SECTION PWC

POWER WINDOW CONTROL SYSTEM

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

WorkFlow

INFOID:0000000004371019

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>>RF-248, "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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:0000000004371020

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:0000000004371021

INITIALIZATION PROCEDURE

1. Disconnect battery terminal or power window main switch connector. Reconnect it after a minute or more.
2. Door close (door switch OFF)
3. Turn ignition switch ON.
4. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
5. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 3 seconds or more.
6. 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-109, "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:0000000004371022

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**

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Re-

quirement

INFOID:0000000004371023

INITIALIZATION PROCEDURE

1. Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more.
2. Door close (door switch OFF)
3. Turn ignition switch ON.
4. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
5. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 3 seconds or more.
6. 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-109, "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.**

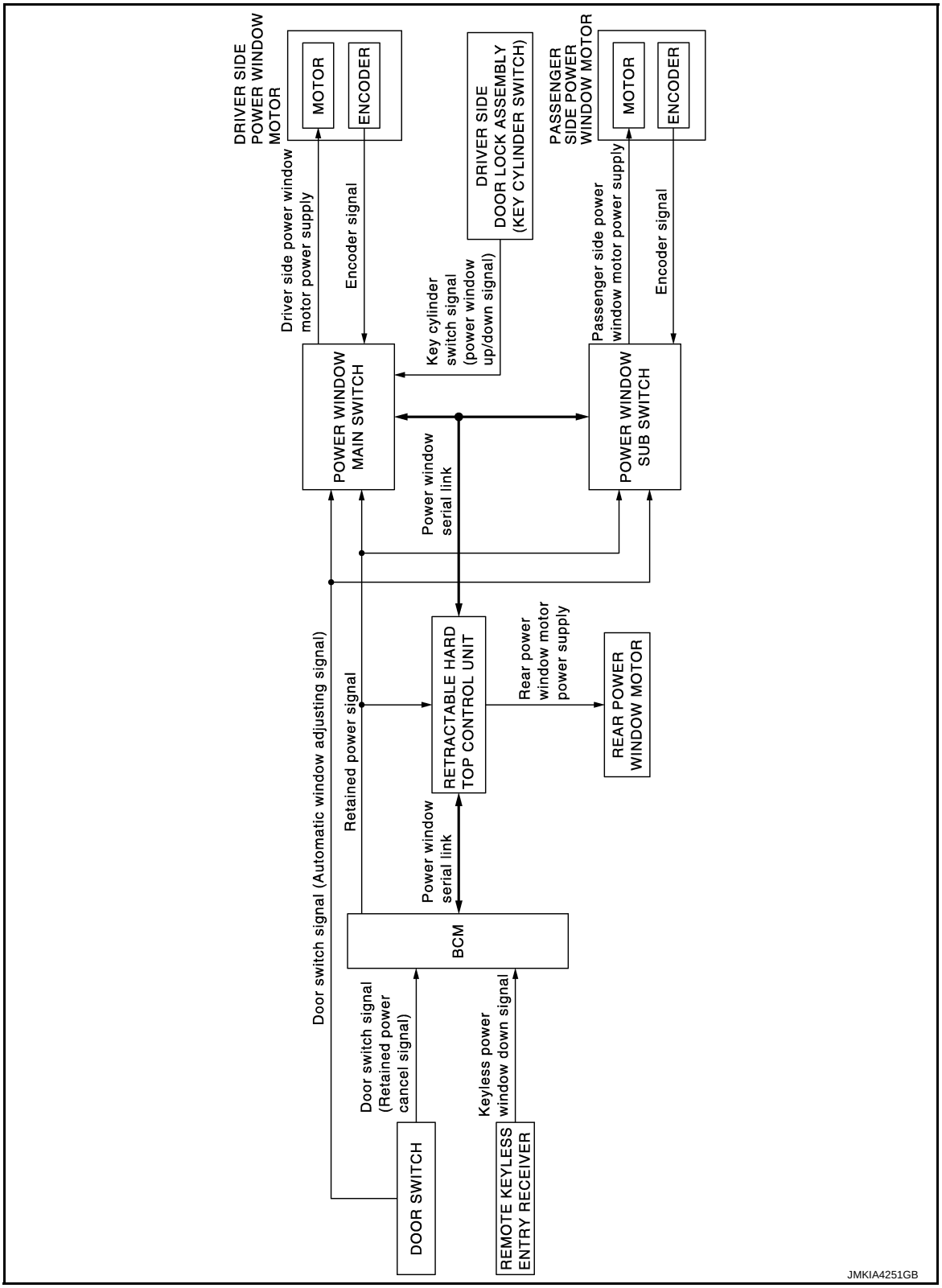
1. **Auto-up operation**
2. **Anti-pinch function**
3. **Automatic window adjusting function**
4. **Retained power operation**

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

INFOID:0000000004371024



System Description

INFOID:0000000004371025

POWER WINDOW OPERATION

- 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, "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:

Retaind 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

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

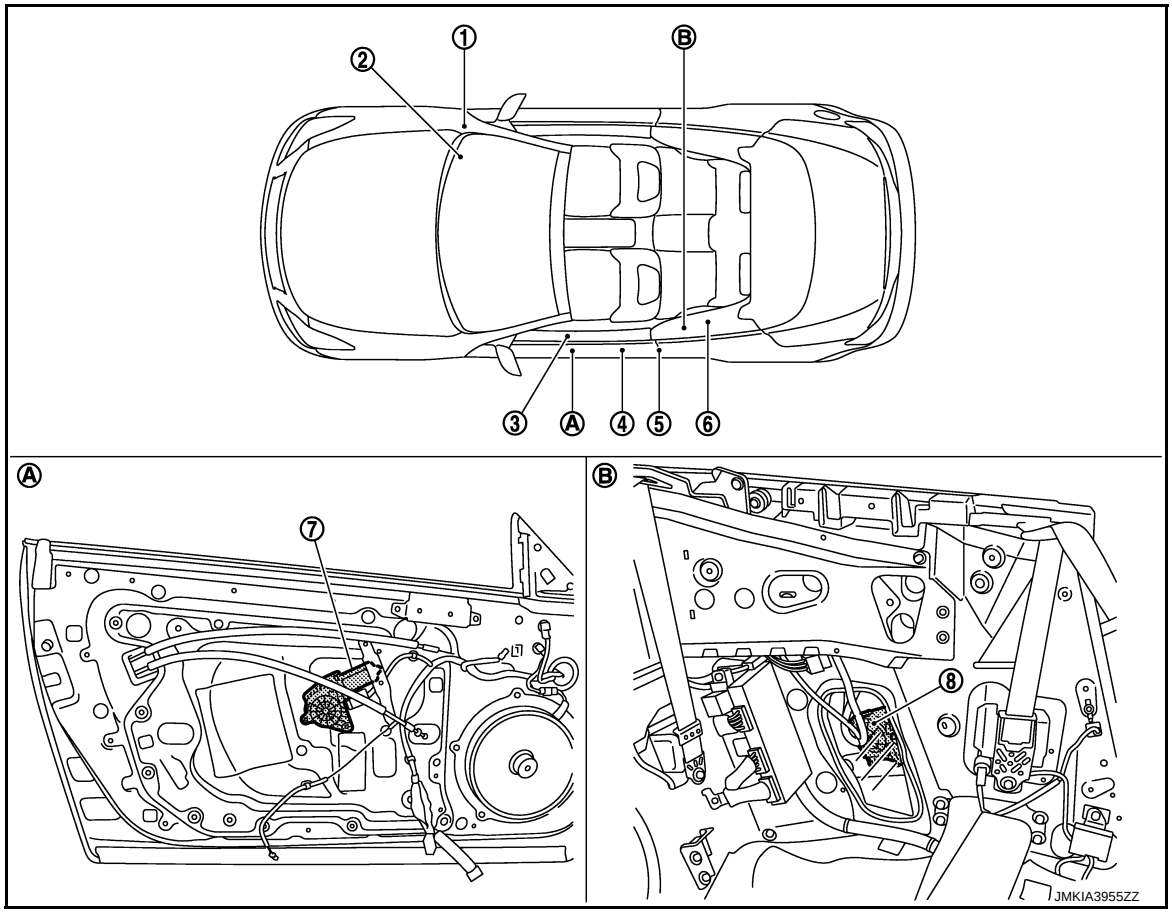
- When the driver's/passenger's door(s) is opened, the window of the opened door is lowered approx. 10 mm (0.39 in).Door is closed, door glass returns to the fully closed and closing operability and door glass airtightness are improved by this function.
- This function is operative while power window 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

INFOID:0000000004371026



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-24, "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:0000000004371027

Component	Function
BCM	• Supplies power supply to power window switches. • Controls retained power.
Retractable hard top contol unit	Refer to RF-16, "System Description".
Power window main switch	• Directly controls all power window motor of all doors. • Controls anti-pinch operation of power window.
Power window sub-switch	• Controls anti-pinch operation of power window. • Controls power window motor of passenger door.
Driver side power window motor	• 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.

Component	Function
Passenger side power window motor	• 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.

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

INFOID:0000000005133644

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

• 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.

RETAIND PWR

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

INFOID:0000000004371029

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.

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000004371030

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	I
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			
Connector	Terminal	Ground	
M118	1		Battery voltage
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:0000000004371031

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.

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

Is the measurement value within the specification?

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

2.CHECK GROUND CIRCUIT

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

Power window main switch connector	Terminal	Ground	Continuity
D9	17		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 main switch harness connector.

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

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M118	2		Not existed
	3		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-82, "Removal and Installation".
NO >> Repair or replace harness.

POWER WINDOW SUB-SWITCH

POWER WINDOW SUB-SWITCH : Diagnosis Procedure

INFOID:0000000004371032

1.CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value within the specification?

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-82, "Removal and Installation".
NO >> Repair or replace harness.

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004371033

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

DRIVER SIDE : Component Function Check

INFOID:0000000004371034

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:0000000004371035

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.)
(+)		(–)		
Driver side power window motor connector	Terminal			
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.)
(+)		(–)			
Power window main switch connector	Terminal				
D8	8	Ground	Driver side	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-133, "Removal and Installation".

3.CHECK HARNESS CONTINUITY

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	8	D10	6	Existed
	11		3	

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

Power window main switch connector	Terminal	Ground	Continuity
D8	8		Not existed
	11		

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004371037

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004371038

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:0000000004371039

1. CHECK PASSENGER SIDE POWER WINDOW MOTOR INPUT SIGNAL

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

Terminal			Power window sub-switch condition	Voltage (V) (Approx.)
(+)		(–)		
Passenger side power window motor connector	Terminal			
D40	3	Ground	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.

2.CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

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

Terminal			Power window sub-switch condition		Voltage (V) (Approx.)
(+)		(–)			
Power window sub-switch connector	Terminal				
D38	9	Ground	Passenger side	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-133, "Removal and Installation".

3.CHECK HARNESS CONTINUITY

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 connector	Terminal	Passenger side power window motor connector	Terminal	Continuity
D38	9	D40	3	Existed
	8		6	

4. 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-36, "Intermittent Incident".

>> INSPECTION END

REAR LH

REAR LH : Description

INFOID:0000000004747725

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

REAR LH : Component Function Check

INFOID:0000000004747726

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".

REAR LH : Diagnosis Procedure

INFOID:0000000004747727

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				
B653	1	Ground	Rear LH	UP	Battery voltage
				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				
B83	53	Ground	Rear LH	UP	Battery voltage
				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-332, "Exploded View".

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		Not existed
	54		

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

REAR RH

REAR RH : Description

INFOID:0000000004747729

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

REAR RH : Component Function Check

INFOID:0000000004747730

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:0000000005094749

1. CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

Terminal			Power window main switch condition		Voltage (V) (Approx.)
(+)		(–)			
Rear power window motor RH connector	Terminal				
B655	1	Ground	Rear RH	UP	Battery voltage
				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				
B83	55	Ground	Rear RH	UP	Battery voltage
				DOWN	0
	56			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace retractable hard top control unit. Refer to RF-332, "Exploded View".

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		Not existed
	56		

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DOOR SWITCH CIRCUIT

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000005151056

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:0000000005151057

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:0000000005151058

1.CHECK DOOR SWITCH

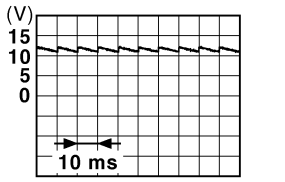
Check door switch.Refer to DLK-70, "Component Function Check".

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	

JPMIA0011GB

Is the inspection result normal?

YES >> Replace power window main switch.Refer to PWC-133, "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

Is the inspection result normal?

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

4.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000005151059

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:0000000005151060

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:0000000005151061

1.CHECK DOOR SWITCH

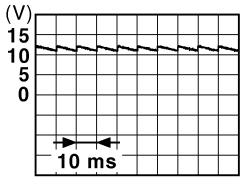
Check door switch.Refer to DLK-70, "Component Function Check".

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	

JPMIA0011GB

Is the inspection result normal?

YES >> Replace power window sub-switch.Refer to PWC-133, "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

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-36, "Intermittent Incident".

>> INSPECTION END

ENCODER
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004371041

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:0000000004371042

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".

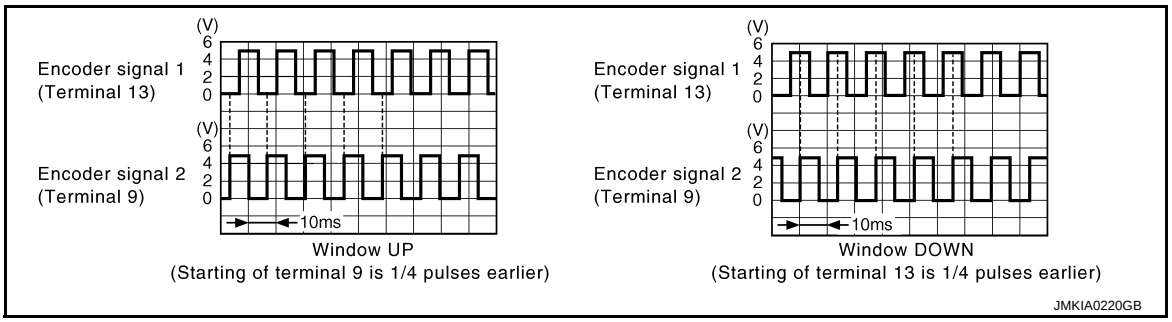
DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004371043

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		
D8	9	Ground	Refer to following signal
	13		



Is the inspection result normal?

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

2.CHECK ENCORDER 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.

Power window main switch connector	Terminal	Ground	Continuity
D8	9		Not existed
	13		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3. CHECK ENCORDER 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	12

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-133, "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.

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-133, "Removal and Installation".
NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000005094763

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:0000000005094764

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".

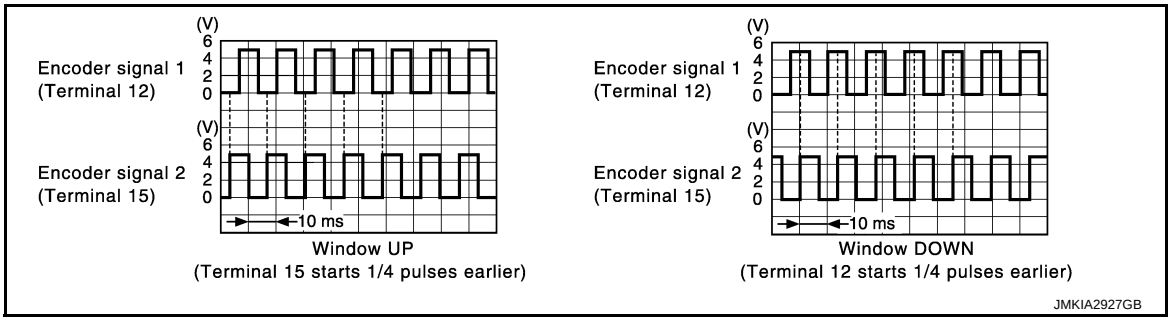
PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000005094765

1.CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. 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-133, "Removal and Installation".
NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect power window sub-switch connector and passenger side power window motor connector.
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-133, "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.

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-133, "Removal and Installation".

DOOR KEY CYLINDER SWITCH

Description

INFOID:0000000004371051

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:0000000004371052

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:0000000004371053

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. 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	Terminal			
D15	6	Ground	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-133, "Removal and Installation".

3.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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		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		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-307, "DOOR LOCK : Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004371054

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnector 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		

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

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace driver side door lock assembly (key cylinder switch). Refer to DLK-307, "DOOR LOCK : Removal and Installation".

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000005185673

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

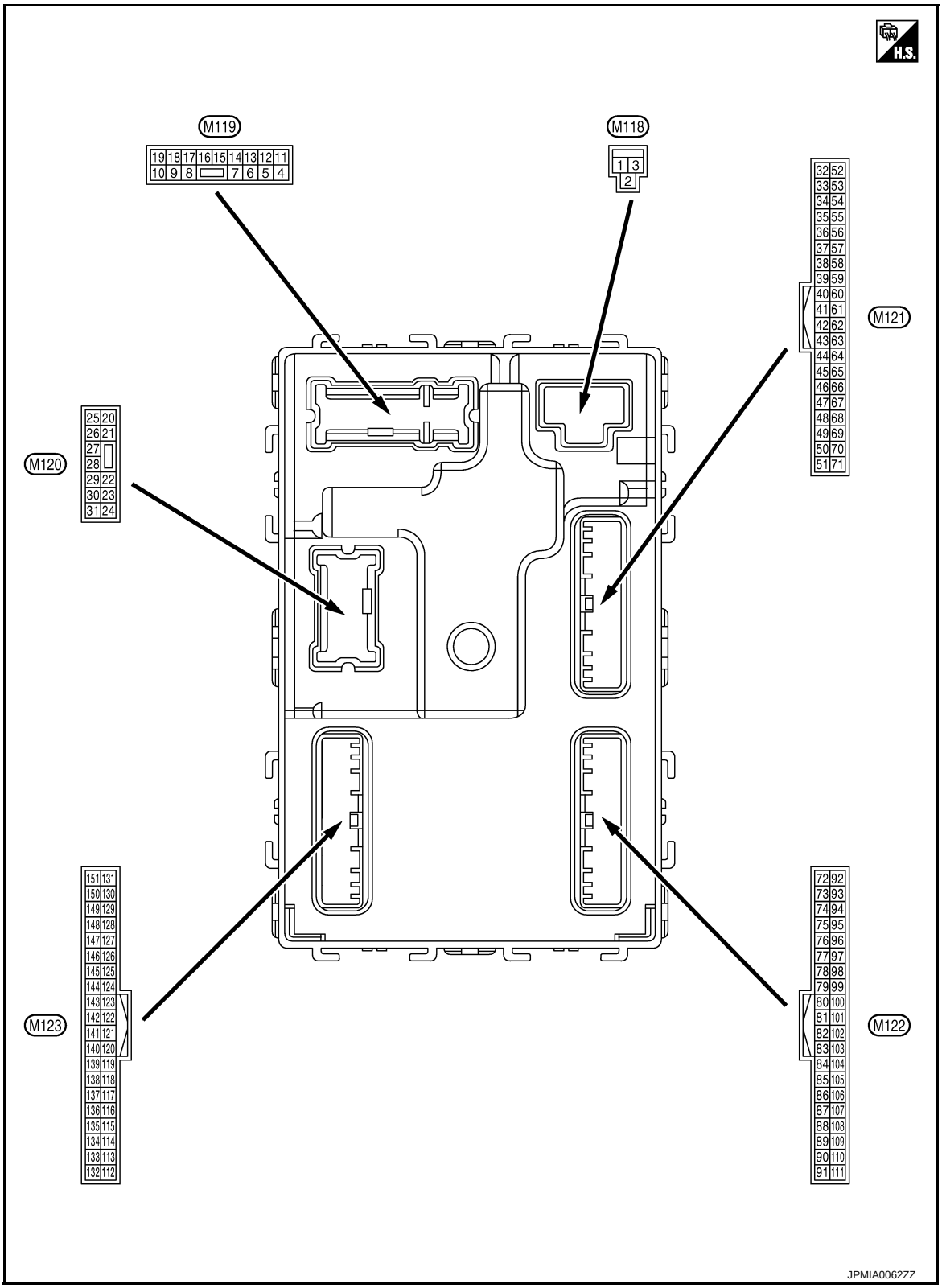
Monitor Item	Condition	Value/Status
DOOR SW-RL	**NOTE:** The item is indicated, but not monitored.	Off
DOOR SW-BK	**NOTE:** The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch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

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	• Selector lever in P position (Except M/T models) • The clutch pedal is depressed (M/T models)	Off
	• 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	• Selector lever in any position other than P and N (Except M/T models) • The clutch pedal is not depressed (M/T models)	Off
	• 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

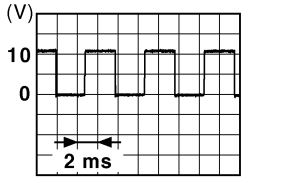
Monitor Item	Condition	Value/Status
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system 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
VEH SPEED 1	While driving	Equivalent to speed-ometer reading
VEH SPEED 2	While driving	Equivalent to speed-ometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Steering is locked	Reset
	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	**NOTE:** The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	**NOTE:** The item is indicated, but not monitored.	—
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

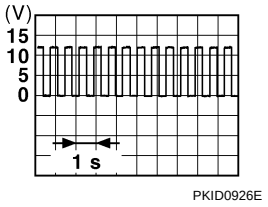
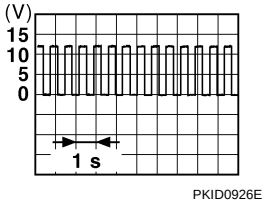
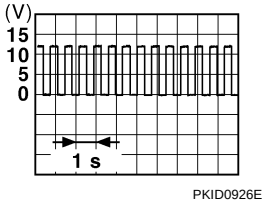
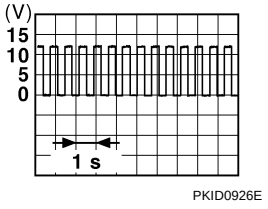
Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not 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

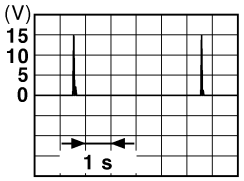
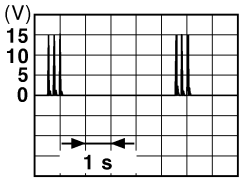
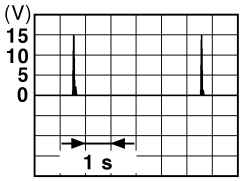
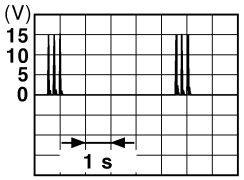
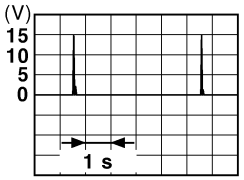
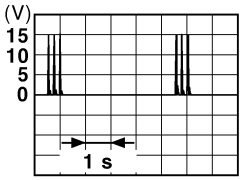
TERMINAL LAYOUT

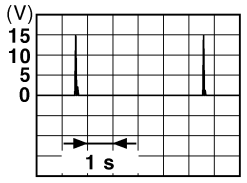
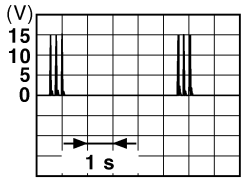
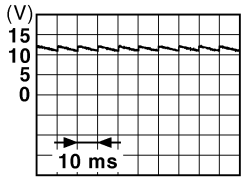
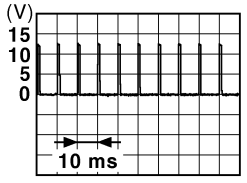


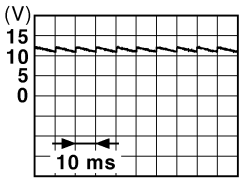
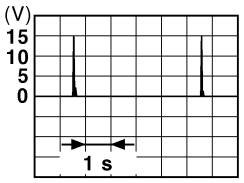
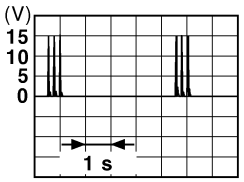
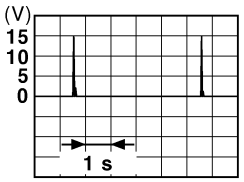
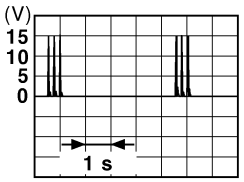
PHYSICAL VALUES

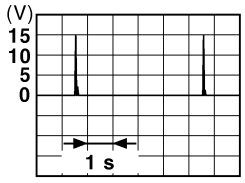
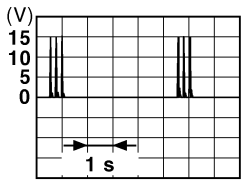
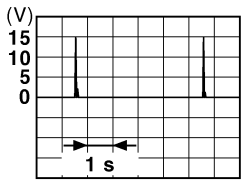
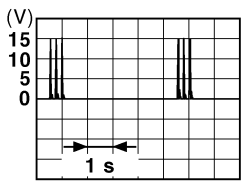
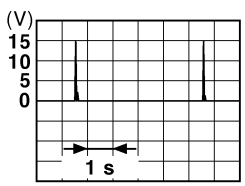
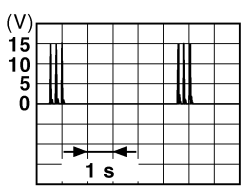
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition 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 UNLOCK	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 (R)	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	**NOTE:** When the illumination brightening/dimming level is in the neutral position.  JSNIA0010GB
15 (O)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC	0 V

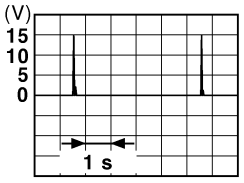
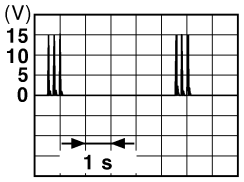
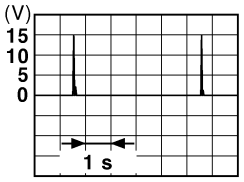
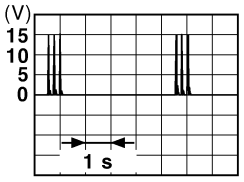
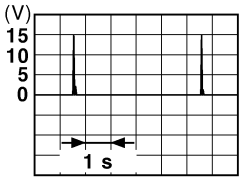
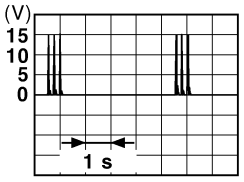
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 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	 PKID0926E 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	 PKID0926E 6.5 V
30 (P)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0 V
					OFF	12 V

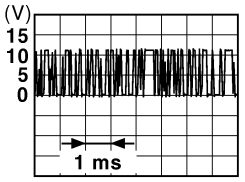
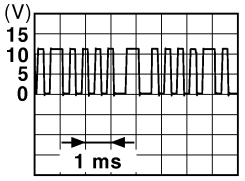
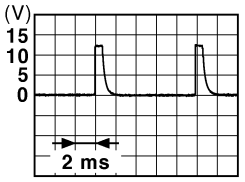
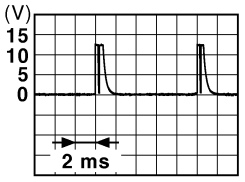
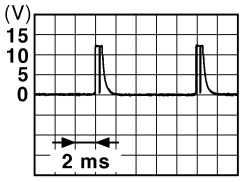
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
34 (SB)	Ground	Trunk room antenna (–)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
35 (V)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (B)	Ground	Rear bumper antenna (–)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

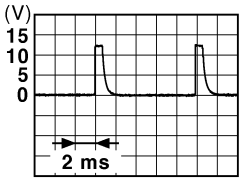
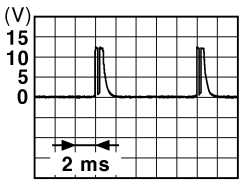
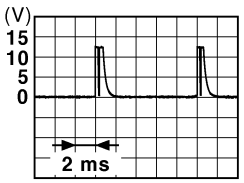
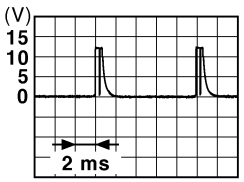
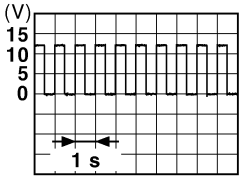
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
39 (W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent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

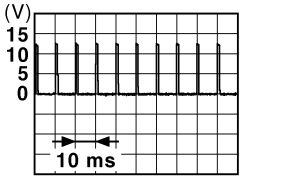
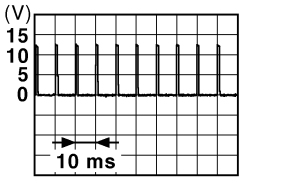
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
					Not pressed	 JPMIA0011GB 11.8 V
72 (R)	Ground	Room antenna 2 (–) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

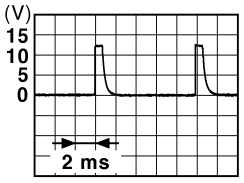
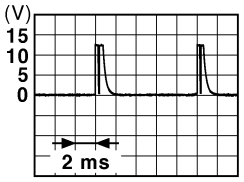
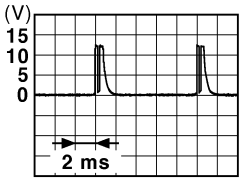
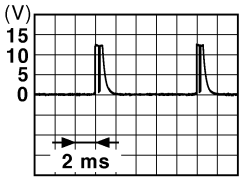
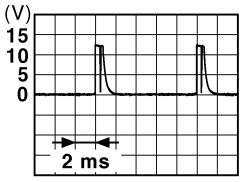
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
74 (SB)	Ground	Passenger door antenna (–)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
75 (BR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
76 (V)	Ground	Driver door antenna (–)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

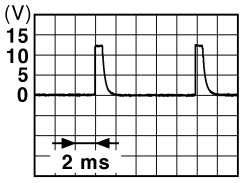
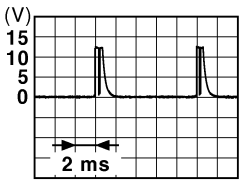
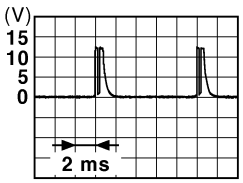
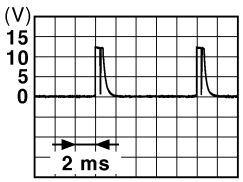
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
78 (Y)	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

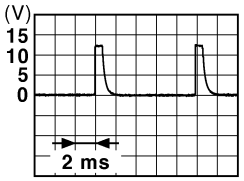
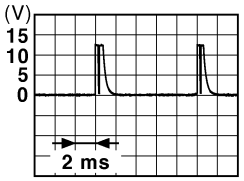
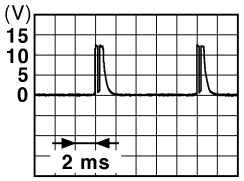
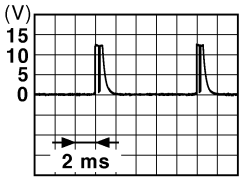
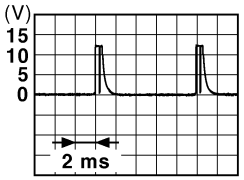
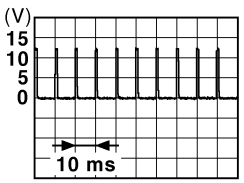
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester 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	0 V
					ON	12 V
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 JMKIA0064GB
				When operating either button on the Intelligent Key		 JMKIA0065GB
87 (Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 JPMIA0041GB 1.4 V
					Front fog lamp switch ON (Wiper volume dial 4)	 JPMIA0037GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume dial 7	 JPMIA0040GB 1.3 V

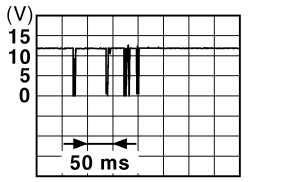
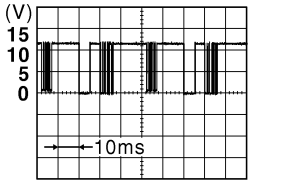
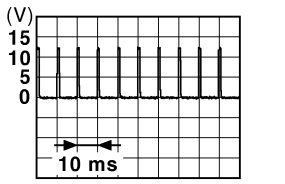
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
88 (O)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper volume dial 4)	 JPMIA0036GB 1.3 V
					Lighting switch 2ND (Wiper volume dial 4)	 JPMIA0037GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3	 JPMIA0040GB 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 illumination	OFF	0 V
					Blinking	 JPMIA0015GB 6.5 V
					ON	12 V

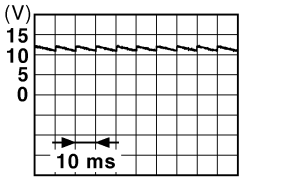
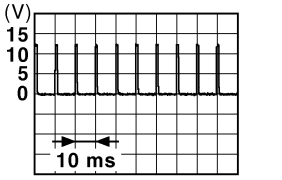
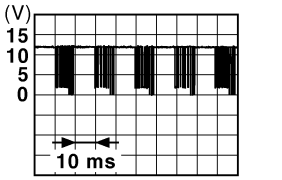
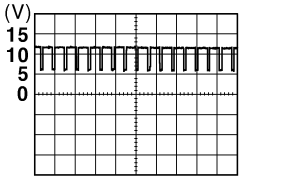
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	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 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	12 V
					UNLOCK status	0 V
99 (R)*1 (BR)*2	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)	 JPMIA0016GB 1.0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
103 (L)	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

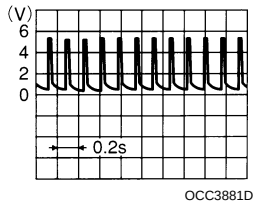
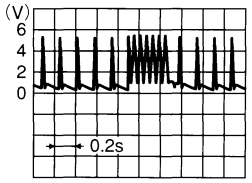
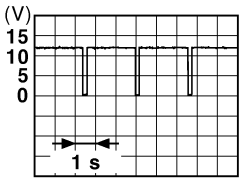
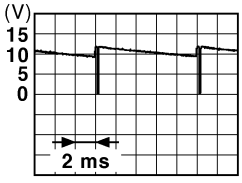
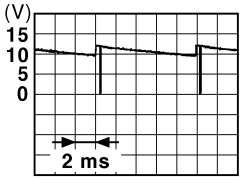
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	All switches OFF	 JPMIA0041GB 1.4 V
					Turn signal switch LH	 JPMIA0037GB 1.3 V
					Turn signal switch RH	 JPMIA0036GB 1.3 V
					Front wiper switch LO	 JPMIA0038GB 1.3 V
					Front washer switch ON	 JPMIA0039GB 1.3 V

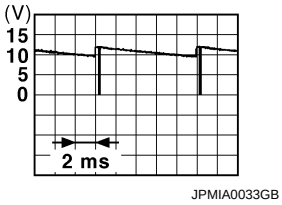
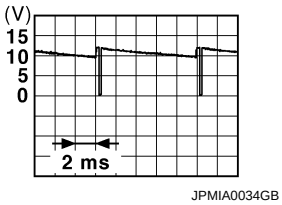
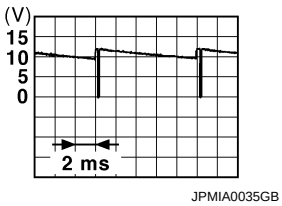
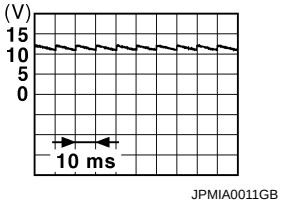
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper volume dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper volume dial 4)	 JPMIA0038GB 1.3 V
					Lighting switch 1ST (Wiper volume dial 4)	 JPMIA0036GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	 JPMIA0039GB 1.3 V

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	 JPMIA0041GB 1.4 V
					Lighting switch PASS	 JPMIA0037GB 1.3 V
					Lighting switch 2ND	 JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	 JPMIA0038GB 1.3 V
					Front wiper switch HI	 JPMIA0040GB 1.3 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
					OFF	 JPMIA0012GB 1.1 V

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	 JMKIA0066GB
					For 15 seconds after UNLOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		 JPMIA0156GB 8.7 V
113 (O)	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 depressed)	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 depressed)	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 depressed) or ICC brake hold relay ON		Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
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 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
129 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 JPMIA0012GB 1.1 V
					ON	0 V
132 (V)	Ground	Power window switch and R.H.T. control unit communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 10.2 V
				Ignition switch OFF or ACC		12 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps OFF)	9.5 V
					ON (Tail lamps ON)	**NOTE:** The pulse width of this wave is varied by the illumination brightening/dimming level.  JPMIA0159GB
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V

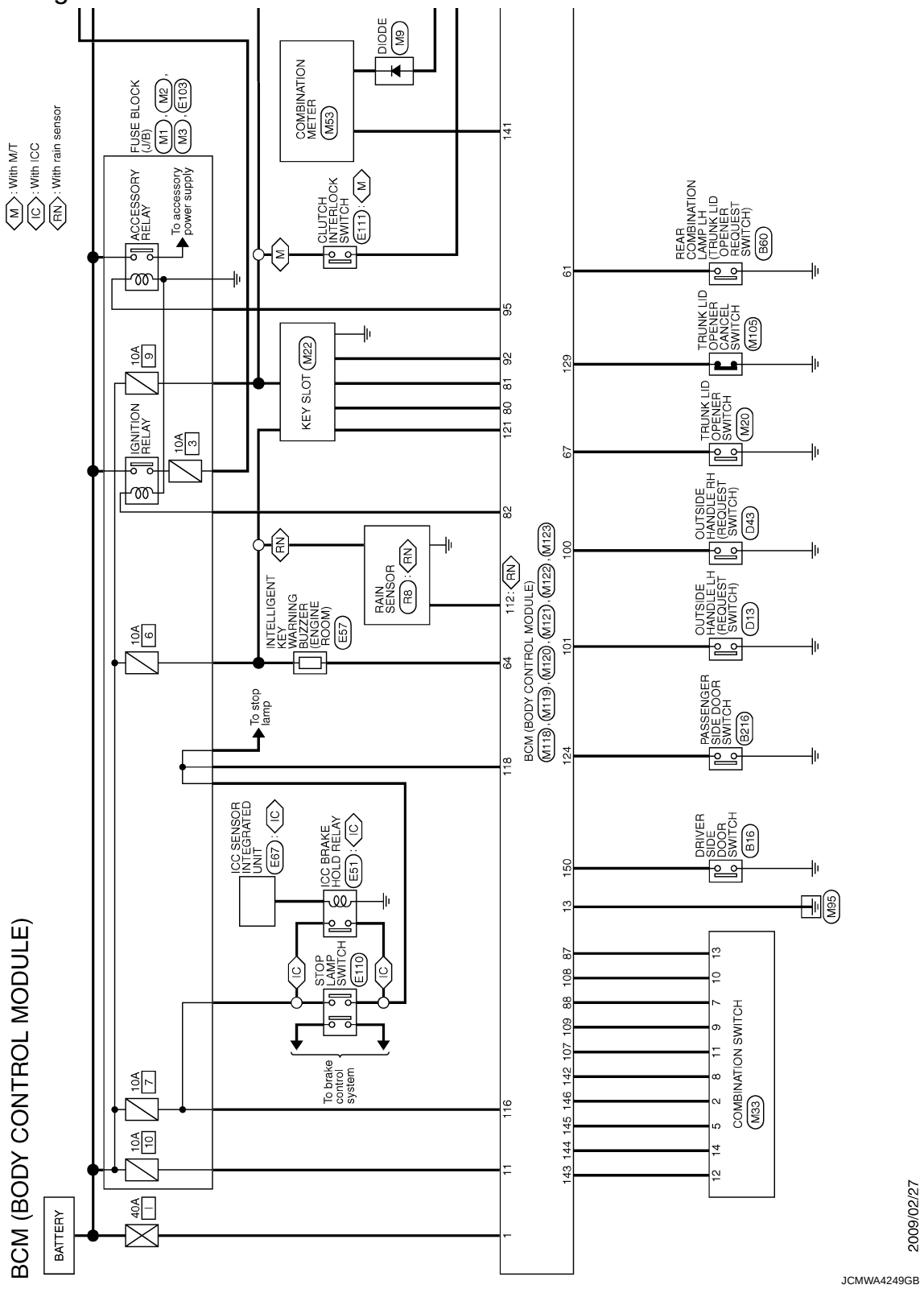
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
138 (Y)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					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	 JPMIA0014GB 11.3 V
					OFF	12 V
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	 JPMIA0032GB 10.7 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 • Wiper volume dial 6 • Wiper volume dial 7	

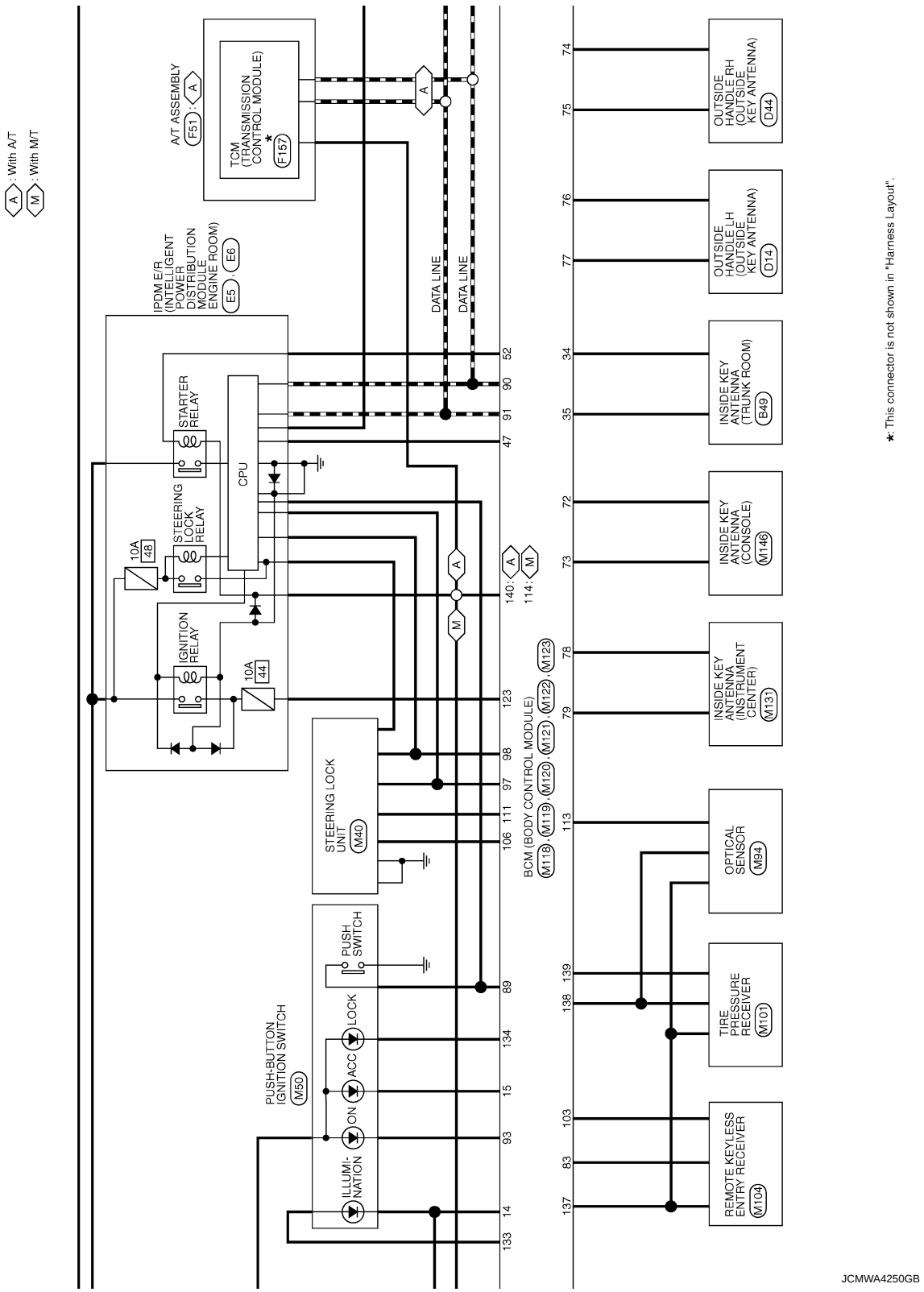
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
144 (O)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	 JPMIA0033GB 10.7 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Front wiper switch INT/ AUTO	 JPMIA0034GB 10.7 V
					Front wiper switch LO	
					Lighting switch AUTO	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Front fog lamp switch ON	 JPMIA0035GB 10.7 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
149 (W)	Ground	Tire pressure warning check switch	Input	—		12 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
					Not activated	Battery voltage

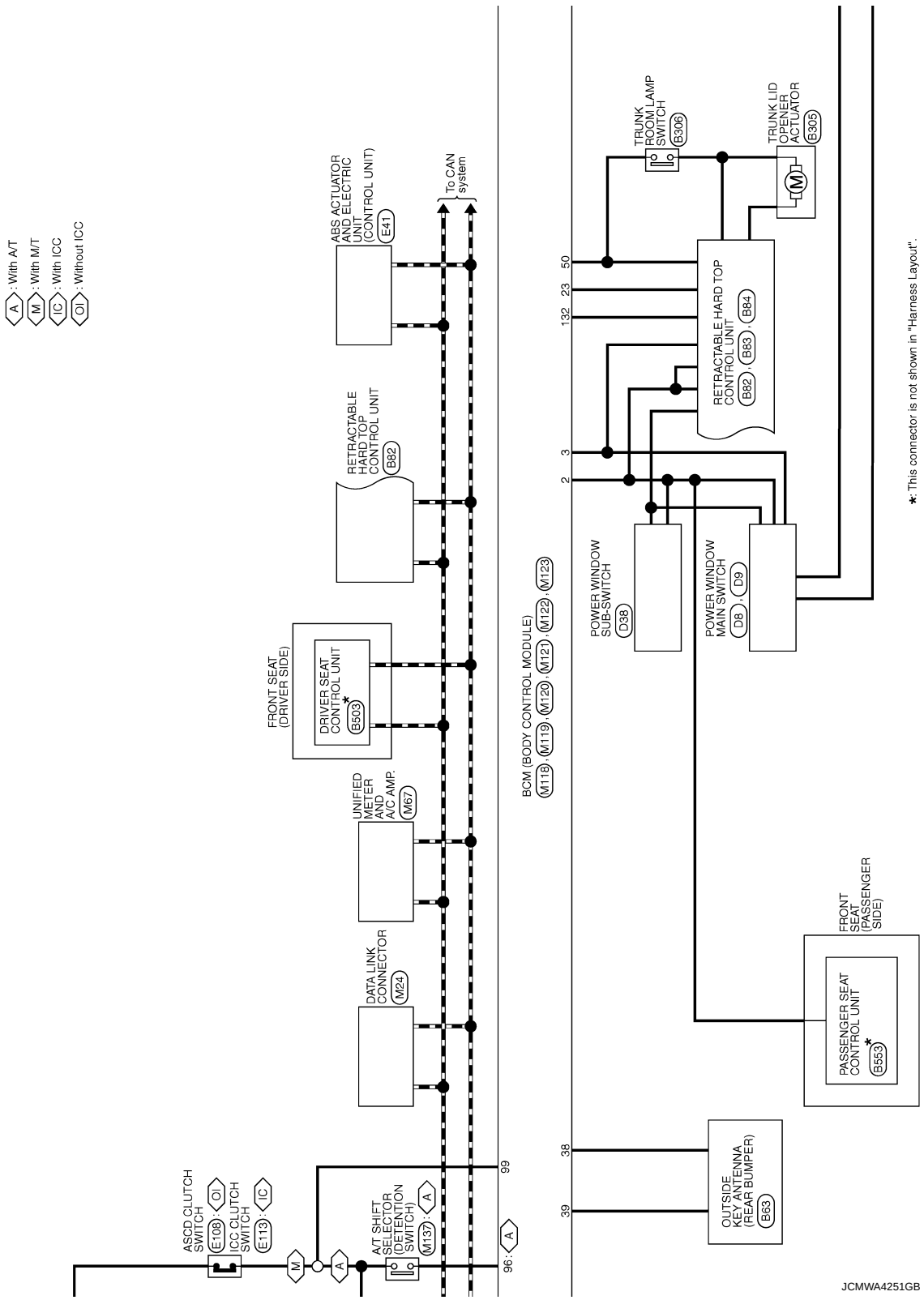
- *1: A/T models
- *2: M/T models

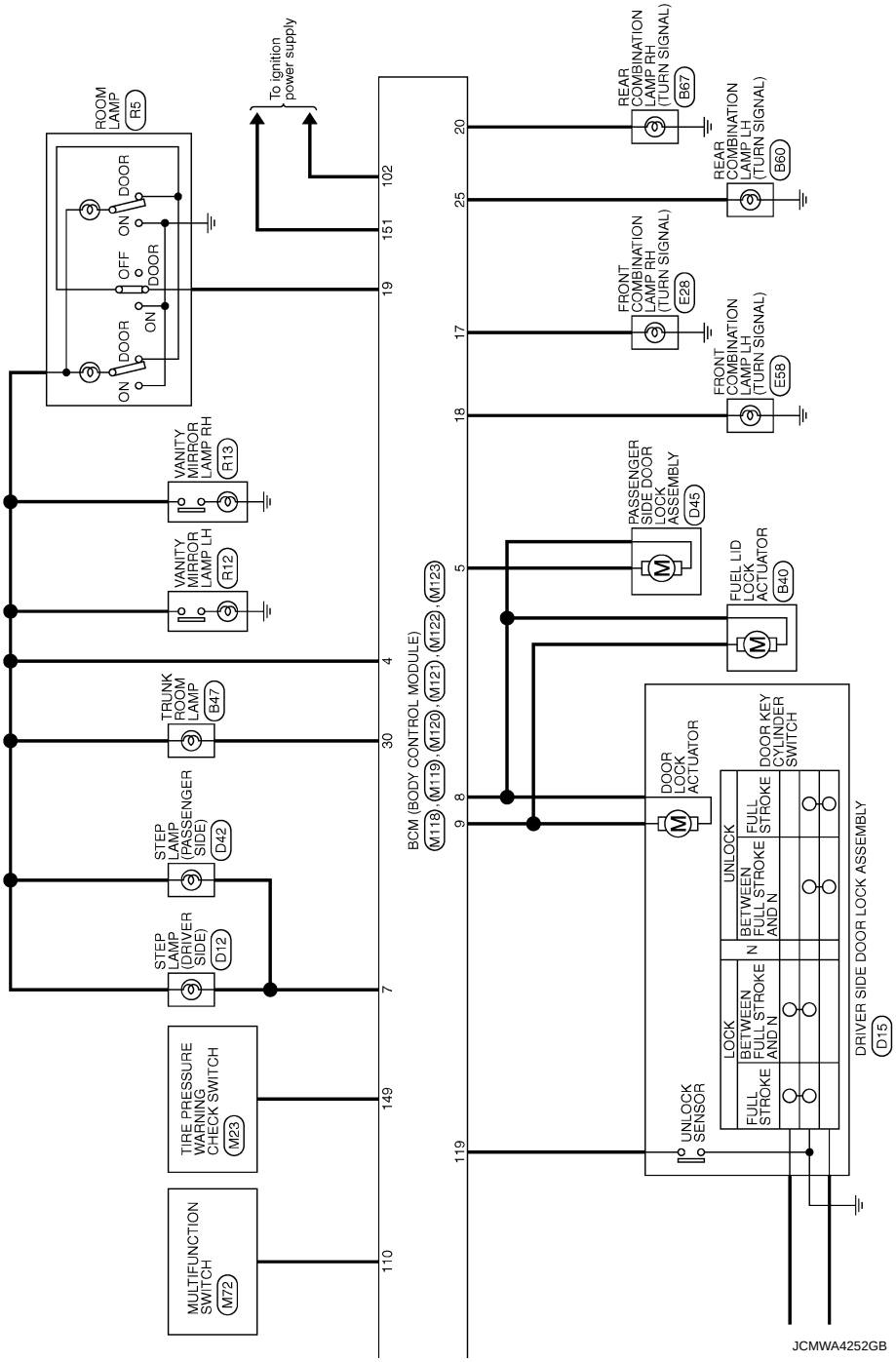
Wiring Diagram - BCM -

INFOID:0000000005185674




A : With A/T
M : With M/T
A/T ASSEMBLY
F51 : A
TCM (TRANSMISSION CONTROL MODULE)
F157
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E5 E6
STARTER RELAY
STEERING LOCK RELAY
IGNITION RELAY
CPU
10A 48
10A 44
DATA LINE
DATA LINE
STEERING LOCK UNIT M40
PUSH-BUTTON IGNITION SWITCH M50
PUSH SWITCH
ILLUMI-NATION
ON
ACC
LOCK
BCM (BODY CONTROL MODULE) M118 M119 M120 M121 M122 M123
OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA) D44
OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) D14
INSIDE KEY ANTENNA (TRUNK ROOM) B49
INSIDE KEY ANTENNA (CONSOLE) M146
INSIDE KEY ANTENNA (INSTRUMENT CENTER) M131
OPTICAL SENSOR M94
TIRE PRESSURE RECEIVER M101
REMOTE KEYLESS ENTRY RECEIVER M104
*: This connector is not shown in "Harness Layout".
JCMWA4250GB


A : With A/T
M : With M/T
IC : With ICC
OI : Without ICC
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) E41
To CAN system
RETRACTABLE HARD TOP CONTROL UNIT B82
FRONT SEAT (DRIVER SIDE)
DRIVER SEAT CONTROL UNIT B503*
UNIFIED METER AND A/C AMP. M67
DATA LINK CONNECTOR M24
ASCD CLUTCH SWITCH E108 : OI
ICC CLUTCH SWITCH E113 : IC
A/T SHIFT SELECTOR (DETENTION SWITCH) M137 : A
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
TRUNK ROOM LAMP SWITCH B306
TRUNK LID OPENER ACTUATOR B305
RETRACTABLE HARD TOP CONTROL UNIT B82, B83, B84
POWER WINDOW SUB-SWITCH D38
POWER WINDOW MAIN SWITCH D8, D9
FRONT SEAT (PASSENGER SIDE)
PASSENGER SEAT CONTROL UNIT B553*
OUTSIDE KEY ANTENNA (REAR BUMPER) B63
*: This connector is not shown in "Harness Layout".
JCMWA4251GB


To ignition power supply
ROOM LAMP R5
DOOR ON
OFF
DOOR ON
DOOR ON
ON DOOR
VANITY MIRROR LAMP RH R13
VANITY MIRROR LAMP LH R12
TRUNK ROOM LAMP B47
STEP LAMP (PASSENGER SIDE) D42
STEP LAMP (DRIVER SIDE) D12
TIRE PRESSURE WARNING CHECK SWITCH M23
MULTIFUNCTION SWITCH M72
BCM (BODY CONTROL MODULE) M118 M119 M120 M121 M122 M123
102
151
19
4
30
7
149
110
20
25
17
18
5
8
9
119
REAR COMBINATION LAMP RH (TURN SIGNAL) B67
REAR COMBINATION LAMP LH (TURN SIGNAL) B60
FRONT COMBINATION LAMP RH (TURN SIGNAL) E28
FRONT COMBINATION LAMP LH (TURN SIGNAL) E58
PASSENGER SIDE DOOR LOCK ASSEMBLY D45
FUEL LID LOCK ACTUATOR B40
DOOR LOCK ACTUATOR
DOOR KEY CYLINDER SWITCH
UNLOCK
FULL STROKE
BETWEEN FULL STROKE AND N
N
LOCK
FULL STROKE
BETWEEN FULL STROKE AND N
UNLOCK SENSOR
DRIVER SIDE DOOR LOCK ASSEMBLY D15
JCMWA4252GB

BCM (BODY CONTROL MODULE)

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

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	O	INPUT 3
8	BR	OUTPUT 5
9	W	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	Y	INPUT 5
14	O	OUTPUT 2

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

H.S.

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.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

1	3
2	

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

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

H.S.

51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	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 (IPDM E/R) CONT
50	G	TRUNK ROOM LAMP SW
52	SB	STARTER RELAY CONT
61	SB	TRUNK LID OPENER REQUEST SW
64	G	I-KEY WARN BUZZER (ENG ROOM)
67	GR	TRUNK LID OPENER SW

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

H.S.

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	R	BAT (FUSE)
13	B	GND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	O	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	O	TURN SIGNAL LH (FRONT)

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

H.S.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT2–
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT–
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT–
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1–
79	BR	ROOM ANT1+
80	GR	NATS ANTRNNA AMP
81	W	NATS ANTRNNA AMP
82	R	IGN RELAY (F/B) CONT

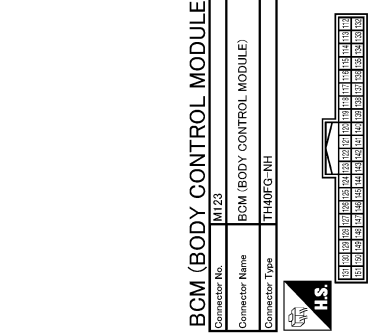
19	V	ROOM LAMP TIMER CONTROL

Terminal No.	Color of Wire	Signal Name [Specification]
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	O	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	O	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	BR	ASCD /ICC CLUTCH SW [With M/T]
99	R	SHIFT P [With A/T]
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	L	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

JCMWA4253GB

BCM (BODY CONTROL MODULE)

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



Terminal No.	Color of Wire	Signal Name [Specification]
112	R	RAIN SENSOR SERIAL LINK
113	O	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
129	O	TRUNK LID OPENER CANCEL SW
132	V	P/W SW & RHT C/U COMM
133	L	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	O	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	P	COMBI SW OUTPUT 1
144	O	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

JCMWA4254GB

Fail-safe

INFOID:0000000005185675

FAIL-SAFE CONTROL BY DTC

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

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

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

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.
BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

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

DTC Inspection Priority Chart

INFOID:0000000005185676

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	• U1000: CAN COMM • U1010: CONTROL UNIT (CAN)
3	• B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING
4	• 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 SW • B2605: PNP 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: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • 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 SIG

Priority	DTC
5	• C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT
6	• B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

INFOID:0000000005185677

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)".

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	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	BCS-36
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-37
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-38
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-47
B2555: STOP LAMP	—	×	—	—	SEC-50

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
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-52
B2557: VEHICLE SPEED	×	×	×	—	SEC-54
B2560: STARTER CONT RELAY	×	×	×	—	SEC-55
B2562: LOW VOLTAGE	—	×	—	—	BCS-39
B2601: SHIFT POSITION	×	×	×	—	SEC-56
B2602: SHIFT POSITION	×	×	×	—	SEC-59
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-61
B2604: PNP SW	×	×	×	—	SEC-64
B2605: PNP 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-49
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: ACC RELAY CIRC	—	×	×	—	PCS-51
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-54
B2616: IGN RELAY CIRC	—	×	×	—	PCS-57
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-89
B2618: BCM	×	×	×	—	PCS-60
B2619: BCM	×	×	×	—	SEC-91
B261A: PUSH-BTN IGN SW	—	×	×	—	PCS-61
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-92
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-17
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	

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
C1708: [NO DATA] FL	—	—	—	×	WT-19
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	—	×	WT-22
C1713: [CHECKSUM ERR] FR	—	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-25
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1720: [CODE ERR] FL	—	—	—	×	WT-27
C1721: [CODE ERR] FR	—	—	—	×	
C1722: [CODE ERR] RR	—	—	—	×	
C1723: [CODE ERR] RL	—	—	—	×	
C1724: [BATT VOLT LOW] FL	—	—	—	×	WT-30
C1725: [BATT VOLT LOW] FR	—	—	—	×	
C1726: [BATT VOLT LOW] RR	—	—	—	×	
C1727: [BATT VOLT LOW] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-33
C1734: CONTROL UNIT	—	—	—	×	WT-35

RETRACTABLE HARD TOP CONTROL UNIT

Reference Value

INFOID:0000000005185678

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

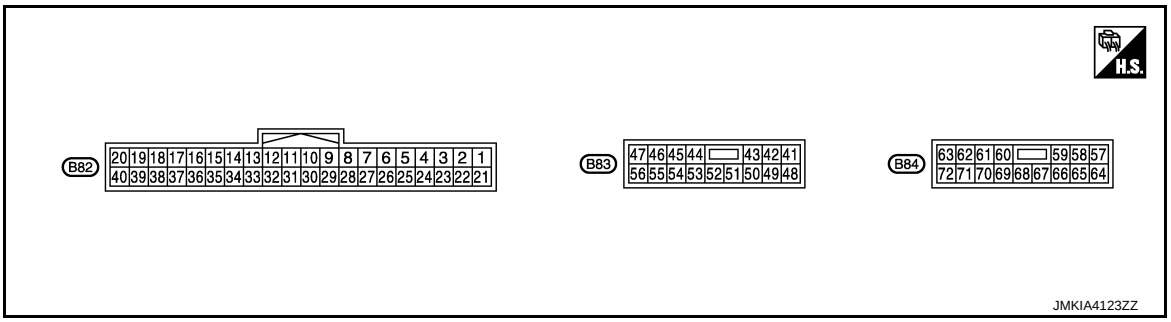
Monitor Item	Condition		Status/Value
PS OUT(HORI)	Operation of parcel shelf	Horizontal operation is in operation	ON
		Other than above	OFF
		Parcel shelf (HORIZONTAL) circuit is short	NG
PS STATE(DRAW)	State of parcel shelf	For the details, refer to RF-38, "PARCEL SHELF FUNCTION : System Description"	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-38, "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, "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

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-44, "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

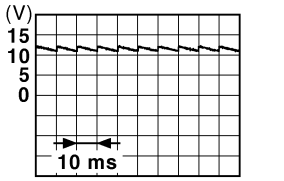
Monitor Item	Condition		Status/Value
RR WIN STATE(RH)	State of rear power window (RH)	Upper	UP
		Halfway	MID
		Lower end	DOWN
RAP SIGNAL	State of RAP	Operate	ON
		Stop	OFF
TR MODE SIGNAL	State of trunk mode signal	Output	ON
		Stop	OFF
ROOF STATE(AUDIO)	State of roof	State of fully open	ON
		Other than above	OFF
		Roof state signal (audio) circuit is short	NG
ROOF BUZZER OUT	State of roof warning buzzer	Operate	ON
		Stop	OFF
		Roof warning buzzer circuit is short	NG
LOCAL COMM 1	State of local communication 1	Normal	OK
		It is in sleep mode	SLEEP
		Communication error	NG
LOCAL COMM 2	State of local communication 2	Normal	OK
		It is in sleep mode	SLEEP
		Communication error	NG
ROOF MODE	Roof operation mode	Normal	OK
		Only close operation is possible	CLOSE
		Operation is stop	STOP
		Operation is inhibited	NG
POP-UP BAR DPLOY	State of pop-up bar	Normal	OK
		State of deployment	NG
POP-UP BAR DIAG	Self-diagnosis result of pop-up bar	Normal	OK
		Malfunctioning is detected	NG
SWITCH VLV COND	Diagnosis result of retractable hard top control unit	Diagnosis result of retractable hard top control unit	OK
		Switching valve (1/2) system is malfunctioning	NG
PWR SOURCE COND	Power supply voltage state of retractable hard top control unit	Normal	OK
		Malfunction	NG
CPU COND	Diagnosis result of retractable hard top control unit	CPU is normal	OK
		CPU is not normal	NG
ROOF COND	Diagnosis result of retractable hard top control unit	Roof position is normal	OK
		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
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

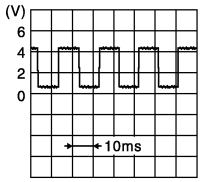
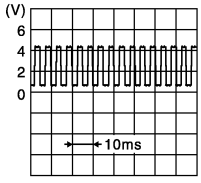
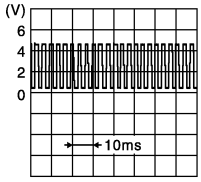
Monitor Item	Condition		Status/Value
CIRCUIT COND	Diagnosis result of retractable hard top control unit	Circuit system is normal	OK
		Circuit system is not normal	NG
ROOF TIMEOUT	State of roof operation	Normal	OK
		Malfunction	NG
CAN COMM	CAN communication status	Normal	OK
		Malfunction	NG
THERMO PROTECT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

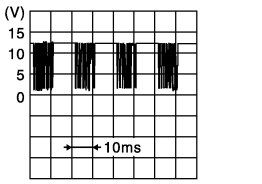
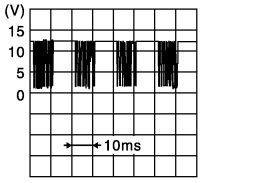
TERMINAL LAYOUT



PHYSICAL VALUES

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	Roof open/close 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	 JPMIA0011GB
						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 (O)	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

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	 JMKIA4021GB
						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	 JMKIA4022GB
						Inactive	0.5 V or 5 V
25 (R)	Ground	Parcel shelf status sensor (ROTATION)	Input	Ignition switch ON	Parcel shelf motor (ROTATE)	Active	 JMKIA4023GB
						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 (O)	Ground	Flipper door motor ground	—	Ignition switch ON	—		0 V

Terminal No. (Wire color)		Description		Condition			Value (Approx.)
+	–	Signal name	Input/ Output				
29 (V)	Ground	Local communication (BCM)	Input/ Output	Ignition switch ON	—		 JMKIA4024GB
30 (GR)	Ground	Local communication (POWER WINDOW)	Input/ Output	Ignition switch ON	—		 JMKIA4024GB
31 (L)	Ground	CAN-H	Input/ Output	—	—		—
32 (P)	Ground	CAN-L	Input/ Output	—	—		—
33 (V)	Ground	Roof status siganal (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 buzzer	Sounds	0 V
						Not sounds	Battery voltage
36 (Y)	Ground	Hydraulic pump relay (RH)	—	Ignition switch ON	Hydraulic pump motor (RH)	Active	0 V
						Inactive	Battery voltage
37 (W)	Ground	Hydraulic pump relay (LH)	—	Ignition switch ON	Hydraulic pump motor (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 power 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-HORIZONTAL)	Active	Battery voltage
						Inactive	0 V
45 (BR)	Ground	Parcel shelf motor (VERTICAL)	Output	Ignition switch ON	Parcel shelf motor (ROTATION-VERTICAL)	Active	Battery voltage
						Inactive	0 V

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 actuator	Output	—	Trunk lid opener	Operate	0 V → Battery voltage → 0 V
						Stop	0 V
52 (V)	Ground	Trunk lid opener actuator ground	—	Ignition switch ON	—		0 V
53 (O)	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

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

Wiring Diagram - RETRACTABLE HARD TOP SYSTEM -

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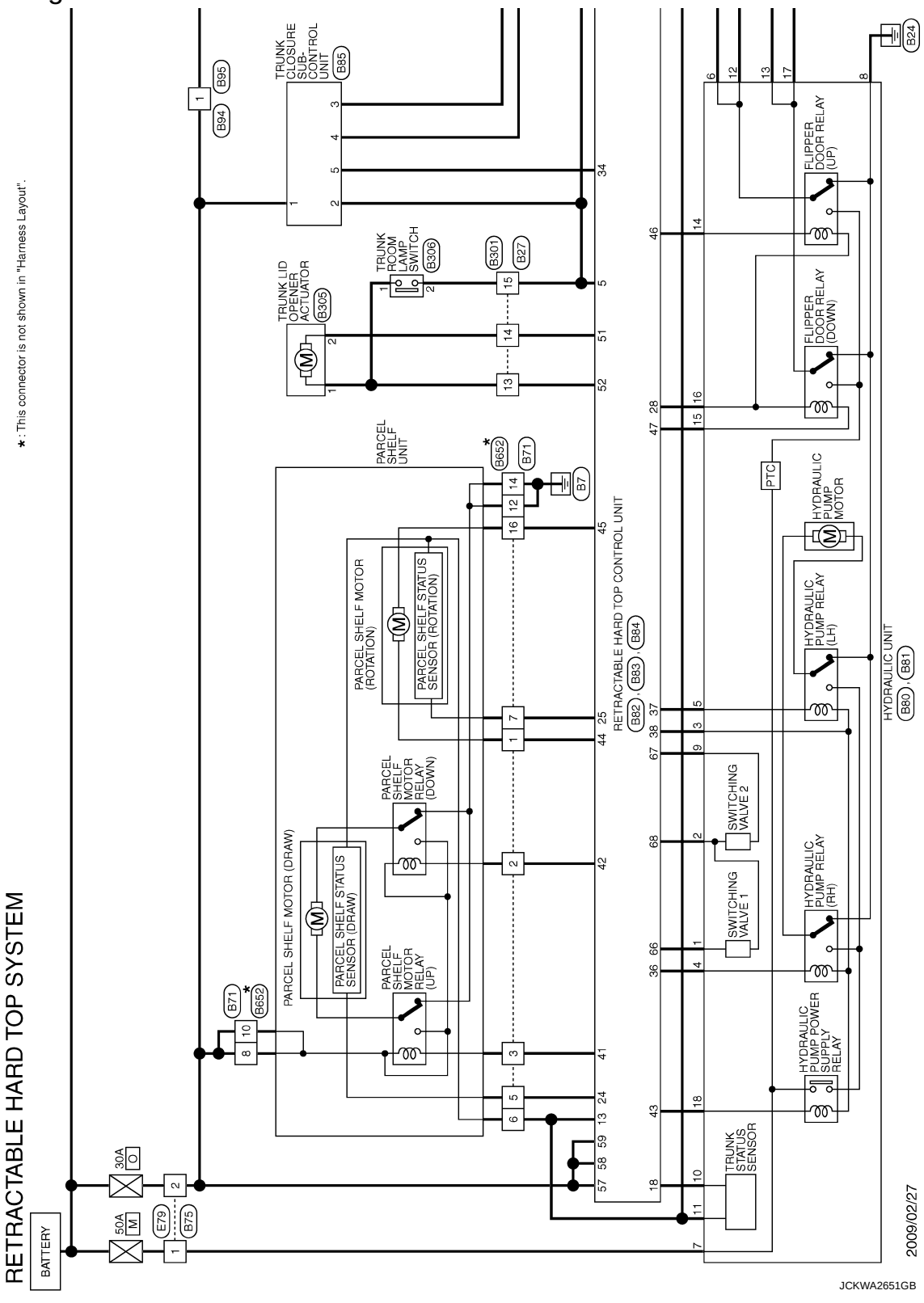
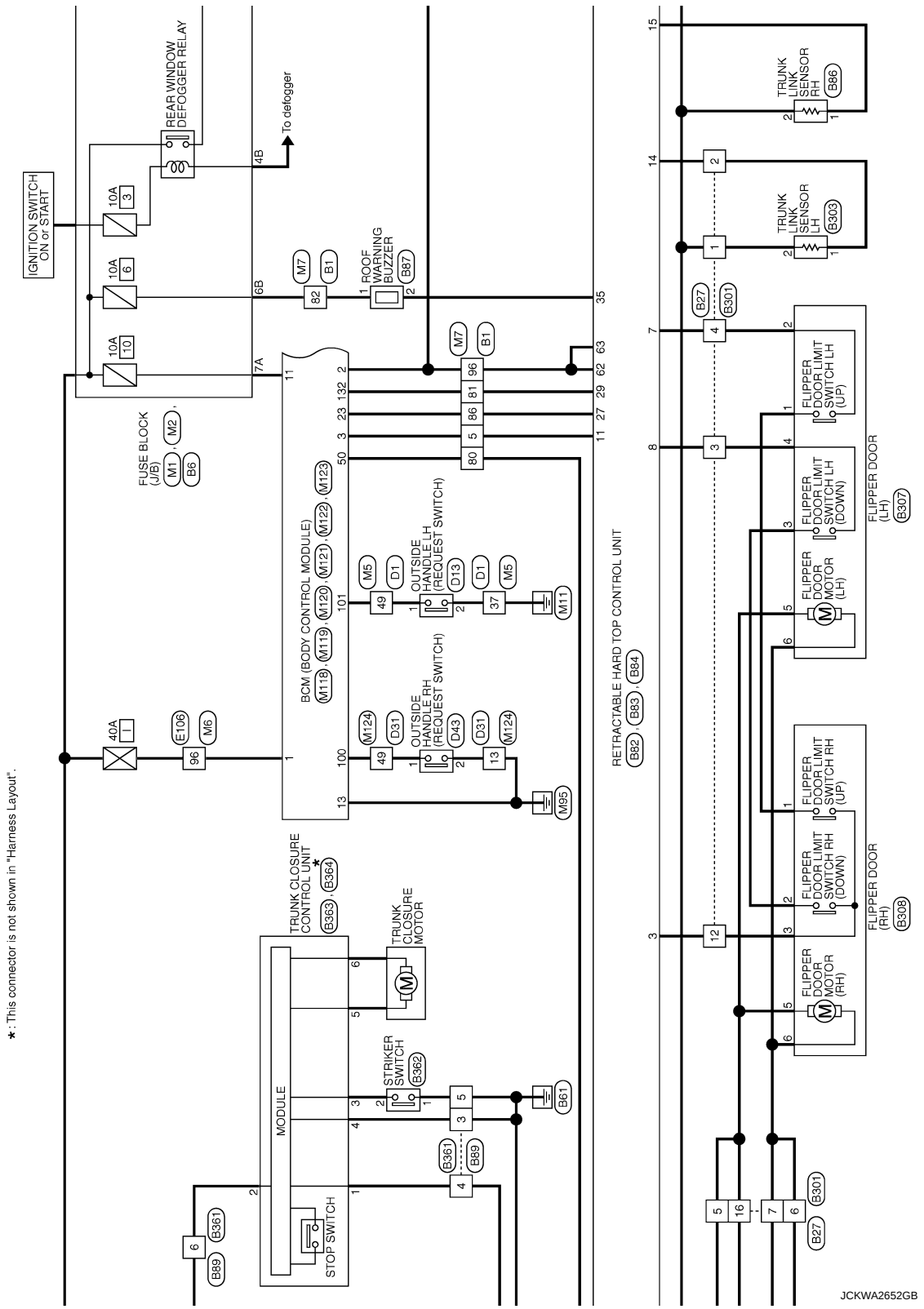
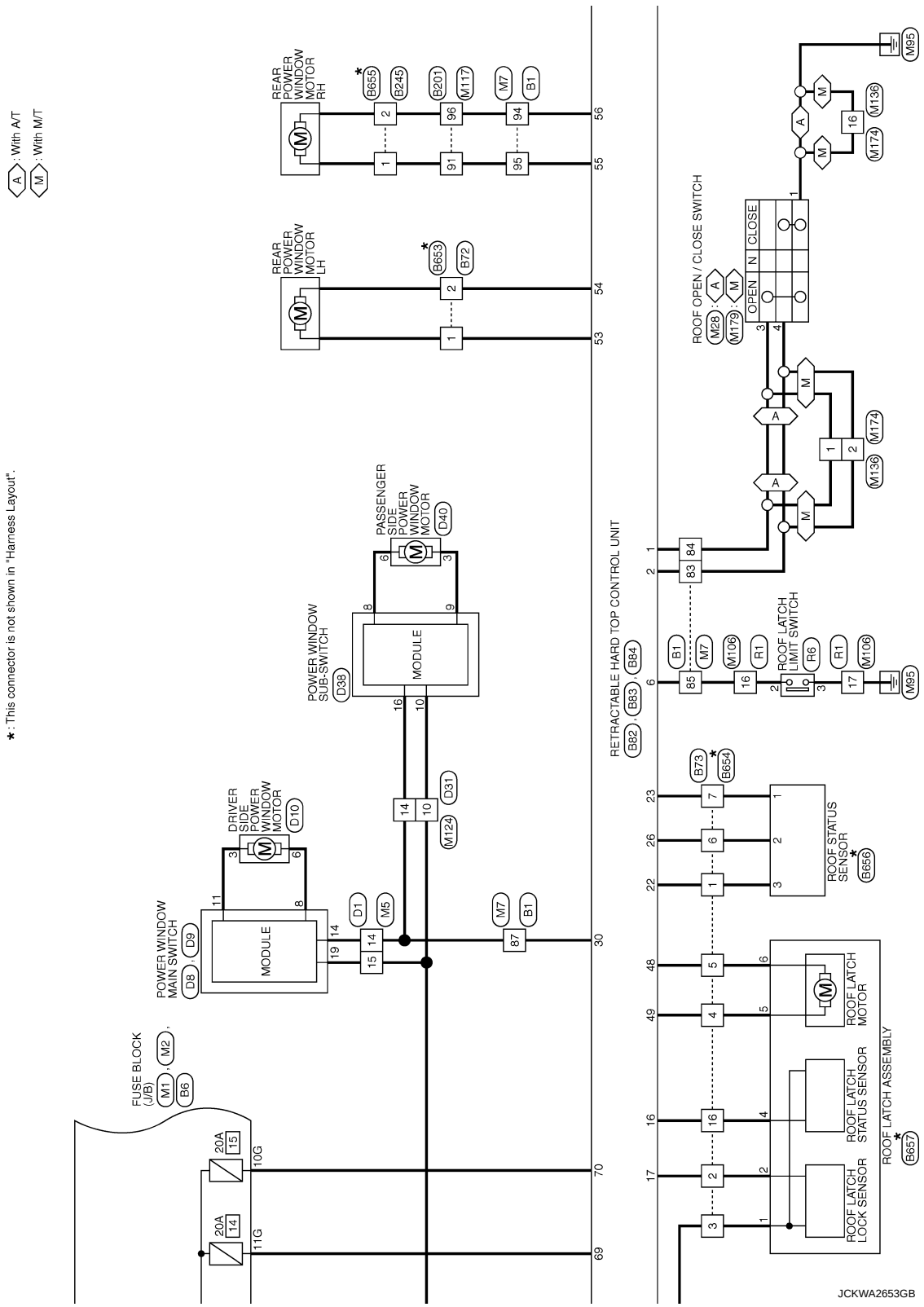
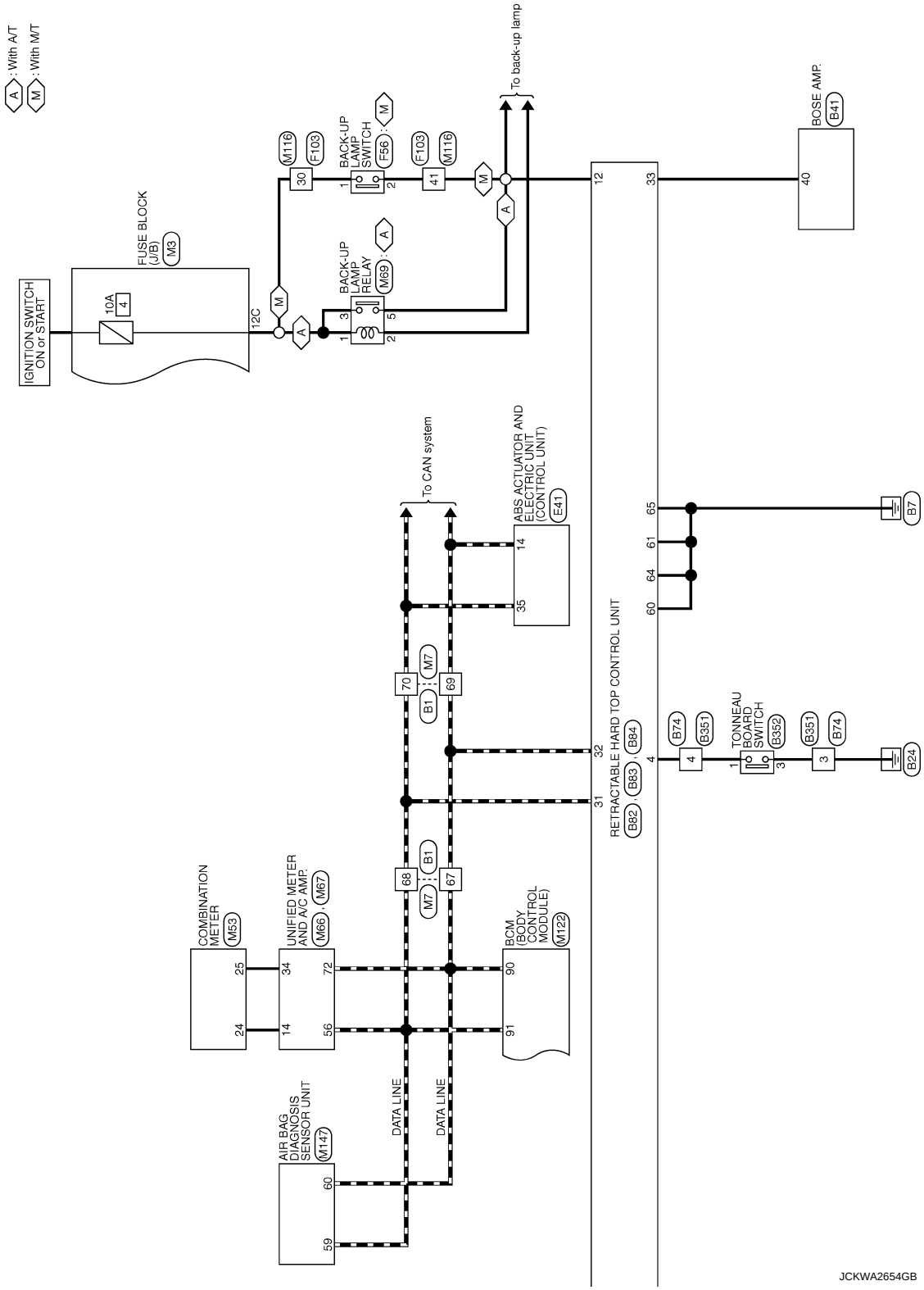
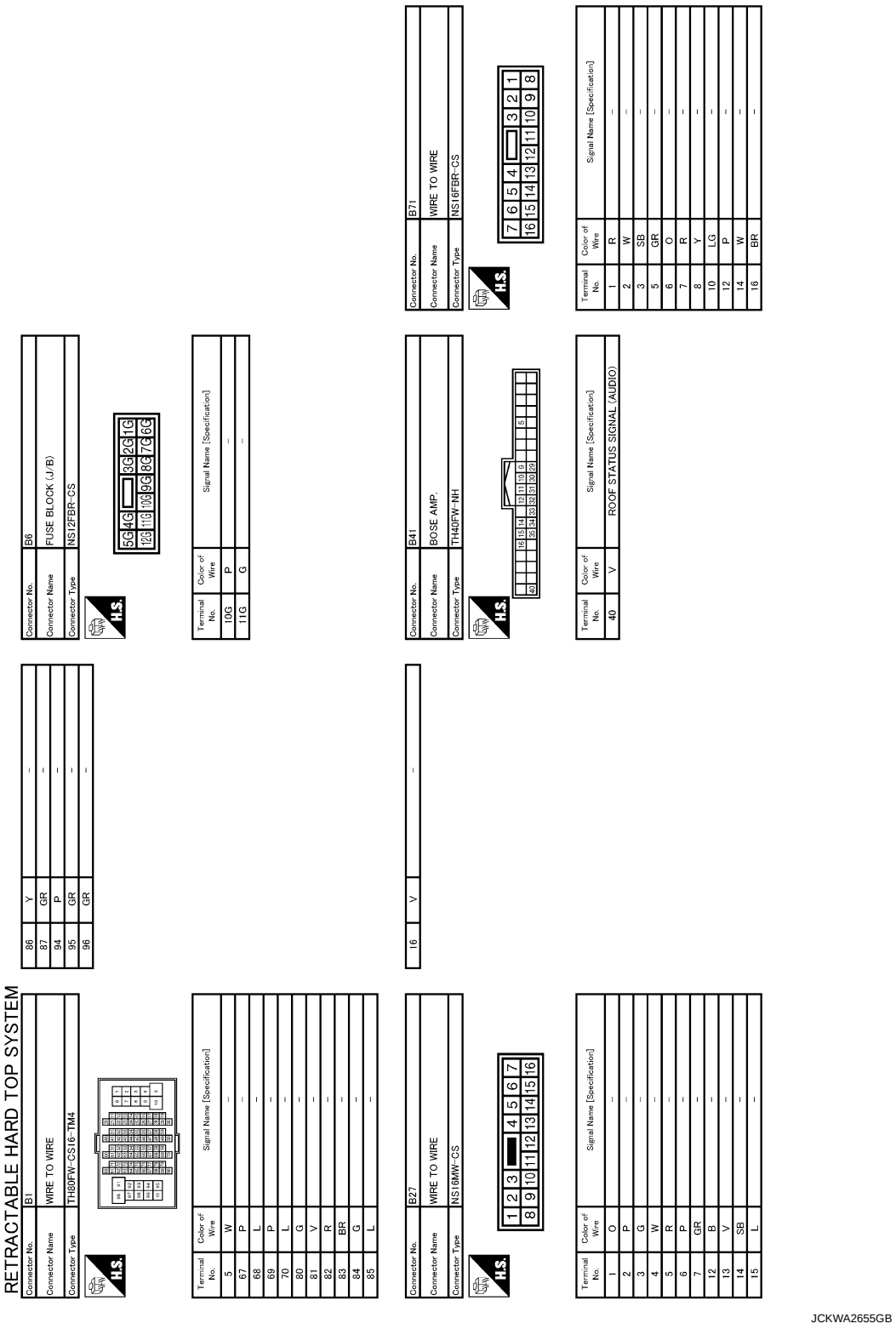



IGNITION SWITCH ON or START
REAR WINDOW DEFOGGER RELAY
To defogger
ROOF WARNING BUZZER
FUSE BLOCK (J/B)
BCM (BODY CONTROL MODULE)
OUTSIDE HANDLE LH (REQUEST SWITCH)
OUTSIDE HANDLE RH (REQUEST SWITCH)
TRUNK CLOSURE CONTROL UNIT *
TRUNK CLOSURE MOTOR
STRIKER SWITCH
STOP SWITCH
MODULE
RETRACTABLE HARD TOP CONTROL UNIT
TRUNK LINK SENSOR RH
TRUNK LINK SENSOR LH
FLIPPER DOOR LIMIT SWITCH LH (UP)
FLIPPER DOOR LIMIT SWITCH LH (DOWN)
FLIPPER DOOR MOTOR (LH)
FLIPPER DOOR (LH)
FLIPPER DOOR LIMIT SWITCH RH (UP)
FLIPPER DOOR LIMIT SWITCH RH (DOWN)
FLIPPER DOOR MOTOR (RH)
FLIPPER DOOR (RH)
* : This connector is not shown in "Harness Layout".
JCKWA2652GB

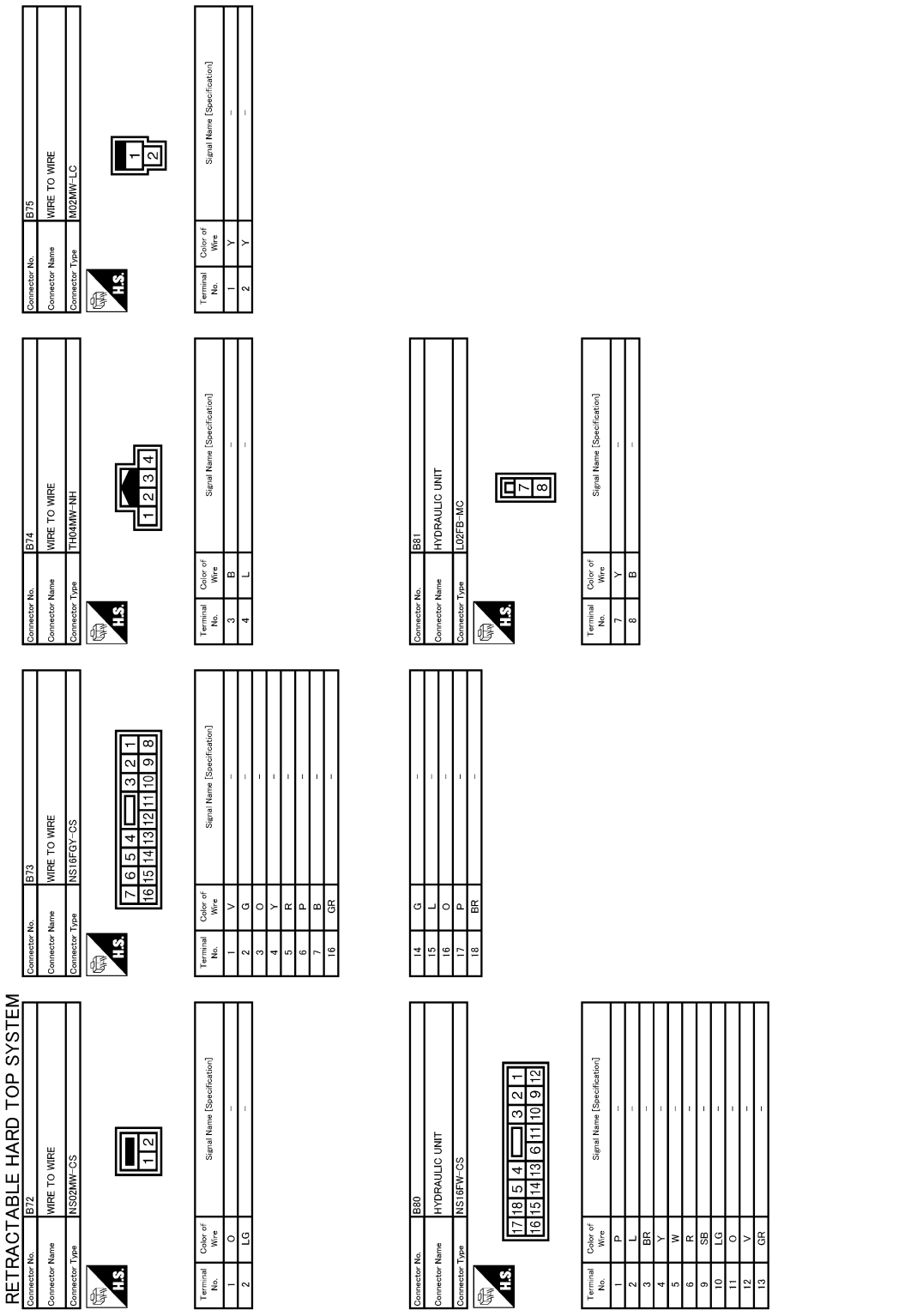

A : With A/T
M : With M/T
*: This connector is not shown in "Harness Layout".
REAR POWER WINDOW MOTOR RH
REAR POWER WINDOW MOTOR LH
PASSENGER SIDE POWER WINDOW MOTOR D40
POWER WINDOW SUB-SWITCH D38
MODULE
DRIVER SIDE POWER WINDOW MOTOR D10
POWER WINDOW MAIN SWITCH D8, D9
FUSE BLOCK (J/B) M1, M2, B6
20A 15
20A 14
10G
11G
RETRACTABLE HARD TOP CONTROL UNIT B82, B83, B84
ROOF OPEN / CLOSE SWITCH M28, M179
OPEN
N
CLOSE
ROOF LATCH LIMIT SWITCH
ROOF STATUS SENSOR B656
ROOF LATCH ASSEMBLY B657
ROOF LATCH MOTOR
ROOF LATCH STATUS SENSOR
ROOF LATCH LOCK SENSOR
JCKWA2653GB


A : With A/T
M : With M/T
To back-up lamp
BOSE AMP.
B41
BACK-UP LAMP SWITCH
F56
M116
F103
FUSE BLOCK (J/B)
M3
BACK-UP LAMP RELAY
M69
IGNITION SWITCH ON or START
10A
4
12C
To CAN system
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
E41
RETRACTABLE HARD TOP CONTROL UNIT
B82
B83
B84
TONNEAU BOARD SWITCH
B352
B351
B74
B7
B24
COMBINATION METER
M53
UNIFIED METER AND A/C AMP.
M66
M67
BCM (BODY CONTROL MODULE)
M122
AIR BAG DIAGNOSIS SENSOR UNIT
M147
DATA LINE
DATA LINE
JCKWA2654GB



JCKWA2655GB

RETRACTABLE HARD TOP SYSTEM



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RETRACTABLE HARD TOP SYSTEM

Connector No.	B92
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	TH40FW-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	O	PARCEL SHELF STATUS SENSOR POWER SUPPLY
14	P	TRUNK LINK SENSOR SIGNAL (LH)
15	SB	TRUNK LINK SENSOR SIGNAL (RH)
16	GR	ROOF LATCH STAUS 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	O	FLIPPER DOOR RELAY GND
29	V	LOCAL COMMUNICATION (BCM)
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.	B84
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
57	Y	BAT
58	Y	BAT
59	Y	BAT
60	B	GND
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 2
70	P	REAR WINDOW DEF IN 1

Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NS16FBR-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 (HORIZONAL)
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	O	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.	B85
Connector Name	TRUNK CLOSURE SUB -CONTROL UNIT
Connector Type	NS06FW-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	TH04FW-NH

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

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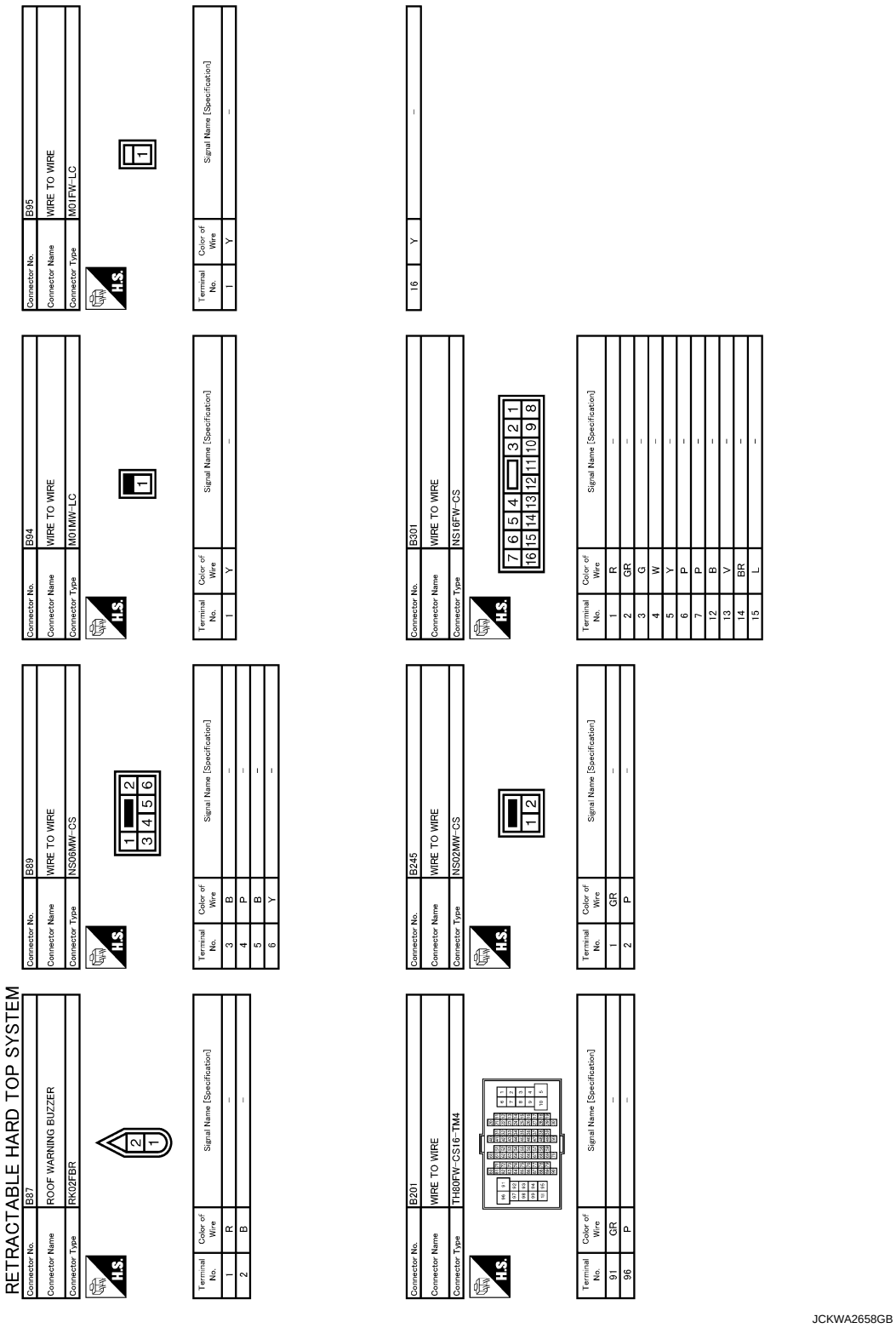

RETRACTABLE HARD TOP SYSTEM
Connector No. B87
Connector Name ROOF WARNING BUZZER
Connector Type RK02FBR
H.S.
2 1
Terminal No. | Color of Wire | Signal Name [Specification]
1 | R | –
2 | B | –
Connector No. B89
Connector Name WIRE TO WIRE
Connector Type NS06MW-CS
H.S.
1 2 3 4 5 6
Terminal No. | Color of Wire | Signal Name [Specification]
3 | B | –
4 | P | –
5 | B | –
6 | Y | –
Connector No. B94
Connector Name WIRE TO WIRE
Connector Type M01MW-LC
H.S.
1
Terminal No. | Color of Wire | Signal Name [Specification]
1 | Y | –
Connector No. B95
Connector Name WIRE TO WIRE
Connector Type M01FW-LC
H.S.
1
Terminal No. | Color of Wire | Signal Name [Specification]
1 | Y | –
Connector No. B201
Connector Name WIRE TO WIRE
Connector Type TH80FW-CS16-TM4
H.S.
Terminal No. | Color of Wire | Signal Name [Specification]
91 | GR | –
96 | P | –
Connector No. B245
Connector Name WIRE TO WIRE
Connector Type NS02MW-CS
H.S.
1 2
Terminal No. | Color of Wire | Signal Name [Specification]
1 | GR | –
2 | P | –
Connector No. B301
Connector Name WIRE TO WIRE
Connector Type NS16FW-CS
H.S.
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 | GR | –
3 | G | –
4 | W | –
5 | Y | –
6 | P | –
7 | P | –
12 | B | –
13 | V | –
14 | BR | –
15 | L | –
16 | Y | –
JCKWA2658GB

RETRACTABLE HARD TOP SYSTEM

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	–

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	G	V+

Connector No.	B306
Connector Name	TRUNK ROOM LAMP SWITCH
Connector Type	A02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SIG–
2	L	SIG+

Connector No.	B307
Connector Name	FLIPPER DOOR (LH)
Connector Type	NS06FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SWITCH FD UP
2	W	SWITCH FD UP 1
3	Y	SWITCH FD DOWN
4	G	SWITCH FD DOWN 1
5	BR	MOTOR FD UP
6	L	MOTOR FD DOWN

Connector No.	B308
Connector Name	FLIPPER DOOR (RH)
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SWITCH FD UP 1
2	Y	SWITCH FD DOWN
3	B	SWITCH FD GND COMBINED
5	BR	MOTOR FD UP
6	L	MOTOR FD DOWN

Connector No.	B351
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	G	–

Connector No.	B352
Connector Name	TONNEAU BOARD SWITCH
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
3	B	–

Connector No.	B361
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS

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

JCKWA2659GB

RETRACTABLE HARD TOP SYSTEM

Connector No.	B362
Connector Name	STRIKER SWITCH
Connector Type	RV02FGY

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

Connector No.	B363
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.	B364
Connector Name	TRUNK CLOSURE CONTROL UNIT
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	B	CLOSURE MOTOR GND
6	BR	CLOSURE MOTOR POWER

Connector No.	B652
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.	B653
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS

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

Connector No.	B654
Connector Name	WIRE TO WIRE
Connector Type	NS16MGY-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	–	–
16	–	–

Connector No.	B655
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS

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

Connector No.	B656
Connector Name	ROOF STATUS SENSOR
Connector Type	1-968700-1

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

JCKWA2660GB

RETRACTABLE HARD TOP SYSTEM

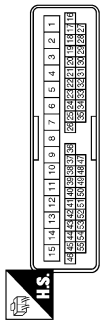
Connector No.	B657
Connector Name	ROOF LATCH ASSEMBLY
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–
4	–	–
5	–	–
6	–	–

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

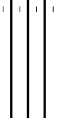
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
14	V	–
15	Y	–
37	B	–
49	W	–

Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	FHB06FGY-Z

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	–
6	L	–

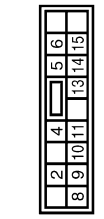
Connector No.	D13
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL

H.S.

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

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
8	L	–
11	BR	–
14	V	–

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
19	Y	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
10	LG	–
13	B	–
14	Y	–
49	W	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
8	L	–
9	V	–
10	W	–
16	Y	–

JCKWA2661GB

RETRACTABLE HARD TOP SYSTEM

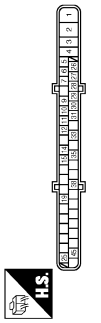
Connector No.	D40
Connector Name	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	FHB06FGY-Z

Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
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	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AH24-LH



Terminal No.	Color of Wire	Signal Name [Specification]
14	P	CAN-L
35	L	CAN-H

Connector No.	E79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-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]
96	W	–

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]
30	R	–
41	O	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

JCKWA2662GB

RETRACTABLE HARD TOP SYSTEM

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

Terminal No.	Color of Wire	Signal Name [Specification]
4B	G	–
6B	Y	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	–

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
14	V	–
15	Y	–
37	B	–
49	P	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
5	L	–
67	P	–
68	L	–
69	P	–
70	L	–
80	G	–
81	V	–
82	L	–
83	BR	–
84	V	–
85	L	–

Connector No.	M28
Connector Name	ROOF OPEN / CLOSE SWITCH (WITH A/T)
Connector Type	TK06FW-1V

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	V	–
4	BR	–

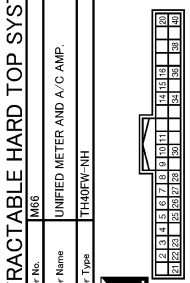
Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW

Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP.->LCD)

JCKWA2663GB

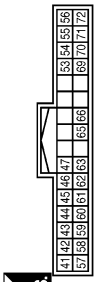
RETRACTABLE HARD TOP SYSTEM

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	COMMUNICATION SIGNAL (LCD->AMP.)
34	Y	COMMUNICATION SIGNAL (AMP.->LCD)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

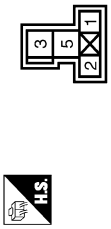
Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	–
41	O	–

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

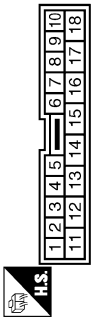
Terminal No.	Color of Wire	Signal Name [Specification]
91	GR	–
96	P	–

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2-LC



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

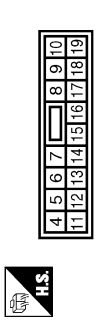


Terminal No.	Color of Wire	Signal Name [Specification]
16	L	–
17	B	–

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

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

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

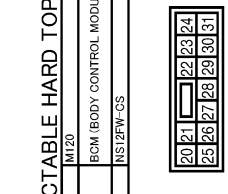


Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

JCKWA2664GB

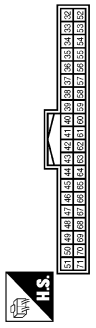
RETRACTABLE HARD TOP SYSTEM

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



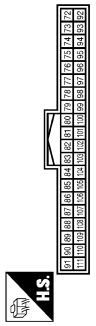
Terminal No.	Color of Wire	Signal Name [Specification]
23	Y	TRUNK LID OPEN OUTPUT

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



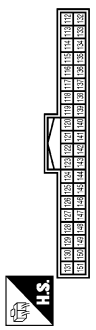
Terminal No.	Color of Wire	Signal Name [Specification]
50	G	TRUNK ROOM LAMP SW

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



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW

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



Terminal No.	Color of Wire	Signal Name [Specification]
132	V	P/W SW & RHT C/U COMM

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

Terminal No.	Color of Wire	Signal Name [Specification]
10	V	–
13	B	–
14	G	–
49	Y	–

Connector No.	M136
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
16	B	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
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	–
16	B	–

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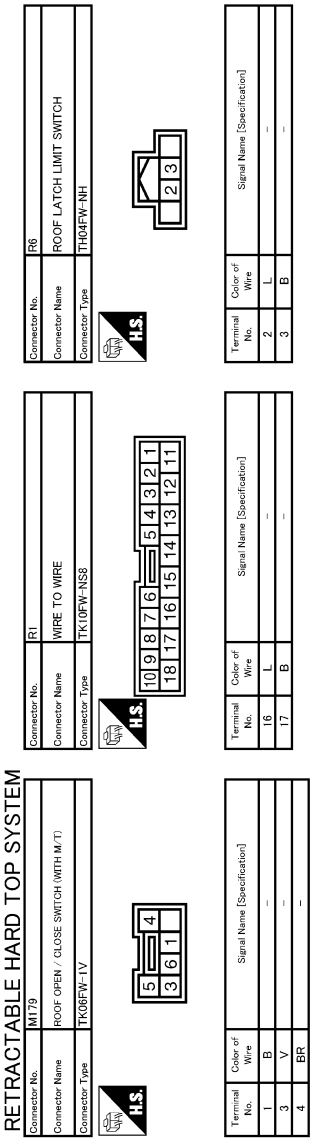

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Fail-safe

INFOID:0000000005185680

FAIL-SAFE CONTROL BY DTC

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

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 SEN-SOR(LH)	Inhibit retractable hard top operation.	Detects normal value
B170D	TRUNK LINK SEN-SOR(RH)	Inhibit retractable hard top operation.	Detects normal value
B170F	SENSOR POWER SUP-PLY	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 BUZZ-ER	Inhibit retractable hard top operation.	Detects normal value
B172E	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value

Display contents of CONSULT-III		Fail-safe	Cancellation
B172F	REAR PWR WINDOW(LH)	Inhibit retractable hard top operation.	Detects normal value
B1730	REAR PWR WIN-DOW(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

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, "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 is14.5 (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 more
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:0000000005185681

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)
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

Priority	Display contents of CONSULT-III	
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(DRAW)
	B1718	PS STATUS SEN(ROTA)
	B1719	ROOF STATUS SEN
6	B172D	ROOF WARNING BUZZER

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

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

DTC Index

INFOID:0000000005185682

NOTE:
For details of Freeze Frame Data, refer to RF-58, "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-63
U1010	CONTROL UNIT (CAN)	×	×	RF-64
U0140	LOCAL COMM-1	×	×	RF-65
U0215	LOCAL COMM-2	×	×	RF-66
B1701	ROOF CONTROL UNIT	×	×	RF-68
B1702	ROOF CONTROL UNIT	×	×	RF-69
B1707	ROOF OPEN STATE	—	×	RF-70
B1708	ROOF CLOSE STATE	—	×	RF-72
B1709	ROOF SWITCH(OPEN)	×	×	RF-74
B170A	ROOF SWITCH(CLOSE)	×	×	RF-76
B170B	ROOF SWITCH	×	×	RF-78
B170C	TRUNK LINK SENSOR(LH)	×	×	RF-80
B170D	TRUNK LINK SENSOR(RH)	×	×	RF-82
B170F	SENSOR POWER SUPPLY	×	×	RF-84
B1710	LATCH STATUS SENSOR	×	×	RF-87
B1711	LATCH LOCK SENSOR	×	×	RF-89
B1712	TRUNK STATUS SENSOR	×	×	RF-91
B1715	ROOF STATUS SEN PWR	×	×	RF-93
B1716	PS STATUS SEN(DRAW)	×	×	RF-97
B1718	PS STATUS SEN(ROTA)	×	×	RF-95
B1719	ROOF STATUS SEN	×	×	RF-99
B171A	HYDRAULIC PMP(LH)	×	×	RF-101
B171B	HYDRAULIC PMP(RH)	×	×	RF-103
B171C	SWITCHING VALVE 1	×	×	RF-105
B171D	SWITCHING VALVE 2	×	×	RF-107
B171E	ROOF CONTROL UNIT	×	×	RF-109
B171F	ROOF CONTROL UNIT	×	×	RF-110
B1720	ROOF CONTROL UNIT	×	×	RF-111
B1721	ROOF CONTROL UNIT	×	×	RF-112
B1722	ROOF CONTROL UNIT	×	×	RF-113
B1723	ROOF CONTROL UNIT	×	×	RF-114
B1724	ROOF CONTROL UNIT	×	×	RF-115
B1725	ROOF CONTROL UNIT	×	×	RF-116
B1726	ROOF CONTROL UNIT	×	×	RF-117

Display contents of CONSULT-III		Fail-safe	Freeze Frame Data	Reference page
B1728	ROOF CONTROL UNIT	×	×	RF-118
B1729	ROOF CONTROL UNIT	×	×	RF-119
B172A	ROOF CONTROL UNIT	×	×	RF-120
B172B	ROOF STATE SIG(AUDIO)	×	×	RF-121
B172C	ROOF STATE SIG(TRUNK)	×	×	RF-123
B172D	ROOF WARNING BUZZER	×	×	RF-125
B172E	ROOF CONTROL UNIT	×	×	RF-127
B172F	REAR PWR WINDOW(LH)	×	×	RF-128
B1730	REAR PWR WINDOW(RH)	×	×	RF-130
B1731	HYDRAULIC STATE 1	×	×	RF-132
B1732	HYDRAULIC STATE 2	×	×	RF-134
B1733	HYDRAULIC STATE 3	×	×	RF-136
B1734	HYDRAULIC STATE 4	×	×	RF-138
B1735	HYDRAULIC STATE 5	×	×	RF-140
B1736	HYDRAULIC STATE 6	×	×	RF-142
B1737	HYDRAULIC STATE 7	×	×	RF-143
B1738	HYDRAULIC STATE 8	×	×	RF-144
B1739	HYDRAULIC STATE 9	×	×	RF-145
B173A	HYDRAULIC STATE 10	×	×	RF-146
B173B	HYDRAULIC STATE 11	×	×	RF-147
B173C	HYDRAULIC STATE 12	×	×	RF-148
B173D	HYDRAULIC STATE 13	×	×	RF-149
B173E	HYDRAULIC STATE 14	×	×	RF-150
B173F	HYDRAULIC STATE 15	×	×	RF-151
B1740	HYDRAULIC STATE 16	×	×	RF-152
B1741	HYDRAULIC STATE 17	×	×	RF-155
B1742	HYDRAULIC STATE 18	×	×	RF-156
B1743	HYDRAULIC STATE 19	×	×	RF-158
B1744	HYDRAULIC STATE 20	×	×	RF-160
B1745	HYDRAULIC STATE 21	×	×	RF-162
B1746	HYDRAULIC STATE 22	×	×	RF-164
B1747	P SHELF (DRAW) STATE 1	×	×	RF-166
B1748	P SHELF (DRAW) STATE 2	×	×	RF-167
B1749	P SHELF (DRAW) STATE 3	×	×	RF-168
B174A	P SHELF (DRAW) STATE 4	×	×	RF-169
B174B	P SHELF (DRAW) STATE 5	×	×	RF-170
B174C	P SHELF (DRAW) STATE 6	×	×	RF-171
B174D	P SHELF (ROT) STATE 1	×	×	RF-172
B174E	P SHELF (ROT) STATE 2	×	×	RF-173
B174F	P SHELF (ROT) STATE 3	×	×	RF-174
B1750	P SHELF (ROT) STATE 4	×	×	RF-175
B1751	ROOF LATCH STATE 1	×	×	RF-176
B1752	ROOF LATCH STATE 2	×	×	RF-177
B1753	ROOF LATCH STATE 3	×	×	RF-178

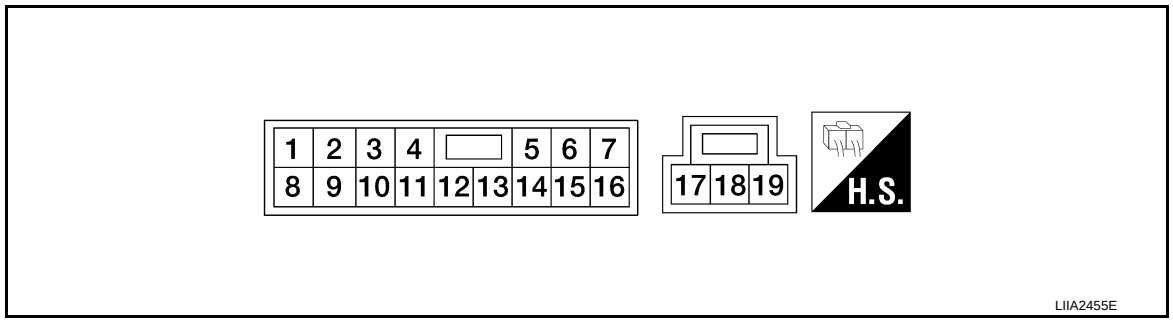
Display contents of CONSULT-III		Fail-safe	Freeze Frame Data	Reference page
B1754	FLIPPER DOOR STATE 1	×	×	RF-179
B1755	FLIPPER DOOR STATE 2	×	×	RF-180
B1756	FLIPPER DOOR STATE 3	×	×	RF-181
B1757	FLIPPER DOOR STATE 4	×	×	RF-182
B1758	THERMO PROTECTION	×	×	RF-183
B175C	PWR SOURCE(ROOF)	×	×	RF-184
B175D	PWR SOURCE(ROOF)	×	×	RF-185
B175E	PWR SOURCE(WINDOW)	×	×	RF-186
B175F	PWR SOURCE(WINDOW)	×	×	RF-188
B1760	ROOF CONTROL UNIT	×	×	RF-190
B1761	ROOF CONTROL UNIT	×	×	RF-191
B1762	ROOF STATE	×	×	RF-192
B1763	HYDRAULIC STATE	×	×	RF-195
B1764	ROOF LATCH STATE	×	×	RF-197
B1765	FLIPPER DOOR STATE	×	×	RF-198

POWER WINDOW MAIN SWITCH

Reference Value

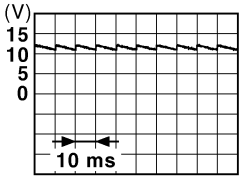
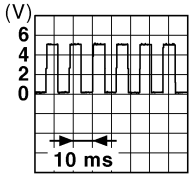
INFOID:0000000004371066

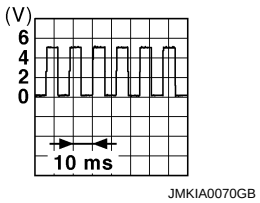
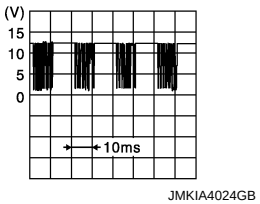
TERMINAL LAYOUT



PHYSICAL VALUES

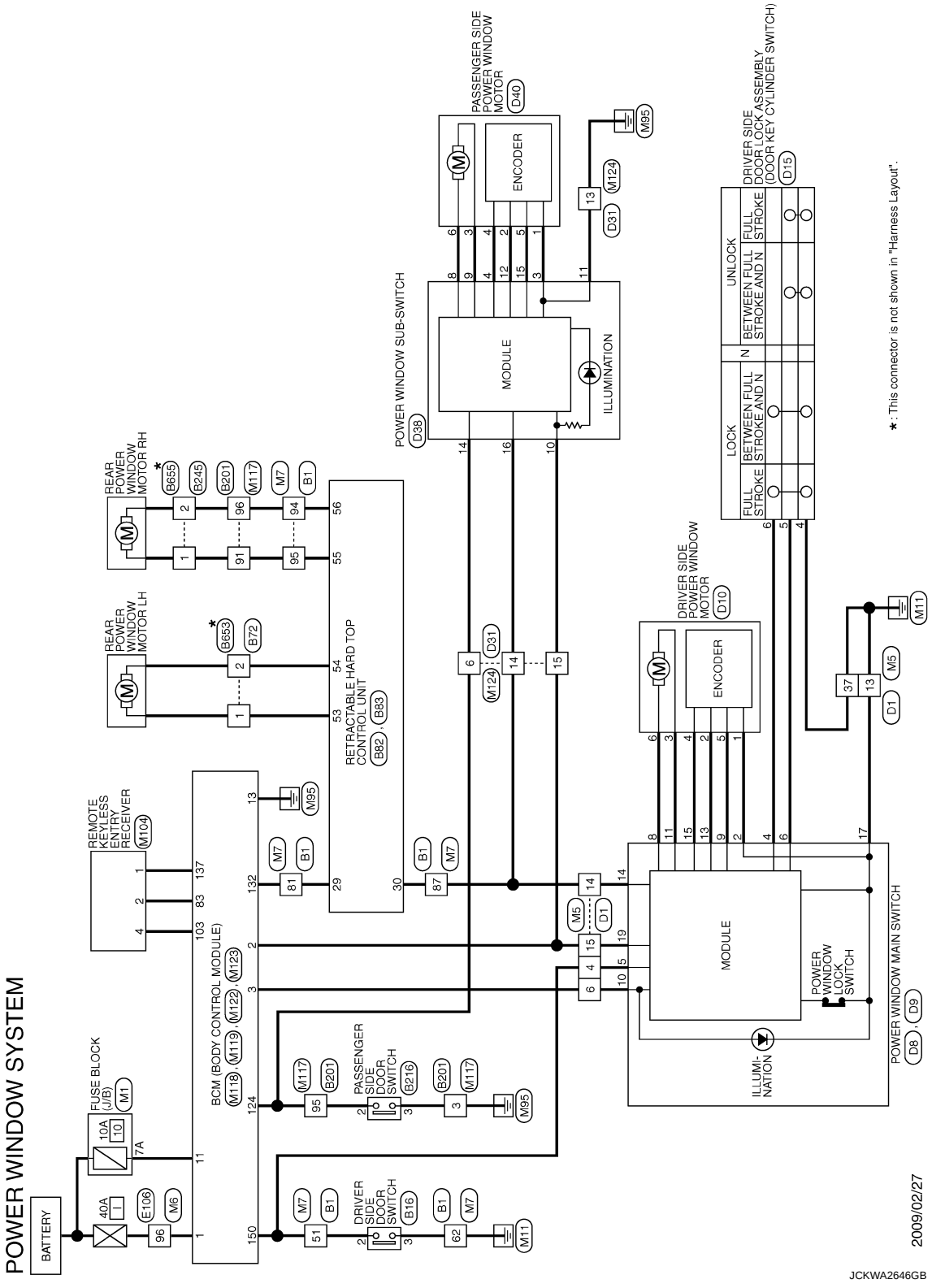
POWER WINDOW MAIN SWITCH

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)	 JPMIA0011GB
				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 motor 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 motor operates.	 JMKIA0070GB

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.	 JMKIA0070GB
14 (V)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	 JMKIA4024GB
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

Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

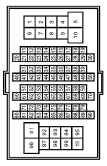
INFOID:0000000004371067



POWER WINDOW SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

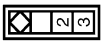
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
51	SB	–
62	B	–
81	V	–
87	GR	–
94	P	–
95	GR	–

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

H.S.



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

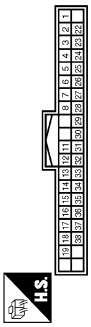
Connector No.	B72
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS

H.S.

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

Connector No.	B82
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
29	V	LOCAL COMMUNICATION (BCM)
30	GR	LOCAL COMMUNICATION (POWER WINDOW)

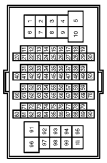
Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NS16FBR-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
53	O	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-TM4

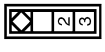
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
91	GR	–
95	V	–
96	P	–

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

H.S.



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

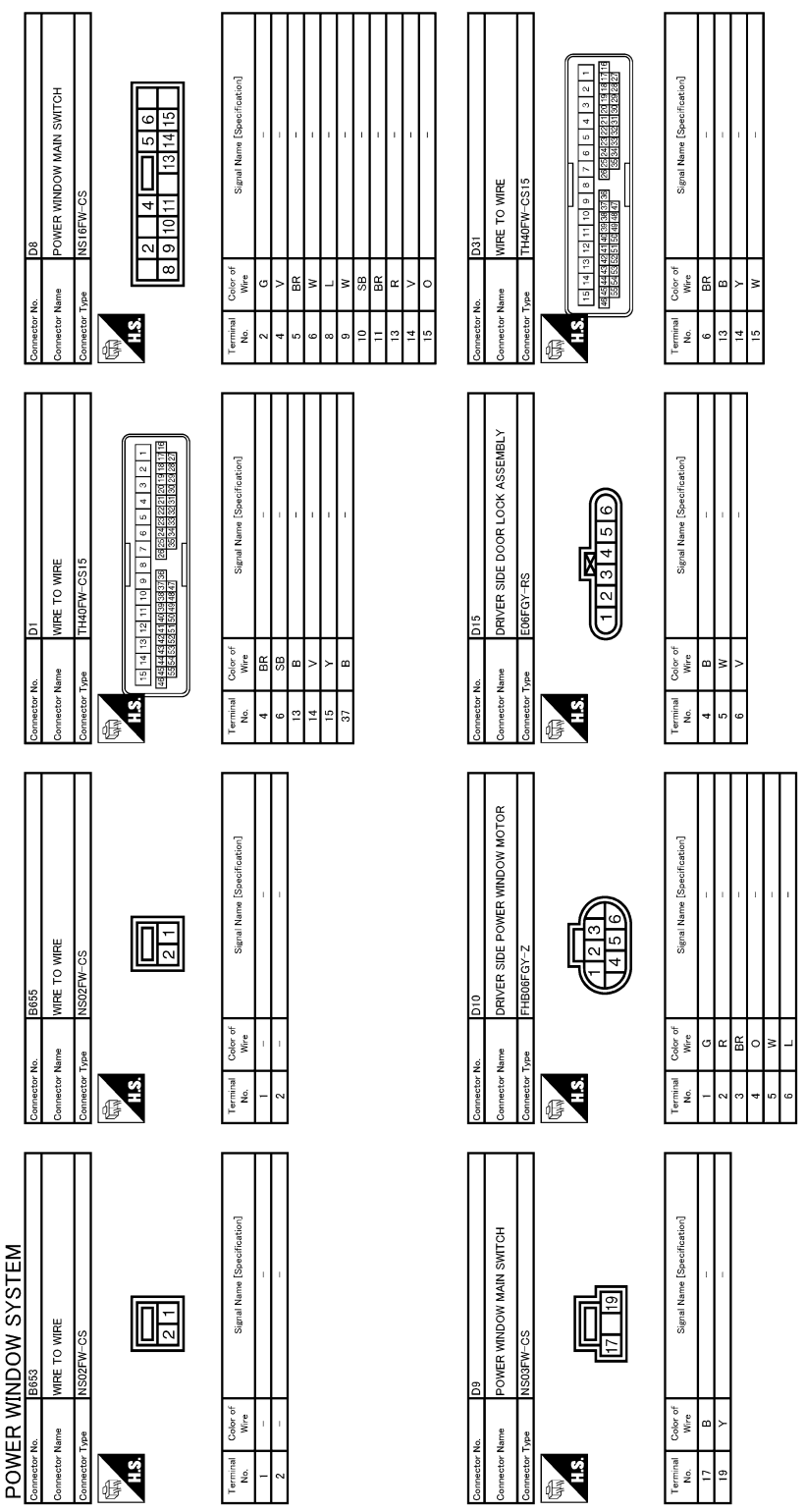
Connector No.	B245
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS

H.S.

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

JCKWA2647GB

POWER WINDOW SYSTEM



JCKWA2648GB

POWER WINDOW SYSTEM

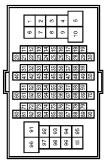
Connector No.	D38
Connector Name	POWER WINDOW SUB-SWITCH
Connector Type	NS16FW-CS

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	FHB06FGY-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

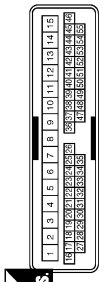


Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

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

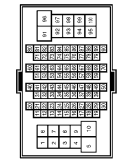
Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



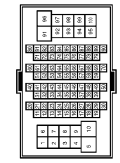
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	–
6	O	–
13	B	–
14	V	–
15	Y	–
37	B	–

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



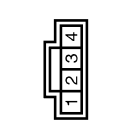
Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

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



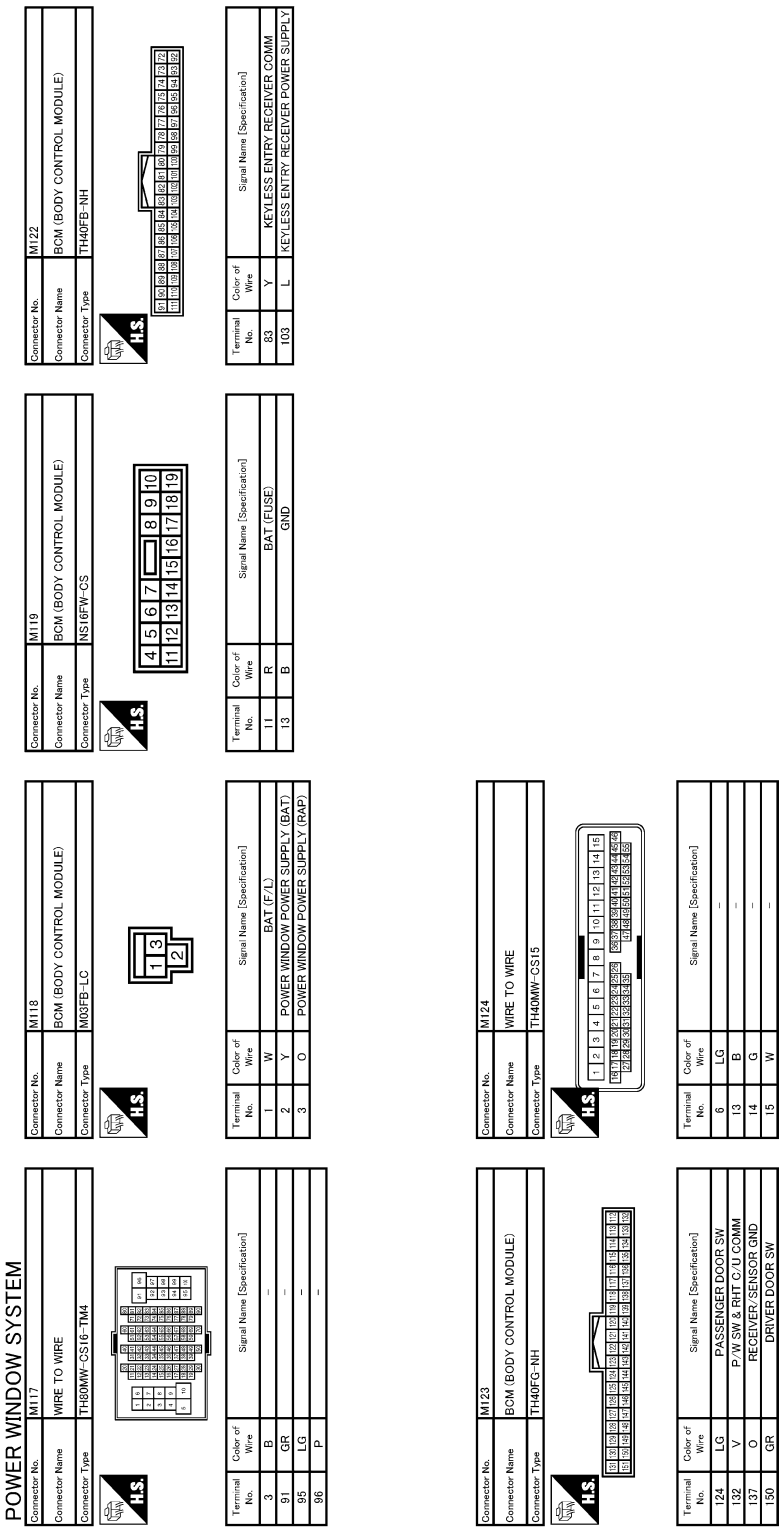
Terminal No.	Color of Wire	Signal Name [Specification]
51	GR	–
62	B	–
81	V	–
87	V	–
94	P	–
95	GR	–

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAE04FB



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

JCKWA2649GB



JCKWA2650GB

Fail Safe

INFOID:0000000004371068

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.

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

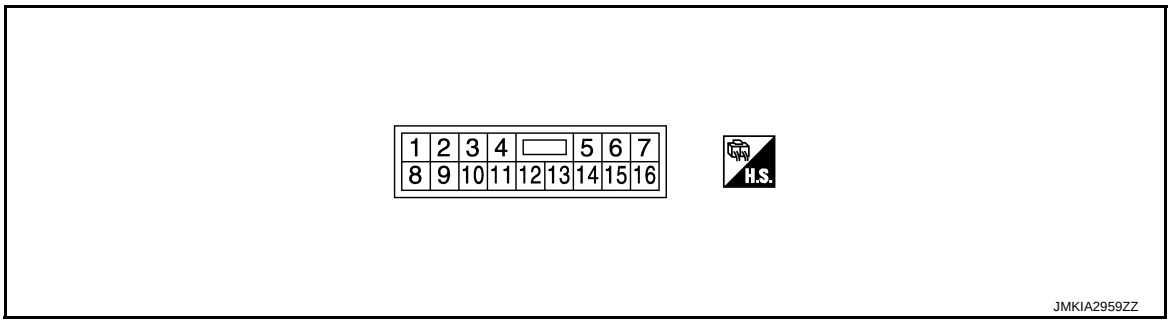
Perform initial operation to recover when switched to fail-safe mode. However, it switches back to fail-safe control when malfunction is found in power window switch or in motor.

POWER WINDOW SUB-SWITCH

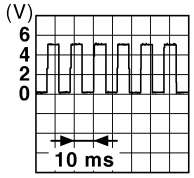
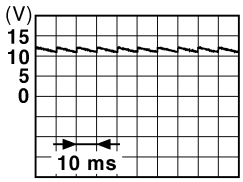
Reference Value

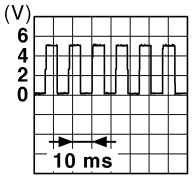
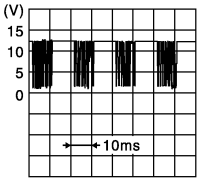
INFOID:0000000005095023

TERMINAL LAYOUT



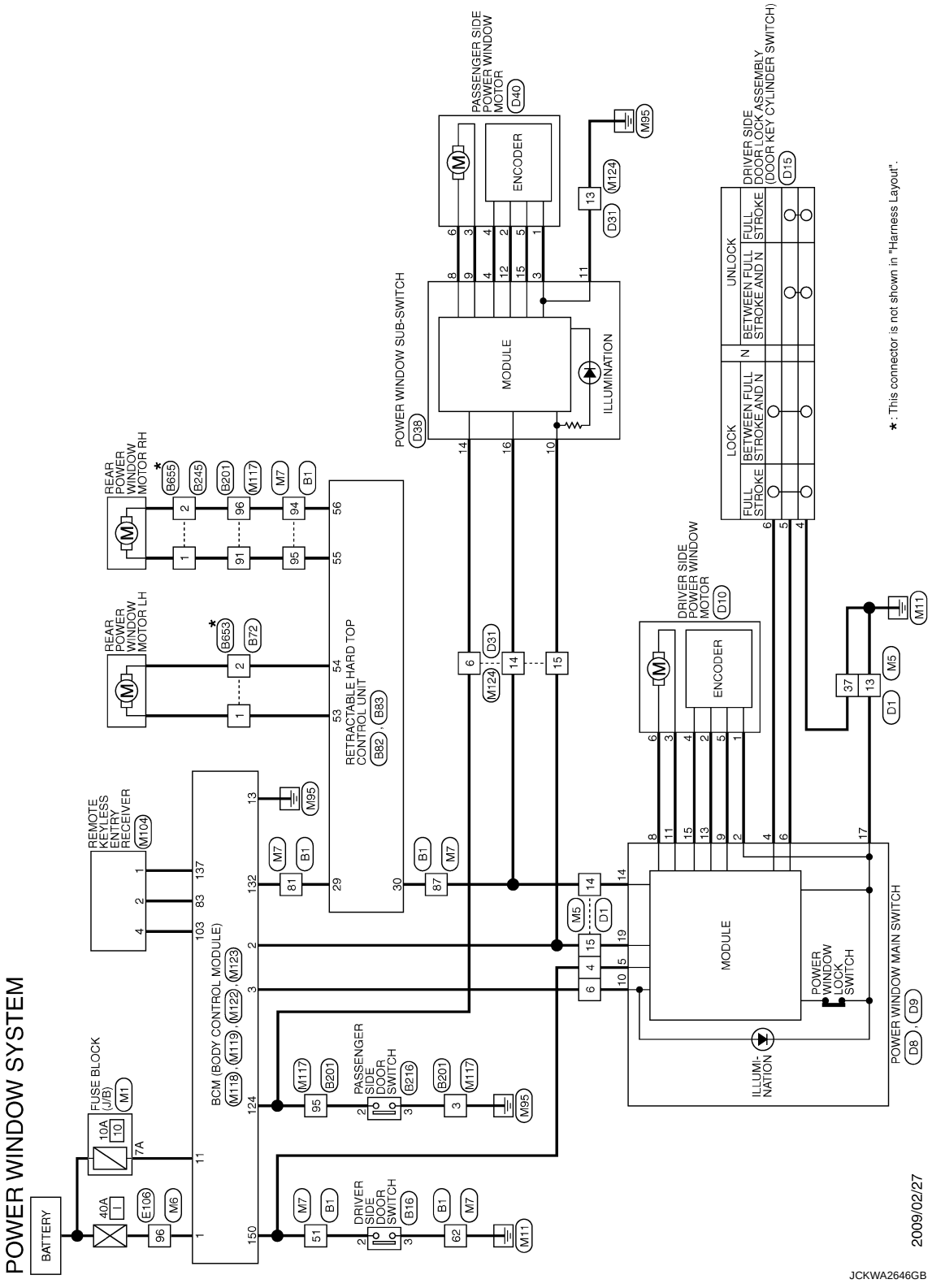
PHYSICAL VALUES

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

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	 JMKIA0070GB
16 (Y)	Ground	Power window serial link	Input/ Output	Ignition switch ON	 JMKIA4024GB

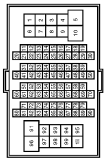
Wiring Diagram - POWER WINDOW CONTROL SYSTEM -

INFOID:0000000005186190



POWER WINDOW SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
51	SB	–
62	B	–
81	V	–
87	GR	–
94	P	–
95	GR	–

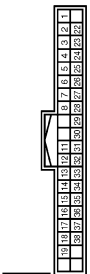
Connector No.	B16
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW

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

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

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

Connector No.	B82
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	TH40FW-NH

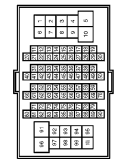


Terminal No.	Color of Wire	Signal Name [Specification]
29	V	LOCAL COMMUNICATION (BCM)
30	GR	LOCAL COMMUNICATION (POWER WINDOW)

Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	NS16FBR-CS

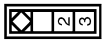
Terminal No.	Color of Wire	Signal Name [Specification]
53	O	REAR POWER WINDOW MOTOR LH (UP)
54	LG	REAR POWER WINDOW MOTOR LH (DOWN)
55	GR	REAR POWER WINDOW MOTOR RH (UP)
56	P	REAR POWER WINDOW MOTOR RH (DOWN)

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
91	GR	–
95	V	–
96	P	–

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	NS02MW-CS

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

JCKWA2647GB

POWER WINDOW SYSTEM

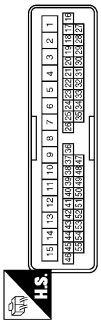
Connector No.	B653
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS

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

Connector No.	B655
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS

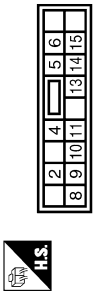
Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	–
6	SB	–
13	B	–
14	V	–
15	Y	–
37	B	–

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	NS03FW-CS

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

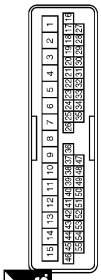
Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	FHB06FGY-Z

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	E06FGY-RS

Terminal No.	Color of Wire	Signal Name [Specification]
4	B	–
5	W	–
6	V	–

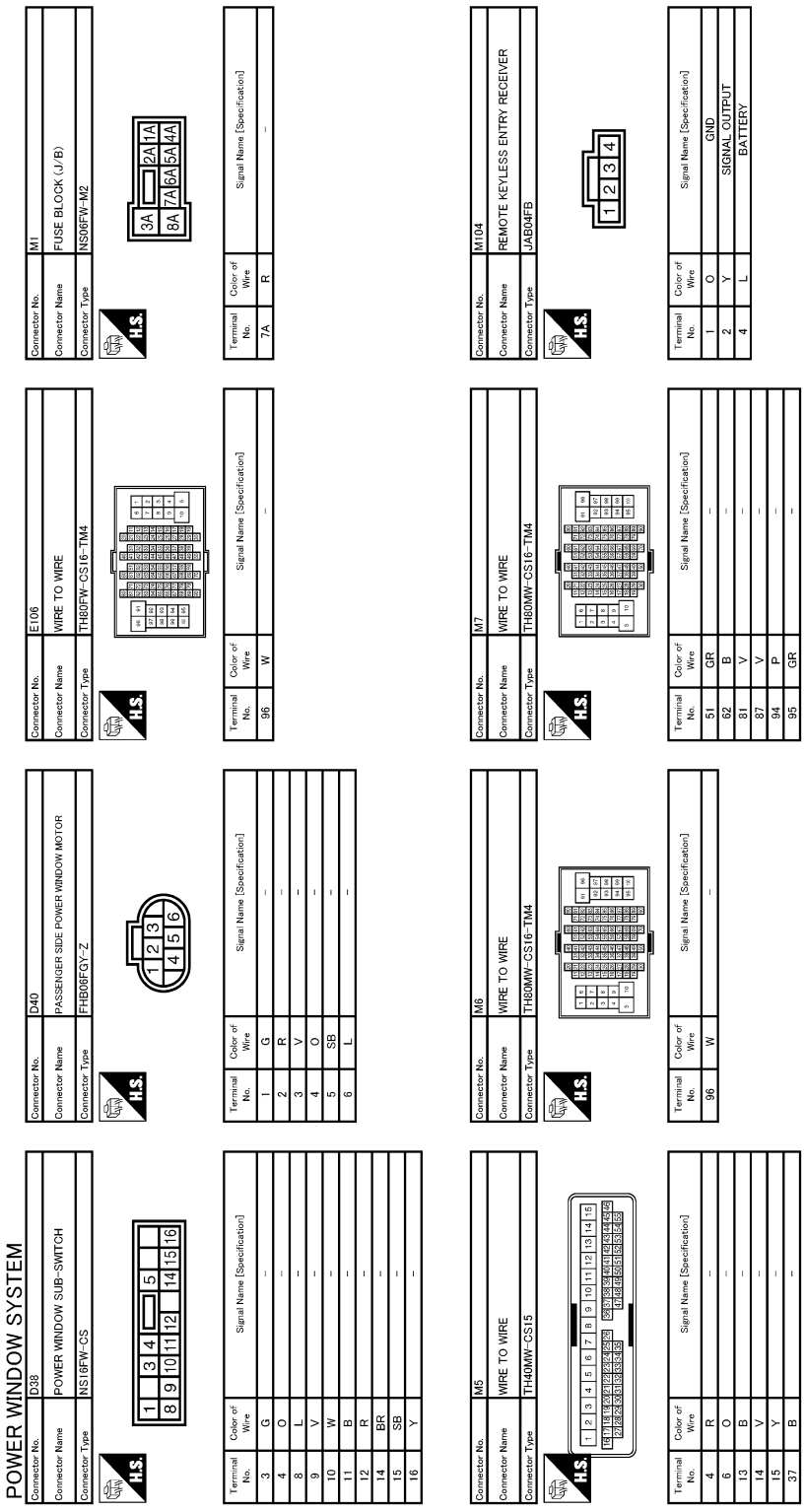
Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



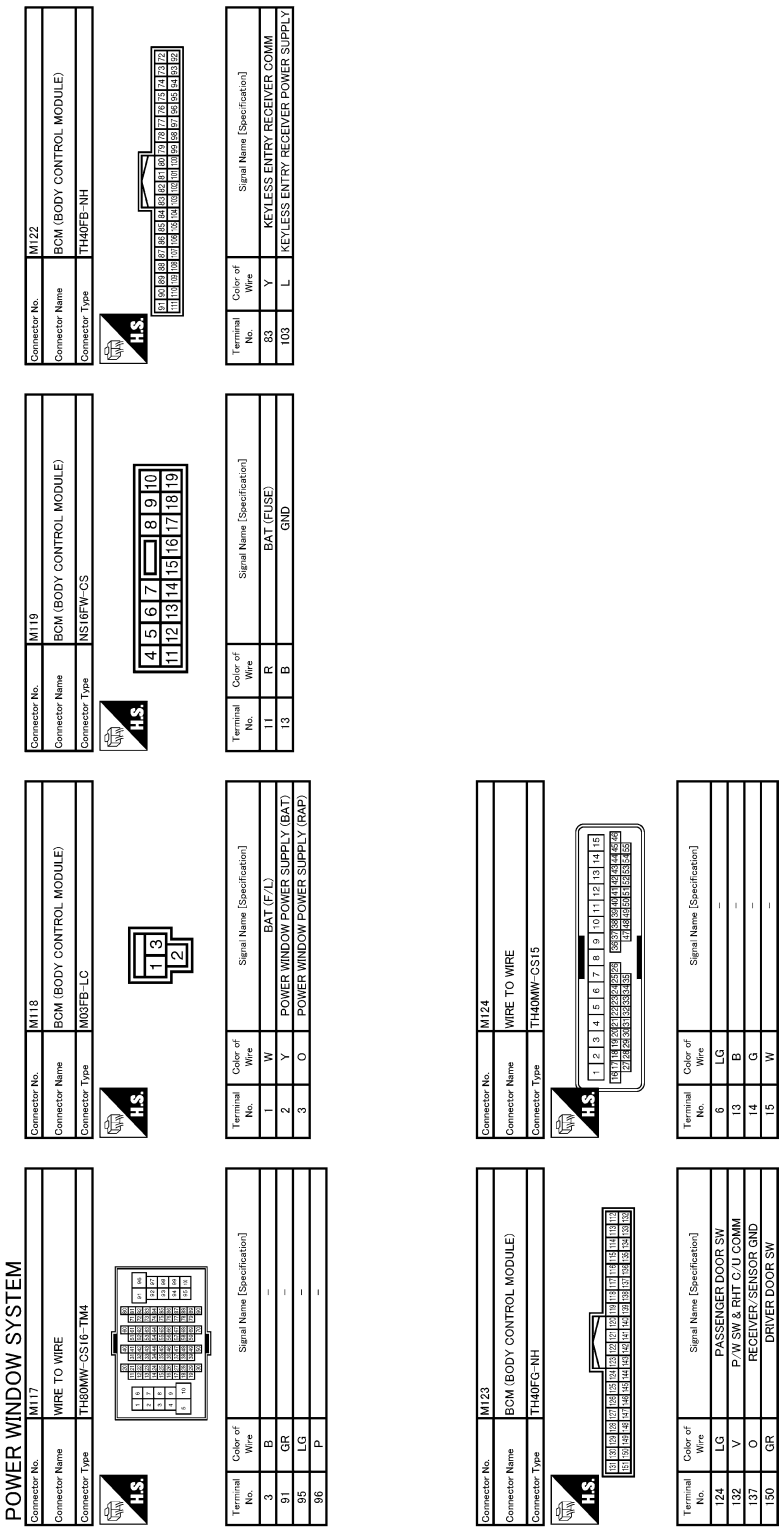
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–
13	B	–
14	Y	–
15	W	–

JCKWA2648GB

POWER WINDOW SYSTEM



JCKWA2649GB



JCKWA2650GB

Fail Safe

INFOID:0000000004371071

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.

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.

SYMPTOM DIAGNOSIS

POWER WINDOWS DO NOT OPERATE WITH ANY POWER WINDOW SWITCHES

Description

INFOID:0000000005095024

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

Diagnosis Procedure

INFOID:0000000005095025

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-36, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description

INFOID:0000000005095026

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

Diagnosis Procedure

INFOID:0000000005095027

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-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Description

INFOID:0000000005095032

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

Diagnosis Procedure

INFOID:0000000005095033

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-36, "Intermittent Incident".
NO >> GO TO 1.

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004747747

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-36, "Intermittent Incident".
NO >> GO TO 1.

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004747749

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-36, "Intermittent Incident".
NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

Description

INFOID:0000000005095034

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

Diagnosis Procedure

INFOID:0000000005095035

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-125, "DRIVER SIDE : Diagnosis Procedure".
NO-2 >> Passenger side : Refer to PWC-125, "PASSENGER SIDE : Diagnosis Procedure".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000005095036

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-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000005095037

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-36, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Description

INFOID:0000000005095411

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

Diagnosis Procedure

INFOID:0000000005095412

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-36, "Intermittent Incident".
NO >> GO TO 1.

DOOR KEY CYLINDER SWITCH DOES NOT OPERATE POWER WINDOWS

Description

INFOID:0000000005095413

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

Diagnosis Procedure

INFOID:0000000005095414

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-36, "Intermittent Incident".
NO >> GO TO 1.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Description

INFOID:0000000005095415

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

Diagnosis Procedure

INFOID:0000000005095416

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-240, "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-240, "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-36, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000005095038

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-133, "Removal and Installation".

POWER WINDOW SWITCH ILLUMINATION DOES NOT ILLUMINATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000005095039

1. REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-133, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000005095040

1. REPLACE POWER WINDOW SUB-SWITCH

Replace power window sub-switch.

>> Refer to PWC-133, "Removal and Installation".

AUTOMATIC WINDOW ADJUSTING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000005095041

1.CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PWC-125, "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-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000005095042

1.CHECK AUTO UP OPERATION

Check AUTO UP operation.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PWC-125, "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-36, "Intermittent Incident".
NO >> GO TO 1.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000005156685

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 that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see 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:0000000005156686

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:0000000005156687

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.

REMOVAL AND INSTALLATION

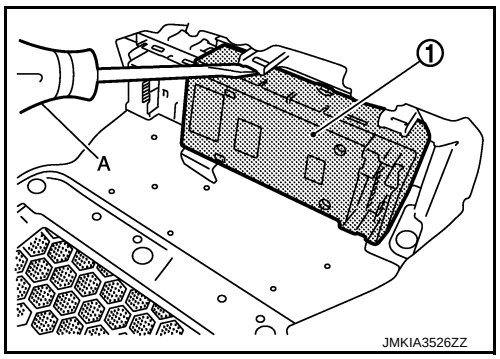
POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000005155452

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.



: Pawl

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-5, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".