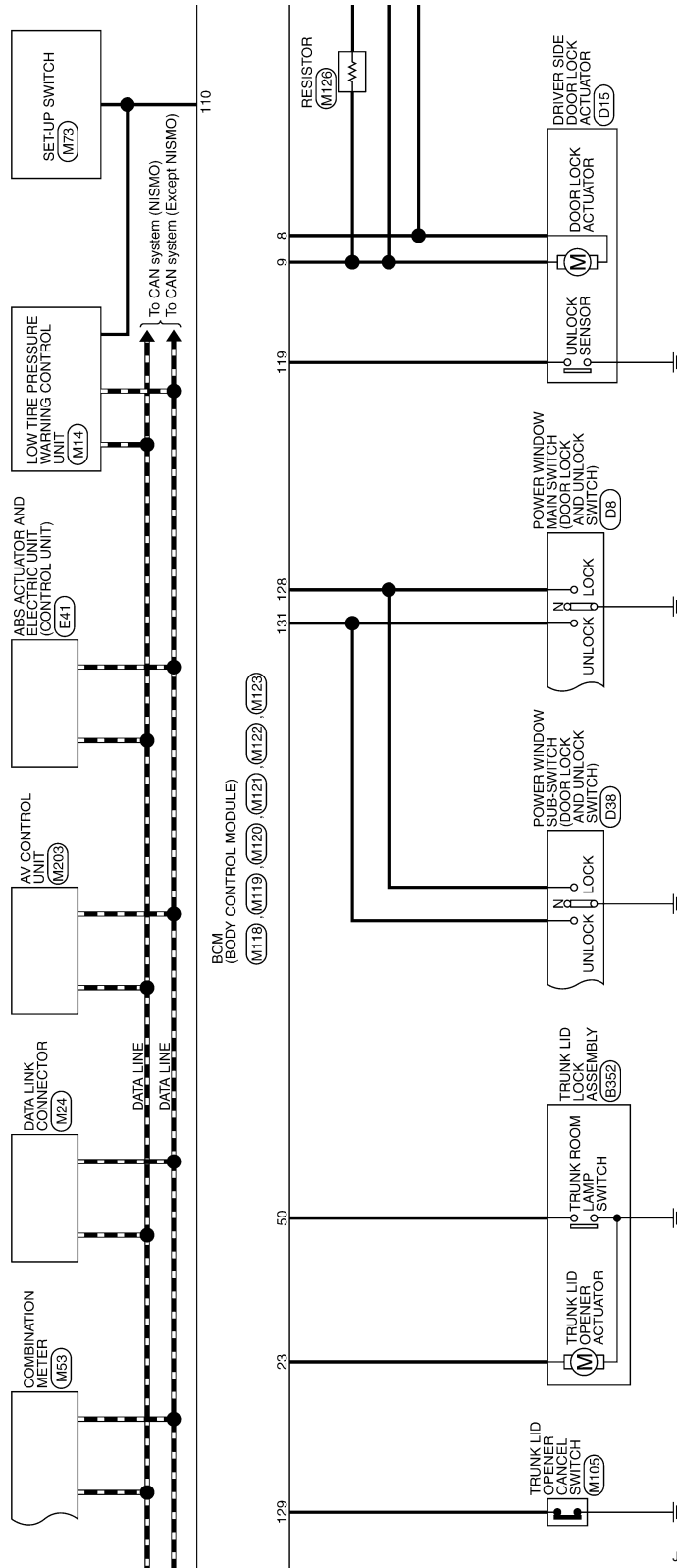
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BCM (BODY CONTROL MODULE)

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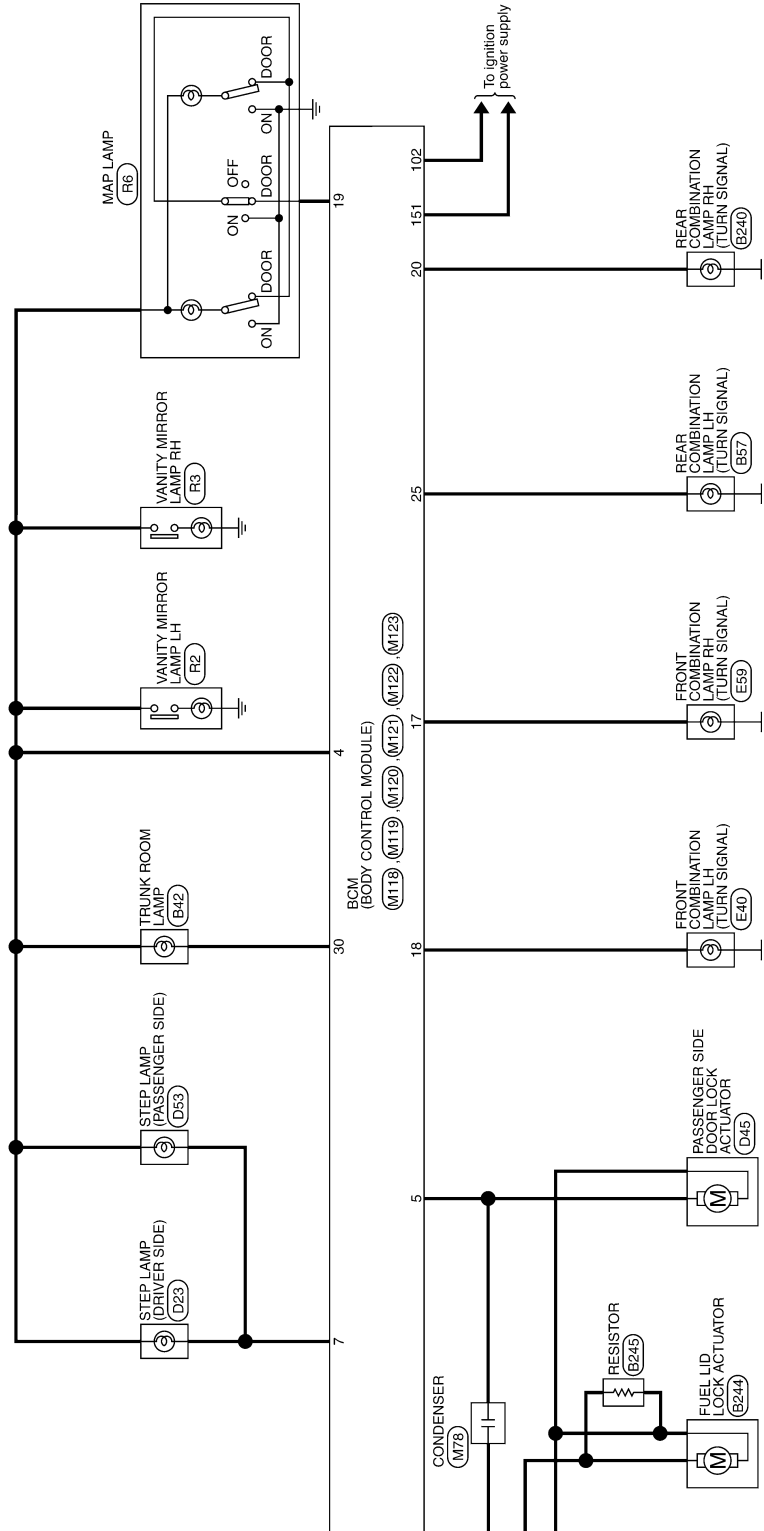
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BCM (BODY CONTROL MODULE)

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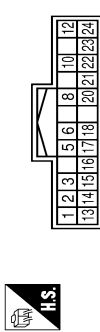
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BCM (BODY CONTROL MODULE)

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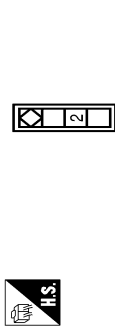
BCM (BODY CONTROL MODULE)

Connector No.	B20
Connector Name	A/T SHIFT SELECTOR
Connector Type	1H24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BCM VCC IN
2	EG	KEY LOCK (P)
3	B	GROUND
4	G	RANGE SENSOR No. 1 SIGNAL
5	B	GROUND
6	V	RANGE SENSOR No. 2 SIGNAL
7	G	RANGE SENSOR No. 3 SIGNAL
8	GR	RANGE SENSOR No. 4 SIGNAL
9	Y	VIGN
10	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
11	LG	RANGE SENSOR POWER SOURCE 1
12	L	RANGE SENSOR POWER SOURCE 2
13	R	ILLUMINATION
14	B	GROUND
15	BR	AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL
16	P	RANGE SENSOR No. 4 SIGNAL
17	BR	ILLUMINATION GND
18	R	RANGE SENSOR No. 2 SIGNAL
19	V	AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL

Connector No.	B21
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



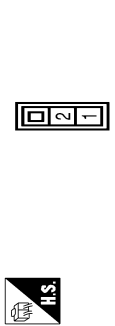
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	LG	-

Connector No.	B41
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	PK02FGY



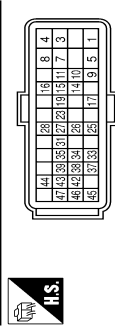
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B42
Connector Name	TRUNK ROOM LAMP
Connector Type	S02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-

Connector No.	B45
Connector Name	TCM
Connector Type	RH40FB-R28-L-LHZ



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	POWER SUPPLY (MEMORY BACK-UP)-2
2	B	GROUND
3	B	GROUND
4	B	POWER SUPPLY (MEMORY BACK-UP)-3
5	W	GROUND
6	B	GROUND
7	B	GROUND
8	B	GROUND
9	P	POWER SUPPLY (MEMORY BACK-UP)-1
10	LG	BACK-UP LAMP SIGNAL
11	L	CANH
12	V	POWER OFF
13	P	CANL
14	W	STOP LAMP SWITCH SIGNAL
15	Y	IGNITION SWITCH SIGNAL
16	GR	STARTER RELAY SIGNAL
17	BR	AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL
18	L	RANGE SENSOR POWER SOURCE 1
19	LG	RANGE SENSOR POWER SOURCE 2

27	G	RANGE SENSOR No. 1 SIGNAL
28	V	AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL
29	SB	ENGINE SPEED SIGNAL
30	V	RANGE SENSOR No. 1 SIGNAL
31	EG	SAVE MODE SWITCH SIGNAL
32	G	RANGE SENSOR No. 3 SIGNAL
33	GR	RANGE SENSOR No. 2 SIGNAL
34	P	PADDLE SHIFTER (SHIFT UP) SWITCH SIGNAL
35	L	RANGE SENSOR No. 4 SIGNAL
36	GR	RANGE SENSOR No. 5 SIGNAL
37	BR	R MODE SWITCH SIGNAL
38	W	RANGE SENSOR No. 3 SIGNAL
39	W	RANGE SENSOR No. 2 SIGNAL
40	L	PADDLE SHIFTER (SHIFT DOWN) SWITCH SIGNAL
41	P	RANGE SENSOR No. 4 SIGNAL
42	GR	RANGE SENSOR No. 5 SIGNAL
43	EG	R MODE LAMP SIGNAL
44	BR	SHIFT LOCK SOLENOID CONTROL SIGNAL
45	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
46	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
47	G	SAVE MODE LAMP SIGNAL

Connector No.	B57
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NSR6MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SB	-
5	R	-
6	Y	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	B60
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	FKG2FGY



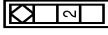
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	B153
Connector Name	TRUNK LID OPENER REQUEST SWITCH
Connector Type	FKG2ML



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	B221
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B240
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS68MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	B	-
4	Y	-
5	R	-
6	BG	-

Connector No.	B244
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	V	-

Connector No.	B245
Connector Name	RESISTOR
Connector Type	M04FL-R



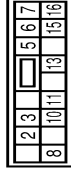
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	B352
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TB03FW-IV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	P	-










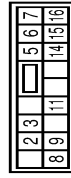






Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	R	-
5	GR	-
6	SB	-
7	O	-
8	B	-
10	G	-
11	L	-
13	BR	-
15	LG	-
16	V	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)		
Connector No. D10 Connector Name DRIVER SIDE POWER WINDOW MOTOR Connector Type NU08FDGY	 	Terminal Color Of Wire Signal Name [Specification] 1 R - 2 W - 3 G - 4 L - 6 GR - 7 R - 8 B -
Connector No. D11 Connector Name DRIVER SIDE DOOR LOCK ACTUATOR Connector Type FS04FGY-PR	 	Terminal Color Of Wire Signal Name [Specification] 1 V - 2 SB - 3 G - 4 B -
Connector No. D15 Connector Name DRIVER SIDE DOOR LOCK ACTUATOR Connector Type FS04FGY-PR	 	Terminal Color Of Wire Signal Name [Specification] 1 LG - 2 V -
Connector No. D24 Connector Name OUTSIDE KEY ANTENNA (DRIVER SIDE) Connector Type RK02MGY	 	Terminal Color Of Wire Signal Name [Specification] 1 R - 2 W - 3 G - 4 L - 6 LG - 7 R - 8 B -
Connector No. D28 Connector Name POWER WINDOW SUB-SWITCH Connector Type NST6FW-CS	 	Terminal Color Of Wire Signal Name [Specification] 2 GR - 3 V - 5 SB - 6 O - 7 LG - 8 B - 9 BR - 11 W - 14 R - 15 G - 16 L -
Connector No. D23 Connector Name STEP LAMP (DRIVER SIDE) Connector Type G02FW	 	Terminal Color Of Wire Signal Name [Specification] 1 R - 2 Y -
Connector No. D13 Connector Name OUTSIDE HANDLE LH (REQUEST SWITCH) Connector Type RK02MGY	 	Terminal Color Of Wire Signal Name [Specification] 1 W - 2 B -
Connector No. D43 Connector Name OUTSIDE HANDLE RH (REQUEST SWITCH) Connector Type RK02MGY	 	Terminal Color Of Wire Signal Name [Specification] 1 W - 2 B -

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	D45
Connector Name	PASSENGER SIDE DOOR LOCK ACTUATOR
Connector Type	RSM4FGY-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
3	G	-

Connector No.	D55
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	C22FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	D54
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RKQ2MGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	E5
Connector Name	FROM ECU INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	THE20FW-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	Y	-
7	R	-
10	W	-
11	SB	-
12	B/W	-
13	R	-
16	LG	-
25	BG	-
27	Y	-
28	G	-
30	GR	-
32	P	-
33	P	-
36	LG	-

Connector No.	E6
Connector Name	FROM ECU INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH88FW-NH



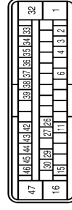
Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/Y	-
42	G	-
43	SB	-
44	W	-
46	BG	-

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	-
2	B/G	-
3	Y	-
4	B/P	-
5	P	-
6	G	-
7	BG	-
8	R	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC LAMP CONTROL UNIT
Connector Type	AEZ43FB-AJZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LBMR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CAN-L
15	P	CAN-H
16	B	GROUND
26	W	CAN-L
27	BR	G SENSOR GROUND
29	BG	UZ
30	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	E59
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-FR



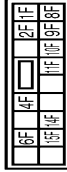
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	FR	-
4	BO	-
5	R	-
6	V	-
7	BR	-
8	BG	-

Connector No.	E62
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	FK03FBR-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	GR	-

Connector No.	E103
Connector Name	FUSE BLOCK (UB)
Connector Type	NS16FW-CS



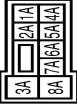
Terminal No.	Color Of Wire	Signal Name [Specification]
10F	GR	-
11F	Y	-
14F	LG	-
15F	P	-
2F	W	-
4F	W	-
6F	BG	-
8F	L	-
9F	R	-

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



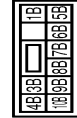
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M1
Connector Name	FUSE BLOCK (UB)
Connector Type	NS06FW-MZ



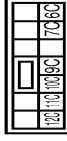
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (UB)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10B	Y	-
1B	R	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	R	-
8B	R	-
9B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (UB)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	W	-
9C	R	-
7C	B	-
9C	BR	-

Connector No.	M14
Connector Name	LOW THE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CANL
2	L	CANH
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	W	FL TUNER (SIG)
7	SB	RR TUNER (PWR)
8	GR	RL TUNER (PWR)
9	R	FR TUNER (PWR)
10	LG	FL TUNER (PWR)
12	W	SW SIG
15	G	IGN
19	R	RR TUNER (PSS)
20	BG	RL TUNER (PSS)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)		
21 P	FR TUNER (RSS)	
22 G	FL TUNER (RSS)	
23 GR	RR TUNER (GND)	
24 V	RL TUNER (GND)	
25 L	FR TUNER (GND)	
26 BR	FL TUNER (GND)	
30 G	FLASHER SIG	
32 B	GROUND	
Connector No.	M20	
Connector Name	TRUNK LID OPENER SWITCH	
Connector Type	TK04FW	
Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	GR	-
3	R	-
4	V	-
Connector No.	M24	
Connector Name	DATA LINK CONNECTOR	
Connector Type	BD16FW	
Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	V	-
Connector No.	M20	
Connector Name	TRUNK LID OPENER SWITCH	
Connector Type	TK04FW	
Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	GR	-
3	R	-
4	V	-
Connector No.	M24	
Connector Name	DATA LINK CONNECTOR	
Connector Type	BD16FW	
Terminal No.	Wire	Signal Name [Specification]
3	R	-
4	B	-
5	B	-
6	L	-
7	V	-
8	G	-
Connector No.	M20	
Connector Name	SECURITY INDICATOR LAMP	
Connector Type	TK02FBR	
Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	G	-
Connector No.	M29	
Connector Name	SECURITY INDICATOR LAMP	
Connector Type	TK02FBR	
Terminal No.	Wire	Signal Name [Specification]
11	G	-
14	P	-
16	Y	-
Connector No.	M40	
Connector Name	STEERING LOCK UNIT	
Connector Type	TH08FW-NH	
Terminal No.	Wire	Signal Name [Specification]
1	BR	SIL 12V (MECHANICAL)
2	Y	SIL (K LINE)
3	L	SIL COND/L10N1
5	B	GND
6	B	GND
7	P	SIL 12V(CPU)
8	R	SIL COND/L10N2
Connector No.	M53	
Connector Name	COMBINATION SWITCH	
Connector Type	TH16FW-NH	
Terminal No.	Wire	Signal Name [Specification]
1	LG	-
2	SB	-
5	L	-
6	B	-
7	V	-
8	BG	-
9	Y	-
10	R	-
11	LG	-
12	P	-
13	BR	-
14	G	-
Connector No.	M53	
Connector Name	COMBINATION METER	
Connector Type	SAB40FW	
Terminal No.	Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	ACT/AMP CONNECTION/ELECTRONIC SERVO
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
Connector No.	M54	
Connector Name	METER CONTROL SWITCH	
Connector Type	TH12FW-NH	
Terminal No.	Wire	Signal Name [Specification]
1	BR	-
2	W	-
3	LG	-
4	R	-
5	V	-
6	BG	-
7	SB	-
8	G	-
Connector No.	M54	
Connector Name	METER CONTROL SWITCH	
Connector Type	TH12FW-NH	
Terminal No.	Wire	Signal Name [Specification]
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CAN-H
22	P	CAN-L
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (-)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
25	G	TRIP AB RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALL TERNATOR
29	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	V	BRAKE FLUID LEVEL SWITCH SIGNAL
33	L	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	RG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

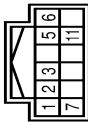
BCM (BODY CONTROL MODULE)

Connector No.	M59
Connector Name	DIODE
Connector Type	24335_C9800



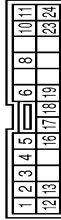
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	P	-

Connector No.	M60
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	BAT
2	GR	CLOCK
3	L	DATA
5	Y	ILL BATT
6	LG	ILL
7	B	GND
11	R	KEY SWITCH SIGNAL

Connector No.	M73
Connector Name	SET-UP SWITCH
Connector Type	TK24FW-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	VDC TOP POSITION LED
2	R	ILL
3	W	VDC TOP POSITION LED
4	V	VDC GND
5	L	VDC UP SW
6	P	E-SUS R MODE SW SIG
8	LG	E-SUS COMF MODE LAMP SIG
10	G	SAVE MODE LAMP SIGNAL
11	W	R MODE SWITCH SIGNAL
12	GR	VDC DN SW
13	G	HAZARD SW
16	R	R MODE LAMP SIGNAL
17	B	SW GND
18	G	IGN
19	BG	E-SUS R MODE LAMP SIG
23	BR	SAVE MODE SWITCH SIGNAL
24	R	E-SUS COMF MODE SW SIG

Connector No.	M75
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	FK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	Y	-

Connector No.	M78
Connector Name	CONDENSER
Connector Type	M02FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	G	-

Connector No.	M97
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	P	OUTPUT
3	V	GROUND

Connector No.	M105
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Type	S02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC




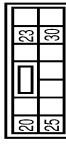





Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	R	POWER WINDOW POWER SUPPLY(BAT)
3	W	POWER WINDOW POWER SUPPLY(BAT)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)		
Connector No.	Wire	Signal Name [Specification]
M119		BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS	
		
Terminal No.	Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
6	Y	STEP LAMP
7	V	ALL DOOR FUEL LID LOCK OUTPUT
8	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
9	R	BAT (FUSE)
10	B	GND
11	P	PUSH-BUTTON IGNITION SW (LL) GND
12	Y	ACC IND
13	W	TURN SIGNAL RH (FRONT) OUTPUT
14	W	TURN SIGNAL LH (FRONT) OUTPUT
15	W	ROOM LAMP TIMER CONTROL
16	V	
Connector No.	M120	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	NS12FW-CS	
		
Terminal No.	Wire	Signal Name [Specification]
20	SB	TURN SIGNAL RH (REAR) OUTPUT
23	G	TRUNK LID OPEN OUTPUT
25	V	TURN SIGNAL LH (REAR) OUTPUT
30	EG	TRUNK ROOM LAMP OUTPUT
BCM (BODY CONTROL MODULE)		
Connector No.	M121	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH0FGY-NH	
		
Terminal No.	Wire	Signal Name [Specification]
34	P	TRUNK ROOM ANT-
35	L	TRUNK ROOM ANT+
38	R	REAR BUMPER ANT-
39	ER	REAR BUMPER ANT+
47	Y	IGN RELAY (DRM) RELY CONT
50	R	TRUNK ROOM LAMP SW
52	SB	STARTER RELAY CONT
61	W	TRUNK LID REQUEST SW
64	EG	I-KEY WARN BUZZER (ENG ROOM)
67	G	TRUNK LID OPENER SW
Connector No.	M122	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH0FBE-NH	
		
Terminal No.	Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL
BCM (BODY CONTROL MODULE)		
Connector No.	M123	
Connector Name	BOM (BODY CONTROL MODULE)	
Connector Type	TH0FG-NH	
		
Terminal No.	Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN RELY
124	LG	PASSENGER DOORS SW
126	B	DOOR LOCK UNLOCK SW LOCK
129	BG	TRUNK GANSEL SW
131	BR	DOOR LOCK UNLOCK SW UNLOCK
BCM (BODY CONTROL MODULE)		
Connector No.	M126	
Connector Name	RESISTOR	
Connector Type	M04FL-R	
		
Terminal No.	Wire	Signal Name [Specification]
1	G	
2	L	
BCM (BODY CONTROL MODULE)		
Connector No.	M131	
Connector Name	PUSH-BUTTON IGNITION SWITCH	
Connector Type	TK08FBR	
		
Terminal No.	Wire	Signal Name [Specification]
1	B	
2	P	
3	W	
BCM (BODY CONTROL MODULE)		
Terminal No.	Wire	Signal Name [Specification]
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	REVERSE SENSOR POWER SUPPLY
140	BR	SHIFT NP
141	G	SECURITY INDICATOR
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Connector No.	IS	Connector No.	IS	Connector No.	IS	Terminal Color Of No.	Wire	Signal Name [Specification]
4	BR	M203		65	R	1	R	PARKING BRAKE
5	GR	AV CONTROL UNIT		67	W	2	R	COMPOSITE IMAGE GND
6	Y	THB2FM-NH		68	R	1	R	COMPOSITE IMAGE SIGNAL
7	V			71	SHIELD	1	R	MICROPHONE GND
8	G			72	L	1	R	MICROPHONE VCC
				73	V	1	R	COMM (CONT-DISP)
				74	P	1	R	CAN-L
				75	R	1	R	AV COMM (L)
				76	R	1	R	AV COMM (L)
				79	R	1	R	ILLUMINATION
				80	W	1	R	IGNITION
				81	BG	1	R	REVERSE
				82	V	1	R	VEHICLE SPEED (B-PULSE)
				83	SHIELD	1	R	SHIELD
				84	B	1	R	COMPOSITE SYNCHRONIZING SIGNAL
				87	P	1	R	MICROPHONE SIGNAL
				88	SHIELD	1	R	SHIELD
				89	SB	1	R	COMM (DISP-CONT)
				90	L	1	R	CAN-H
				91	G	1	R	AV COMM (H)
				92	G	1	R	AV COMM (H)

Connector No.	IS	Connector No.	IS
M134		R2	
REMOTE KEYLESS ENTRY RECEIVER		VANITY MIRROR LAMP LH	
JAB04FB		MCA02FW	

Terminal Color Of No.	Wire	Signal Name [Specification]
1	L	GND
2	Y	SIGNAL OUTPUT
4	LG	BATTERY

Connector No.	IS	Connector No.	IS
M146		R3	
INSIDE KEY ANTENNA (CONSOLE)		VANITY MIRROR LAMP RH	
RK02FGY		MCA02FW	

Terminal Color Of No.	Wire	Signal Name [Specification]
1	G	-
2	R	-

BCM (BODY CONTROL MODULE)

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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BCM (BODY CONTROL MODULE)

< 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 <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Shift 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 <ul style="list-style-type: none"> • Ignition switch is in the ON position • Shift 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 <ul style="list-style-type: none"> • Ignition switch is in the ON position • Shift lever P position switch signal: Except P position (Battery voltage) • Shift lever P/N position signal: Except P and N positions (0 V)
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift lever P/N position signal: P and N position (Battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position <ul style="list-style-type: none"> - Power position: IGN - Shift lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift 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 <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When the following steering lock conditions agree <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • 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: BCM	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
B26E9: S/L STATUS	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

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PWC

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM • U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI-SCANNING

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	<ul style="list-style-type: none"> • 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: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP/CLUTCH SW • B2605: PNP/CLUTCH SW • B2606: S/L RELAY • B2607: S/L RELAY • B2608: STARTER RELAY • B2609: S/L STATUS • B260A: IGNITION RELAY • B260B: STEERING LOCK UNIT • B260C: STEERING LOCK UNIT • B260D: STEERING LOCK UNIT • B260F: ENG STATE SIG LOST • B2612: S/L STATUS • B2614: BCM • B2615: BCM • B2616: BCM • B2617: BCM • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • U0415: VEHICLE SPEED
5	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

DTC Index

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NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [PWC-11, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-36
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-37
U0415: VEHICLE SPEED	—	—	—	BCS-38
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-49
B2190: NATS ANTENNA AMP	×	—	—	SEC-40

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	—	—	SEC-43
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-44
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-46
B2195: ANTI-SCANNING	×	—	—	SEC-47
B2553: IGNITION RELAY	—	×	—	PCS-50
B2555: STOP LAMP	—	×	—	SEC-52
B2556: PUSH-BTN IGN SW	—	×	×	SEC-54
B2557: VEHICLE SPEED	×	×	×	SEC-56
B2560: STARTER CONT RELAY	×	×	×	SEC-57
B2562: LOW VOLTAGE	—	×	—	BCS-39
B2601: SHIFT POSITION	×	×	×	SEC-58
B2602: SHIFT POSITION	×	×	×	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	SEC-63
B2604: PNP/CLUTCH SW	×	×	×	SEC-65
B2605: PNP/CLUTCH SW	×	×	×	SEC-67
B2606: S/L RELAY	×	×	×	SEC-69
B2607: S/L RELAY	×	×	×	SEC-70
B2608: STARTER RELAY	×	×	×	SEC-72
B2609: S/L STATUS	×	×	×	SEC-74
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	—	×	×	SEC-78
B260C: STEERING LOCK UNIT	—	×	×	SEC-79
B260D: STEERING LOCK UNIT	—	×	×	SEC-80
B260F: ENG STATE SIG LOST	×	×	×	SEC-81
B2612: S/L STATUS	×	×	×	SEC-84
B2614: BCM	—	×	×	PCS-54
B2615: BCM	—	×	×	PCS-56
B2616: BCM	—	×	×	PCS-58
B2617: BCM	×	×	×	SEC-88
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-90
B261A: PUSH-BTN IGN SW	—	×	×	SEC-91
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-93
B2621: INSIDE ANTENNA	—	×	—	DLK-56
B2622: INSIDE ANTENNA	—	×	—	DLK-58
B2623: INSIDE ANTENNA	—	×	—	DLK-60
B26E7: TPMS CAN COMM	—	—	—	BCS-40
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-82
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-83

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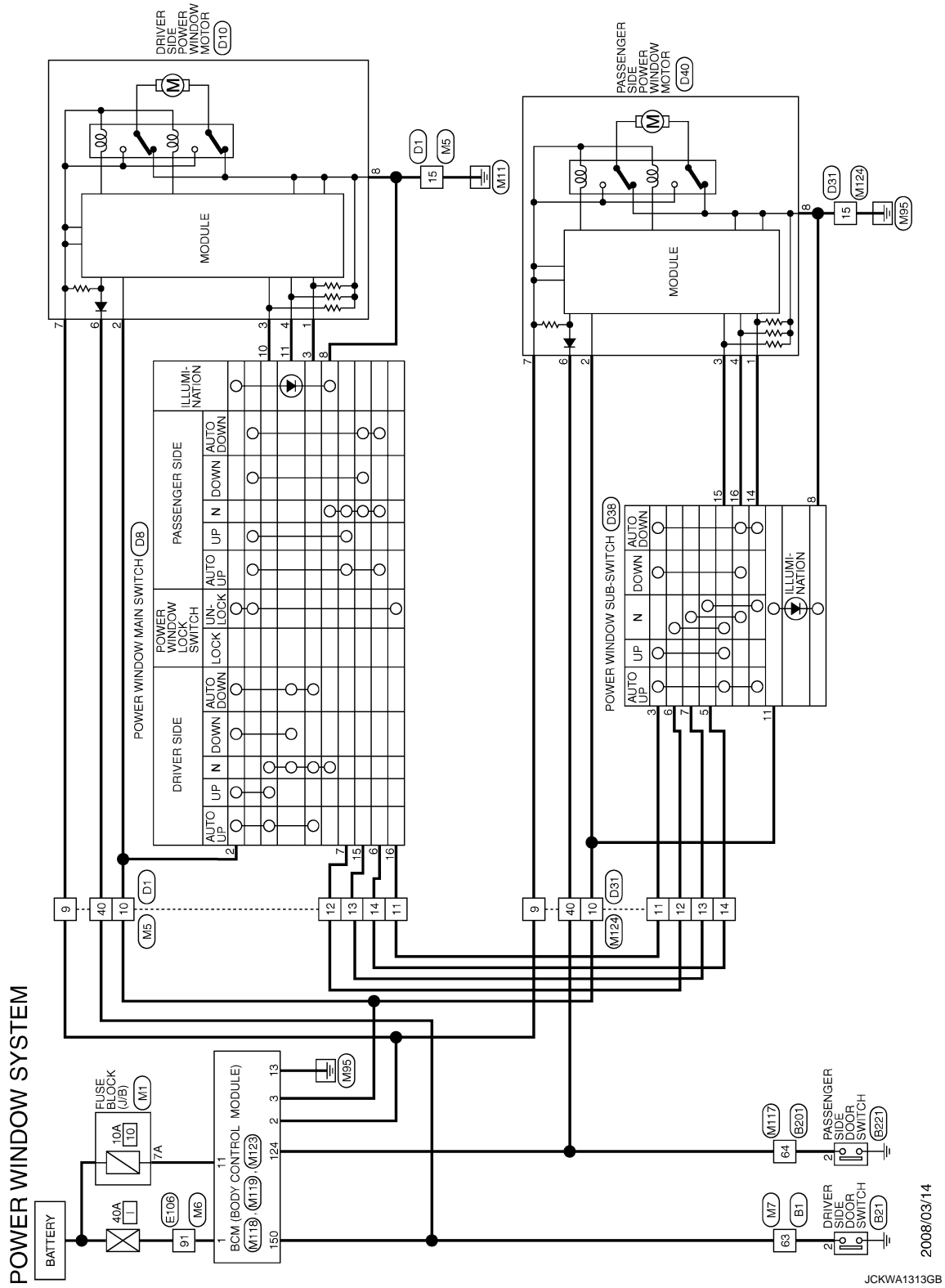
POWER WINDOW MOTOR

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW MOTOR

Wiring Diagram - POWER WINDOW SYSTEM -

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2008/03/14

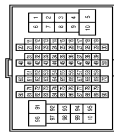
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POWER WINDOW MOTOR

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIPE
Connector Type	TH80FW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	V	-
7	W	-
8	Y	-
9	Y	-
10	R	-
11	Y	-
12	GR	-
13	BG	-
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	G	-
40	LG	-
41	V	-
42	SB	-
43	P	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	SB	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

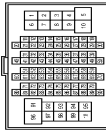
99	R	-
100	G	-

Connector No.	B21
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-

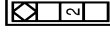
Connector No.	B201
Connector Name	WIPE TO WIPE
Connector Type	TH80FW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	BG	-
9	W	-
10	R	-
31	V	-
32	LG	-
33	BR	-
34	L	-
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-

45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
69	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-
96	Y	-
98	BG	-
99	BR	-
100	W	-

Connector No.	B221
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

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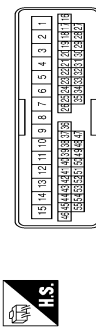
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POWER WINDOW MOTOR

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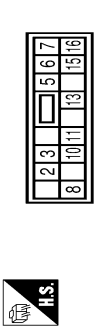
POWER WINDOW SYSTEM

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	GR	-
4	W	-
5	Y	-
6	G	-
7	V	-
8	B	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	G	-
17	R	-
27	SHIELD	-
36	O	-
38	W	-
40	GR	-
41	GR	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



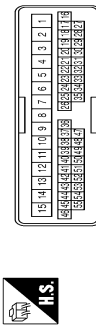
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	GR	-
4	SB	-
5	O	-
6	B	-
7	G	-
8	V	-
9	R	-
10	L	-
11	W	-
12	V	-
13	BR	-
14	LG	-
15	LG	-
16	V	-

Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	NU8FDGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	L	-
5	GR	-
6	GR	-
7	R	-
8	B	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



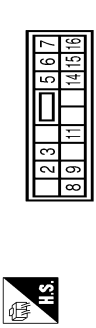
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
5	Y	-
6	G	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	O	-
38	W	-
40	LG	-
41	GR	-
42	BR	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D40
Connector Name	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	NU8FDGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	L	-
5	GR	-
6	GR	-
7	R	-
8	B	-

Connector No.	D38
Connector Name	POWER WINDOW SUB SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	V	-
5	SB	-
6	O	-
7	LG	-
8	B	-
9	BR	-
11	W	-
14	R	-
15	G	-
16	L	-

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POWER WINDOW MOTOR

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

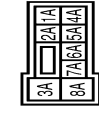
Connector No.	IE106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BG	-
4	BG	-
5	R	-
6	P	-
7	BG	-
8	P	-
9	W	-
10	Y	-
11	SB	-
12	BG	-
13	P	-
14	L	-
15	SB	-
16	BG	-
17	SHIELD	-
18	L	-
19	P	-
20	B	-
21	Y	-
22	V	-
23	Y	-
24	V	-
25	BR	-
26	L	-
27	SHIELD	-
28	G	-
29	R	-
30	W	-
31	V	-
32	G	-
33	GR	-
34	P	-
35	LG	-
36	G	-
37	Y	-

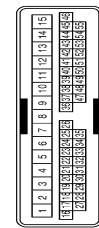
38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
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51	SHIELD	-
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71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-
79	W	-
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81	GR	-
82	BG	-
84	P	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	BG	-
90	G	-
91	GR	-
92	R	-
93	R	-
94	LG	-
95	G	-
96	GR	-
97	L	-
98	LG	-
99	BG	-
100	L	-

Connector No.	M1
Connector Name	FUSE BLOCK (UB)
Connector Type	NS06FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH10MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-

14	SB	-
15	B	-
16	BR	-
17	Y	-
27	SHIELD	-
36	L	-
38	V	-
40	GR	-
41	P	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	BG	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
3	R	-
4	G	-
5	Y	-
6	P	-
7	W	-
8	V	-
9	L	-
10	Y	-
11	G	-
12	BG	-
13	R	-
14	L	-
15	BR	-
16	R	-

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PWC

POWER WINDOW MOTOR

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

17	SHIELD	-	-	-	-
18	L	-	-	-	-
19	P	-	-	-	-
20	B	-	-	-	-
21	W	-	-	-	-
22	GR	-	-	-	-
23	L	-	-	-	-
24	V	-	-	-	-
25	BR	-	-	-	-
26	G	-	-	-	-
27	SHIELD	-	-	-	-
28	G	-	-	-	-
29	R	-	-	-	-
30	W	-	-	-	-
31	V	-	-	-	-
32	G	-	-	-	-
33	GR	-	-	-	-
34	LG	-	-	-	-
35	P	-	-	-	-
36	L	-	-	-	-
37	W	-	-	-	-
38	Y	-	-	-	-
39	GR	-	-	-	-
40	BG	-	-	-	-
41	W	-	-	-	-
42	R	-	-	-	-
43	Y	-	-	-	-
44	BR	-	-	-	-
45	G	-	-	-	-
46	LG	-	-	-	-
48	W	-	-	-	-
49	L	-	-	-	-
50	R	-	-	-	-
51	SHIELD	-	-	-	-
60	SB	-	-	-	-
61	V	-	-	-	-
71	W	-	-	-	-
72	LG	-	-	-	-
74	R	-	-	-	-
75	BR	-	-	-	-
76	LG	-	-	-	-
77	R	-	-	-	-
78	BR	-	-	-	-
79	W	-	-	-	-
80	Y	-	-	-	-
81	EG	-	-	-	-
82	SB	-	-	-	-
84	P	-	-	-	-
85	Y	-	-	-	-
86	GR	-	-	-	-

87	R	-	-	-	-
88	L	-	-	-	-
89	G	-	-	-	-
90	P	-	-	-	-
91	W	-	-	-	-
92	R	-	-	-	-
93	LG	-	-	-	-
94	W	-	-	-	-
95	SB	-	-	-	-
96	L	-	-	-	-
97	L	-	-	-	-
98	Y	-	-	-	-
99	BG	-	-	-	-
100	L	-	-	-	-

Connector No. M7
 Connector Name WIRE TO WIRE
 Connector Type TP80MW-CS16-TM4



25	L	-	-	-	-
26	LG	-	-	-	-
27	W	-	-	-	-
28	R	-	-	-	-
31	GR	-	-	-	-
32	L	-	-	-	-
33	V	-	-	-	-
34	BG	-	-	-	-
39	W	-	-	-	-
40	BG	-	-	-	-
41	R	-	-	-	-
42	V	-	-	-	-
43	W	-	-	-	-
47	G	-	-	-	-
48	R	-	-	-	-
49	W	-	-	-	-
50	SHIELD	-	-	-	-
51	SB	-	-	-	-
52	B	-	-	-	-
53	R	-	-	-	-
54	B	-	-	-	-
56	R	-	-	-	-
57	G	-	-	-	-
58	G	-	-	-	-
59	R	-	-	-	-
60	BR	-	-	-	-
61	Y	-	-	-	-
62	SHIELD	-	-	-	-
63	GR	-	-	-	-
64	R	-	-	-	-
65	G	-	-	-	-
66	BR	-	-	-	-
67	BG	-	-	-	-
69	P	-	-	-	-
70	L	-	-	-	-
71	SHIELD	-	-	-	-
72	SHIELD	-	-	-	-
72	V	-	-	-	-
73	LG	-	-	-	-
76	R	-	-	-	-
77	SB	-	-	-	-
78	G	-	-	-	-
79	Y	-	-	-	-
80	R	-	-	-	-
81	G	-	-	-	-
82	BR	-	-	-	-
82	G	-	-	-	-
83	R	-	-	-	-
83	Y	-	-	-	-
84	SHIELD	-	-	-	-

85	V	-	-	-	-
86	LG	-	-	-	-
86	W	-	-	-	-
87	L	-	-	-	-
88	P	-	-	-	-
89	SHIELD	-	-	-	-
90	V	-	-	-	-
92	LG	-	-	-	-
93	Y	-	-	-	-
94	G	-	-	-	-
95	R	-	-	-	-
96	Y	-	-	-	-
97	R	-	-	-	-
98	G	-	-	-	-
99	L	-	-	-	-
100	W	-	-	-	-

Connector No. M117
 Connector Name WIRE TO WIRE
 Connector Type TP80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
6	G	-
7	V	-
8	G	-
9	W	-
10	L	-
31	Y	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
51	SB	-
52	BG	-
53	R	-

JRKWE4497GB

POWER WINDOW MOTOR

< ECU DIAGNOSIS INFORMATION >

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POWER WINDOW SYSTEM

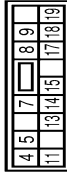
54	GR	-	
60	L	-	
61	P	-	
62	L	-	
63	Y	-	
64	LG	-	
69	P	-	
70	L	-	
80	L	-	
81	G	-	
82	BR	-	
83	B	-	
84	V	-	
85	SB	-	
86	SHIELD	-	
87	W	-	
88	Y	-	
89	V	-	
100	W	-	

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FELC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	R	POWER WINDOW POWER SUPPLY(BAT)
3	W	POWER WINDOW POWER SUPPLY(BAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	P	PUSH-BUTTON IGNITION SW (L) GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT) OUTPUT
18	BG	TURN SIGNAL LH (FRONT) OUTPUT
19	V	ROOM LAMP TIMER CONTROL

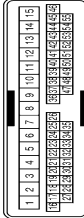
Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN F/B
124	LG	PASSENGER DOOR SW
128	P	DOOR LOCK/UNLOCK SW LOCK

129	BG	TRUNK CANCEL SW
131	BR	DOOR LOCK/UNLOCK SW UNLOCK
133	W	PUSH-BUTTON IGNITION SW (LL) POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVER SENSOR POWER SUPPLY
140	BR	SHIFT INP
141	G	SECURITY INDICATOR
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER RELAY CONT

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	R	-
4	G	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	BR	-
38	W	-

Fail-Safe

FAIL-SAFE CONTROL

Fail-safe control is activated when the actual glass position that is out of the specified value is detected compared to the fully closed position memorized in module in power window motor, or when a malfunction is detected in the encoder signal that indicates UP or DOWN speed and direction of door glass.

JRKWE4498GB

INFOID:000000011488813

POWER WINDOW MOTOR

< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunction condition
Pulse direction malfunction (opposite backlash pulse detection)	When a pulse signal indicates 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.
Pulse sensor (Hall IC) malfunction (one side pulse shut-off detection)	When one pulse signal 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 malfunction (both sides pulse shut-off detection)	When both pulse signals are not detected continuously for the specified time or more, while door glass is being operated UP or DOWN.
Glass recognition position malfunction 1 (UP over-run)	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 glass is being operated UP. (Actual door glass fully closed position is detected to be higher than the memorized position in module for the specified value or more.)
Glass recognition position malfunction 2 (Out of memorized area)	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 glass is being operated UP. (Actual door glass fully closed position is detected to be lower than the memorized position in module for the specified value or more.)
Glass recognition position malfunction 3 (Full stroke malfunction)	When pulse count that is out of the door glass full stroke value or more is detected, while door glass is being operated UP.
Fully closed position update malfunction	When door glass is continuously operated UP and DOWN for the specified value or more without fully closing door glass.

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
- Timer function
- Automatic window adjusting function

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

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000011488814

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-41, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER WINDOW MOTOR POWER SUPPLY AND GROUND CIRCUIT

Check power window motor power supply and ground circuit.

Refer to [PWC-13, "POWER WINDOW MOTOR : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. 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 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011488815

1. CHECK DRIVER SIDE POWER WINDOW MOTOR POWER SUPPLY AND GROUND CIRCUIT

Check driver side power window motor power supply and ground circuit.
Refer to [PWC-13, "POWER WINDOW MOTOR : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER WINDOW MAIN SWITCH (DRIVER SIDE)

Check power window main switch (driver side).
Refer to [PWC-16, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK DRIVER SIDE POWER WINDOW MOTOR

Check driver side power window motor.
Refer to [PWC-23, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection 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 WITH POWER WINDOW MAIN SWITCH

WITH POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000011488816

1.CHECK POWER WINDOW MAIN SWITCH (PASSENGER SIDE)

Check power window main switch (passenger side).

Refer to [PWC-17, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

WITH POWER WINDOW SUB-SWITCH

WITH POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:000000011488817

1.CHECK POWER WINDOW SUB-SWITCH

Check power window sub-switch.

Refer to [PWC-30, "POWER WINDOW SUB-SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection 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

WITH BOTH POWER WINDOW MAIN SWITCH AND POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:000000011488818

1.CHECK PASSENGER SIDE POWER WINDOW MOTOR POWER SUPPLY AND GROUND CIRCUIT

Check passenger side power window motor power supply and ground circuit.

Refer to [PWC-13, "POWER WINDOW MOTOR : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to [PWC-23, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

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PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

ANTI-PINCH FUNCTION DOES NOT OPERATE NORMALLY

Diagnosis Procedure

INFOID:000000011488819

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization of power window that is malfunctioning, and check that anti-pinch function operates normally.

Refer to [PWC-5. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace corresponding power window motor. Refer to [GW-27. "Removal and Installation"](#).

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AUTO OPERATION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE NORMALLY

POWER WINDOW MAIN SWITCH IS OPERATED

POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure INFOID:000000011488820

1.PERFORM INITIALIZATION PROCEDURE

Perform initialization of power window that is malfunctioning, and check that auto operation operates normally. Refer to [PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 2.

2.CHECK POWER WINDOW AUTO CIRCUIT (POWER WINDOW MAIN SWITCH)

Check power window auto circuit (power window main switch).
Refer to [PWC-25, "POWER WINDOW MAIN 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 inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 1.

POWER WINDOW SUB-SWITCH IS OPERATED

POWER WINDOW SUB-SWITCH IS OPERATED : Diagnosis Procedure INFOID:000000011488821

1.PERFORM INITIALIZATION PROCEDURE

Perform initialization of power window that is malfunctioning, and check that auto operation operates normally. Refer to [PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 2.

2.CHECK POWER WINDOW AUTO CIRCUIT (POWER WINDOW SUB-SWITCH)

Check power window auto circuit (power window sub-switch).
Refer to [PWC-28, "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 inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011488822

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to [PWC-94, "Removal and Installation"](#).

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AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011488823

1.PERFORM INITIALIZATION PROCEDURE

Perform initialization of power window that is malfunctioning, and check that automatic window adjusting function operates normally.

Refer to [PWC-5. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

Check door switch circuit.

Refer to [PWC-32. "Component Function Check"](#).

Is the inspection result normal?

YES >> Replace malfunctioning power window motor. Refer to [GW-27. "Removal and Installation"](#).
NO >> Repair or replace the malfunctioning parts.

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000011488824

1.CHECK POWER WINDOW ILLUMINATION CIRCUIT (POWER WINDOW MAIN SWITCH)

Check power window illumination circuit (power window main switch).

Refer to [PWC-30, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:000000011488825

1.CHECK POWER WINDOW ILLUMINATION CIRCUIT (POWER WINDOW SUB-SWITCH)

Check power window illumination circuit (power window sub-switch).

Refer to [PWC-30, "POWER WINDOW SUB-SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000011488826

1. CHECK DOOR SWITCH CIRCUIT

Check door switch circuit. Refer to [PWC-32, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011488827

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

INFOID:000000011488828

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

NOTE:

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

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

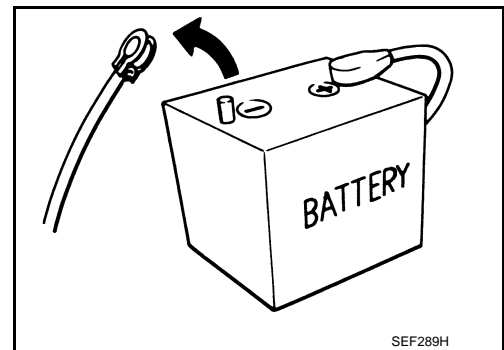
NOTE:

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

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

NOTE:

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



Precaution for Battery Service

INFOID:000000011488829

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

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PRECAUTIONS

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Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

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CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Turn the ignition switch to ACC position.
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

PREPARATION

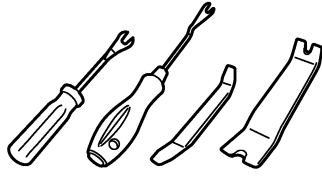
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PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000011488831

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

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POWER WINDOW MAIN SWITCH

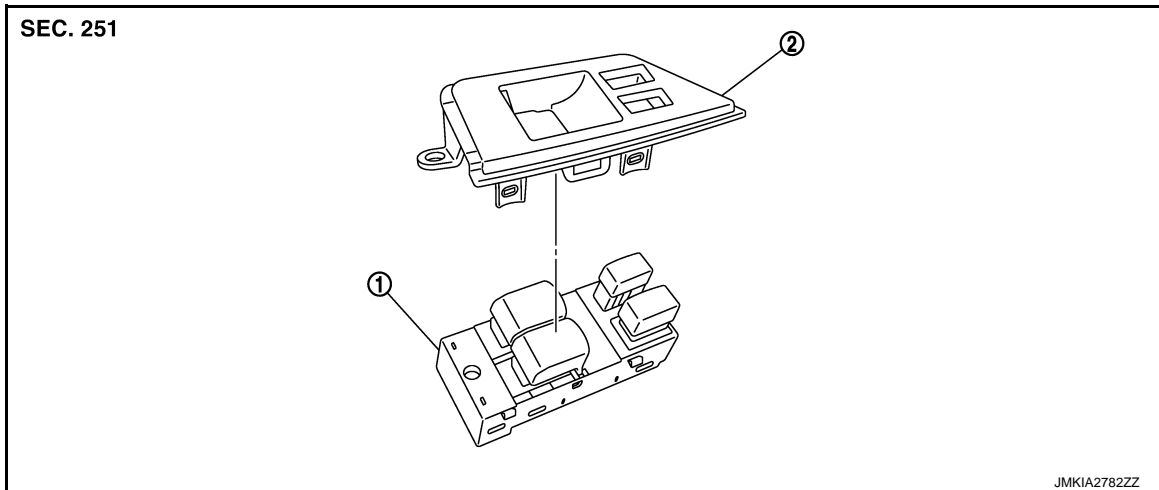
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REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Exploded View

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1. Power window main switch


2. Power window main switch finisher

Removal and Installation

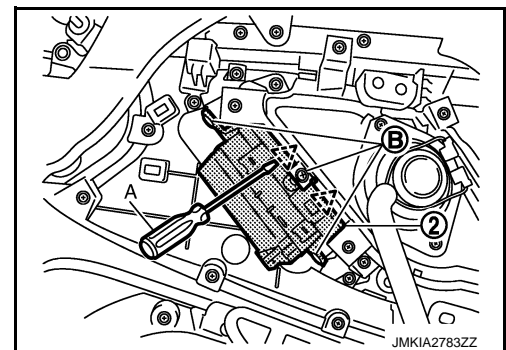
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REMOVAL


1. Remove the door finisher (driver side).
Refer to [INT-12, "Removal and Installation"](#).
2. Remove the screws (B).
3. Remove power window main switch finisher (driver side) (2) from door finisher (driver side) using remover tool (A) etc.

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CAUTION:
Never fold the pawl of door finisher.



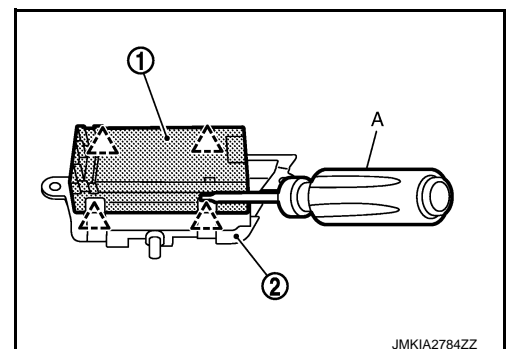
4. Remove power window main switch (1) from power window main switch finisher (driver side) using remover tool (A) etc.

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

NOTE:

The same procedure is also performed for power window sub-switch.



INSTALLATION

Install in the reverse order of removal.