

SECTION **PWC**

POWER WINDOW CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

WorkFlow

INFOID:000000005627097

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK FOR DTC

1. Check DTC for BCM.
2. Perform the following procedure if DTC is displayed.
 - Record DTC and freeze frame data (Print them out with CONSULT-III.)
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>[BCS-74. "DTC Index"](#).

Symptom is described, DTC is not displayed>>GO TO 3.

3.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 5.

5.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

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

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 4.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000005627098

Initial setting is necessary when battery terminal is removed.

CAUTION:

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

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000005627099

INITIALIZATION PROCEDURE

1. Disconnect battery terminal or power window main switch connector while operating power window. Reconnect it after a minute or more.
2. Door close (door switch OFF)
3. Turn ignition switch ON.
4. Fully open retractable hard top system and rear power window. This operation is not necessary if retractable hard top system and rear power window are fully open.
5. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
6. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 3 seconds or more.
7. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to [PWC-114, "Fail Safe"](#)
- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Finish initial setting. Otherwise, next operation cannot be done.

1. Auto-up operation
2. Anti-pinch function
3. Automatic window adjusting function
4. Retained power operation

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005627100

Initial setting is necessary when replacing power window main switch.

CAUTION:

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

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

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000005627101

INITIALIZATION PROCEDURE

1. Disconnect battery terminal or power window main switch connector while operating power window. Reconnect it after a minute or more.
2. Door close (door switch OFF)
3. Turn ignition switch ON.
4. Fully open retractable hard top system and rear power window. This operation is not necessary if retractable hard top system and rear power window are fully open.
5. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
6. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 3 seconds or more.
7. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

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

CAUTION:

- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
 - Check that AUTO-UP operates before inspection when system initialization is performed.
 - It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to [PWC-114, "Fail Safe"](#)
 - Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
 - Finish initial setting. Otherwise, next operation cannot be done.
1. Auto-up operation
 2. Anti-pinch function
 3. Automatic window adjusting function
 4. Retained power operation

POWER WINDOW SYSTEM

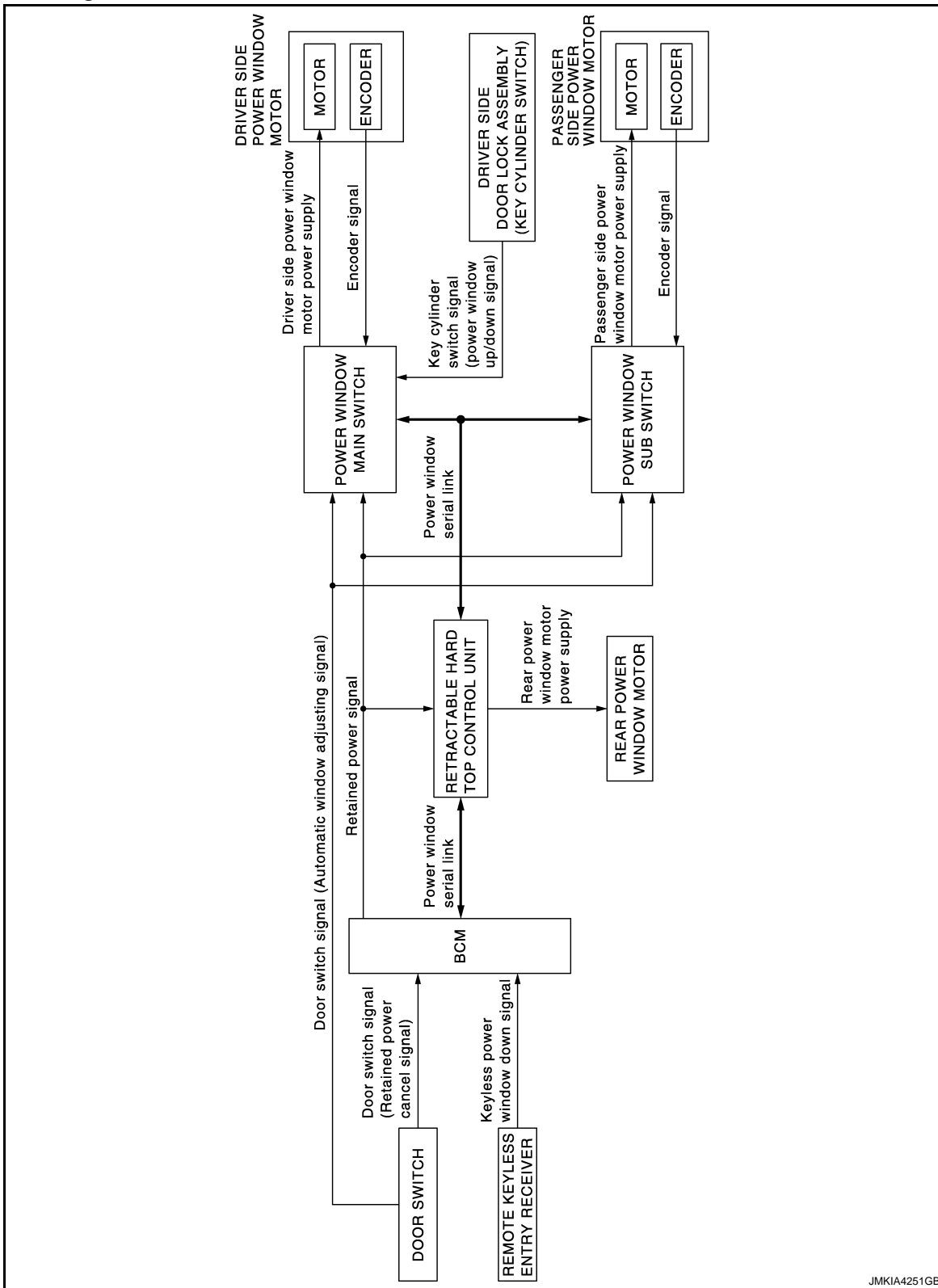
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

INFOID:0000000005627102



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System Description

INFOID:0000000005627103

POWER WINDOW OPERATION

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

- Power window main switch can open/close all windows.
- Power window sub-switch can open/close the passenger side windows.
- Retained power operation can operate power window switch and power window sub-switch for 45 seconds after ignition switch is turned OFF.
- Power window lock function prohibits operation other than power window main switch when lock switch is pressed.
- Anti-pinch function lowers door glass a specific amount during power window AUTO UP operation when resistance is detected because of a trapped foreign object.
- Power window serial link transmits and receives signal between retractable hard top control unit and power window main switch or power window sub-switch.
- Power window system operation links with retractable hard top system to [RF-16. "RETRACTABLE HARD TOP SYSTEM : System Description"](#).

POWER WINDOW AUTO-OPERATION

- Driver and passenger power window motors operate AUTO UP/DOWN when power window main switch or power window sub-switch is operated in AUTO.
- Power window main switch and power window sub-switch read the changes of encoder signal and stop AUTO operation when door glass is fully open or closed.(Anti-pinch function does not operate just before door glass is fully closed and before it is fully closed.)
- Even if encoder is malfunctioning, power window motors are operative (except during AUTO operation).
- For rear power window motor, only AUTO DOWN operation is operative.

POWER WINDOW SIMULTANEOUS OPERATION

All door glass moves upward (downward) when driver side front switch and passenger side front switch of power window main switch are simultaneously pulled (pressed) in AUTO position.

NOTE:

This function is adopted in consideration of convenience after all door glass is fully closed (open) when retractable hard top is operated.

POWER WINDOW SERIAL LINK

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

The under mentioned signal is transmitted from retractable hard top control unit to power window main switch.

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

The under mentioned signal is transmitted from retractable hard top control unit to power window sub-switch.

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

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

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

The under mentioned signal is transmitted from power window main switch to retractable hard top control.

- Rear power window operation signal
- Power window control by key cylinder switch signal
- Power window lock signal

RETAINED POWER OPERATION

- During 45 seconds after ignition switch is turned OFF, BCM controls timer and enables open and close operation of driver door glass, passenger door glass, and rear quarter glass.

NOTE:

Retained power operation is not operative when system initialization is not complete.

Retained power function cancel conditions

When BCM detects the following signal it cancels.

- Door CLOSE (door switch OFF)→OPEN (door switch ON).
- Ignition switch is ON.
- Timer time passes. (45 seconds)

POWER WINDOW LOCK FUNCTION

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

Window lock signal is sent to retractable hard top control and power window sub switch via serial link, and switch operation other than power window main switch is prohibited.

NOTE:

Power window operates when retractable hard top operated while power window lock switch is ON.

ANTI-PINCH FUNCTION

- Foreign material in the door glass during AUTO-UP operation the anti-pinch function that lowers the door glass 150 mm or 2 seconds when detected.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Resistance is applied to the power window motor rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window switch controls to lower the window glass for 150 mm or 2 seconds after it detects encoder pulse signal frequency change.

OPERATION CONDITION

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

NOTE:

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

KEY CYLINDER SWITCH OPERATION

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

OPERATION CONDITION

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

KEYLESS POWER WINDOW DOWN OPERATION

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

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

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

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

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUPPORT". Refer to [DLK-52. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)".](#)

NOTE:

Use CONSULT-III to change settings.

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

AUTOMATIC WINDOW ADJUSTING FUNCTION

- When the driver's/passenger's door(s) is opened, the window of the opened door is lowered approx. 10 mm (0.39 in). Door is closed, door glass returns to the fully closed and closing operability and door glass airtightness are improved by this function.
- This function is operative while power window is locked.
- Opening and closing state of door is judged according to door switch ON or OFF position.
- Automatic window adjusting function is operative regardless of retractable hard top system state.

Non-operation condition

- Before automatic window adjusting function starts to lower door glass, door glass is 10 mm (0.39 in) or more open from the fully closed position.
- Door is closed while automatic window adjusting function is lowering door glass.

Component Parts Location

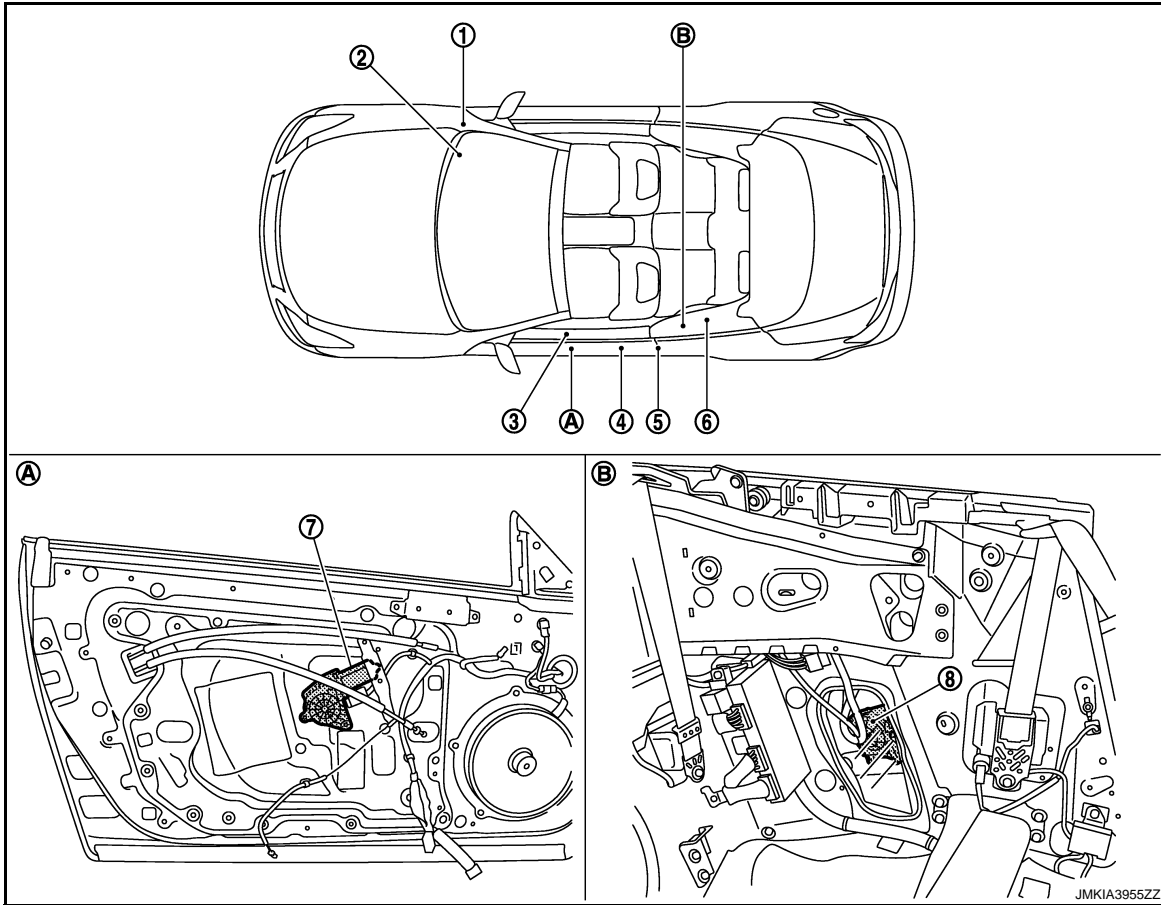
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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >



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|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. BCM M118,M119,M122,M123
Refer to BCS-5, "Component Parts Location" . | 2. Remote keyless entry receiver M104
Refer to DLK-16, "INTELLIGENT KEY SYSTEM : Component Parts Location" . | 3. Power window main switch D8,D9 |
| 4. Driver side door lock assembly (key cylinder switch) D15 | 5. Driver side door switch B16 | 6. Retractable hard top control unit B82,B83 Refer to RF-11, "Component Parts Location" . |
| 7. Driver side power window motor D10 | 8. Rear power window motor LH B653 | |
| A. View with dash side lower (passenger side) | B. View with door finisher removed | |

Component Description

INFOID:000000005627105

Component	Function
BCM	<ul style="list-style-type: none"> Supplies power supply to power window switches. Controls retained power.
Retractable hard top control unit	Refer to RF-13, "Component Description" .
Power window main switch	<ul style="list-style-type: none"> Directly controls all power window motor of all doors. Controls anti-pinch operation of power window.
Power window sub-switch	<ul style="list-style-type: none"> Controls anti-pinch operation of power window. Controls power window motor of passenger door.
Driver side power window motor	<ul style="list-style-type: none"> Integrates the ENCODER and WINDOW MOTOR. Start operating with signals from power window main switch. Transmits power window motor rotation as a pulse signal to power window switch.

POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

Component	Function
Passenger side power window motor	<ul style="list-style-type: none"> Integrates the ENCODER and WINDOW MOTOR. Start operating with signals from power window main switch & power window sub-switch. Transmits power window motor rotation as a pulse signal to power window switch.
Rear power window motor (LH & RH)	Start operating with signals from power window main switch.
Driver side door lock assembly (key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.
Door switch	Detects door open/close condition and transmits to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the intelligent key transmits to BCM.

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000005627106

APPLICATION ITEM

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

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: 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	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

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

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

- Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description
SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")
SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
LOCK>ACC	While turning power supply position from "LOCK" to "ACC"
ACC>ON	While turning power supply position from "ACC" to "IGN"
RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
ACC>OFF	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

IGN counter indicates the number of times that ignition switch is turned ON after DTC is detected.

- The number is 0 when a malfunction is detected now.
- The number increases like 1 → 2 → 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-III Function (BCM - RETAINED PWR)

INFOID:0000000005627107

Data monitor

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000005627108

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	K
11		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		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 MAIN SWITCH

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000005627109

1. CHECK POWER SUPPLY CIRCUIT

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Power window main switch connector	Terminal	Ground
D8	10	
D9	19	

Is the measurement value within the specification?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between power window main switch harness connector and ground.

Power window main switch connector	Terminal	Ground	Continuity
D9	17	Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

3.CHECK HARNESS CONTINUITY

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

BCM connector	Terminal	Power window main switch connector	Terminal	Continuity
M118	3	D8	10	Existed
	2	D9	19	

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M118	2	Ground	Not existed
	3		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

NO >> Repair or replace harness.

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:000000005627110

1.CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value within the specification?

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

2.CHECK GROUND CIRCUIT

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

Power window sub-switch connector	Terminal	Ground	Continuity
D38	11		Existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace harness.

3.CHECK HARNESS CONTINUITY

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

BCM connector	Terminal	Power window sub -switch connector	Terminal	Continuity
M118	2	D38	10	Existed

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M118	2		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).
NO >> Repair or replace harness.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005627111

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

DRIVER SIDE : Component Function Check

INFOID:000000005627112

1.CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Power window motor is OK.

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

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005627113

1.CHECK DRIVER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

Terminal		(-)	Power window main switch condition	Voltage (V) (Approx.)
(+)	Terminal			
Driver side power window motor connector D10	6	Ground	UP	Battery voltage
			DOWN	0
	3		UP	0
			DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Replace driver side power window motor. Refer to [GW-27, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

Check voltage between power window main switch connector and ground.

Terminal		(-)	Power window main switch condition	Voltage (V) (Approx.)
(+)	Terminal			
Power window main switch connector D8	8	Ground	UP	Battery voltage
			DOWN	0
	11		UP	0
			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power window main switch. Refer to [PWC-141, "Removal and Installation"](#).

3.CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Power window main switch connector	Terminal	Driver side power window motor connector	Terminal	Continuity
D8	8	D10	6	Existed
	11		3	

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

Power window main switch connector	Terminal	Ground	Continuity
D8	8		
	11		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-37, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005627114

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

PASSENGER SIDE : Component Function Check

INFOID:000000005627115

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

YES >> Power window motor is OK.

NO >> Refer to [PWC-18, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005627116

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

Terminal		Power window sub-switch condition	Voltage (V) (Approx.)
(+)	(-)		
Passenger side power window motor connector	Terminal		
D40	3	UP	Battery voltage
		DOWN	0
	6	UP	0
		DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Replace passenger side power window motor. Refer to [GW-27, "Removal and Installation"](#).

NO >> GO TO 2.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

2.CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

Terminal (+)		Terminal (-)	Power window sub-switch condition	Voltage (V) (Approx.)
Power window sub-switch connector	Terminal			
D38	9	Ground	UP	Battery voltage
			DOWN	0
	8		UP	0
			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power window sub-switch. Refer to [PWC-141, "Removal and Installation"](#).

3.CHECK HARNESS CONTINUITY

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

Power window sub-switch connector	Terminal	Passenger side power window motor connector	Terminal	Continuity
D38	9	D40	3	Existed
	8		6	

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-37, "Intermittent Incident"](#).

>> INSPECTION END

REAR LH

REAR LH : Description

INFOID:000000005627117

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

REAR LH : Component Function Check

INFOID:000000005627118

1.CHECK POWER WINDOW MOTOR CIRCUIT

Check rear power window motor LH operation with power window main switch.

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to [PWC-20, "REAR LH : Diagnosis Procedure"](#).

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

REAR LH : Diagnosis Procedure

INFOID:000000005627119

1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

Terminal		(-)	Power window main switch condition		Voltage (V) (Approx.)		
(+) Rear power window motor LH connector							
Terminal		Ground	Rear LH	UP	Battery voltage		
B653	1			Ground	Rear LH	DOWN	0
	2					UP	0
						DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Replace rear power window motor LH. Refer to [GW-16. "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK RETRACTABLE HARD TOP CONTROL UNIT OUTPUT SIGNAL

Check voltage between retractable hard top control unit connector and ground.

Terminal		(-)	Power window main switch condition		Voltage (V) (Approx.)		
(+) Retractable hard top control unit connector							
Terminal		Ground	Rear LH	UP	Battery voltage		
B83	53			Ground <td rowspan="4">Rear LH <td>DOWN</td> <td>0</td> </td>	Rear LH <td>DOWN</td> <td>0</td>	DOWN	0
	54					UP	0
						DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace retractable hard top control unit. Refer to [RF-303. "Removal and Installation"](#).

3. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect retractable hard top control unit connector.
3. Check continuity between retractable hard top control unit harness connector and rear power window motor LH harness connector.

Retractable hard top control unit connector	Terminal	Rear power window motor LH connector	Terminal	Continuity
B83	53	B653	1	Existed
	54		2	

4. Check continuity between retractable hard top control unit harness connector and ground.

Retractable hard top control unit connector	Terminal	Ground	Continuity	
B83	53		Ground	Not existed
	54			

Is the inspection result normal?

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-37. "Intermittent Incident"](#).

>> INSPECTION END

REAR RH

REAR RH : Description

INFOID:0000000005627120

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

REAR RH : Component Function Check

INFOID:0000000005627121

1. CHECK POWER WINDOW MOTOR CIRCUIT

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

Is the inspection result normal?

- YES >> Power window motor is OK.
NO >> Refer to [PWC-21. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:0000000005627122

1.CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect rear power window motor RH connector.
- Turn ignition switch ON.
- Check voltage between rear power window motor RH harness connector and ground.

Terminal		(-)	Power window main switch condition		Voltage (V) (Approx.)
(+)	Terminal				
Rear power window motor RH connector		Ground	Rear RH	UP	Battery voltage
	1			DOWN	0
	2			UP	0
B655				DOWN	Battery voltage

Is the measurement value within the specification?

- YES >> Replace rear power window motor LH. Refer to [GW-16. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK RETRACTABLE HARD TOP CONTROL UNIT OUTPUT SIGNAL

Check voltage between retractable hard top control unit connector and ground.

Terminal		(-)	Power window main switch condition		Voltage (V) (Approx.)
(+)	Terminal				
Retractable hard top con- trol unit connector		Ground	Rear RH	UP	Battery voltage
	55			DOWN	0
	56			UP	0
B83				DOWN	Battery voltage

Is the inspection result normal?

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POWER WINDOW MOTOR

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YES >> GO TO 3.

NO >> Replace retractable hard top control unit. Refer to [RF-303, "Removal and Installation"](#).

3. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect retractable hard top control unit connector.
3. Check continuity between retractable hard top control unit harness connector and rear power window motor RH harness connector.

Retractable hard top control unit connector	Terminal	Rear power window motor RH connector	Terminal	Continuity
B83	55	B655	1	Existed
	56		2	

4. Check continuity between retractable hard top control unit harness connector and ground.

Retractable hard top control unit connector	Terminal	Ground	Continuity
B83	55	Ground	Not existed
	56		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-37, "Intermittent Incident"](#).

>> INSPECTION END

DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH CIRCUIT DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000005627123

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:0000000005627124

1.CHECK FUNCTION

Check automatic window adjusting function.

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [PWC-23, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000005627125

1.CHECK DOOR SWITCH

Check door switch.Refer to [DLK-70, "Component Function Check"](#).

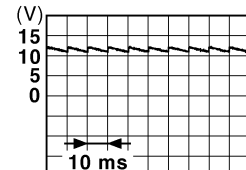
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Driver side power window main switch Connector	Terminal		
D8	5	Ground	 <p style="text-align: right; font-size: small;">JPMA0011GB</p>

Is the inspection result normal?

YES >> Replace power window main switch.Refer to [PWC-141, "Removal and Installation"](#).

NO >> GO TO 3.

3.CHECK DOOR SWITCH CIRCUIT

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

Power window main switch		Driver side door switch		Continuity
Connector	Terminal	Connector	Terminal	
D8	5	B16	2	Existed

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

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

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DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-37, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005627126

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000005627127

1.CHECK FUNCTION

Check automatic window adjusting function.

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Refer to [PWC-24, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005627128

1.CHECK DOOR SWITCH

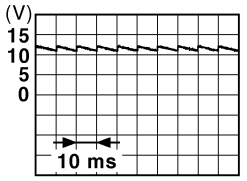
Check door switch.Refer to [DLK-70, "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK DOOR SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Power window sub-switch			
Connector	Terminal		
D38	14	Ground	 <p style="text-align: right;"><small>JPMIA0011GB</small></p>

Is the inspection result normal?

- YES >> Replace power window sub-switch.Refer to [PWC-141, "Removal and Installation"](#).
- NO >> GO TO 3.

3.CHECK DOOR SWITCH CIRCUIT

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

Power window sub-switch		Passenger side door switch		Continuity
Connector	Terminal	Connector	Terminal	
D38	14	B216	2	Existed

DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-37. "Intermittent Incident"](#).

>> INSPECTION END

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ENCODER

< DTC/CIRCUIT DIAGNOSIS >

ENCODER DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005627129

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

DRIVER SIDE : Component Function Check

INFOID:000000005627130

1. CHECK ENCODER OPERATION

Check driver side door glass perform AUTO open/close operation normally when power window main switch.
Is the inspection result normal?

- YES >> Encoder operation is OK.
NO >> Refer to [PWC-26, "DRIVER SIDE : Diagnosis Procedure"](#).

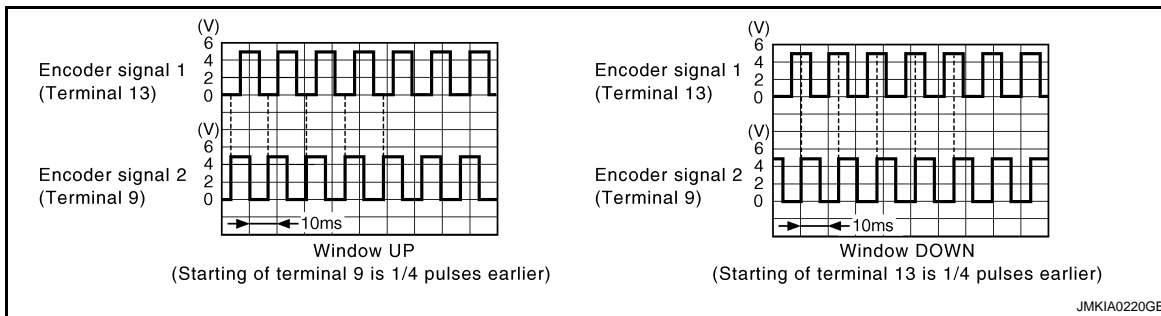
DRIVER SIDE : Diagnosis Procedure

INFOID:000000005627131

1. CHECK ENCODER OPERATION

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

Terminals		Signal (Reference value)
(+)	(-)	
Power window main switch connector	Terminal	Refer to following signal
D8	9	
	13	



Is the inspection result normal?

- YES >> GO TO 7.
NO >> GO TO 2.

2. CHECK ENCODER SIGNAL CIRCUIT

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

Power window main switch connector	Terminal	Driver side power window motor connector	Terminal	Continuity
D8	9	D10	5	Existed
	13		2	

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

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

Power window main switch connector	Terminal	Ground	Continuity
D8	9		
	13		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY CIRCUIT

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

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Driver side power window motor connector	Terminal	
D10	4	Ground

Is the measurement value within the specification?

YES >> GO TO 4.

NO >> GO TO 5.

4.CHECK GROUND CIRCUIT

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

Driver side power window motor connector	Terminal	Ground	Continuity
D10	1		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

5.CHECK HARNESS CONTINUITY 1

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

Power window main switch connector	Terminal	Driver side power window motor connector	Terminal	Continuity
D8	15	D10	4	Existed

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

Power window main switch connector	Terminal	Ground	Continuity
D8	15		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-141, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK HARNESS CONTINUITY 2

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

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< DTC/CIRCUIT DIAGNOSIS >

Power window main switch connector	Terminal	Driver side power window motor connector	Terminal	Continuity
D8	2	D10	1	Existed

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-141, "Removal and Installation"](#).
 NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-37, "Intermittent Incident"](#).

>> INSPECTION END.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005627132

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

PASSENGER SIDE : Component Function Check

INFOID:000000005627133

1.CHECK ENCODER OPERATION

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

Is the inspection result normal?

- YES >> Encoder operation is OK.
 NO >> Refer to [PWC-28, "PASSENGER SIDE : Diagnosis Procedure"](#).

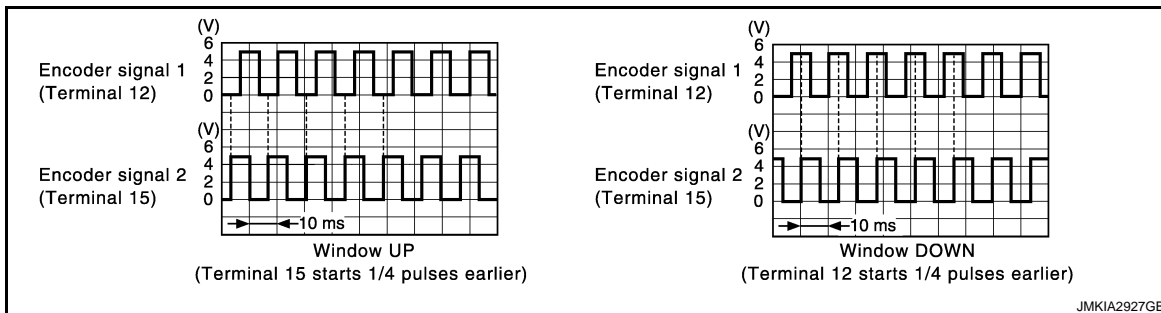
PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005627134

1.CHECK ENCODER SIGNAL

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

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



Is the inspection result normal?

- YES >> Replace power window sub-switch. Refer to [PWC-141, "Removal and Installation"](#).
 NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

- Turn ignition switch OFF.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

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	12	D40	2	Existed
	15		5	

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY CIRCUIT 1

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

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

Is the measurement value within the specification?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY CIRCUIT 2

1. Turn ignition switch OFF.
2. Disconnect power window sub-switch connector.
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	4	D40	4	Existed

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

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

Is the inspection result normal?

YES >> Replace power window sub-switch. Refer to [PWC-141, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK GROUND CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect power window sub-switch connector.

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ENCODER

< DTC/CIRCUIT DIAGNOSIS >

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	3	D40	1	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK GROUND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> Replace passenger side power window motor. Refer to [GW-27, "Removal and Installation"](#).

NO >> Replace power window sub-switch. Refer to [PWC-141, "Removal and Installation"](#).

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH

Description

INFOID:000000005627135

Power window main switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signals.

Component Function Check

INFOID:000000005627136

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to [DLK-50. "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)".](#)

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
 NO >> Refer to [PWC-31. "Diagnosis Procedure".](#)

Diagnosis Procedure

INFOID:000000005627137

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch ON.
- Check voltage between driver side door lock assembly (key cylinder switch) harness connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
Driver side door lock assembly (key cylinder switch) connector D15	6	Lock	0
		Neutral / Unlock	5
	5	Unlock	0
		Neutral / Lock	5

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> GO TO 2.

2.CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

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

Power window main switch connector	Terminal	(-)	Voltage (V) (Approx.)
D8	4	Ground	5
	6		

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Replace power window main switch. Refer to [PWC-141. "Removal and Installation".](#)

3.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector and driver side door key lock assembly (key cylinder switch) connector.
3. Check continuity between power window main switch harness connector and driver side door lock assembly (key cylinder switch) harness connector.

Power window main switch connector	Terminal	Driver side door lock assembly (key cylinder switch) connector	Terminal	Continuity
D8	4	D15	6	Existed
	6		5	

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

Power window main switch connector	Terminal	Ground	Continuity
D8	4	Ground	Not existed
	6		

Is the inspection result normal?

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

4. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between driver side door lock assembly (key cylinder switch) harness connector and ground.

Driver side door lock assembly (key cylinder switch) connector	Terminal	Ground	Continuity
D15	4	Ground	Existed

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Repair or replace harness.

5. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
 Refer to [PWC-32, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Replace driver side door lock assembly (key cylinder switch). Refer to [DLK-302, "DOOR LOCK : Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-37, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000005627138

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect driver side door lock assembly (key cylinder switch) connector.
3. Check driver side door lock assembly (key cylinder switch).

Terminal	Key position	Continuity
Driver side door lock assembly (key cylinder switch) connector		

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5	4	Unlock	Existed
		Neutral / Lock	Not existed
6		Lock	Existed
		Neutral / Unlock	Not existed

A
B

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace driver side door lock assembly (key cylinder switch). Refer to [DLK-302. "DOOR LOCK : Removal and Installation"](#).

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005897731

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III 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/AUTO	Off
	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume 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
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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	Other than driver door key cylinder LOCK position	Off	E
	Driver door key cylinder LOCK position	On	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off	F
	Driver door key cylinder UNLOCK position	On	
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	G
HAZARD SW	Hazard switch is OFF	Off	H
	Hazard switch is ON	On	
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	I
H/L WASH 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	
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off	N
	LOCK button of the Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off	O
	UNLOCK button of the Intelligent Key is pressed	On	
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off	P
	TRUNK OPEN button of the Intelligent Key is pressed	On	
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off	P
	PANIC button of the Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off	P
	UNLOCK button of the Intelligent Key is pressed and held	On	
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off	P
	LOCK/UNLOCK button of the 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	
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	P

PWC

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 -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	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	The clutch pedal is not depressed	Off
	The clutch pedal is depressed	On
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	<ul style="list-style-type: none"> • Selector lever in P position (Except M/T models) • The clutch pedal is depressed (M/T models) 	Off
	<ul style="list-style-type: none"> • Selector lever in any position other than P (Except M/T models) • The clutch pedal is not depressed (M/T models) 	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector 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	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	<ul style="list-style-type: none"> • Selector lever in any position other than P and N (Except M/T models) • The clutch pedal is not depressed (M/T models) 	Off
	<ul style="list-style-type: none"> • Selector lever in P or N position • The clutch pedal is depressed 	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector 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 are not 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 (60 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	H
	Wait with selective UNLOCK operation (60 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	The Intelligent Key is not inserted into key slot	Off	
	The Intelligent Key is inserted into key slot	On	L
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key	
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	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)

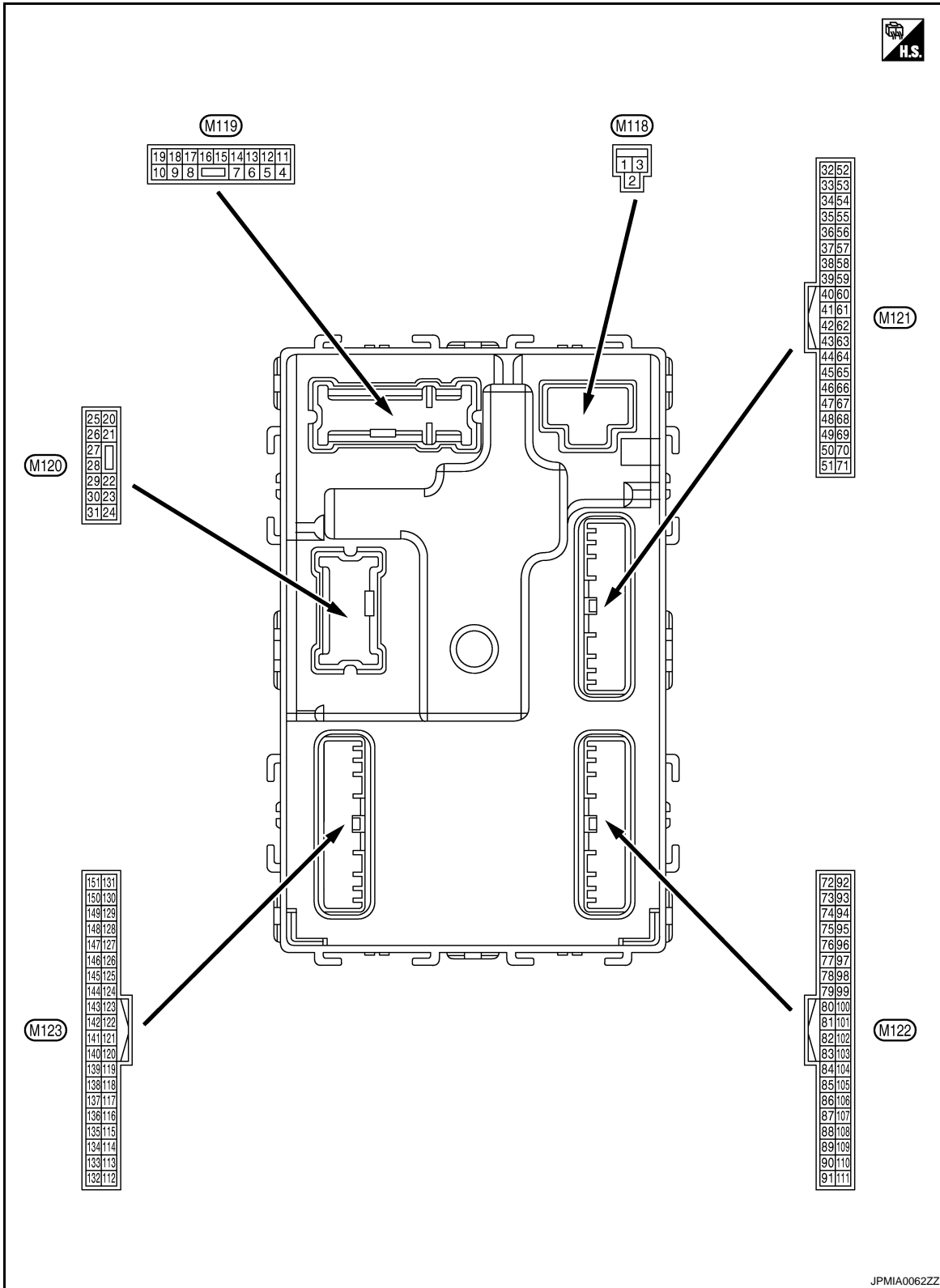
< ECU DIAGNOSIS INFORMATION >

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
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



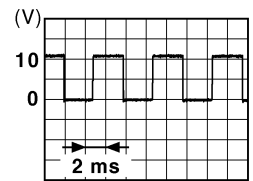
PHYSICAL VALUES

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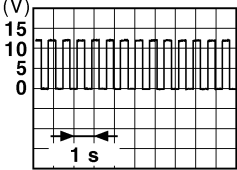
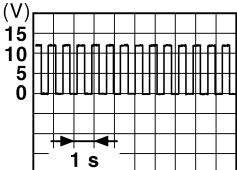
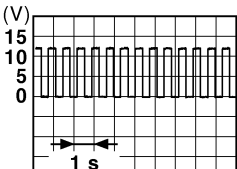
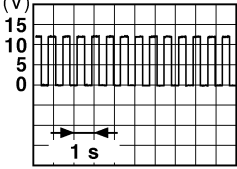
BCM (BODY CONTROL MODULE)

< 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 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
4 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
5 (P)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
7 (SB)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	12 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					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)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p style="text-align: center;">NOTE: When the illumination brightening/dimming level is in the neutral position.</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

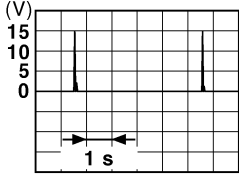
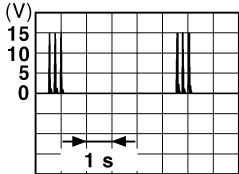
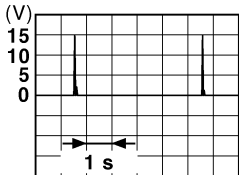
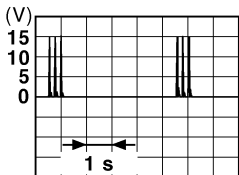
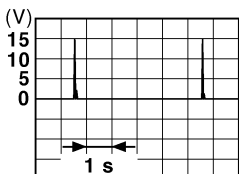
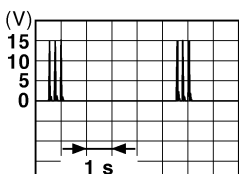
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
17 (BR)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
					ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
23 (Y)	Ground	Trunk lid open	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V
					Other than OPEN (Trunk lid opener actuator is not activated)	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
30 (P)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0 V
					OFF	12 V

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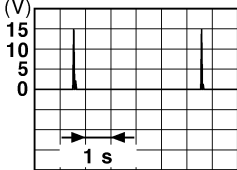
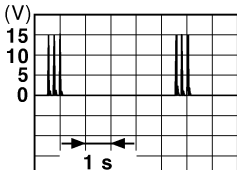
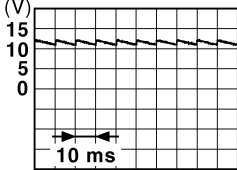
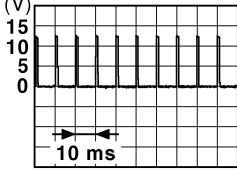
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (SB)	Ground	Trunk room antenna (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment  <small>JMKIA0062GB</small>
				Ignition switch OFF	When Intelligent Key is not in the passenger compart- ment  <small>JMKIA0063GB</small>
35 (V)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment  <small>JMKIA0062GB</small>
				Ignition switch OFF	When Intelligent Key is not in the passenger compart- ment  <small>JMKIA0063GB</small>
38 (B)	Ground	Rear bumper anten- na (-)	Output	When the trunk lid opener re- quest switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area  <small>JMKIA0062GB</small>
				When the trunk lid opener re- quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area  <small>JMKIA0063GB</small>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

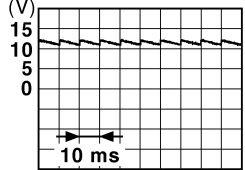
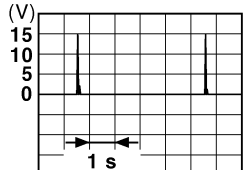
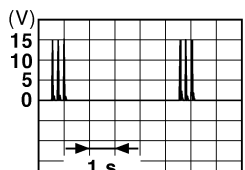
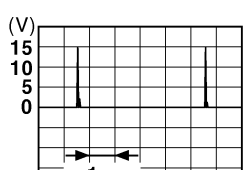
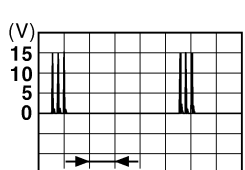
Terminal No. (Wire color)		Description		Condition	Value (Approx.)				
		Signal name	Input/ Output						
+	-								
39 (W)	Ground	Rear bumper antenna (+)	Output	When Intelligent Key is in the antenna detection area	 <small>JMKIA0062GB</small>				
				When the trunk lid opener request switch is operated with ignition switch OFF	 <small>JMKIA0063GB</small>				
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">OFF or ACC</td> <td style="text-align: center;">12 V</td> </tr> <tr> <td style="text-align: center;">ON</td> <td style="text-align: center;">0 V</td> </tr> </table>	OFF or ACC	12 V	ON	0 V
				OFF or ACC	12 V				
ON	0 V								
50 (G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	 <small>JPMIA0011GB</small>				
				OFF (Trunk lid is closed)	11.8 V				
				ON (Trunk lid is opened)	0 V				
52 (BR)	Ground	Starter relay control	Output	Ignition switch ON (A/T models)	12 V				
				When selector lever is in P or N position	0 V				
				When selector lever is not in P or N position	0 V				
				Ignition switch ON (M/T models)	Battery voltage				
				When the clutch pedal is depressed	0 V				
				When the clutch pedal is not depressed	0 V				
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid opener request switch	 <small>JPMIA0016GB</small>				
				ON (Pressed)	0 V				
				OFF (Not pressed)	1.0 V				
64 (G)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Sounding</td> <td style="text-align: center;">0 V</td> </tr> <tr> <td style="text-align: center;">Not sounding</td> <td style="text-align: center;">12 V</td> </tr> </table>	Sounding	0 V	Not sounding	12 V
				Sounding	0 V				
Not sounding	12 V								

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PWC

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er 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)

< ECU DIAGNOSIS INFORMATION >

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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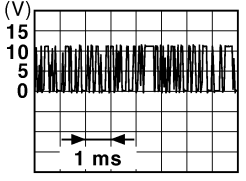
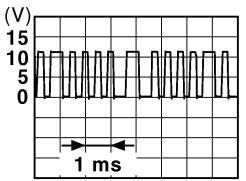
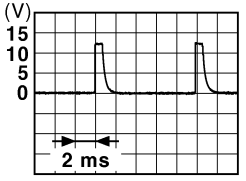
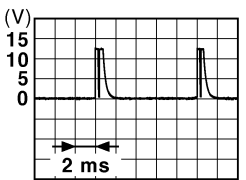
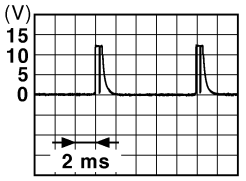
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
77 (LG)	Ground	Driver door antenna (+)	Output	When 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>
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	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>
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	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)

< ECU DIAGNOSIS INFORMATION >


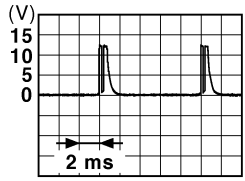
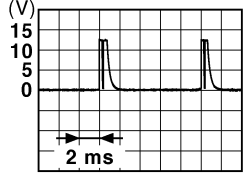
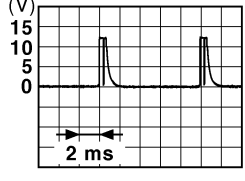
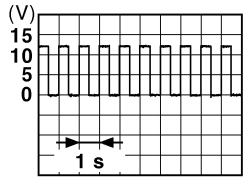
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC ON	0 V 12 V
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 the Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>
87 (Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Front fog lamp switch ON (Wiper volume 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 volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume 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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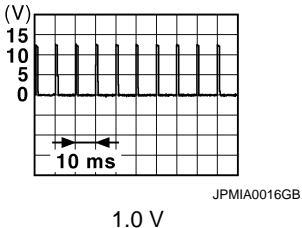
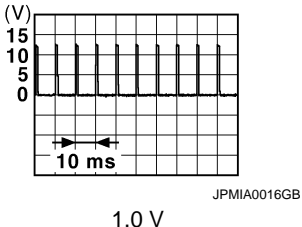
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
88 (BG)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch HI (Wiper volume dial 4)	 <small>JPMIA0036GB</small> 1.3 V
					Lighting switch 2ND (Wiper volume dial 4)	 <small>JPMIA0037GB</small> 1.3 V
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 	 <small>JPMIA0040GB</small> 1.3 V
89 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition 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	0 V
					Blinking	 <small>JPMIA0015GB</small> 6.5 V
					ON	12 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

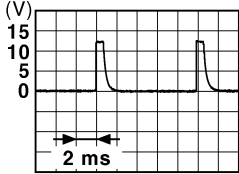




Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—		12 V
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	12 V
98 (SB)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	12 V
					UNLOCK status	0 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	12 V
		ASCD clutch switch (M/T models without ICC)		ASCD clutch switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	12 V
		ICC clutch switch (M/T models with ICC)		ICC clutch switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	12 V
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	
102 (BG)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		12 V
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V

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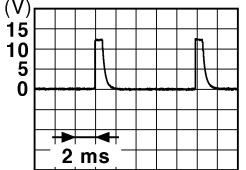

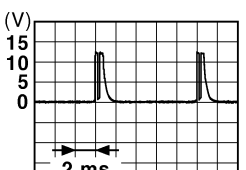
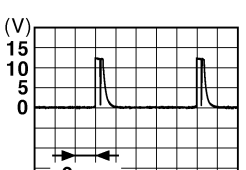
BCM (BODY CONTROL MODULE)

< 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 volume 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 >

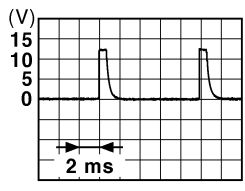
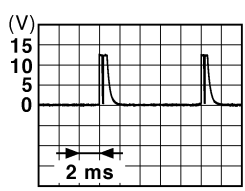
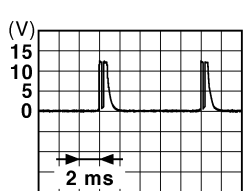
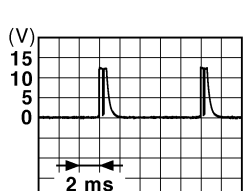
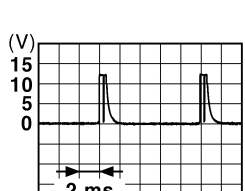
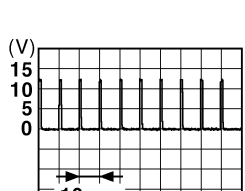
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 <p style="text-align: right;">1.4 V</p>
					Lighting switch AUTO (Wiper volume dial 4)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

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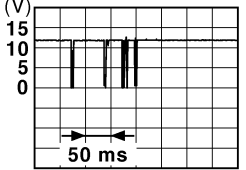
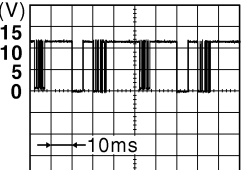
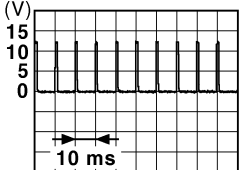
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	All switches OFF	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch INT/ AUTO	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch HI	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p> <p style="text-align: center;">1.1 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

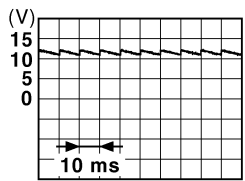
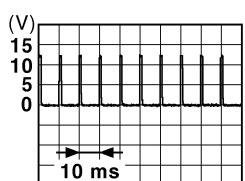
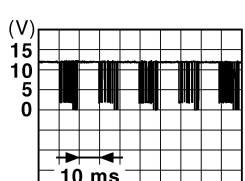
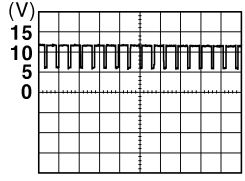
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	12 V
					LOCK or UNLOCK	 <small>JMKIA0066GB</small>
					For 15 seconds after UN- LOCK	12 V
				15 seconds or later after UNLOCK	0 V	
112 (BR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON	 <small>JPMIA0156GB</small>	
					8.7 V	
113 (G)	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
114 (R)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (Clutch pedal is not depressed)	0 V
					ON (Clutch pedal is de- pressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input	—	Battery voltage	
118 (BR)	Ground	Stop lamp switch 2 (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF	0 V	
				Stop lamp switch ON (Brake pedal is de- pressed) or ICC brake hold relay ON	Battery voltage	
119 (GR)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 <small>JPMIA0012GB</small>
					UNLOCK status (Unlock switch sensor ON)	1.1 V
					0 V	

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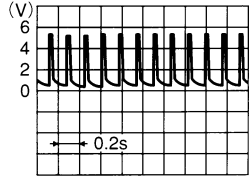
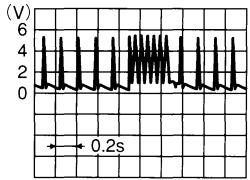
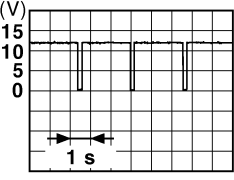
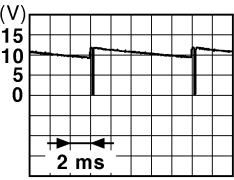
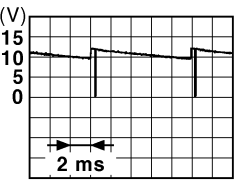
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
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121 (SB)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot	12 V	
				When the Intelligent Key is not inserted into key slot	0 V	
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 <small>JPMIA0011GB</small> 11.8 V
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 <small>JPMIA0012GB</small> 1.1 V
					ON	0 V
132 (LG)	Ground	Power window switch and R.H.T. control unit communication	Input/ Output	Ignition switch ON	 <small>JPMIA0013GB</small> 10.2 V	
				Ignition switch OFF or ACC	12 V	
133 (Y)	Ground	Push-button ignition switch illumination	Output	ON (Tail lamps OFF)	9.5 V	
				ON (Tail lamps ON)	<p style="text-align: center;">NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.</p>  <small>JPMIA0159GB</small>	
				OFF	0 V	
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
				ON	0 V	
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

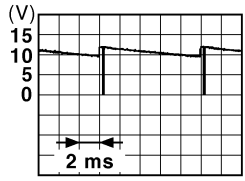
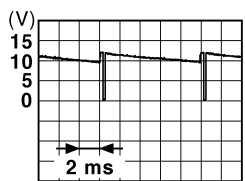
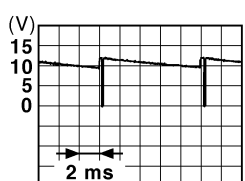
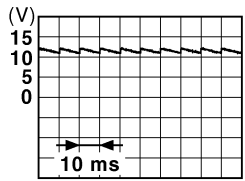
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
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138 (Y)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
140 (GR)	Ground	Selector lever P/N position (A/T models)	Input	Selector lever	P or N position	12 V
					Except P and N positions	0 V
141 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	ON	0 V
					Blinking	 JPMA0014GB
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 JPMA0031GB
Lighting switch HI						
Lighting switch 2ND						
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Turn signal switch RH	10.7 V
					All switches OFF (Wiper volume dial 4)	0 V
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Front wiper switch HI (Wiper volume dial 4)	 JPMA0032GB
					Any of the conditions below with all switches OFF	
					<ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 • Wiper volume dial 6 • Wiper volume dial 7 	

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BCM (BODY CONTROL MODULE)

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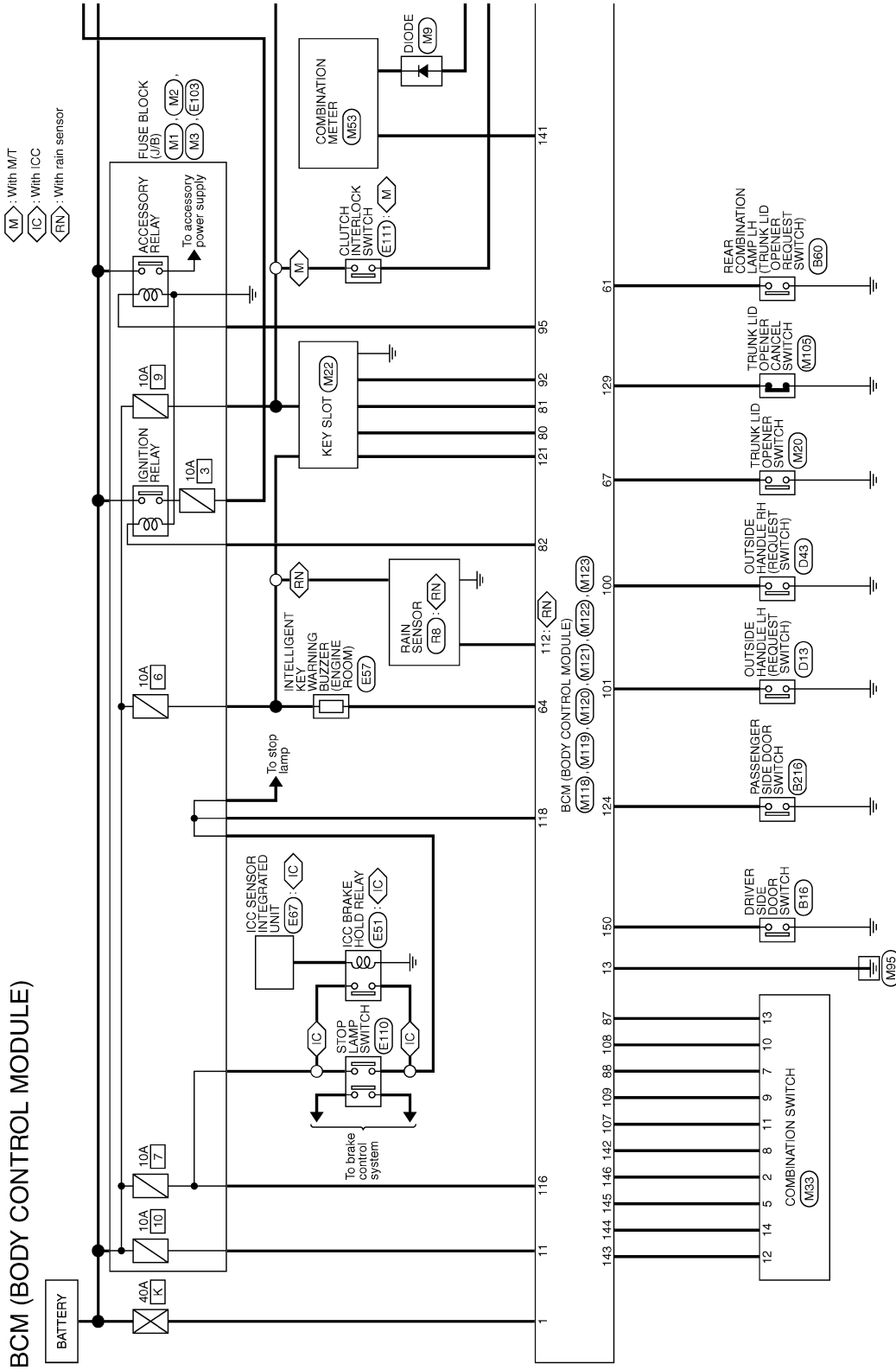
Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V	
					Front washer switch ON (Wiper volume dial 4)		
					Any of the conditions below with all switches OFF		<ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6
10.7 V							
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V	
					Front wiper switch INT/ AUTO		
					Front wiper switch LO		
					Lighting switch AUTO		
10.7 V							
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V	
					Front fog lamp switch ON		
					Lighting switch 2ND		
					Lighting switch PASS		
					Turn signal switch LH		
10.7 V							
149 (W)	Ground	Tire pressure warning check switch	Input		—	12 V	
150 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)		
					ON (Door open)		11.8 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V	
					Not activated	Battery voltage	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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JCMWM6284GI

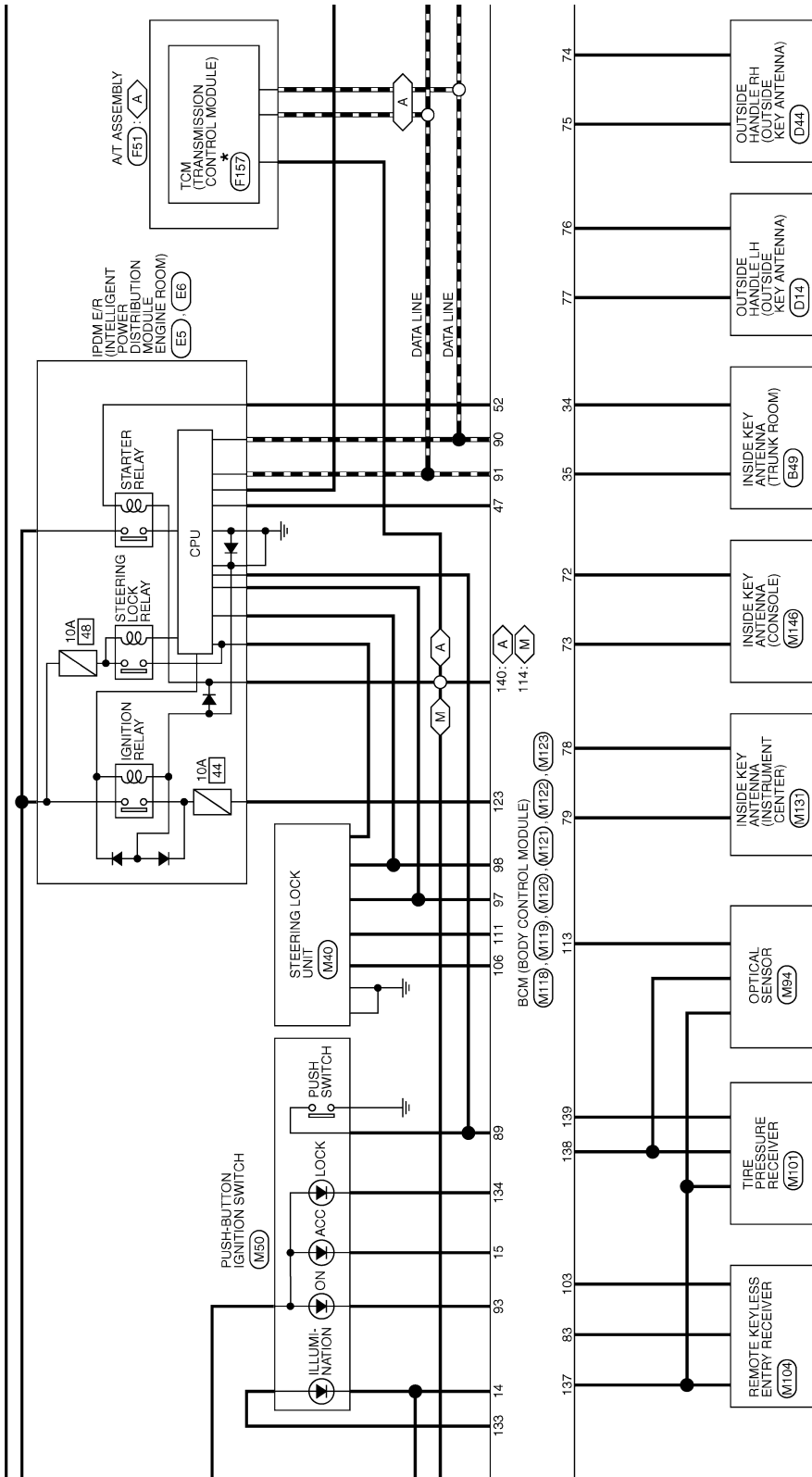
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BCM (BODY CONTROL MODULE)

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Ⓐ : With A/T
 Ⓜ : With M/T

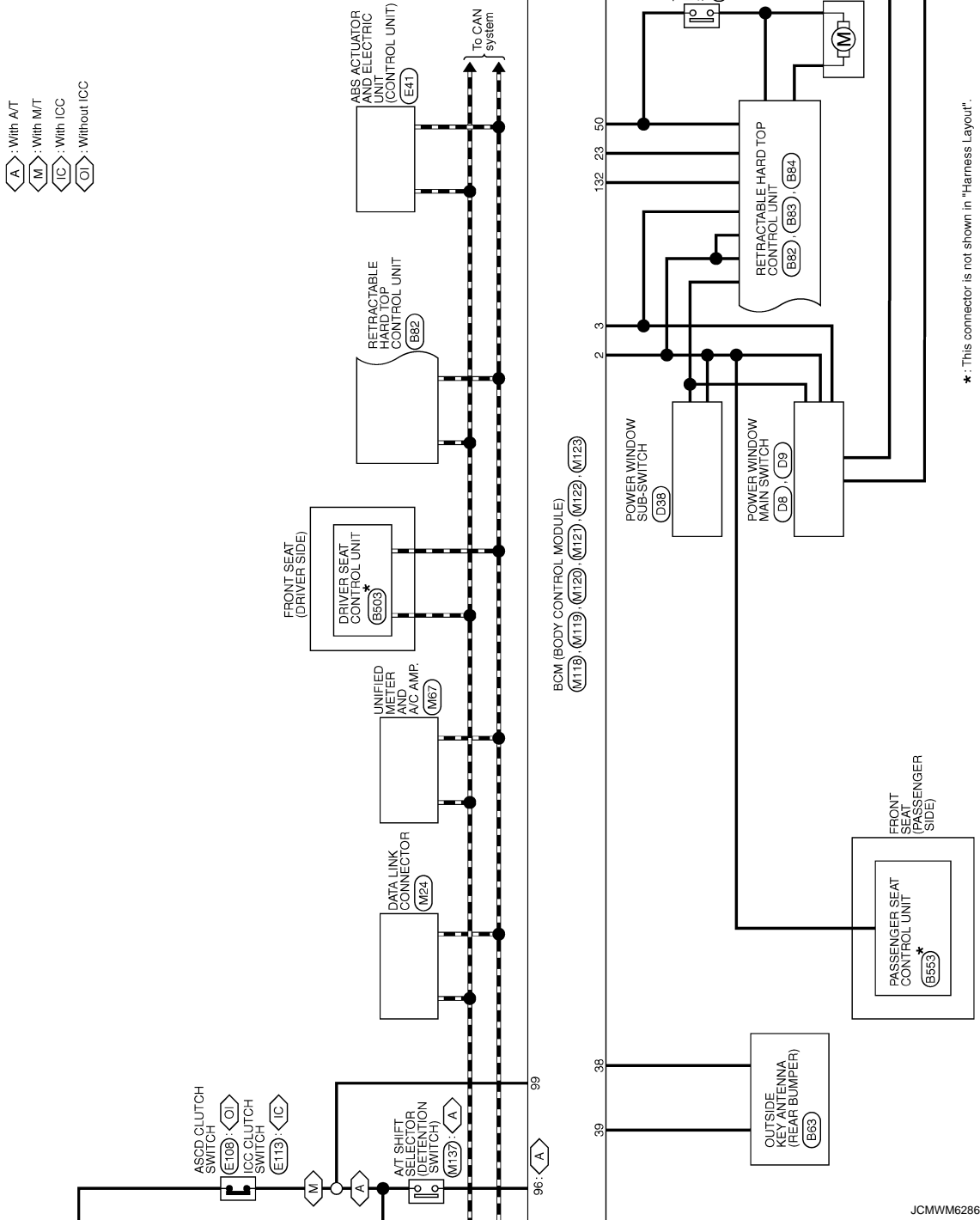


*: This connector is not shown in "Harness Layout".

JCMWM6285G

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

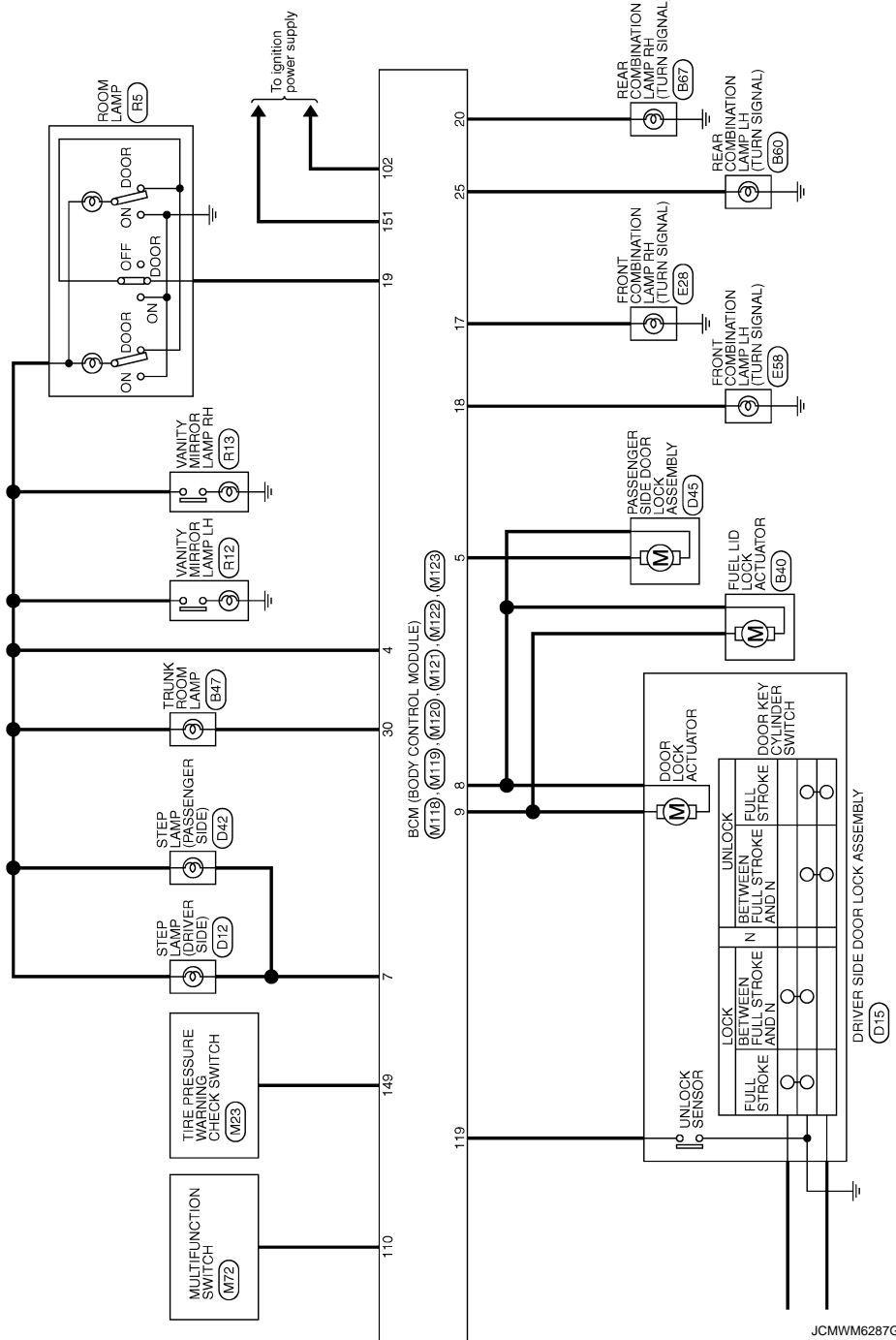


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BCM (BODY CONTROL MODULE)

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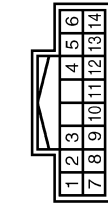
JCMWM6287G

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



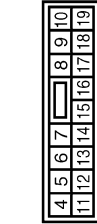
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	FR WASHER (-)
2	SB	OUTPUT 4
5	L	OUTPUT 3
6	B	GND
7	EG	INPUT 3
8	BR	OUTPUT 5
9	W	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	V	OUTPUT 1
13	Y	INPUT 5
14	G	OUTPUT 2

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LG



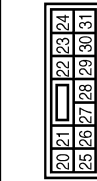
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	EG	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FF-CS



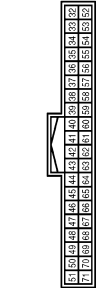
Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	GR	BAT (FUSE)
13	B	GND
14	W	PUSH BUTTON IGNITION SW ILL GND
15	EG	ACC IND
17	BR	TURN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

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



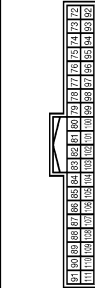
Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	Y	TRUNK LID OPEN OUTPUT
25	Y	TURN SIGNAL LH (REAR)
30	P	TRUNK ROOM LAMP

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
34	SB	TRUNK ROOM ANT-
35	V	TRUNK ROOM ANT+
38	B	REAR BUMPER ANT-
39	W	REAR BUMPER ANT+
47	Y	IGN RELAY (BDM E/P) CONT
50	G	TRUNK ROOM LAMP SW
52	BR	STARTER RELAY CONT
61	SB	TRUNK LID OPENER REQUEST SW
64	G	F-KEY WARN BUZZER (ENG ROOM)
67	GR	TRUNK LID OPENER SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTENNA AMP
81	W	NATS ANTENNA AMP
82	R	IGN RELAY (E/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM

87	Y	COMBI SW INPUT 5
88	EG	COMBI SW INPUT 3
89	BR	FUSE SW
90	P	CAN-H
91	L	CAN-L
92	LG	KEY SLOT ILL
93	V	ON IND
95	EG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHIFT P (With A/T)
99	R	ASCD/ICC CLUTCH SW (With M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	EG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	S/L UNIT POWER SUPPLY 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

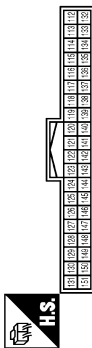
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BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)	
Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-1N1



Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN P/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	LG	P/W SW & PRT C/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
148	W	TIRE PRESSURE WARN CHECK SW
149	R	DRIVER DOOR SW
150	R	REAR WINDOW DEFROGGER RELAY CONT
151	G	REAR WINDOW DEFROGGER RELAY CONT

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Fail-safe

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FAIL-SAFE CONTROL BY DTC

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

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	A
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	B
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	C
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	D
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 	E
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN) 	F
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 • Selector lever P position switch signal: Except P position (12 V) • Vehicle speed: 4 km/h (2.5 MPH) or more 	G
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 • Selector lever P position switch signal: Except P position (12 V) • Selector lever P/N position signal: Except P and N positions (0 V) 	H
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 - Selector lever P/N position signal: P and N position (12 V) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF 	I
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"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (12 V) - PNP switch signal (CAN): ON 	J
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) 	K
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) 	L

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BCM (BODY CONTROL MODULE)

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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 (12 V) • 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
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)
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 (12 V)

DTC Inspection Priority Chart

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<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)

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Priority	DTC	A
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: BCMC • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E8: CLUTCH SW • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED 	B C D E F G H I J
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1734: CONTROL UNIT 	PWC L M
6	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA 	N O P

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 [BCS-15. "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)".](#)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	BCS-34
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-35
U0415: VEHICLE SPEED	—	—	—	—	BCS-36
B2013: ID DISCORD BCM-S/L	×	×	—	—	SEC-46
B2014: CHAIN OF S/L-BCM	×	×	—	—	SEC-47
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-38
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-41
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-42
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-44
B2195: ANTI-SCANNING	×	—	—	—	SEC-45
B2553: IGNITION RELAY	—	×	—	—	PCS-48
B2555: STOP LAMP	—	×	—	—	SEC-50
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-52
B2557: VEHICLE SPEED	×	×	×	—	SEC-54
B2560: STARTER CONT RELAY	×	×	×	—	SEC-55
B2562: LOW VOLTAGE	—	×	—	—	BCS-37
B2601: SHIFT POSITION	×	×	×	—	SEC-56
B2602: SHIFT POSITION	×	×	×	—	SEC-59
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-61
B2604: PNP/CLUTCH SW	×	×	×	—	SEC-64
B2605: PNP/CLUTCH SW	×	×	×	—	SEC-66
B2606: S/L RELAY	×	×	×	—	SEC-68
B2607: S/L RELAY	×	×	×	—	SEC-69
B2608: STARTER RELAY	×	×	×	—	SEC-71
B2609: S/L STATUS	×	×	×	—	SEC-73
B260A: IGNITION RELAY	×	×	×	—	PCS-50
B260B: STEERING LOCK UNIT	—	×	×	—	SEC-77
B260C: STEERING LOCK UNIT	—	×	×	—	SEC-78
B260D: STEERING LOCK UNIT	—	×	×	—	SEC-79
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-80
B2612: S/L STATUS	×	×	×	—	SEC-85
B2614: BCM	—	×	×	—	PCS-52
B2615: BCM	—	×	×	—	PCS-55
B2616: BCM	—	×	×	—	PCS-58
B2617: BCM	×	×	×	—	SEC-89
B2618: BCM	×	×	×	—	PCS-61
B2619: BCM	×	×	×	—	SEC-91
B261A: PUSH-BTN IGN SW	—	×	×	—	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-92

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2621: INSIDE ANTENNA	—	×	—	—	DLK-61
B2622: INSIDE ANTENNA	—	×	—	—	DLK-63
B2623: INSIDE ANTENNA	—	×	—	—	DLK-65
B26E8: CLUTCH SW	×	×	×	—	SEC-81
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	—	SEC-83
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-84
C1704: LOW PRESSURE FL	—	—	—	×	WT-26
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-28
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-31
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-33
C1734: CONTROL UNIT	—	—	—	×	WT-35

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RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP CONTROL UNIT

Reference Value

INFOID:000000005897736

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Status/Value	
LATCH LOCK SEN	State of roof latch	Lock	ON
		Other than above	OFF
		Roof latch lock sensor circuit is short	NG
LATCH STATE SEN	State of roof latch motor	Operate	ON ↔ OFF
		Stop	ON or OFF
		Roof latch lock sensor circuit is short	NG
LATCH OUT(ULK)	Operation of roof latch motor	Unlock is in operation	ON
		Other than above	OFF
		Roof latch motor (UNLOCK) circuit is short	NG
LATCH OUT(LCK)	Operation of roof latch motor	Lock is in operation	ON
		Other than above	OFF
		Roof latch motor (LOCK) circuit is short	NG
LATCH VALUE	State of roof latch	Lock	0
		Halfway position	1-77
		Unlock	78 or more
LATCH LIMIT SW	State of roof latch	Roof is fully close and roof latch is in LOCK	CLOSE
		Other than above	OPEN
LATCH STATE	State of roof latch	Initialization is not complete	NG
		LOCK	CLOSE
		Halfway position	MID
		UNLOCK	OPEN
PS VALUE(DRAW)	State of parcel shelf	Top	Retractable hard top fully open state: 2246 Retractable hard top fully closed state: 2220
		Bottom	1000
PS VALUE(ROTA)	State of parcel shelf	Vertical	3190
		Horizontal	Retractable hard top fully open state: 1340 Retractable hard top fully closed state: 1000
PS OUT(UP)	Operation of parcel shelf	Up operation is in operation	ON
		Other than above	OFF
		Parcel shelf (UP) circuit is short	NG
PS OUT(DOWN)	Operation of parcel shelf	DOWN operation is in operation	ON
		Other than above	OFF
		Parcel shelf (DOWN) circuit is short	NG
PS OUT(VERT)	Operation of parcel shelf	Vertical operation is in operation	ON
		Other than above	OFF
		Parcel shelf (VERTICAL) circuit is short	NG

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Monitor Item	Condition		Status/Value
PS OUT(HORI)	Operation of parcel shelf	Horizontal operation is in operation	ON
		Other than above	OFF
		Parcel shelf (HORIZONTAL) circuit is short	NG
PS STATE(DRAW)	State of parcel shelf	For the details, refer to RF-33. "PARCEL SHELF FUNCTION : System Description"	1-6
		State of parcel shelf status sensor (DRAW) is not recognized	NG
PS STATE(ROTA)	State of parcel shelf	For the details, refer to RF-33. "PARCEL SHELF FUNCTION : System Description"	1-4
		State of parcel shelf status sensor (ROTATE) is not recognized	NG
ROOF VALUE	Roof status sensor signal		0-1023
PUMP OUT(RH)	Operation of hydraulic pump motor	Turning clockwise	ON
		Other than above	OFF
		Hydraulic pump motor (RH) circuit is short	NG
PUMP OUT(LH)	Operation of hydraulic pump motor	Turning counterclockwise	ON
		Other than above	OFF
		Hydraulic pump motor (LH) circuit is short	NG
SWITCH VLV 1 OUT	Operation of switching valve 1	Operate	ON
		Stop	OFF
		Switching valve 1 circuit is short	NG
SWITCH VLV 2 OUT	Operation of switching valve 2	Operate	ON
		Stop	OFF
		Switching valve 2 circuit is short	NG
ROOF STATE	State of roof	For the details, refer to RF-16. "RETRACTABLE HARD TOP SYSTEM : System Description"	1-42
		State of roof is not recognized	NG
HYDRAULIC STATE	State of hydraulic system	For the details, refer to RF-27. "HYDRAULIC SYSTEM CONTROL FUNCTION : System Description"	1-22
		State of hydraulic system is not recognized	NG
ROOF SW(OPEN)	State of roof open/close switch	OPEN operation is in operation	ON
		Other than above	OFF
ROOF SW(CLOSE)	State of roof open/close switch	CLOSE operation is in operation	ON
		Other than above	OFF
ROOF LINK STATE	State of roof link	For the details, refer to RF-27. "HYDRAULIC SYSTEM CONTROL FUNCTION : System Description"	1-8
		State of roof is not recognized	NG
TRUNK LINK SEN(RH)	State of trunk link lock (RH)	LOCK	ON
		Other than above	OFF
		Trunk link lock (RH) circuit is short or open	NG
TRUNK LINK SEN(LH)	State of trunk link lock (LH)	LOCK	ON
		Other than above	OFF
		Trunk link lock (LH) circuit is short or open	NG
TR ROOM LAMP SW	State of trunk lid (trunk room lamp switch)	Open	ON
		Other than above	OFF

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Monitor Item	Condition	Status/Value	
TRUNK STATUS SEN	State of trunk lid	Fully OPEN	ON
		Other than above	OFF
		Trunk status sensor circuit is short or open	NG
TRUNK OPEN OUT	Operation of trunk lid opener actuator	OPEN operation is in operation	ON
		Other than above	OFF
		Trunk lid opener actuator circuit is short	NG
FLPD LIMIT SW(DWN)	State of flipper door	Both of flipper door (LH/RH) are in DOWN position	ON
		Other than above	OFF
FLPD LIMIT SW(UP)	State of flipper door	Both of flipper door (LH/RH) are in UP position	ON
		Other than above	OFF
FLPD OUT(UP)	Operation of flipper door	UP operation is in operation	ON
		Other than above	OFF
		Flipper door motor (UP) circuit is short	NG
FLPD OUT(DWN)	Operation of flipper door	DOWN operation is in operation	ON
		Other than above	OFF
		Flipper door motor (DOWN) circuit is short	NG
FLPD STATE	State of flipper door	For the details, refer to RF-35. "FLIPPER DOOR FUNCTION : System Description"	1, 2, 4
		State of flipper door is not recognized	NG
R WIN LH OUT(UP)	Operation of rear power window (LH)	UP operation is in operation	ON
		Other than above	OFF
		Rear power window LH (UP) circuit is short	NG
R WIN LH OUT(DWN)	Operation of rear power window (LH)	DOWN operation is in operation	ON
		Other than above	OFF
		Rear power window LH (DOWN) circuit is short	NG
R WIN RH OUT(UP)	Operation of rear power window (RH)	UP operation is in operation	ON
		Other than above	OFF
		Rear power window RH (UP) circuit is short	NG
R WIN RH OUT(DWN)	Operation of rear power window (RH)	DOWN operation is in operation	ON
		Other than above	OFF
		Rear power window RH (DOWN) circuit is short	NG
REAR DEF ON SIG	State of rear window defogger switch	While operating	ON
		Stop	OFF
REAR DEF OUT	State of rear window defogger system	Operate	ON
		Stop	OFF
		Rear window defogger circuit is short	NG
R WIN CURENT(LH)	Current value to rear power window motor (LH)	0-25.5 (A)	
R WIN CURENT(RH)	Current value to rear power window motor (RH)	0-25.5 (A)	
RR WIN STATE(LH)	State of rear power window (LH)	Upper	UP
		Halfway	MID
		Lower end	DOWN

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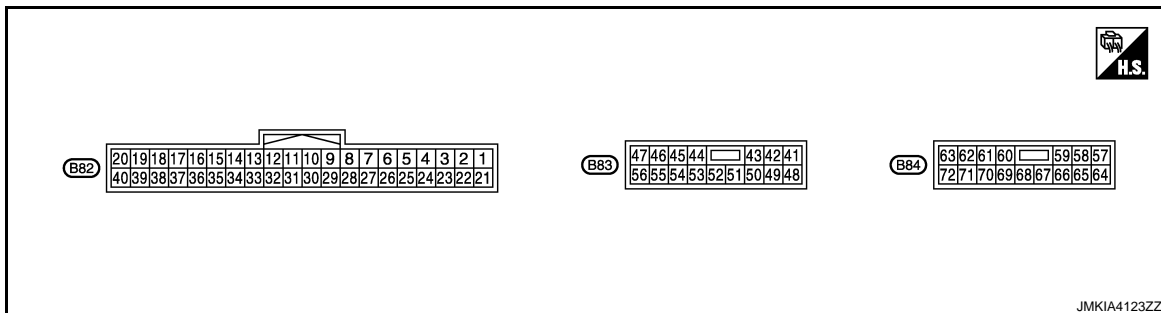
Monitor Item	Condition		Status/Value	
RR WIN STATE(RH)	State of rear power window (RH)	Upper	UP	A
		Halfway	MID	
		Lower end	DOWN	B
RAP SIGNAL	State of RAP	Operate	ON	
		Stop	OFF	
TR MODE SIGNAL	State of trunk mode signal	Output	ON	C
		Stop	OFF	
ROOF STATE(AUDIO)	State of roof	State of fully open	ON	D
		Other than above	OFF	
		Roof state signal (audio) circuit is short	NG	
ROOF BUZZER OUT	State of roof warning buzzer	Operate	ON	E
		Stop	OFF	
		Roof warning buzzer circuit is short	NG	F
LOCAL COMM 1	State of local communication 1	Normal	OK	
		It is in sleep mode	SLEEP	
		Communication error	NG	G
LOCAL COMM 2	State of local communication 2	Normal	OK	
		It is in sleep mode	SLEEP	
		Communication error	NG	H
ROOF MODE	Roof operation mode	Normal	OK	
		Only close operation is possible	CLOSE	I
		Operation is stop	STOP	
		Operation is inhibited	NG	
POP-UP BAR DPLOY	State of pop-up bar	Normal	OK	J
		State of deployment	NG	
POP-UP BAR DIAG	Self-diagnosis result of pop-up bar	Normal	OK	PWC
		Malfunctioning is detected	NG	
SWITCH VLV COND	Diagnosis result of retractable hard top control unit	Diagnosis result of retractable hard top control unit	OK	L
		Switching valve (1/2) system is malfunctioning	NG	
PWR SOURCE COND	Power supply voltage state of retractable hard top control unit	Normal	OK	M
		Malfunction	NG	
CPU COND	Diagnosis result of retractable hard top control unit	CPU is normal	OK	N
		CPU is not normal	NG	
ROOF COND	Diagnosis result of retractable hard top control unit	Roof position is normal	OK	O
		Roof position is not normal	NG	
SENSOR COND	Diagnosis result of retractable hard top control unit	Hole sensor system is normal	OK	
		Hole sensor system is not normal	NG	P
IGN ON SIG(BCM)	Power position signal (via CAN from BCM)	ON	OK	
		Other than above	NG	
VHCL STOP-METER	Vehicle speed signal (via CAN from meter and A/C amp.)	0km/h	OK	
		Other than above	NG	

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Monitor Item	Condition	Status/Value
CIRCUIT COND	Diagnosis result of retractable hard top control unit	Circuit system is normal
		Circuit system is not normal
ROOF TIMEOUT	State of roof operation	Normal
		Malfunction
CAN COMM	CAN communication status	Normal
		Malfunction
THERMO PROTECT 1	Thermo protection (Stage1)	In non-operation
		In operation
SHIFT R SIG	Shift position	Other than R position
		R position
PRMIT ENG ST(BCM)	Permit engine start signal	Signal is not received
		Signal is in receiving
THERMO PROTECT-2	Thermo protection (Stage2)	In non-operation
		In operation
TONNEAU SW	Tonneau board	Set
		Other than above
BRK LAMP SW(BCM)	Brake lamp switch signal (via CAN from BCM)	Brake is depressed
		Brake is released
THERMO VALUE	Conversion value of thermo protection	0-65535
PWR SOURCE VALUE	Power supply voltage value of retractable hard top control unit	0-20 (V)
ROOF INITIAL(OPEN)	State of performing roof position initialization	Registration of full open position is complete
		Registration of full open position is not complete
ROOF INITIAL(CLOSE)	State of performing roof position initialization	Registration of full closed position is complete
		Registration of full closed position is not complete
PSHELF INITIAL(ROTA)	State of performing parcel shelf position initialization	Registration of rotation position is complete
		Registration of rotation position is not complete
PSHELF INITIAL(DRAW)	State of performing parcel shelf position initialization	Registration of draw position is complete
		Registration of draw position is not complete

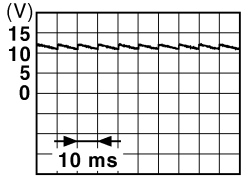
TERMINAL LAYOUT



PHYSICAL VALUES

RETRACTABLE HARD TOP CONTROL UNIT

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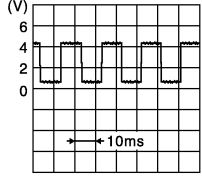
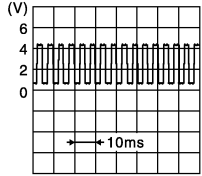
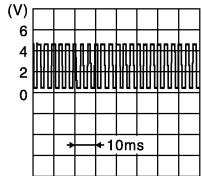
Terminal No. (Wire color)		Description		Condition			Value (Approx.)
+	-	Signal name	Input/ Output				
1 (G)	Ground	Roof open/close switch (OPEN)	Input	Ignition switch ON	Roof open/close switch (OPEN)	Pressed	0 V
						Released	Battery voltage
2 (BR)	Ground	Roof open/close switch (CLOSE)	Input	Ignition switch ON	Roof open/close switch (CLOSE)	Pressed	0 V
						Released	Battery voltage
3 (B)	Ground	Flipper door limit switch ground	—	Ignition switch ON	—		0 V
4 (L)	Ground	Tonneau board switch	Input	Ignition switch ON	Tonneau board	Hooked	Battery voltage
						Released	0 V
5 (SB)	Ground	Trunk room lamp switch	Input	Ignition switch ON	Trunk lid	Locked	
						Other than above	0 V
6 (L)	Ground	Roof latch limit switch	Input	Ignition switch ON	Roof	Close	0 V
						Other than above	Battery voltage
7 (W)	Ground	Flipper door limit switch (UP)	Input	Ignition switch ON	Flipper door LH and RH	Top	0 V
						Other than above	Battery voltage
8 (G)	Ground	Flipper door limit switch (DOWN)	Input	Ignition switch ON	Flipper door LH and RH	Bottom	0 V
						Other than above	Battery voltage
11 (W)	Ground	RAP signal	Input	Ignition switch ON	RAP function	Active	Battery voltage
						Inactive	0 V
12 (Y)	Ground	Back up lamp signal	Input	Ignition switch ON	Shift position	R position	Battery voltage
						Other than above	0 V
13 (BG)	Ground	Sensor power supply	Output	Ignition switch OFF	—		5 V
14 (P)	Ground	Trunk link sensor (LH)	Input	Ignition switch ON	Trunk link lock (LH)	LOCK	0.3 V
						Other than above	1.5 V
15 (SB)	Ground	Trunk link sensor (RH)	Input	Ignition switch ON	Trunk link lock (RH)	LOCK	0.3 V
						Other than above	1.5 V

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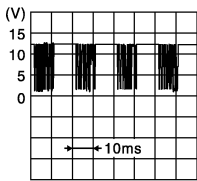
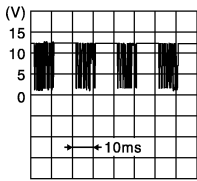
RETRACTABLE HARD TOP CONTROL UNIT

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Terminal No. (Wire color)		Description		Condition			Value (Approx.)
+	-	Signal name	Input/ Output				
16 (GR)	Ground	Roof latch status sensor	Input	Ignition switch ON	Roof latch	Operate	 <small>JMKIA4021GB</small>
						Stop	0.5 or 4.5 V
17 (G)	Ground	Roof latch lock sensor	Input	Ignition switch ON	Roof latch	LOCK	1.0 V
						Other than above	3.8 V
18 (LG)	Ground	Trunk status sensor	Input	Ignition switch ON	Trunk lid (front)	Fully open	1.0 V
						Other than above	3.8 V
22 (V)	Ground	Roof status sensor power supply	Output	Ignition switch ON	—		5 V
23 (B)	Ground	Roof status sensor ground	—	Ignition switch ON	—		0 V
24 (GR)	Ground	Parcel shelf status sensor (DRAW)	Input	Ignition switch ON	Parcel shelf motor (DRAW)	Active	 <small>JMKIA4022GB</small>
						Inactive	0.5 V or 5 V
25 (R)	Ground	Parcel shelf status sensor (ROTATION)	Input	Ignition switch ON	Parcel shelf motor (ROTATE)	Active	 <small>JMKIA4023GB</small>
						Inactive	0.5 V or 5 V
26 (P)	Ground	Roof status sensor signal	Input	Ignition switch ON	Roof	Fully close→Fully open	0.5 V→5 V
27 (Y)	Ground	Trunk lid open request signal (BCM)	Output	—	Trunk opener	Operate	0 V →Battery voltage →0 V
						Other than above	0 V
28 (BG)	Ground	Flipper door motor ground	—	Ignition switch ON	—		0 V

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Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
29 (V)	Ground	Local communication (BCM)	Input/ Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JMKIA4024GB</p>	
30 (GR)	Ground	Local communication (POWER WINDOW)	Input/ Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JMKIA4024GB</p>	
31 (L)	Ground	CAN-H	Input/ Output	—	—	—	
32 (P)	Ground	CAN-L	Input/ Output	—	—	—	
33 (V)	Ground	Roof status signal (AUDIO)	Output	Ignition switch ON	Retractable hard top	Fully open	Battery voltage
						Other than above	0 V
34 (R)	Ground	Roof status signal (TRUNK)	Input	Ignition switch ON	Trunk	Fully close	Battery voltage
						Other than above	0 V
35 (B)	Ground	Roof warning buzzer	Output	Ignition switch ON	Roof warning buzz- er	Sounds	0 V
						Not sounds	Battery voltage
36 (Y)	Ground	Hydraulic pump relay (RH)	—	Ignition switch ON	Hydraulic pump mo- tor (RH)	Active	0 V
						Inactive	Battery voltage
37 (W)	Ground	Hydraulic pump relay (LH)	—	Ignition switch ON	Hydraulic pump mo- tor (LH)	Active	0 V
						Inactive	Battery voltage
38 (BR)	Ground	Hydraulic pump relay ground	—	Ignition switch ON	—	0 V	
41 (SB)	Ground	Parcel shelf motor (UP)	Output	Ignition switch ON	Parcel shelf motor (DRAW-UP)	Active	Battery voltage
						Inactive	0 V
42 (W)	Ground	Parcel shelf motor (DOWN)	Output	Ignition switch ON	Parcel shelf motor (DRAW-DOWN)	Active	Battery voltage
						Inactive	0 V
43 (BR)	Ground	Hydraulic pump pow- er supply relay	Output	Ignition switch ON	Retractable hard top system	Active	Battery voltage
						Inactive	0 V
44 (R)	Ground	Parcel shelf motor (HORIZONTAL)	Output	Ignition switch ON	Parcel shelf motor (ROTATION-HORI- ZONTAL)	Active	Battery voltage
						Inactive	0 V
45 (BR)	Ground	Parcel shelf motor (VERTICAL)	Output	Ignition switch ON	Parcel shelf motor (ROTATION-VER- TICAL)	Active	Battery voltage
						Inactive	0 V

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Terminal No. (Wire color)		Description		Condition			Value (Approx.)
+	-	Signal name	Input/ Output				
46 (G)	Ground	Flipper door motor (UP)	Output	Ignition switch ON	Flipper door motor (UP)	Active	Battery voltage
						Inactive	0 V
47 (L)	Ground	Flipper door motor (DOWN)	Output	Ignition switch ON	Flipper door motor (DOWN)	Active	Battery voltage
						Inactive	0 V
48 (R)	Ground	Roof latch motor (OPEN)	Output	Ignition switch ON	Roof latch motor (OPEN)	Active	Battery voltage
						Inactive	0 V
49 (Y)	Ground	Roof latch motor (CLOSE)	Output	Ignition switch ON	Roof latch motor (CLOSE)	Active	Battery voltage
						Inactive	0 V
51 (SB)	Ground	Trunk lid opener ac- tuator	Output	—	Trunk lid opener	Operate	0 V → Battery voltage → 0 V
						Stop	0 V
52 (V)	Ground	Trunk lid opener ac- tuator ground	—	Ignition switch ON	—		0 V
53 (BG)	Ground	Rear power window motor LH (UP)	Output	Ignition switch ON	Rear power window motor LH (UP)	Active	Battery voltage
						Inactive	0 V
54 (LG)	Ground	Rear power window motor LH (DOWN)	Output	Ignition switch ON	Rear power window motor LH (DOWN)	Active	Battery voltage
						Inactive	0 V
55 (GR)	Ground	Rear power window motor RH (UP)	Output	Ignition switch ON	Rear power window motor RH (UP)	Active	Battery voltage
						Inactive	0 V
56 (P)	Ground	Rear power window motor RH (DOWN)	Output	Ignition switch ON	Rear power window motor RH (DOWN)	Active	Battery voltage
						Inactive	0 V
57 (Y)	Ground	Power source (ROOF)	Input	—	—		Battery voltage
58 (Y)	Ground	Power source (ROOF)	Input	—	—		Battery voltage
59 (Y)	Ground	Power source (ROOF)	Input	—	—		Battery voltage
60 (B)	Ground	Ground (ROOF)	—	Ignition switch ON	—		0 V
61 (B)	Ground	Ground (ROOF)	—	Ignition switch ON	—		0 V
62 (GR)	Ground	Power source (POWER WINDOW)	Input	—	—		Battery voltage
63 (Y)	Ground	Power source (POWER WINDOW)	Input	—	—		Battery voltage
64 (B)	Ground	Ground (POWER WINDOW)	—	Ignition switch ON	—		0 V
65 (B)	Ground	Ground (POWER WINDOW)	—	Ignition switch ON	—		0 V

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Terminal No. (Wire color)		Description		Condition			Value (Approx.)	A
+	-	Signal name	Input/ Output					
66 (P)	Ground	Switching valve 1	Output	Ignition switch ON	Switching valve 1	Active	Battery voltage	B
						Inactive	0 V	
67 (SB)	Ground	Switching valve 2	Output	Ignition switch ON	Switching valve 2	Active	Battery voltage	C
						Inactive	0 V	
68 (L)	Ground	Switching valve ground	—	Ignition switch ON	—		0 V	D
69 (G)	Ground	Power source (REAR WINDOW DEFOGGER)	Input	—	—		Battery voltage	E
70 (P)	Ground	Power source (REAR WINDOW DEFOGGER)	Input	—	—		Battery voltage	F
71 (BR)	Ground	Rear window defog- ger power supply	Output	Ignition switch ON	Rear defogger switch ON and roof is fully closed		Battery voltage	G
72 (W)	Ground	Rear window defog- ger power supply	Output	Ignition switch ON	Rear defogger switch ON and roof is fully closed		Battery voltage	H

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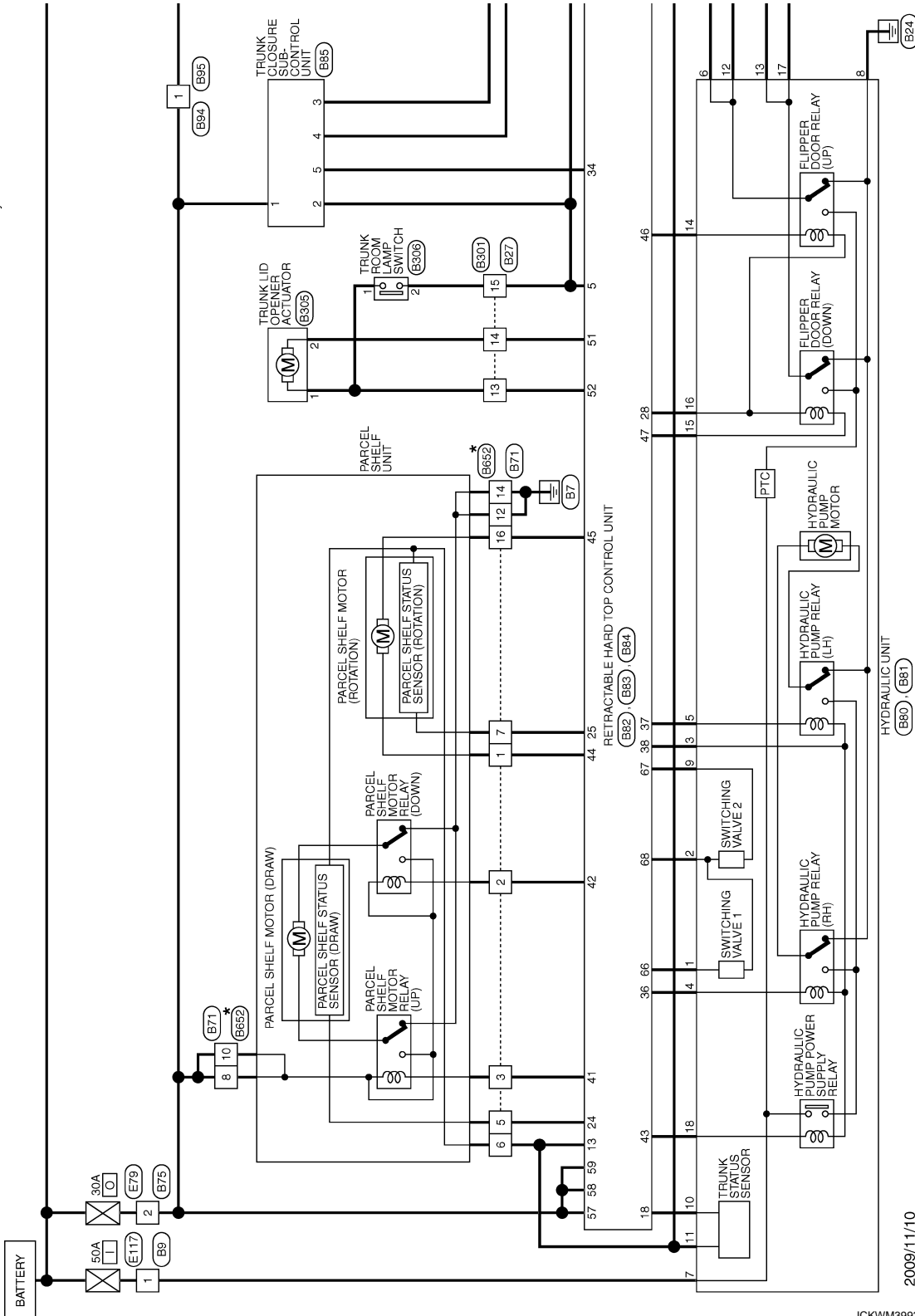
< ECU DIAGNOSIS INFORMATION >

Wiring Diagram

INFOID:000000005897741

RETRACTABLE HARD TOP SYSTEM

*: This connector is not shown in "Harness Layout".



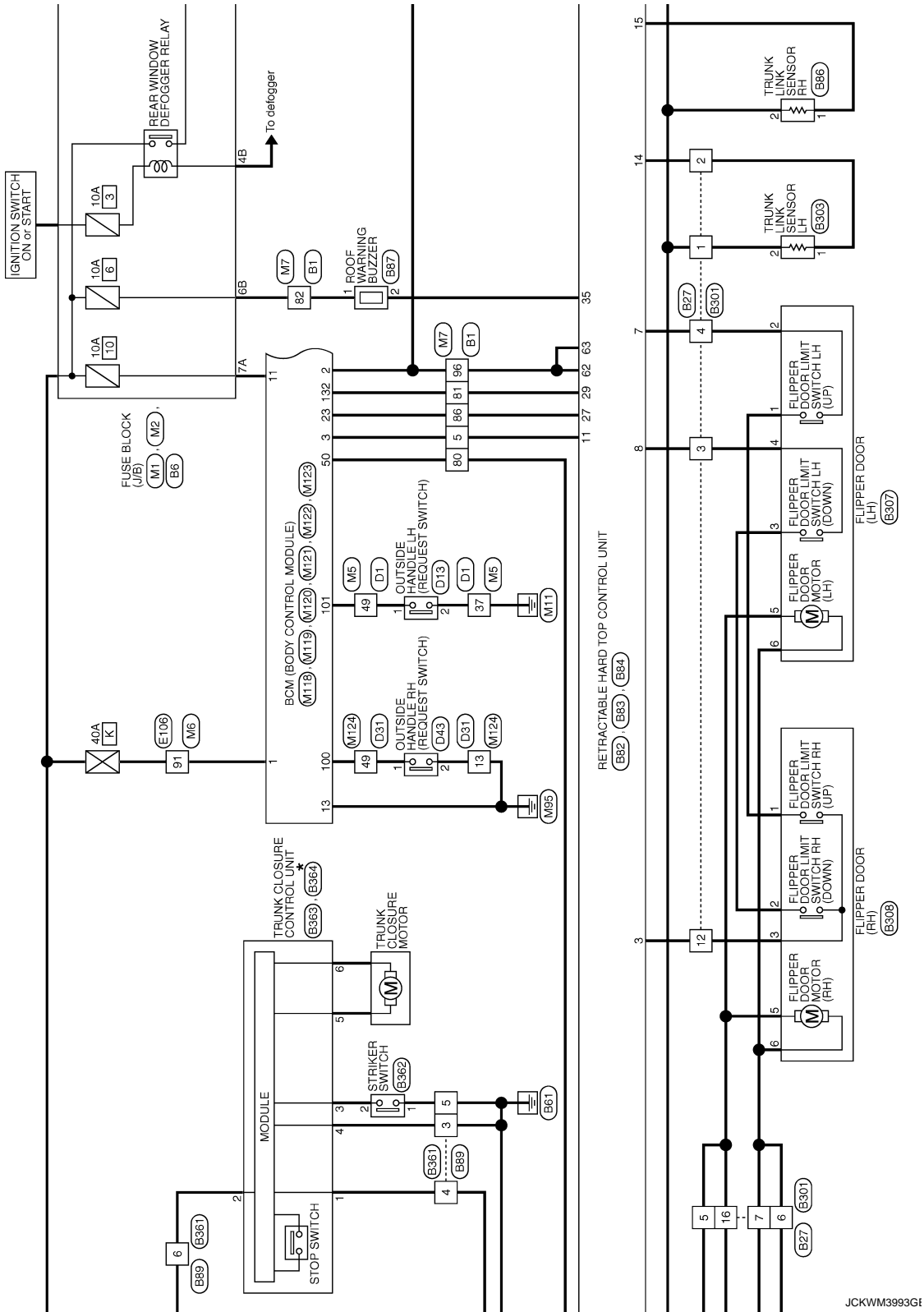
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JCKWM3992GI

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*: This connector is not shown in "Harness Layout".



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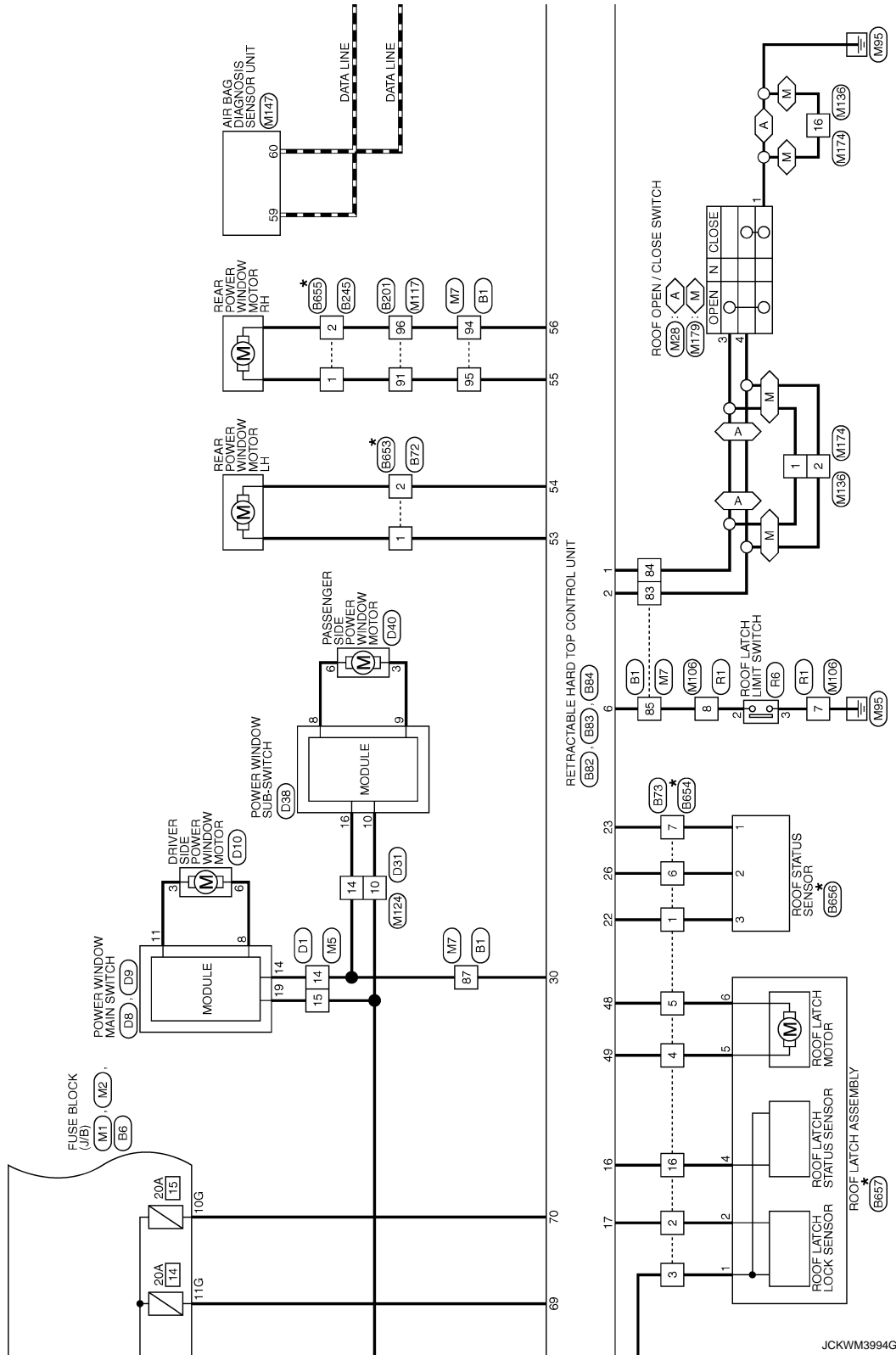


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A : With A/T
M : With M/T

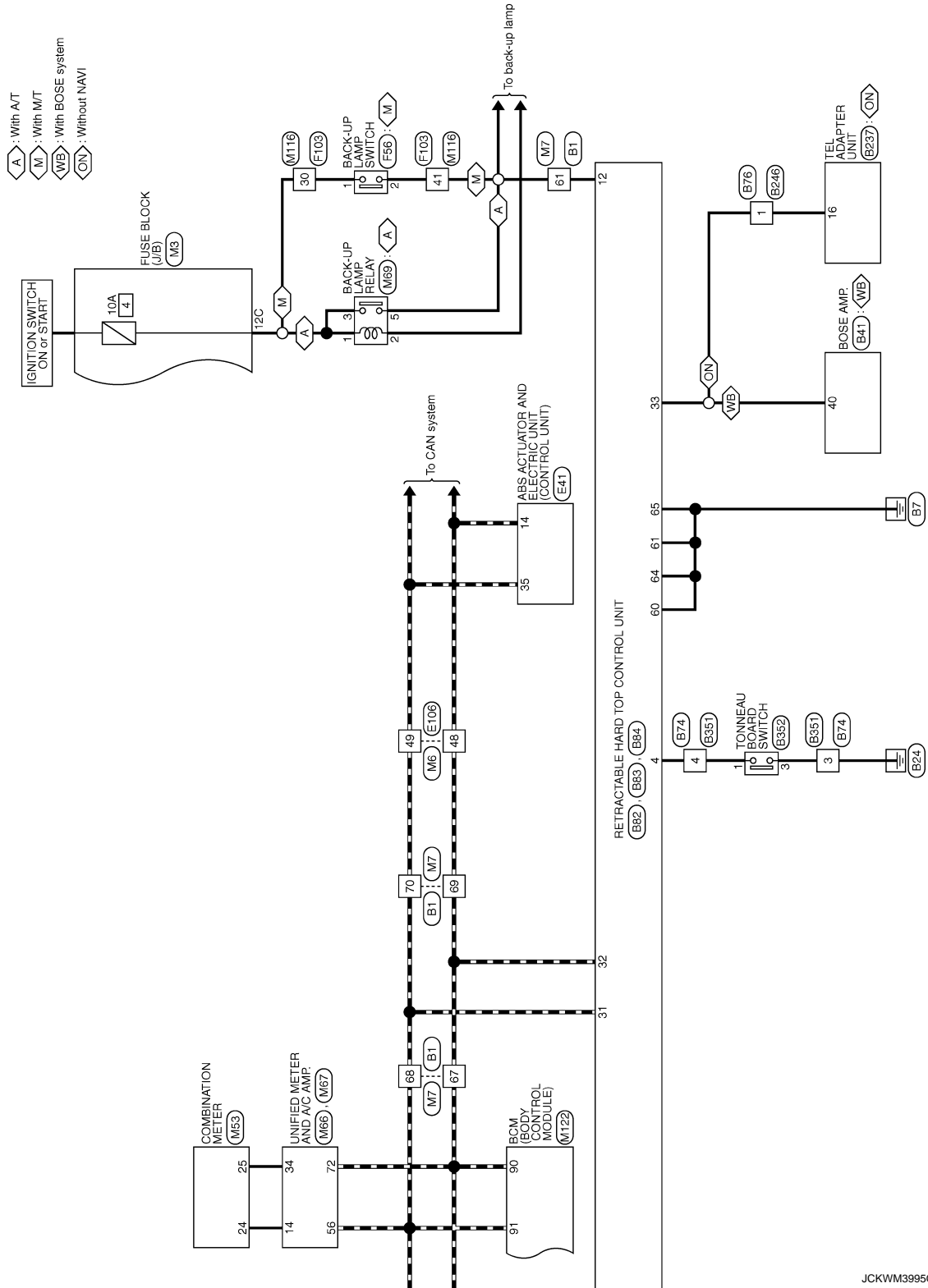
*: This connector is not shown in "Harness Layout".



JCKWM3994Gf

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RETRACTABLE HARD TOP SYSTEM

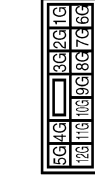
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THB07V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
8	G	-
10	BR	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	Y	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat] - [Without climate controlled seat]
38	Y	- [With climate controlled seat] - [Without climate controlled seat]
39	GR	- [With climate controlled seat] - [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

44	SB	-
45	V	-
46	W	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system] - [Without BOSE system]
50	SB	- [With BOSE system] - [Without BOSE system]
51	SB	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
60	R	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	BG	-
94	L	-
95	GR	-
96	GR	-
97	SB	-
99	Y	-
100	Y/B	-

Connector No.	B6
Connector Name	FUSE BLOCK (U/B)
Connector Type	NS1ZFBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4G	R	-
5G	LG	-
6G	G	-
10G	P	-
11G	G	-
12G	Y	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	MOBFV-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	GR	-
4	LG	-
5	BR	-
6	BG	-

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS16MP-CS



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

RETRACTABLE HARD TOP CONTROL UNIT

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Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	TH40PV-NH



10	11	12	13	14	15	16	17	18	19	20

Terminal No.	Color of Wire	Signal Name [Specification]
9	L	SOUND SIGNAL LH (-)
10	G	SOUND SIGNAL RH (-)
11	G	MICROPHONE SIGNAL (-)
12	SB	VOICE GUIDANCE SIGNAL (-)
14	LG	AV COMM (L)
15	LG	AV COMM (L)
16	W	ACC
29	P	SOUND SIGNAL LH (+)
30	R	SOUND SIGNAL RH (+)
31	Y	MICROPHONE SIGNAL (+)
32	V	VOICE GUIDANCE SIGNAL (+)
33	SHIELD	SHIELD
34	SB	AV COMM (H)
35	SB	AV COMM (H)
40	V	ROOF STATUS SIGNAL (AUDIO)

Connector No.	B71
Connector Name	WIRE TO WIRE
Connector Type	NS10FBR-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	W	
3	SB	
5	GR	
6	EG	
7	R	
8	Y	

10	LG
12	P
14	W
16	BR

Connector No.	B72
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



1	2
---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	EG	
2	LG	

Connector No.	B73
Connector Name	WIRE TO WIRE
Connector Type	NS16FSY-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
2	G	
3	EG	
4	Y	
5	R	
6	P	
7	B	
12	B	
13	B	
14	BR	
15	W	
16	GR	

Connector No.	B74
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



1	2	3	4
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Terminal No.	Color of Wire	Signal Name [Specification]
3	B	
4	L	

Connector No.	B75
Connector Name	WIRE TO WIRE
Connector Type	IM02MW-LC



1	2
---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	Y	

Connector No.	B76
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
4	LG	

5	SR
6	SHIELD
7	B
8	W
10	B
11	G
12	W
13	R
14	SHIELD
15	G
16	Y

Connector No.	B80
Connector Name	HYDRAULIC UNIT
Connector Type	NS10FW-CS



17	18	5	4	3	2	1
16	15	14	13	6	11	10
9	12					

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	L	
3	BR	
4	Y	
5	W	
6	R	
9	SR	
10	LG	
11	EG	
12	V	
13	GR	
14	G	
15	L	
16	EG	
17	P	
18	BR	

A
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C
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RETRACTABLE HARD TOP CONTROL UNIT

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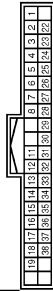
RETRACTABLE HARD TOP SYSTEM

Connector No.	B81
Connector Name	HYDRAULIC UNIT
Connector Type	LOTFE-MC



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	B	-

Connector No.	B82
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	TH02FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	ROOF OPEN / CLOSE SWITCH (OPEN)
2	BR	ROOF OPEN / CLOSE SWITCH (CLOSE)
3	B	FLIPPER DOOR LIMIT SWITCH (CLOSE)
4	L	TONNEAU BOARD SWITCH
5	SB	TRUNK ROOM LAMP SWITCH
6	L	ROOF LATCH LIMIT SWITCH
7	W	FLIPPER DOOR LIMIT SWITCH (UP)
8	G	FLIPPER DOOR LIMIT SWITCH (DOWN)
11	W	RETAINED ACC POWER
12	Y	REVERSE SIGNAL
13	BG	PARCEL SHELF STATUS SENSOR POWER SUPPLY
14	P	TRUNK LINK SENSOR SIGNAL (LH)
15	SB	TRUNK LINK SENSOR SIGNAL (RH)
16	GR	ROOF LATCH STATUS SENSOR SIGNAL
17	G	ROOF LATCH LOCK SENSOR SIGNAL
18	LG	TRUNK STATUS SENSOR SIGNAL
22	V	ROOF STATUS SENSOR POWER SUPPLY
23	B	ROOF STATUS SENSOR GND
24	GR	PARCEL SHELF STATUS SENSOR SIGNAL (DRAW)
25	R	PARCEL SHELF STATUS SENSOR SIGNAL (ROTATION)

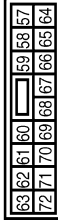
26	P	ROOF STATUS SENSOR SIGNAL
27	Y	TRUNK LID OPEN REQUEST SIGNAL
28	BG	FLIPPER DOOR RELAY GND
29	V	LOCAL COMMUNICATION (GMA)
30	GR	LOCAL COMMUNICATION (POWER WINDOW)
31	L	CAN-H
32	P	CAN-L
33	V	ROOF STATUS SIGNAL (AUDIO)
34	R	ROOF STATUS SIGNAL (TRUNK)
35	B	ROOF WARNING BUZZER
36	Y	HYDRAULIC MOTOR RELAY GND (RH)
37	W	HYDRAULIC MOTOR RELAY GND (LH)
38	BR	HYDRAULIC MOTOR RELAY POWER SUPPLY

Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NSI06FR-CS



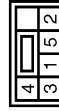
Terminal No.	Color of Wire	Signal Name [Specification]
41	SB	PARCEL SHELF MOTOR RELAY GND (UP)
42	W	PARCEL SHELF MOTOR RELAY GND (DOWN)
43	BR	HYDRAULIC PUMP POWER SUPPLY RELAY
44	R	MOTOR PARCEL SHELF (HORIZONTAL)
45	BR	MOTOR PARCEL SHELF (VERTICAL)
46	G	FLIPPER DOOR RELAY POWER SUPPLY (UP)
47	L	FLIPPER DOOR RELAY POWER SUPPLY (DOWN)
48	R	ROOF LATCH MOTOR (OPEN)
49	Y	ROOF LATCH MOTOR (CLOSE)
51	SB	TRUNK OPENER ACTUATOR
52	V	TRUNK OPENER ACTUATOR GND
53	BG	REAR POWER WINDOW MOTOR LH (UP)
54	LG	REAR POWER WINDOW MOTOR RH (UP)
55	GR	REAR POWER WINDOW MOTOR LH (DOWN)
56	P	REAR POWER WINDOW MOTOR RH (DOWN)

Connector No.	B84
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NSI06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
57	Y	BAT
58	Y	BAT
59	Y	BAT
60	B	BAT
61	B	GND
62	GR	BAT (POWER WINDOW)
63	Y	BAT (POWER WINDOW)
64	B	GND (POWER WINDOW)
65	B	GND (POWER WINDOW)
66	P	SWITCHING VALVE 1
67	SB	SWITCHING VALVE 2
68	L	SWITCHING VALVE GND
69	G	REAR WINDOW DEF IN 1
70	P	REAR WINDOW DEF IN 2
71	BR	REAR WINDOW DEF OUT 1
72	W	REAR WINDOW DEF OUT 2

Connector No.	B85
Connector Name	TRUNK CLOSURE SUB-CONTROL UNIT
Connector Type	NSI06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BAT
2	SB	TRUNK ROOM LAMP SWITCH
3	P	CLOSURE CONTROL SIGNAL
4	B	GND
5	R	TRUNK MODE SIGNAL

Connector No.	B86
Connector Name	TRUNK LINK SENSOR RH
Connector Type	TH02FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	BG	-

Connector No.	B87
Connector Name	ROOF WARNING BUZZER
Connector Type	FK02FER



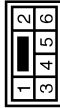
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-

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Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS28MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	P	-
5	B	-
6	Y	-

Connector No.	B84
Connector Name	WIRE TO WIRE
Connector Type	MD1MW-LC



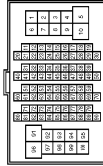
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-

Connector No.	B85
Connector Name	WIRE TO WIRE
Connector Type	MD1FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8GFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	B	-
5	W	-
6	R	-
7	B	-
7	G	-
8	BG	-
9	GR	-
10	LG	-
40	GR	-
41	LG	-
42	BG	-
43	R	-
44	SHIELD	-
45	G	-
47	G	-
48	Y	-
49	SHIELD	-
50	P	-
51	SR	-
52	LG	-
53	L	-
54	G	-
55	GR	-
56	LG	-
57	G	-
58	R	-
67	L	-
68	P	-
80	G	-
81	R	-
82	W	-
83	B	-
84	SHIELD	-
85	O	-
86	BR	-
87	Y	-
88	SHIELD	-

89	SB	-
91	V	-
91	GR	-
92	P	- [With BOSE system]
92	Y	- [Without BOSE system]
93	L	-
94	SB	-
95	V	-
96	P	-
97	L	- [With BOSE system]
97	LG	- [Without BOSE system]
98	Y/B	-
99	Y	-

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH2FW-NH



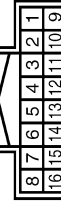
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	BG	IGNITION
4	B	GND
5	SHIELD	SHIELD
7	R	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND
16	P	ROOF STATUS SIGNAL (AUDIO)
21	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	G	MICROPHONE VCC

Connector No.	B245
Connector Name	WIRE TO WIRE
Connector Type	NS22MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	P	-

Connector No.	B246
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
4	P	-
5	L	-
6	SHIELD	-
7	B	-
8	W	-
10	B	-
11	G	-
12	W	-
13	R	-
14	SHIELD	-
15	G	-
16	Y	-














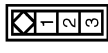



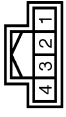
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<table border="1"> <tr><td>Connector No.</td><td>B301</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS16FW-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>R</td><td>-</td></tr> <tr><td>2</td><td>GR</td><td>-</td></tr> <tr><td>3</td><td>G</td><td>-</td></tr> <tr><td>4</td><td>W</td><td>-</td></tr> <tr><td>5</td><td>Y</td><td>-</td></tr> <tr><td>6</td><td>P</td><td>-</td></tr> <tr><td>7</td><td>P</td><td>-</td></tr> <tr><td>10</td><td>LG</td><td>-</td></tr> <tr><td>11</td><td>B</td><td>-</td></tr> <tr><td>12</td><td>B</td><td>-</td></tr> <tr><td>13</td><td>V</td><td>-</td></tr> <tr><td>14</td><td>BR</td><td>-</td></tr> <tr><td>15</td><td>L</td><td>-</td></tr> <tr><td>16</td><td>Y</td><td>-</td></tr> </table> 	Connector No.	B301	Connector Name	WIRE TO WIRE	Connector Type	NS16FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	R	-	2	GR	-	3	G	-	4	W	-	5	Y	-	6	P	-	7	P	-	10	LG	-	11	B	-	12	B	-	13	V	-	14	BR	-	15	L	-	16	Y	-	<table border="1"> <tr><td>Connector No.</td><td>B305</td></tr> <tr><td>Connector Name</td><td>TRUNK LID OPENER ACTUATOR</td></tr> <tr><td>Connector Type</td><td>M02FB-LC</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>V-</td></tr> <tr><td>2</td><td>BR</td><td>V+</td></tr> </table> 	Connector No.	B305	Connector Name	TRUNK LID OPENER ACTUATOR	Connector Type	M02FB-LC	Terminal No.	Color of Wire	Signal Name [Specification]	1	V	V-	2	BR	V+	<table border="1"> <tr><td>Connector No.</td><td>B308</td></tr> <tr><td>Connector Name</td><td>FLIPPER DOOR (FH)</td></tr> <tr><td>Connector Type</td><td>NS06FW-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>SWITCH FD DOWN</td></tr> <tr><td>2</td><td>Y</td><td>SWITCH FD DOWN I</td></tr> <tr><td>3</td><td>B</td><td>MOTOR FD UP</td></tr> <tr><td>4</td><td>BR</td><td>MOTOR FD DOWN</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> <tr><td>6</td><td>L</td><td>-</td></tr> </table> 	Connector No.	B308	Connector Name	FLIPPER DOOR (FH)	Connector Type	NS06FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	V	SWITCH FD DOWN	2	Y	SWITCH FD DOWN I	3	B	MOTOR FD UP	4	BR	MOTOR FD DOWN	5	L	-	6	L	-	<table border="1"> <tr><td>Connector No.</td><td>B306</td></tr> <tr><td>Connector Name</td><td>TRUNK ROOM LAMP SWITCH</td></tr> <tr><td>Connector Type</td><td>A02FW</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>-</td></tr> <tr><td>2</td><td>BR</td><td>-</td></tr> </table> 	Connector No.	B306	Connector Name	TRUNK ROOM LAMP SWITCH	Connector Type	A02FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	V	-	2	BR	-	<table border="1"> <tr><td>Connector No.</td><td>B307</td></tr> <tr><td>Connector Name</td><td>FLIPPER DOOR (LH)</td></tr> <tr><td>Connector Type</td><td>NS06FB-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>SWITCH FD UP</td></tr> <tr><td>2</td><td>W</td><td>SWITCH FD UP I</td></tr> </table> 	Connector No.	B307	Connector Name	FLIPPER DOOR (LH)	Connector Type	NS06FB-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	V	SWITCH FD UP	2	W	SWITCH FD UP I	<table border="1"> <tr><td>Connector No.</td><td>B303</td></tr> <tr><td>Connector Name</td><td>TRUNK LINK SENSOR LH</td></tr> <tr><td>Connector Type</td><td>TH04FW-NH</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>GR</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table> 	Connector No.	B303	Connector Name	TRUNK LINK SENSOR LH	Connector Type	TH04FW-NH	Terminal No.	Color of Wire	Signal Name [Specification]	1	GR	-	2	R	-	<table border="1"> <tr><td>Connector No.</td><td>B342</td></tr> <tr><td>Connector Name</td><td>TONNEAU BOARD SWITCH</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>3</td><td>B</td><td>-</td></tr> </table> 	Connector No.	B342	Connector Name	TONNEAU BOARD SWITCH	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	3	B	-	<table border="1"> <tr><td>Connector No.</td><td>B361</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS03FW-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>B</td><td>-</td></tr> <tr><td>4</td><td>P</td><td>-</td></tr> <tr><td>5</td><td>B</td><td>-</td></tr> <tr><td>6</td><td>Y</td><td>-</td></tr> </table> 	Connector No.	B361	Connector Name	WIRE TO WIRE	Connector Type	NS03FW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	3	B	-	4	P	-	5	B	-	6	Y	-	<table border="1"> <tr><td>Connector No.</td><td>B351</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH04FW-NH</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>SWITCH FD UP I</td></tr> <tr><td>2</td><td>Y</td><td>SWITCH FD DOWN I</td></tr> <tr><td>3</td><td>B</td><td>SWITCH FD GND COMBINED</td></tr> <tr><td>4</td><td>BR</td><td>MOTOR FD UP</td></tr> <tr><td>5</td><td>L</td><td>MOTOR FD DOWN</td></tr> <tr><td>6</td><td>L</td><td>-</td></tr> </table> 	Connector No.	B351	Connector Name	WIRE TO WIRE	Connector Type	TH04FW-NH	Terminal No.	Color of Wire	Signal Name [Specification]	1	V	SWITCH FD UP I	2	Y	SWITCH FD DOWN I	3	B	SWITCH FD GND COMBINED	4	BR	MOTOR FD UP	5	L	MOTOR FD DOWN	6	L	-
Connector No.	B301																																																																																																																																																																																																																
Connector Name	WIRE TO WIRE																																																																																																																																																																																																																
Connector Type	NS16FW-CS																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
1	R	-																																																																																																																																																																																																															
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3	G	-																																																																																																																																																																																																															
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6	P	-																																																																																																																																																																																																															
7	P	-																																																																																																																																																																																																															
10	LG	-																																																																																																																																																																																																															
11	B	-																																																																																																																																																																																																															
12	B	-																																																																																																																																																																																																															
13	V	-																																																																																																																																																																																																															
14	BR	-																																																																																																																																																																																																															
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16	Y	-																																																																																																																																																																																																															
Connector No.	B305																																																																																																																																																																																																																
Connector Name	TRUNK LID OPENER ACTUATOR																																																																																																																																																																																																																
Connector Type	M02FB-LC																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
1	V	V-																																																																																																																																																																																																															
2	BR	V+																																																																																																																																																																																																															
Connector No.	B308																																																																																																																																																																																																																
Connector Name	FLIPPER DOOR (FH)																																																																																																																																																																																																																
Connector Type	NS06FW-CS																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
1	V	SWITCH FD DOWN																																																																																																																																																																																																															
2	Y	SWITCH FD DOWN I																																																																																																																																																																																																															
3	B	MOTOR FD UP																																																																																																																																																																																																															
4	BR	MOTOR FD DOWN																																																																																																																																																																																																															
5	L	-																																																																																																																																																																																																															
6	L	-																																																																																																																																																																																																															
Connector No.	B306																																																																																																																																																																																																																
Connector Name	TRUNK ROOM LAMP SWITCH																																																																																																																																																																																																																
Connector Type	A02FW																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
1	V	-																																																																																																																																																																																																															
2	BR	-																																																																																																																																																																																																															
Connector No.	B307																																																																																																																																																																																																																
Connector Name	FLIPPER DOOR (LH)																																																																																																																																																																																																																
Connector Type	NS06FB-CS																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
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Connector No.	B303																																																																																																																																																																																																																
Connector Name	TRUNK LINK SENSOR LH																																																																																																																																																																																																																
Connector Type	TH04FW-NH																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
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2	R	-																																																																																																																																																																																																															
Connector No.	B342																																																																																																																																																																																																																
Connector Name	TONNEAU BOARD SWITCH																																																																																																																																																																																																																
Connector Type	A03FW																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
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Connector No.	B361																																																																																																																																																																																																																
Connector Name	WIRE TO WIRE																																																																																																																																																																																																																
Connector Type	NS03FW-CS																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
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5	B	-																																																																																																																																																																																																															
6	Y	-																																																																																																																																																																																																															
Connector No.	B351																																																																																																																																																																																																																
Connector Name	WIRE TO WIRE																																																																																																																																																																																																																
Connector Type	TH04FW-NH																																																																																																																																																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																																																																																																																															
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2	Y	SWITCH FD DOWN I																																																																																																																																																																																																															
3	B	SWITCH FD GND COMBINED																																																																																																																																																																																																															
4	BR	MOTOR FD UP																																																																																																																																																																																																															
5	L	MOTOR FD DOWN																																																																																																																																																																																																															
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RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP SYSTEM

Connector No.	E362
Connector Name	STRIKER SWITCH
Connector Type	RV02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	SIG-
2	GR	SIG+

Connector No.	E363
Connector Name	TRUNK CLOSURE CONTROL UNIT
Connector Type	NS04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	TRUNK ROOM LAMP SW SIG
2	Y	POWER
3	GR	STRIKER SW SIG
4	B	GND

Connector No.	E364
Connector Name	TRUNK CLOSURE CONTROL UNIT
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1		
2		

5	B	CLOSURE MOTOR GND
6	BR	CLOSURE MOTOR POWER

Connector No.	E322
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS



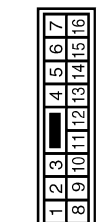
Terminal No.	Color of Wire	Signal Name [Specification]
1	--	--
2	--	--
3	--	--
5	--	--
6	--	--
7	--	--
8	--	--
10	--	--
12	--	--
14	--	--
16	--	--

Connector No.	E653
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



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

Connector No.	E654
Connector Name	WIRE TO WIRE
Connector Type	NS16MGY-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	--	--
2	--	--
3	--	--
4	--	--
5	--	--
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9	--	--
7	--	--
12	--	--
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15	--	--
16	--	--

Connector No.	E655
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



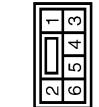
Terminal No.	Color of Wire	Signal Name [Specification]
1	--	--
2	--	--

Connector No.	E656
Connector Name	ROOF STATUS SENSOR
Connector Type	1-962700-1



Terminal No.	Color of Wire	Signal Name [Specification]
1	--	--
2	--	--
3	--	--

Connector No.	E657
Connector Name	ROOF LATCH ASSEMBLY
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	--	--
2	--	--
4	--	--
3	--	--
6	--	--

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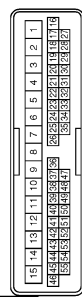
PWC

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP SYSTEM


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



Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	-
5	P	- [With A/T]
6	SB	- [With M/T]
7	R	-
8	G	-
9	O	-
10	LG	-
11	W	-
12	L	-
13	B	-
14	V	-
15	Y	-
16	Y/B	-
17	Y	-
20	V	-
21	R	-
22	P	-
23	O	-
24	Y	-
25	SB	-
26	GR	-
27	GR	-
28	LG	-
29	G	-
30	Y	-
31	W	-
32	BR	-
33	L	-
34	R	-
35	V	-
37	B	-
38	O	-
39	GR	-
40	G	-
41	Y	-
42	LG	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	V	-
48	P	-
49	W	-
50	SB	-
51	R	-
52	L	-
53	O	-
54	GR	-
55	G	-


44	V	-
45	P	-
46	W	-
47	V	-
48	P	-
49	W	-
50	SB	-
51	R	-
52	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
4	V	-
5	BR	-
6	W	-
8	L	-
9	W	-
10	SB	-
11	BR	-
13	R	-
14	V	-
15	O	-

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30FW-CS



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

17	B	-
19	Y	-

Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	PH60FGY-Z



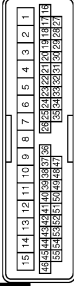
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	O	-
5	W	-
6	L	-

Connector No.	D13
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL



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

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



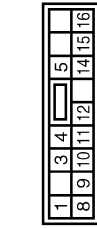
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	R	-
8	G	-
9	P	-
10	LG	-
11	W	-
12	L	-
13	B	-
14	Y	-
15	W	-
34	Y	-
35	Y/B	-
38	O	-
39	GR	-
40	G	-
41	Y	-
42	LG	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	V	-
48	P	-
49	W	-
50	SB	-
51	R	-
52	L	-
53	O	-
54	GR	-
55	G	-

RETRACTABLE HARD TOP CONTROL UNIT

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RETRACTABLE HARD TOP SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	
4	O	
8	L	
9	V	
10	W	
11	B	
12	R	
14	BR	
15	SB	
16	Y	

Connector No.	D40
Connector Name	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	FH80BFGY-Z



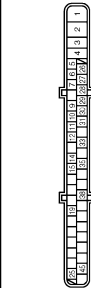
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	R	
3	V	
4	O	
5	SB	
6	L	

Connector No.	D43
Connector Name	OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02FL



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

Connector No.	E41
Connector Name	AIR ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AH24-LH



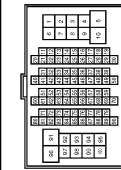
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	L	URMR
3	R	URVR
4	B	GND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RR
8	B	DP FR
9	W	DS FR
10	V	DIAG-K
11	P	CAN-L
12	L	CAN-R
13	L	BUS-L
14	GR	DP FL
15	P	DP FL
16	W	DS RL
17	G	UZ
18	P	DS RR
19	GR	BLS
20	LG	VDG OFF SWITCH
31	R	CAN-H
35	L	CAN-H
45	B	BUS-H

Connector No.	E39
Connector Name	WIRE TO WIRE
Connector Type	MM02FW-LC



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
3	BG	
4	B/W	
5	G	
6	BG	
7	LG	
8	G	
10	W	
11	V	
12	R	
13	L	
14	GR	
15	P	
16	W	
17	V	
18	BG	
19	GR	
20	LG	
30	R	
31	L	

32	BG	
33	P	
34	V	
35	BR	
36	W	
37	Y	
38	R	
39	B	
40	G	
41	W	
42	LG	
43	SB	
44	GR	
45	BG	
46	LG	
47	V	
48	P	
49	L	
59	B	
68	LG	
67	SB	
68	R	
69	W	
70	G	
80	W	
81	P	
82	G	
83	V	
84	L	
85	BG	
86	LG	
87	Y	
88	GR	
89	W	
90	W	
91	G	
92	B	
93	GR	
94	L	
95	Y	
97	BR	
98	SHIELD	
99	L	
100	P	

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RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP SYSTEM

Connector No.	E117
Connector Name	WIRE TO WIRE
Connector Type	M08MWF-LC



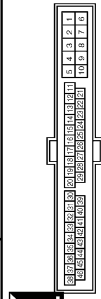
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	GR	-
4	P	-
5	BR	-
6	BG	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



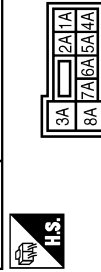
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



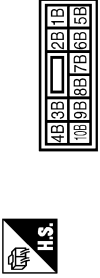
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
3	W	-
4	R	-
5	B	-
9	Y	-
10	GR	-
19	O	-
20	Y	-
28	B	-
29	LG	-
30	R	-
31	R	-
41	O	-
42	BR	-
43	P	-
44	L	-
45	Y	-
46	V	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	BR	-
6A	Y	-
7A	GR	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



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

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



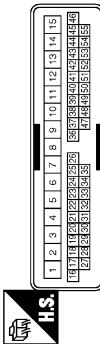
Terminal No.	Color of Wire	Signal Name [Specification]
9C	R	-
7C	B	-
8C	W	-
9C	BG	-
10C	L	-
11C	LG	-
12C	R	-

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	B	-
6	BG	-
7	W	-
8	B	-
9	G	-
10	V	-
11	W	-
12	L	-
13	B	-
14	GR	-
15	Y	-
16	Y/B	-
17	Y	-
20	BG	-
21	W	-
22	P	-
23	BG	-
24	V	-
25	BR	-
26	R	-
27	P	-
28	LG	-
29	SB	-
30	G	-
31	V	-
32	BR	-
33	GR	-
34	G	-
35	L	-
37	B	-
38	L	- [With automatic drive positioner]
39	BR	- [Without automatic drive positioner]
39	BR	- [With automatic drive positioner]
40	L	- [Without automatic drive positioner]
40	Y	- [With automatic drive positioner]
41	BR	- [Without automatic drive positioner]
41	G	- [With automatic drive positioner]

42	R	-
43	G	-
44	Y	-
45	GR	-
46	BR	-
47	V	-
48	LG	-
49	P	-
50	SB	-
51	GR	-
52	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-

37	Y	-
38	LG	-
38	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	- [With A/T]
44	R	- [With M/T]
45	BG	-
46	G	-
47	P	-
48	P	-
49	L	-
59	B	-
66	Y	-
67	G	-
68	R	-
68	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	BG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

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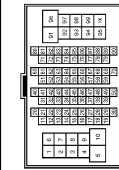


RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

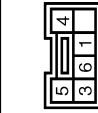
RETRACTABLE HARD TOP SYSTEM

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TIM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	LG	-
3	G	-
4	V	-
5	L	-
6	B	-
8	L	-
10	BR	-
12	SHIELD	-
13	V	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	Y	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	L	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

Connector No.	M28
Connector Name	ROOF OPEN / CLOSE SWITCH
Connector Type	TKG8FW-IV



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
3	V	-
4	BR	-
5	R	-
6	GR	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	AIR BAG SIGNAL
10	R	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
18	GR	ILL GND
19	B	ILL GND
20	R	ILL
21	R	IGNITION SIGNAL
22	B	GROUND
24	SB	COMMUNICATION SIGNAL (LCD->AMP)
25	B	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)

27	V	PARKING BRAKE SWITCH SIGNAL
28	SB	BRAKE FLUID LEVEL SWITCH SIGNAL
29	L	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
32	R	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH (-)
40	BG	ILLUMINATION CONTROL SWITCH (+)

Connector No.	M86
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	G	STOP LAMP SWITCH
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	SB	COMMUNICATION SIGNAL (LCD->AMP)
20	G	IGN ON / OFF SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	B	COMMUNICATION SIGNAL (AMP->LCD)
38	P	BLOWER MOTOR CONTROL SIGNAL

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP SYSTEM

Connector No.	M87
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH22FN-NH



41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72

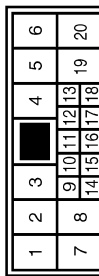
Terminal No.	Color of Wire	Signal Name [Specification]
41	BR	ACC POWER SUPPLY
42	BR	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	V	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	G	GAS SENSOR SIGNAL
53	W	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
58	Y	FUEL LEVEL SENSOR SIGNAL GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	R	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	L	ION CONTROL MODE OUTPUT SIGNAL
65	BG	ECV SIGNAL
68	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	GR	GROUND
72	P	CAN-L

Connector No.	M89
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2-LG



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	W	
3	LG	
5	BG	

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-C510



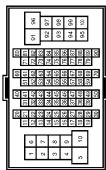
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	
2	BR	
3	Y	
4	G	
5	SHIELD	
6	R	
7	B	
8	L	
9	R	
10	SB	
11	V	
12	LG	
18	B	
19	P	
20	Y	

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	
3	BG	
4	R	
5	B	
9	R	
10	R	
19	BG	
20	Y	
28	GR	
29	LG	
30	LG	
31	W	
41	BG	
42	G	
43	P	
44	L	
45	G	
46	Y	

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-C516-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
3	B	
5	SB	
6	R	
7	G	
8	SB	
9	GR	
10	LG	
40	Y	
41	G	
42	LG	
43	R	
44	SHIELD	
45	G	
47	P	
48	L	

Terminal No.	Color of Wire	Signal Name [Specification]
49	SHIELD	
50	V	
51	SB	
52	BG	
53	L	
54	G	
55	Y	
56	LG	
57	SB	
58	LG	
67	SB	
68	LG	
80	W	
81	B	
82	R	
83	G	
84	SHIELD	
85	G	
86	L	
87	P	
88	SHIELD	
89	Y	
90	W	
91	GR	
92	P	
93	W	
94	BG	
95	BG	
96	P	
97	L	
98	Y/B	
99	Y	

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS03FB-LG



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

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RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP SYSTEM

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

4	5	6	7	8	9	10		
11	12	13	14	15	16	17	18	19



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

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS

20	21	22	23	24		
25	26	27	28	29	30	31



Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	Y	TRUNK LID OPEN OUTPUT
25	Y	TURN SIGNAL LH (REAR)
30	P	TRUNK ROOM LAMP

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

31	32	33	34	35	36	37	38	39	40		
41	42	43	44	45	46	47	48	49	50	51	52



Terminal No.	Color of Wire	Signal Name [Specification]
34	SB	TRUNK ROOM ANT-
35	V	TRUNK ROOM ANT+
38	B	REAR BUMPER ANT-
39	W	REAR BUMPER ANT+
47	Y	IGN RELAY (R) CONT
50	G	TRUNK ROOM LAMP SW
52	BR	STARTER RELAY CONT
61	SB	TRUNK LID OPENER REQUEST SW
64	G	P-KEY WARM BUZZER (ENG ROOM)
67	GR	TRUNK LID OPENER SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FE-NH

53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
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Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTENNA AMP
81	W	NATS ANTENNA AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM

87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	IGN L
91	L	IGN H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHIFT P [With A/T]
99	R	ASCD/ICC CLUTCH SW [With M/T]
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

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

112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134
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Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN F/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	LG	P/W SW & RHT G/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND

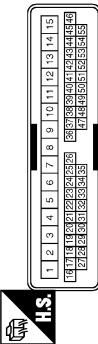
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

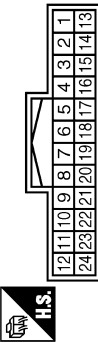
RETRACTABLE HARD TOP SYSTEM

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS-5



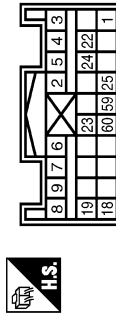
Terminal No.	Color of Wire	Signal Name [Specification]
6	BG	-
7	R	-
8	G	-
9	P	-
10	V	-
11	SB	- [With BOSE system]
12	GR	- [Without BOSE system]
13	B	-
14	G	-
15	W	-
16	W	-
17	W	-
18	W	-
19	W	-
20	W	-
21	W	-
22	W	-
23	W	-
24	W	-
34	Y	-
35	Y/B	-
36	W	-
38	BG	-
40	SB	-
41	BR	- [With automatic drive positioner]
42	R	- [Without automatic drive positioner]
43	L	-
44	Y	-
45	R	-
46	W	-
47	SB	-
48	BR	-
49	Y	-
50	P	-
51	LG	-
52	BG	-
53	Y	-
54	L	-
55	L	-

Connector No.	M136
Connector Name	WIRE TO WIRE
Connector Type	TH24FP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	R	-
4	GR	-
5	W	-
6	W	-
7	R	-
8	GR	-
9	SB	-
10	R	-
11	L	-
12	GR	-
16	B	-
21	GR	-
22	W	-
23	GR	-
24	W	-

Connector No.	M147
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	IGN
2	B	GND
3	Y	DR1 (-)
4	Y	DR1 (-)DR2 (-)
5	Y	DR2 (-)

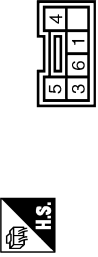
6	Y	ASI (+)
7	Y	ASI (-)
8	Y	ASZ (+)
9	Y	ASZ (-)
18	SB	ECZS (+)
19	V	ECZS (-)
22	SHIELD	GND
23	LG	AIRBAG W/L
24	G	SEAT BELT
25	R	CUTOFF TELTALE
59	L	CAN-H
60	P	CAN-L

Connector No.	M174
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



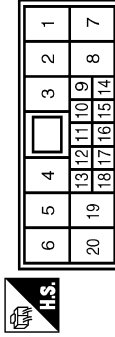
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	R	-
4	GR	-
5	W	-
6	W	-
7	R	-
8	B	-
9	SB	-
10	O	-
11	L	-
12	G	-
16	B	-
21	GR	-
22	W	-
23	B	-
24	Y	-

Connector No.	M179
Connector Name	ROOF OPEN / CLOSE SWITCH
Connector Type	TK06FW-IV



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
3	V	-
4	BR	-
5	R	-
6	GR	-

Connector No.	RI
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-GS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	Y	-
4	W	-
5	SHIELD	-
6	O	-
7	B	-
8	L	-
9	Y	-
10	B	-
11	V	-
12	R	-
18	B	-
19	BR	-
20	G	-

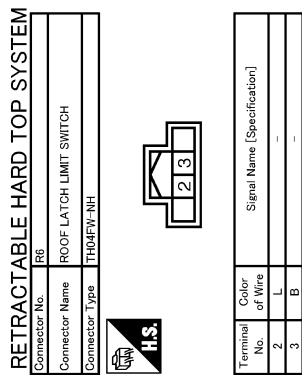
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JCKWM4009G1

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >



JCKWM4010G1

INFOID:000000005897737

Fail-safe

FAIL-SAFE CONTROL BY DTC

Retractable hard top control unit performs fail-safe control when any DTC are detected.

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III		Fail-safe	Cancellation
U1000	CAN COMM CIRCUIT	Inhibit retractable hard top operation.	Communication is normal
U1010	CONTROL UNIT (CAN)	Inhibit retractable hard top operation.	Communication is normal
U0140	LOCAL COMM-1	Inhibit retractable hard top operation.	Communication is normal
U0215	LOCAL COMM-1	Inhibit retractable hard top operation.	Communication is normal
B1701	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Replace retractable hard top control unit.
B1702	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Replace retractable hard top control unit.
B1709	ROOF SWITCH(OPEN)	Inhibit retractable hard top operation.	Detects roof open/close switch (OPEN) is OFF
B170A	ROOF SWITCH(CLOSE)	Inhibit retractable hard top operation.	Detects roof open/close switch (CLOSE) is OFF
B170B	ROOF SWITCH	Inhibit retractable hard top operation.	Detects roof open/close switch (OPEN/CLOSE) is OFF
B170C	TRUNK LINK SENSOR(LH)	Inhibit retractable hard top operation.	Detects normal value
B170D	TRUNK LINK SENSOR(RH)	Inhibit retractable hard top operation.	Detects normal value
B170F	SENSOR POWER SUPPLY	Inhibit retractable hard top operation.	Detects normal value
B1710	LATCH STATUS SENSOR	Inhibit retractable hard top operation.	Detects normal value
B1711	LATCH LOCK SENSOR	Inhibit retractable hard top operation.	Detects normal value
B1712	TRUNK STATUS SENSOR	Inhibit retractable hard top operation.	Detects normal value
B1715	ROOF STATUS SEN PWR	Inhibit retractable hard top operation.	Detects normal value
B1716	PS STATUS SEN(DRAW)	Inhibit retractable hard top operation.	Detects normal value
B1718	PS STATUS SEN(ROTA)	Inhibit retractable hard top operation.	Detects normal value
B1719	ROOF STATUS SEN	Inhibit retractable hard top operation.	Detects normal value
B171A	HYDRAULIC PMP(LH)	Inhibit retractable hard top operation.	Detects normal value
B171B	HYDRAULIC PMP(RH)	Inhibit retractable hard top operation.	Detects normal value
B171C	SWITCHING VALVE 1	Inhibit retractable hard top operation.	Detects normal value
B171D	SWITCHING VALVE 2	Inhibit retractable hard top operation.	Detects normal value
B171E	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B171F	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1720	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1721	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1722	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1723	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1724	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1725	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1726	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1728	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1729	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B172A	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B172B	ROOF STATE SIG(AUDIO)	Inhibit retractable hard top operation.	Detects normal value
B172C	ROOF STATE SIG(TRUNK)	Inhibit retractable hard top operation.	Detects normal value
B172D	ROOF WARNING BUZZER	Inhibit retractable hard top operation.	Detects normal value
B172E	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value

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RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III		Fail-safe	Cancellation
B172F	REAR PWR WINDOW(LH)	Inhibit retractable hard top operation.	Detects normal value
B1730	REAR PWR WINDOW(RH)	Inhibit retractable hard top operation.	Detects normal value
B1731	HYDRAULIC STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1732	HYDRAULIC STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1733	HYDRAULIC STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1734	HYDRAULIC STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1735	HYDRAULIC STATE 5	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1736	HYDRAULIC STATE 6	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1737	HYDRAULIC STATE 7	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1738	HYDRAULIC STATE 8	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1739	HYDRAULIC STATE 9	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173A	HYDRAULIC STATE 10	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173B	HYDRAULIC STATE 11	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173C	HYDRAULIC STATE 12	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173D	HYDRAULIC STATE 13	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173E	HYDRAULIC STATE 14	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173F	HYDRAULIC STATE 15	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1740	HYDRAULIC STATE 16	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1741	HYDRAULIC STATE 17	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1742	HYDRAULIC STATE 18	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1743	HYDRAULIC STATE 19	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1744	HYDRAULIC STATE 20	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1745	HYDRAULIC STATE 21	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1746	HYDRAULIC STATE 22	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1747	P SHELF (DRAW) STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1748	P SHELF (DRAW) STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1749	P SHELF (DRAW) STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF
B174A	P SHELF (DRAW) STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF
B174B	P SHELF (DRAW) STATE 5	Inhibit retractable hard top operation.	Turn ignition switch OFF
B174C	P SHELF (DRAW) STATE 6	Inhibit retractable hard top operation.	Turn ignition switch OFF
B174D	P SHELF (ROT) STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF
B174E	P SHELF (ROT) STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF
B174F	P SHELF (ROT) STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1750	P SHELF (ROT) STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1751	ROOF LATCH STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1752	ROOF LATCH STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1753	ROOF LATCH STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1754	FLIPPER DOOR STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1755	FLIPPER DOOR STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III		Fail-safe	Cancellation
B1756	FLIPPER DOOR STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1757	FLIPPER DOOR STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1758	THERMO PROTECTION	Inhibit retractable hard top operation.	It is not in thermo protection area (Refer to RF-16. "RETRACTABLE HARD TOP SYSTEM : System Description")
B175C	PWR SOURCE(ROOF)	Inhibit retractable hard top operation.	Power source is 11.4 (V) or more for 0.5 second
B175D	PWR SOURCE(ROOF)	Inhibit retractable hard top operation.	Power source is 14.5 (V) or more for 4 seconds
B175E	PWR SOURCE(WINDOW)	Inhibit retractable hard top operation and rear power window operation.	Power source (power window) is 9.5 (V) or less
B175F	PWR SOURCE(WINDOW)	Inhibit retractable hard top operation and rear power window operation.	Power source (power window) is 15.5 (V) or more
B1760	ROOF CONTROL UNIT	Inhibit rear window defogger operation.	Detects normal value
B1761	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1762	ROOF STATE	Inhibit retractable hard top operation.	Detects normal value
B1763	HYDRAULIC STATE	Inhibit retractable hard top operation.	Detects normal value
B1764	ROOF LATCH STATE	Inhibit retractable hard top operation.	Detects normal value
B1765	FLIPPER DOOR STATE	Inhibit retractable hard top operation.	Detects normal value

DTC Inspection Priority Chart

INFOID:000000005897738

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

Priority	Display contents of CONSULT-III	
1	U1000	CAN COMM CIRCUIT
	U1010	CONTROL UNIT (CAN)
2	B175C	PWR SOURCE(ROOF)
	B175D	PWR SOURCE(ROOF)
	B175E	PWR SOURCE(WINDOW)
	B175F	PWR SOURCE(WINDOW)

PWC

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Priority	Display contents of CONSULT-III	
3	B1701	ROOF CONTROL UNIT
	B1702	ROOF CONTROL UNIT
	B171E	ROOF CONTROL UNIT
	B171F	ROOF CONTROL UNIT
	B1720	ROOF CONTROL UNIT
	B1721	ROOF CONTROL UNIT
	B1722	ROOF CONTROL UNIT
	B1723	ROOF CONTROL UNIT
	B1724	ROOF CONTROL UNIT
	B1725	ROOF CONTROL UNIT
	B1726	ROOF CONTROL UNIT
	B1728	ROOF CONTROL UNIT
	B1729	ROOF CONTROL UNIT
	B172A	ROOF CONTROL UNIT
	B172E	ROOF CONTROL UNIT
	B1760	ROOF CONTROL UNIT
	B1761	ROOF CONTROL UNIT
4	B170F	SENSOR POWER SUPPLY
5	U0140	LOCAL COMM-1
	U0215	LOCAL COMM-1
	B1709	ROOF SWITCH(OPEN)
	B170A	ROOF SWITCH(CLOSE)
	B170B	ROOF SWITCH
	B1758	THERMO PROTECTION
	B171A	HYDRAULIC PMP(LH)
	B171B	HYDRAULIC PMP(RH)
	B171C	SWITCHING VALVE 1
	B171D	SWITCHING VALVE 2
	B172F	REAR PWR WINDOW(LH)
	B1730	REAR PWR WINDOW(RH)
	B1715	ROOF STATE SEN PWR
	B170C	TRUNK LINK SENSOR(LH)
	B170D	TRUNK LINK SENSOR(RH)
	B1710	LATCH STATUS SENSOR
	B1711	LATCH LOCK SENSOR
	B1712	TRUNK STATUS SENSOR
	B1716	PS STATUS SEN(ROTA)
B1718	PS STATUS SEN(DRAW)	
B1719	ROOF STATUS SEN	
6	B172D	ROOF WARNING BUZZER

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Priority	Display contents of CONSULT-III		
7	B1731	HYDRAULIC STATE 1	A
	B1732	HYDRAULIC STATE 2	
	B1733	HYDRAULIC STATE 3	B
	B1734	HYDRAULIC STATE 4	
	B1735	HYDRAULIC STATE 5	
	B1736	HYDRAULIC STATE 6	C
	B1737	HYDRAULIC STATE 7	
	B1738	HYDRAULIC STATE 8	D
	B1739	HYDRAULIC STATE 9	
	B173A	HYDRAULIC STATE 10	
	B173B	HYDRAULIC STATE 11	E
	B173C	HYDRAULIC STATE 12	
	B173D	HYDRAULIC STATE 13	
	B173E	HYDRAULIC STATE 14	F
	B173F	HYDRAULIC STATE 15	
	B1740	HYDRAULIC STATE 16	G
	B1741	HYDRAULIC STATE 17	
	B1742	HYDRAULIC STATE 18	
	B1743	HYDRAULIC STATE 19	H
	B1744	HYDRAULIC STATE 20	
	B1745	HYDRAULIC STATE 21	I
	B1746	HYDRAULIC STATE 22	
	B1747	P SHELF (DRAW) STATE 1	J
	B1748	P SHELF (DRAW) STATE 2	
	B1749	P SHELF (DRAW) STATE 3	
	B174A	P SHELF (DRAW) STATE 4	PWC
	B174B	P SHELF (DRAW) STATE 5	
	B174C	P SHELF (DRAW) STATE 6	
	B174D	P SHELF (ROT) STATE 1	L
	B174E	P SHELF (ROT) STATE 2	
	B174F	P SHELF (ROT) STATE 3	
	B1750	P SHELF (ROT) STATE 4	M
B1751	ROOF LATCH STATE 1		
B1752	ROOF LATCH STATE 2	N	
B1753	ROOF LATCH STATE 3		
B1754	FLIPPER DOOR STATE 1		
B1755	FLIPPER DOOR STATE 2	O	
B1756	FLIPPER DOOR STATE 3		
B1757	FLIPPER DOOR STATE 4	P	
8	B1707	ROOF OPEN STATE	
	B1708	ROOF CLOSE STATE	
9	B1764	ROOF LATCH STATE	
	B1765	FLIPPER DOOR STATE	
10	B1762	ROOF STATE	

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Priority	Display contents of CONSULT-III	
11	B1763	HYDRAULIC STATE
12	B172B	ROOF STATE SIG(AUDIO)
	B172C	ROOF STATE SIG(TRUNK)

DTC Index

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NOTE:

For details of Freeze Frame Data, refer to [RF-41. "CONSULT-III Function"](#).

Display contents of CONSULT-III		Fail-safe	Freeze Frame Data	Reference page
No DTC is detected. Further testing may be required.		—	—	—
U1000	CAN COMM CIRCUIT	×	×	RF-90
U1010	CONTROL UNIT (CAN)	×	×	RF-91
U0140	LOCAL COMM-1	×	×	RF-92
U0215	LOCAL COMM-2	×	×	RF-93
B1701	ROOF CONTROL UNIT	×	×	RF-95
B1702	ROOF CONTROL UNIT	×	×	RF-96
B1707	ROOF OPEN STATE	—	×	RF-97
B1708	ROOF CLOSE STATE	—	×	RF-99
B1709	ROOF SWITCH(OPEN)	×	×	RF-101
B170A	ROOF SWITCH(CLOSE)	×	×	RF-103
B170B	ROOF SWITCH	×	×	RF-105
B170C	TRUNK LINK SENSOR(LH)	×	×	RF-107
B170D	TRUNK LINK SENSOR(RH)	×	×	RF-109
B170F	SENSOR POWER SUPPLY	×	×	RF-111
B1710	LATCH STATUS SENSOR	×	×	RF-114
B1711	LATCH LOCK SENSOR	×	×	RF-116
B1712	TRUNK STATUS SENSOR	×	×	RF-118
B1715	ROOF STATUS SEN PWR	×	×	RF-120
B1716	PS STATUS SEN(DRAW)	×	×	RF-122
B1718	PS STATUS SEN(ROTA)	×	×	RF-124
B1719	ROOF STATUS SEN	×	×	RF-126
B171A	HYDRAULIC PMP(LH)	×	×	RF-128
B171B	HYDRAULIC PMP(RH)	×	×	RF-130
B171C	SWITCHING VALVE 1	×	×	RF-132
B171D	SWITCHING VALVE 2	×	×	RF-134
B171E	ROOF CONTROL UNIT	×	×	RF-136
B171F	ROOF CONTROL UNIT	×	×	RF-137
B1720	ROOF CONTROL UNIT	×	×	RF-138
B1721	ROOF CONTROL UNIT	×	×	RF-139
B1722	ROOF CONTROL UNIT	×	×	RF-140
B1723	ROOF CONTROL UNIT	×	×	RF-141
B1724	ROOF CONTROL UNIT	×	×	RF-142
B1725	ROOF CONTROL UNIT	×	×	RF-143
B1726	ROOF CONTROL UNIT	×	×	RF-144

RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III		Fail-safe	Freeze Frame Data	Reference page
B1728	ROOF CONTROL UNIT	×	×	RF-145
B1729	ROOF CONTROL UNIT	×	×	RF-146
B172A	ROOF CONTROL UNIT	×	×	RF-147
B172B	ROOF STATE SIG(AUDIO)	×	×	RF-148
B172C	ROOF STATE SIG(TRUNK)	×	×	RF-150
B172D	ROOF WARNING BUZZER	×	×	RF-152
B172E	ROOF CONTROL UNIT	×	×	RF-154
B172F	REAR PWR WINDOW(LH)	×	×	RF-155
B1730	REAR PWR WINDOW(RH)	×	×	RF-157
B1731	HYDRAULIC STATE 1	×	×	RF-159
B1732	HYDRAULIC STATE 2	×	×	RF-161
B1733	HYDRAULIC STATE 3	×	×	RF-163
B1734	HYDRAULIC STATE 4	×	×	RF-165
B1735	HYDRAULIC STATE 5	×	×	RF-167
B1736	HYDRAULIC STATE 6	×	×	RF-169
B1737	HYDRAULIC STATE 7	×	×	RF-170
B1738	HYDRAULIC STATE 8	×	×	RF-171
B1739	HYDRAULIC STATE 9	×	×	RF-172
B173A	HYDRAULIC STATE 10	×	×	RF-173
B173B	HYDRAULIC STATE 11	×	×	RF-174
B173C	HYDRAULIC STATE 12	×	×	RF-175
B173D	HYDRAULIC STATE 13	×	×	RF-176
B173E	HYDRAULIC STATE 14	×	×	RF-177
B173F	HYDRAULIC STATE 15	×	×	RF-178
B1740	HYDRAULIC STATE 16	×	×	RF-179
B1741	HYDRAULIC STATE 17	×	×	RF-182
B1742	HYDRAULIC STATE 18	×	×	RF-183
B1743	HYDRAULIC STATE 19	×	×	RF-185
B1744	HYDRAULIC STATE 20	×	×	RF-187
B1745	HYDRAULIC STATE 21	×	×	RF-189
B1746	HYDRAULIC STATE 22	×	×	RF-191
B1747	P SHELF (DRAW) STATE 1	×	×	RF-193
B1748	P SHELF (DRAW) STATE 2	×	×	RF-194
B1749	P SHELF (DRAW) STATE 3	×	×	RF-195
B174A	P SHELF (DRAW) STATE 4	×	×	RF-196
B174B	P SHELF (DRAW) STATE 5	×	×	RF-197
B174C	P SHELF (DRAW) STATE 6	×	×	RF-198
B174D	P SHELF (ROT) STATE 1	×	×	RF-199
B174E	P SHELF (ROT) STATE 2	×	×	RF-200
B174F	P SHELF (ROT) STATE 3	×	×	RF-201
B1750	P SHELF (ROT) STATE 4	×	×	RF-202
B1751	ROOF LATCH STATE 1	×	×	RF-203
B1752	ROOF LATCH STATE 2	×	×	RF-204
B1753	ROOF LATCH STATE 3	×	×	RF-205

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RETRACTABLE HARD TOP CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III		Fail-safe	Freeze Frame Data	Reference page
B1754	FLIPPER DOOR STATE 1	×	×	RF-206
B1755	FLIPPER DOOR STATE 2	×	×	RF-207
B1756	FLIPPER DOOR STATE 3	×	×	RF-208
B1757	FLIPPER DOOR STATE 4	×	×	RF-209
B1758	THERMO PROTECTION	×	×	RF-210
B175C	PWR SOURCE(ROOF)	×	×	RF-211
B175D	PWR SOURCE(ROOF)	×	×	RF-212
B175E	PWR SOURCE(WINDOW)	×	×	RF-213
B175F	PWR SOURCE(WINDOW)	×	×	RF-215
B1760	ROOF CONTROL UNIT	×	×	RF-217
B1761	ROOF CONTROL UNIT	×	×	RF-218
B1762	ROOF STATE	×	×	RF-219
B1763	HYDRAULIC STATE	×	×	RF-222
B1764	ROOF LATCH STATE	×	×	RF-224
B1765	FLIPPER DOOR STATE	×	×	RF-225

POWER WINDOW MAIN SWITCH

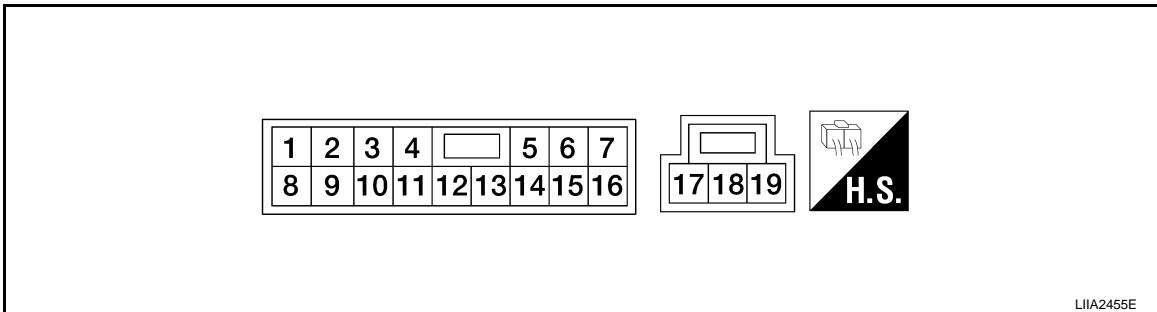
< ECU DIAGNOSIS INFORMATION >

POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000005627149

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW MAIN SWITCH

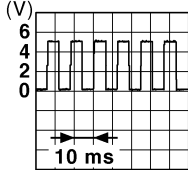
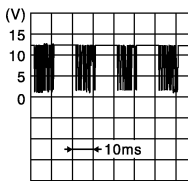
Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
2 (G)	Ground	Encoder ground	—	—	0
4 (V)	Ground	Door key cylinder switch LOCK signal	Input	Key position (Neutral → Locked)	5 → 0
5 (BR)	Ground	Driver side door switch	Input	OFF (Door close)	<p style="text-align: right; font-size: small;">JPMIA0011GB</p>
				ON (Door open)	0
6 (W)	Ground	Door key cylinder switch UNLOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0
8 (L)	Ground	Driver side power window mo- tor UP signal	Output	Power window main switch (Driver side) is UP at operated.	Battery voltage
9 (W)	Ground	Encoder pulse signal 2	Input	When power window mo- tor operates.	<p style="text-align: right; font-size: small;">JMKIA0070GB</p>

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

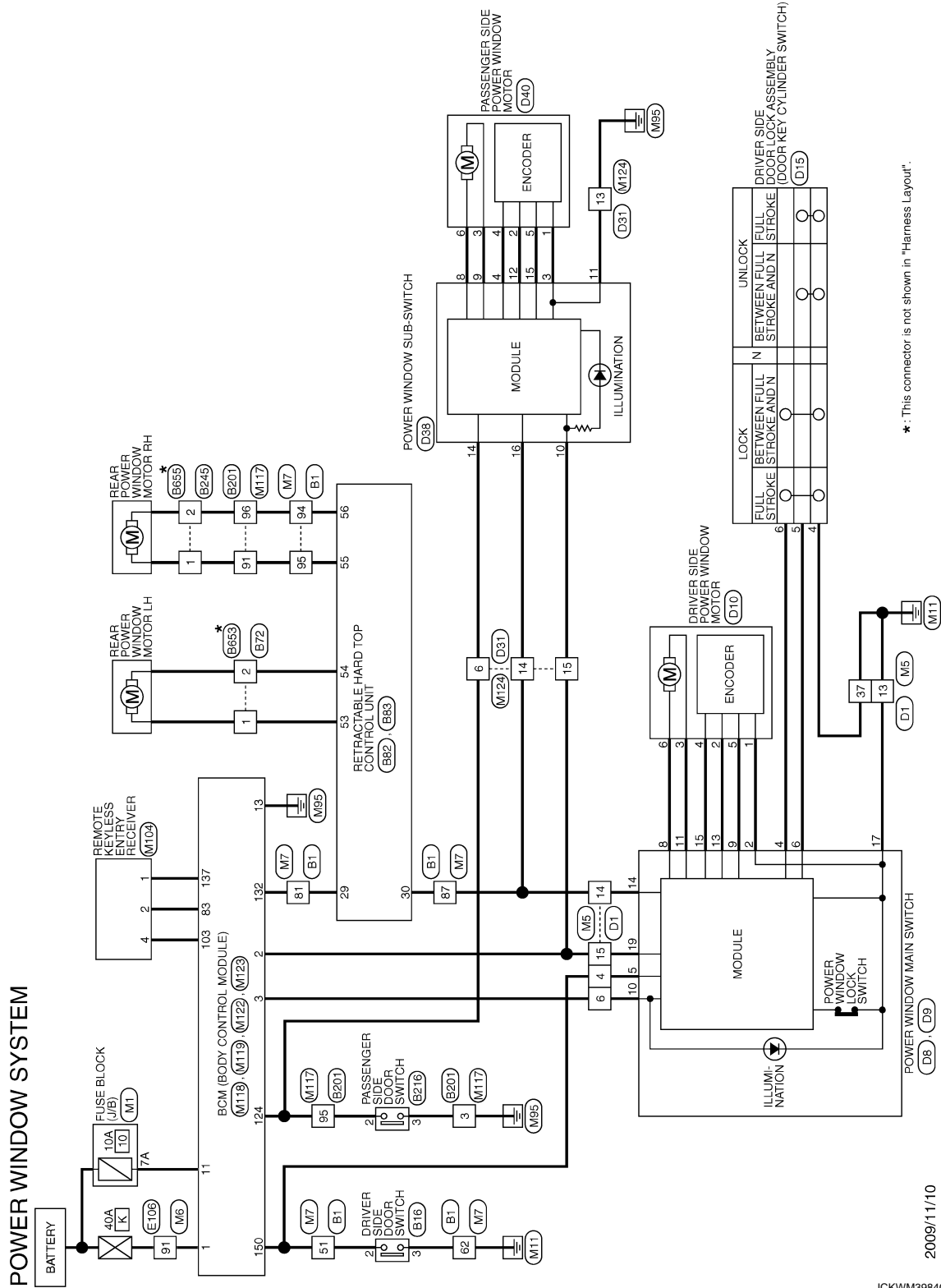
Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
10 (SB)	Ground	Rap signal	Input	IGN SW ON	Battery voltage
				Within 45 second after ignition switch is turned to OFF	Battery voltage
				When driver side or passenger side door is opened during retained power operation	0
11 (BR)	Ground	Driver side power window motor DOWN signal	Output	Power window main switch (Driver side) is DOWN at operated.	Battery voltage
13 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates.	 <p style="text-align: right; font-size: small;">JMKIA0070GB</p>
14 (V)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	 <p style="text-align: right; font-size: small;">JMKIA4024GB</p>
15 (O)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	Battery voltage
17 (B)	Ground	Ground	—	—	0
19 (Y)	Ground	Battery power supply	Input	—	Battery voltage

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

INFOID:000000005627150



*: This connector is not shown in "Harness Layout".

2009/11/10

JCKWM3984GI

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

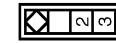
POWER WINDOW SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM44



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
8	G	-
10	BR	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

Connector No.	B16
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	-
3	B	-

Connector No.	B12
Connector Name	WIRE TO WIRE
Connector Type	MS2MW-CS



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

Connector No.	B82
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	TH80FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	ROOF OPEN / CLOSE SWITCH (OPEN)
2	BR	ROOF OPEN / CLOSE SWITCH (CLOSE)

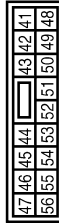
3	B	FLIPPER DOOR LIMIT SWITCH GND
4	L	TONNEAU BOARD SWITCH
5	SB	TRUNK ROOM LAMP SWITCH
6	L	ROOF LATCH LIMIT SWITCH
7	W	FLIPPER DOOR LIMIT SWITCH (UP)
8	G	FLIPPER DOOR LIMIT SWITCH (DOWN)
11	W	RETAINED ACC POWER
12	Y	REVERSE SIGNAL
13	BG	PARCEL SHELF STATUS SENSOR POWER SUPPLY
14	P	TRUNK LINK SENSOR SIGNAL (LH)
15	SB	TRUNK LINK SENSOR SIGNAL (RH)
16	GR	ROOF LATCH STATUS SENSOR SIGNAL
17	G	ROOF LATCH LOCK SENSOR SIGNAL
18	LG	TRUNK STATUS SENSOR SIGNAL
22	V	ROOF STATUS SENSOR POWER SUPPLY
23	B	ROOF STATUS SENSOR GND
24	GR	PARCEL SHELF STATUS SENSOR SIGNAL (DRAW)
25	R	PARCEL SHELF STATUS SENSOR SIGNAL (ROTATION)
26	P	ROOF STATUS SENSOR SIGNAL
27	Y	TRUNK LID OPEN REQUEST SIGNAL
28	BG	FLIPPER DOOR RELAY GND
29	V	LOCAL COMMUNICATION (BGM)
30	GR	LOCAL COMMUNICATION (POWER WINDOW)
31	L	CAV-H
32	P	CAV-L
33	V	ROOF STATUS SIGNAL (AUDIO)
34	R	ROOF STATUS SIGNAL (TRUNK)
35	B	ROOF WARNING BUZZER
36	Y	HYDRAULIC MOTOR RELAY GND (RH)
37	W	HYDRAULIC MOTOR RELAY GND (LH)
38	BR	HYDRAULIC MOTOR RELAY POWER SUPPLY

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

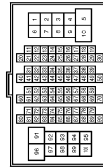
POWER WINDOW SYSTEM

Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NS16FR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
41	SB	PARCEL SHELF MOTOR RELAY GND (UP)
42	W	PARCEL SHELF MOTOR RELAY GND (DOWN)
43	BR	HYDRAULIC PUMP POWER SUPPLY RELAY
44	R	MOTOR PARCEL SHELF (HORIZONTAL)
45	BR	MOTOR PARCEL SHELF (VERTICAL)
46	G	FLIPPER DOOR RELAY POWER SUPPLY (UP)
47	L	FLIPPER DOOR RELAY POWER SUPPLY (DOWN)
48	R	ROOF LATCH MOTOR (OPEN)
49	Y	ROOF LATCH MOTOR (CLOSE)
51	SB	TRUNK OPENER ACTUATOR
52	V	TRUNK OPENER ACTUATOR GND
53	BG	REAR POWER WINDOW MOTOR LH (UP)
54	LG	REAR POWER WINDOW MOTOR LH (DOWN)
55	GR	REAR POWER WINDOW MOTOR RH (UP)
56	P	REAR POWER WINDOW MOTOR RH (DOWN)

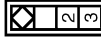
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FY-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
3	B	
5	W	
6	R	
7	B	[With climate controlled seat]
7	G	[Without climate controlled seat]
8	BG	

9	GR	
10	LG	
40	GR	
41	LG	
42	BG	
43	R	
44	SHIELD	
45	G	
47	G	
48	Y	
49	SHIELD	
50	P	
51	SB	
52	LG	
53	L	
54	G	
55	GR	
56	LG	
57	G	
58	R	
67	L	
68	P	
80	G	
81	R	
82	W	
83	B	
84	SHIELD	
85	O	
86	BR	
87	Y	
88	SHIELD	
89	SB	
90	V	
91	GR	
92	P	
92	Y	[With BOSE system]
92	Y	[Without BOSE system]
93	L	
94	SB	
95	V	
96	P	
97	L	[With BOSE system]
97	LG	[Without BOSE system]
98	Y/B	
99	Y	

Connector No.	B216
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A33FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	V	
3	B	

Connector No.	B245
Connector Name	WIRE TO WIRE
Connector Type	NS22MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	P	

Connector No.	B853
Connector Name	WIRE TO WIRE
Connector Type	NS22FW-CS



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

Connector No.	B655
Connector Name	WIRE TO WIRE
Connector Type	NS22FW-CS



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

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PWC

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

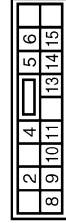
Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	-
5	P	- [With A/T]
6	SB	- [With M/T]
7	R	-
8	G	-
9	P	-
10	LG	-
11	W	-
12	L	-
13	B	-
14	V	-
15	Y	-
16	Y/B	-
17	Y	-
20	V	-
21	R	-
22	P	-
23	O	-
24	Y	-
25	SB	-
26	GR	-
27	GR	-
28	LG	-
29	G	-
30	Y	-
31	W	-
32	BR	-
33	L	-
34	R	-
35	V	-
37	B	-
38	O	-
39	GR	-
40	G	-
41	Y	-
42	LG	-
43	BR	-


44	V	-
45	P	-
46	W	-
47	V	-
48	P	-
49	W	-
50	SB	-
51	R	-
52	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
4	V	-
5	BR	-
6	W	-
8	L	-
9	W	-
10	SB	-
11	BR	-
13	R	-
14	V	-
15	O	-


Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS50FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
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17	B	-
18	Y	-

Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	PH60FGY-Z



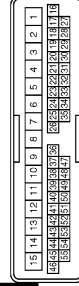
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	O	-
5	W	-
6	L	-

Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ASSEMBLY
Connector Type	ED0FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	B	-
5	W	-
6	V	-

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



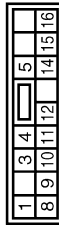
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	R	-
8	G	-
9	P	-
10	LG	-
11	W	-
12	L	-
13	B	-
14	Y	-
15	W	-
34	Y	-
35	Y/B	-
38	O	-
39	GR	-
40	G	-
41	Y	-
42	LG	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	V	-
48	P	-
49	W	-
50	SB	-
51	R	-
52	L	-
53	O	-
54	GR	-
55	G	-

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

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



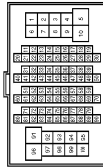
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
3	O	
4	L	
5	V	
8	W	
9	B	
10	R	
11	BR	
12	SB	
14	Y	
15		
16		

Connector No.	D40
Connector Name	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	FH80FCY-Z



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	R	
3	V	
4	O	
5	SB	
6	L	

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TR80FT-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
3	BG	
4	B/W	
5	G	
6	BG	
7	LG	
8	G	
10	W	
11	V	
12	R	
13	L	
14	GR	
15	P	
16	W	
17	V	
18	BG	
19	GR	
20	LG	
30	R	
31	L	
32	BG	
33	P	
34	V	
35	BR	
36	W	
37	Y	
38	R	
39	B	
40	G	
41	W	
42	LG	
43	SB	
44	GR	
45	BG	
46	LG	
47	V	
48	P	
49	L	

59	B	
66	LG	
67	SB	
68	R	
69	W	
70	G	
80	W	
81	P	
82	G	
83	V	
84	L	
85	BG	
86	LG	
87	Y	
88	GR	
89	W	
90	W	
91	G	
92	B	
93	GR	
94	L	
95	Y	
97	BR	
98	SHIELD	
99	L	
100	P	

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	
2A	G	
3A	L	
4A	P	
5A	BR	
6A	Y	
7A	GR	
8A	L	

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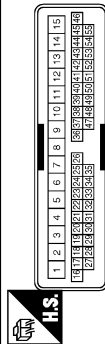
PWC

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

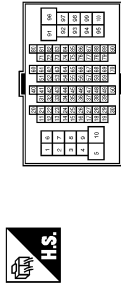
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	B	-
6	BG	-
7	W	-
8	B	-
9	G	-
10	V	-
11	W	-
12	L	-
13	B	-
14	GR	-
15	Y	-
16	Y/B	-
17	Y	-
20	BG	-
21	W	-
22	P	-
23	BG	-
24	V	-
25	BR	-
26	R	-
27	P	-
28	LG	-
29	SB	-
30	G	-
31	V	-
32	BR	-
33	GR	-
34	G	-
35	L	-
37	B	-
38	G	- [With automatic drive positioner] - [Without automatic drive positioner]
39	BR	- [With automatic drive positioner] - [Without automatic drive positioner]
40	Y	- [Without automatic drive positioner]
41	BR	- [With automatic drive positioner] - [Without automatic drive positioner]
41	G	- [Without automatic drive positioner]

42	R	-
43	G	-
44	Y	-
45	GR	-
46	BR	-
47	V	-
48	LG	-
49	P	-
50	SB	-
51	GR	-
52	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-

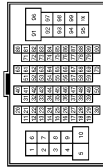
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	- [With A/T] - [With M/T]
45	BG	-
46	G	-
47	P	-
48	P	-
49	B	-
59	Y	-
67	G	-
68	R	-
69	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	BG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



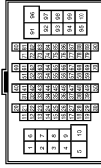
Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	LG	-
3	G	-
4	Y	-
5	L	-
6	B	-
7	L	-
8	BR	-
9	SHIELD	-
10	BR	-
11	SHIELD	-
12	SHIELD	-
13	Y	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
18	BR	-
19	G	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	Y	-
27	V	-
28	P	-
29	V	-
30	SHIELD	-
31	SHIELD	-
32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

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



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

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	B	-
5	SB	-
6	R	-
7	G	-
8	SB	-
9	GR	-
10	LG	-
40	Y	-
41	G	-
42	LG	-
43	R	-
44	SHIELD	-
45	G	-
47	P	-
48	L	-
49	SHIELD	-
50	V	-
51	SB	-

52	BG	-
53	L	-
54	G	-
55	Y	-
56	LG	-
57	SB	-
58	LG	-
67	SB	-
68	LG	-
80	W	-
81	B	-
82	R	-
83	G	-
84	SHIELD	-
85	G	-
86	L	-
87	P	-
88	SHIELD	-
89	Y	-
90	W	-
91	GR	-
92	P	-
93	W	-
94	BG	-
95	BG	-
96	P	-
97	L	-
98	Y/B	-
99	Y	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	IM03FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19					

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

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
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Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTENNA AMP
81	W	NATS ANTENNA AMP

82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHIFT P [With A/T]
99	R	ASOD/ICG CLUTCH SW [With M/T]
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
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Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN F/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	LG	P/W SW & RHT C/U COMM

133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR CMD
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT IN/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Terminal No.	Color of Wire	Signal Name [Specification]
6	BG	-
7	R	-
8	G	-
9	P	-
10	V	-
11	SB	- [With BOSE system]
11	GR	- [Without BOSE system]
12	BR	-
13	B	-
14	G	-
15	W	-
34	Y	-
35	Y/B	-
38	W	-
39	BG	-
40	SB	-
41	BR	- [With automatic drive positioner]
41	G	- [Without automatic drive positioner]
42	R	-
43	L	-
44	Y	-

Fail Safe

FAIL-SAFE CONTROL

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

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

Error	Error condition
Pulse sensor malfunction	When only one side of pulse signal is being detected for more than the specified value.
Both pulse sensors malfunction	When both pulse signals have not been detected for more than the specified value during glass open/close operation.
Pulse direction malfunction	When the pulse signal that is detected during glass open/close operation detects the opposite condition of power window motor operating direction.
Glass recognition position malfunction 1	When it detects the error between glass fully closed position in power window switch memory and actual fully closed position during glass open/close operation is more than the specified value.
Glass recognition position malfunction 2	When it detects pulse count more than the value of glass full stroke during glass open/close operation.
Malfunction of not yet updated closed position of glass	When glass open/close operation is continuously performed without fully closing more than the specified value (approximately 10 strokes).

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

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

Perform initial operation to recover when switched to fail-safe mode. However, it switches back to fail-safe control when malfunction is found in power window switch or in motor.

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POWER WINDOW SUB-SWITCH

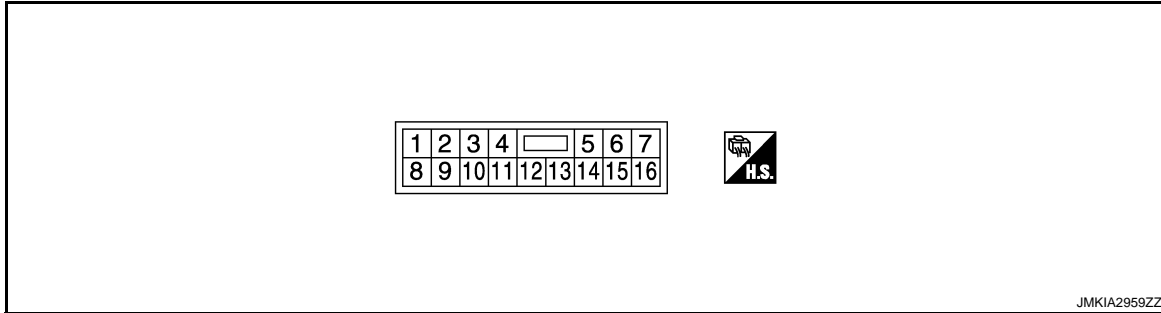
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POWER WINDOW SUB-SWITCH

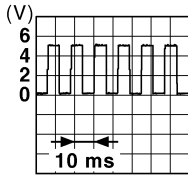
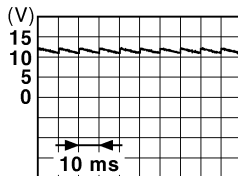
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TERMINAL LAYOUT

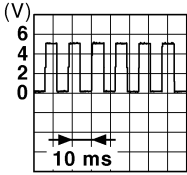
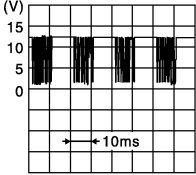


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
3 (G)	Ground	Encoder ground	—	—	0
4 (O)	Ground	Encoder power supply	Output	When ignition switch ON or automatic window operates adjusting	Battery voltage
8 (L)	Ground	Power window motor UP signal	Output	When power window motor is operated UP	Battery voltage
9 (V)	Ground	Power window motor DOWN signal	Output	When power window motor is operated DOWN	Battery voltage
10 (W)	Ground	Battery power supply	Input	—	Battery voltage
11 (B)	Ground	Ground	—	—	0
12 (R)	Ground	Encoder pulse signal 1	Input	When power window motor operates	 JMKIA0070GB
14 (BR)	Ground	Passenger side door switch	Input	OFF (Door close)	 JPMIA0011GB
				ON (Door open)	0

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
15 (SB)	Ground	Encoder pulse signal 2	Input	When power window motor operates	 <p style="text-align: right; font-size: small;">JMKIA0070GB</p>
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA4024GB</p>

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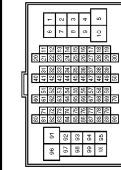
PWC

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

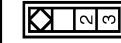
POWER WINDOW SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
7	G	-
8	BR	-
9	GR	-
10	BR	-
11	SHIELD	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [With climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

Connector No.	B16
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03PW



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	-
3	B	-

Connector No.	B72
Connector Name	WIRE TO WIRE
Connector Type	HS22MW-CS



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

Connector No.	B82
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	TH00FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	ROOF OPEN / CLOSE SWITCH (OPEN)
2	BR	ROOF OPEN / CLOSE SWITCH (CLOSE)

3	B	FLIPPER DOOR LIMIT SWITCH GND
4	L	TOYOTAU BOARD SWITCH
5	SB	TRUNK ROOM LAMP SWITCH
6	L	ROOF LATCH LIMIT SWITCH
7	W	FLIPPER DOOR LIMIT SWITCH (UP)
8	G	FLIPPER DOOR LIMIT SWITCH (DOWN)
11	W	RETAINED ACC POWER
12	Y	REVERSE SIGNAL
13	BG	PARCEL SHELF STATUS SENSOR POWER SUPPLY
14	P	TRUNK LINK SENSOR SIGNAL (LH)
15	SB	TRUNK LINK SENSOR SIGNAL (RH)
16	GR	ROOF LATCH STATUS SENSOR SIGNAL
17	G	ROOF LATCH LOCK SENSOR SIGNAL
18	LG	TRUNK STATUS SENSOR SIGNAL
22	V	ROOF STATUS SENSOR POWER SUPPLY
23	B	ROOF STATUS SENSOR GND
24	GR	PARCEL SHELF STATUS SENSOR SIGNAL (DRAW)
25	R	PARCEL SHELF STATUS SENSOR SIGNAL (ROTATION)
26	P	ROOF STATUS SENSOR SIGNAL
27	Y	TRUNK LD OPEN REQUEST SIGNAL
28	BG	FLIPPER DOOR RELAY GND
29	V	LOCAL COMMUNICATION (ECM)
30	GR	LOCAL COMMUNICATION (POWER WINDOW)
31	L	CAV-H
32	P	CAV-L
33	V	ROOF STATUS SIGNAL (AUDIO)
34	R	ROOF STATUS SIGNAL (TRUNK)
35	B	ROOF WARNING BUZZER
36	Y	HYDRAULIC MOTOR RELAY GND (RH)
37	W	HYDRAULIC MOTOR RELAY GND (LH)
38	BR	HYDRAULIC MOTOR RELAY POWER SUPPLY

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POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

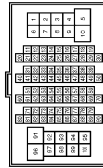
Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	HS16FR-CS



47	46	45	44	43	42	41
56	55	54	53	52	51	50
49	48	47	46	45	44	43
42	41	40	39	38	37	36

Terminal No.	Color of Wire	Signal Name [Specification]
41	SB	PARCEL SHELF MOTOR RELAY GND (UP)
42	W	PARCEL SHELF MOTOR RELAY GND (DOWN)
43	BR	HYDRAULIC PUMP POWER SUPPLY RELAY
44	R	MOTOR PARCEL SHELF (HORIZONTAL)
45	BR	MOTOR PARCEL SHELF (VERTICAL)
46	G	FLIPPER DOOR RELAY POWER SUPPLY (UP)
47	L	FLIPPER DOOR RELAY POWER SUPPLY (DOWN)
48	R	ROOF LATCH MOTOR (OPEN)
49	Y	ROOF LATCH MOTOR (CLOSE)
51	SB	TRUNK OPENER ACTUATOR
52	V	TRUNK OPENER ACTUATOR GND
53	BG	REAR POWER WINDOW MOTOR LH (UP)
54	LG	REAR POWER WINDOW MOTOR LH (DOWN)
55	GR	REAR POWER WINDOW MOTOR RH (UP)
56	P	REAR POWER WINDOW MOTOR RH (DOWN)

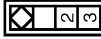
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-1M4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	B	-
5	W	-
6	R	-
7	B	- [With climate controlled seat]
7	G	- [Without climate controlled seat]
8	BG	-

9	GR	-
10	LG	-
40	GR	-
41	LG	-
42	BG	-
43	R	-
44	SHIELD	-
45	G	-
47	G	-
48	Y	-
49	SHIELD	-
50	P	-
51	SB	-
52	LG	-
53	L	-
54	G	-
55	GR	-
56	LG	-
57	G	-
58	R	-
67	L	-
68	P	-
80	G	-
81	R	-
82	W	-
83	B	-
84	SHIELD	-
85	O	-
86	BR	-
87	Y	-
88	SHIELD	-
89	SB	-
90	V	-
91	GR	-
92	P	- [With BOSE system]
92	Y	- [Without BOSE system]
93	L	-
94	SB	-
95	V	-
96	P	-
97	L	-
97	LG	- [With BOSE system]
97	LG	- [Without BOSE system]
98	Y/B	-
99	Y	-

Connector No.	B216
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	V	-
3	B	-

Connector No.	B245
Connector Name	WIRE TO WIRE
Connector Type	HS02MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	P	-

Connector No.	B653
Connector Name	WIRE TO WIRE
Connector Type	HS02FW-CS



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

Connector No.	B655
Connector Name	WIRE TO WIRE
Connector Type	HS02FW-CS



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

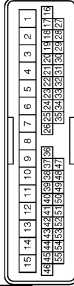
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POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	-
5	P	-
5	B	- [With A/T]
6	SB	- [With M/T]
7	R	-
8	G	-
9	P	-
10	LG	-
11	W	-
12	L	-
13	B	-
14	V	-
15	Y	-
16	Y/B	-
17	Y	-
20	V	-
21	R	-
22	P	-
23	O	-
24	Y	-
25	SB	-
26	GR	-
27	GR	-
28	LG	-
29	G	-
30	Y	-
31	W	-
32	BR	-
33	L	-
34	R	-
35	V	-
37	B	-
38	O	-
39	GR	-
40	G	-
41	Y	-
42	LG	-
43	BR	-

44	V	-
45	P	-
46	W	-
47	P	-
48	W	-
49	W	-
50	SB	-
51	R	-
52	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
4	V	-
5	BR	-
6	W	-
8	L	-
9	W	-
10	SB	-
11	BR	-
13	R	-
14	V	-
15	O	-


Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
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17	B	-
19	Y	-

Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	FH80FGY-Z




Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	O	-
5	W	-
6	L	-

Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ASSEMBLY
Connector Type	ED8FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	B	-
5	W	-
6	V	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	R	-
8	G	-
9	P	-
10	LG	-
11	W	-
12	L	-
13	B	-
14	Y	-
15	W	-
34	Y	-
35	Y/B	-
38	O	-
39	GR	-
40	G	-
41	Y	-
42	LG	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	V	-
48	P	-
49	W	-
50	SB	-
51	R	-
52	L	-
53	O	-
54	GR	-
55	G	-

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POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

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



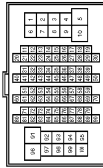
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	
4	O	
8	L	
9	V	
10	W	
11	B	
12	R	
14	BR	
15	SB	
16	Y	

Connector No.	D40
Connector Name	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	FH80BFGY-Z



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	R	
3	V	
4	O	
5	SB	
6	L	

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
3	BG	
4	B/W	
5	G	
6	BG	
7	LG	
8	G	
10	W	
11	V	
12	R	
13	L	
14	GR	
15	P	
16	W	
17	V	
18	BG	
19	GR	
20	LG	
30	R	
31	L	
32	BG	
33	P	
34	V	
35	BR	
36	W	
37	Y	
38	R	
39	B	
40	G	
41	W	
42	LG	
43	SB	
44	GR	
45	BG	
46	LG	
47	V	
48	P	
49	L	

59	B	
66	LG	
67	SB	
68	R	
69	W	
70	G	
80	W	
81	P	
82	G	
83	V	
84	L	
85	BG	
86	LG	
87	Y	
88	GR	
89	W	
90	W	
91	G	
92	B	
93	GR	
94	L	
95	Y	
97	BR	
98	SHIELD	
99	L	
100	P	

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



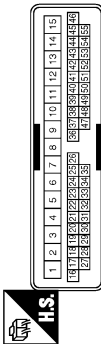
Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	
2A	G	
3A	L	
4A	P	
5A	BR	
6A	Y	
7A	GR	
8A	L	

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	B	-
6	BG	-
7	W	-
8	B	-
9	G	-
10	V	-
11	W	-
12	L	-
13	B	-
14	GR	-
15	Y	-
16	Y/B	-
17	Y	-
20	BG	-
21	W	-
22	P	-
23	BG	-
24	V	-
25	BR	-
26	R	-
27	P	-
28	LG	-
29	SB	-
30	G	-
31	V	-
32	BR	-
33	GR	-
34	G	-
35	L	-
37	B	-
38	L	- [With automatic drive positioner]
39	BR	- [Without automatic drive positioner]
39	BR	- [With automatic drive positioner]
40	L	- [Without automatic drive positioner]
41	BR	- [With automatic drive positioner]
41	G	- [Without automatic drive positioner]

42	R	-
43	G	-
44	Y	-
45	GR	-
46	BR	-
47	V	-
48	LG	-
49	P	-
50	SB	-
51	GR	-
52	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-

37	Y	-
38	LG	-
38	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	- [With A/T]
44	R	- [With M/T]
45	BG	-
46	G	-
47	P	-
48	P	-
49	L	-
59	B	-
66	Y	-
67	G	-
68	R	-
68	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	BG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

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POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

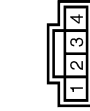
POWER WINDOW SYSTEM

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



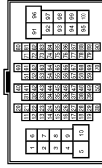
Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	LG	-
3	G	-
4	V	-
5	L	-
6	B	-
8	L	-
10	BR	-
12	SHIELD	-
13	V	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	Y	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	L	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



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

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	B	-
5	SB	-
8	R	-
7	G	-
8	SB	-
9	GR	-
10	LG	-
40	Y	-
41	G	-
42	LG	-
43	R	-
44	SHIELD	-
45	G	-
47	P	-
48	L	-
49	SHIELD	-
50	V	-
51	SB	-

52	BG	-
53	L	-
54	G	-
55	Y	-
56	LG	-
57	SB	-
58	LG	-
67	SB	-
68	LG	-
80	W	-
81	B	-
82	R	-
83	G	-
84	SHIELD	-
85	G	-
86	L	-
87	P	-
88	SHIELD	-
89	Y	-
90	W	-
91	GR	-
92	P	-
93	W	-
94	BG	-
95	BG	-
96	P	-
97	L	-
98	Y/B	-
99	Y	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	IM03FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW SYSTEM

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19					

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

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
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Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NAIS ANTENNA AMP
81	W	NAIS ANTENNA AMP

82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHIFT P (With A/T)
99	R	ASGD/ICG CLUTCH SW (With M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
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Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN F/B
124	BG	PASSENGER DOOR SW
126	BG	TRUNK LID OPENER CANCEL SW
132	LG	P/W SW & RHT C/U COMM

133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR CMD
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT IN/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS1.5



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Terminal No.	Color of Wire	Signal Name [Specification]
6	BG	
7	R	
8	G	
9	P	
10	V	
11	SB	- [With BOSE system]
11	BR	- [Without BOSE system]
12	BR	
13	B	
14	G	
15	W	
34	Y	
35	Y/B	
38	W	
39	BG	
40	SB	
41	BR	- [With automatic drive positioner]
41	G	- [Without automatic drive positioner]
42	R	
43	L	
44	Y	

45	R	
46	W	
47	SB	
48	BR	
49	Y	
50	P	
51	LG	
52	BG	
53	Y	
54	L	
55	L	

Fail Safe

FAIL-SAFE CONTROL

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

JCKWKM3991G1

INFOID:0000000005627154

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PWC

POWER WINDOW SUB-SWITCH

< ECU DIAGNOSIS INFORMATION >

Error	Error condition
Pulse sensor malfunction	When only one side of pulse signal is being detected for more than the specified value.
Both pulse sensors malfunction	When both pulse signals have not been detected for more than the specified value during glass open/close operation.
Pulse direction malfunction	When the pulse signal that is detected during glass open/close operation detects the opposite condition of power window motor operating direction.
Glass recognition position malfunction 1	When it detects the error between glass fully closed position in power window switch memory and actual fully closed position during glass open/close operation is more than the specified value.
Glass recognition position malfunction 2	When it detects pulse count more than the value of glass full stroke during glass open/close operation.
Malfunction of not yet updated closed position of glass	When glass open/close operation is continuously performed without fully closing more than the specified value (approximately 10 strokes).

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

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

Perform initial operation to recover when switched to fail-safe mode. However, it switches back to fail-safe control when malfunction is found in power window switch or in motor.

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

Description

INFOID:0000000005627155

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

Diagnosis Procedure

INFOID:0000000005627156

1.CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.
Refer to [PWC-14, "BCM : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description

INFOID:000000005627157

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

Diagnosis Procedure

INFOID:000000005627158

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

Check power window main switch power supply and ground circuit.

Refer to [PWC-14, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DRIVER SIDE POWER WINDOW MOTOR

Check driver side power window motor.

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

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description

INFOID:000000005627159

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

Diagnosis Procedure

INFOID:000000005627160

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

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

Refer to [PWC-15, "POWER WINDOW SUB-SWITCH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK PASSENGER SIDE POWER WINDOW MOTOR

Check passenger side power window motor.

Refer to [PWC-18, "PASSENGER SIDE : Component Function Check"](#).

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005627161

1. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-19, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005627162

1. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-21, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

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PWC

ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ANTI-PINCH FUNCTION DOES NOT OPERATE

Description

INFOID:000000005627163

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

Diagnosis Procedure

INFOID:000000005627164

1.CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Driver side : Refer to [PWC-133, "DRIVER SIDE : Diagnosis Procedure"](#).

NO-2 >> Passenger side : Refer to [PWC-133, "PASSENGER SIDE : Diagnosis Procedure"](#).

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005627165

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

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

Is the inspection result normal?

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

2.CHECK ENCODER (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to [PWC-26, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).
- NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005627166

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

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

Is the inspection result normal?

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

2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to [PWC-28, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).
- NO >> GO TO 1.

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POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Description

INFOID:000000005627167

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

Diagnosis Procedure

INFOID:000000005627168

1.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-70. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

< SYMPTOM DIAGNOSIS >

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Description

INFOID:0000000005627169

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

Diagnosis Procedure

INFOID:0000000005627170

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

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

Is the inspection result normal?

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

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

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

Refer to [DLK-86. "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-37. "Intermittent Incident"](#).
- NO >> GO TO 1.

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KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Description

INFOID:000000005627171

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

Diagnosis Procedure

INFOID:000000005627172

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-235, "Diagnosis Procedure"](#).

2. CHECK POWER WINDOW OPERATION

Check power window operation.

Does power window operate up/down using power window main switch?

YES >> GO TO 3.

NO >> Refer to [DLK-235, "Diagnosis Procedure"](#).

3. CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"

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

Refer to [DLK-52, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000005627173

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to [PWC-141, "Removal and Installation"](#).

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POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005627174

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to [PWC-141, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005627175

1. REPLACE POWER WINDOW SUB-SWITCH

Replace power window sub-switch.

>> Refer to [PWC-141, "Removal and Installation"](#).

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005627176

1.CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [PWC-133, "DRIVER SIDE : Diagnosis Procedure"](#).

2.CHECK DOOR SWITCH

Check door switch.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005627177

1.CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [PWC-133, "PASSENGER SIDE : Diagnosis Procedure"](#).

2.CHECK DOOR SWITCH

Check door switch.

Refer to [PWC-24, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-37, "Intermittent Incident"](#).

NO >> GO TO 1.

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000005627178

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

WARNING:

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

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

WARNING:

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

Service Procedure Precautions for Models with a Pop-up Roll Bar

INFOID:000000005627179

WARNING:

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

Precaution for Battery Service

INFOID:000000005627180

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

POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION


POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:000000005627181

REMOVAL

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

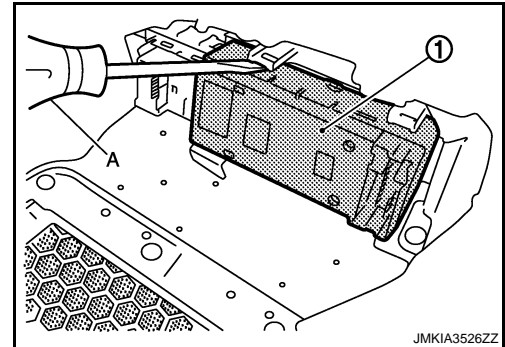
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CAUTION:

Do not 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.

NOTE:

Power window main switch is exchanged or is detached it is necessary to do the initialization procedure. Refer to [PWC-6, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

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