

SECTION PWC

POWER WINDOW CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-COUCPE]

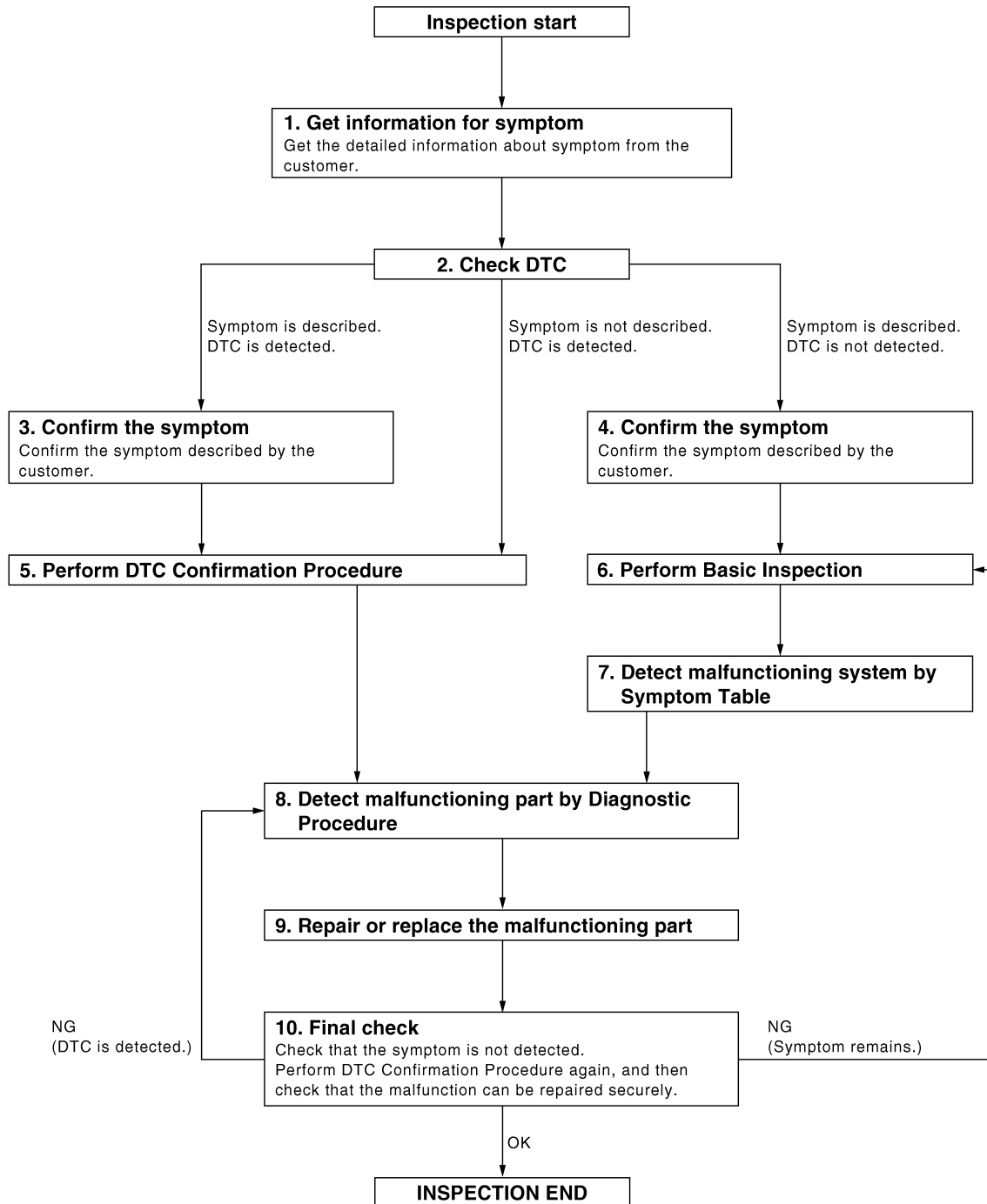
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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OVERALL SEQUENCE



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DETAILED FLOW

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-COUPE]

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2. CHECK DTC

1. Check DTC.
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>>GO TO 3

Symptom is described, DTC is not displayed>>GO TO 4

Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.

At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-70, "DTC Index"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check. If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 8

NO >> Refer to [GI-41, "Intermittent Incident"](#).

6. PERFORM BASIC INSPECTION

Perform [PWC-80, "Work Flow"](#).

Inspection End>>GO TO 7

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 8

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-COUPE]

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 9

NO >> Check voltage of related BCM terminals using CONSULT-III.

9. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

>> GO TO 10

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8

YES (Symptom remains)>>GO TO 6

NO >> Inspection End.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-COUPE]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000005434177

Initial setting is necessary when battery terminal is disconnected.

CAUTION:

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

- Auto-up operation
- Anti-pinch function
- Retained power operation

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000005434178

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds 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-35. "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. Retained power operation when ignition switch is OFF.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005434179

Initial setting is necessary when replacing main power window and door lock/unlock switch.

CAUTION:

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

- Auto-up operation
- Anti-pinch function
- Retained power operation

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000005434180

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more.

INSPECTION AND ADJUSTMENT

[LH ONLY ANTI-PINCH-COUPE]

< BASIC INSPECTION >

2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds without pinching piece of wood and stops.
 - Check that glass does not rise when operating the main power window and door lock/unlock 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-35, "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. Retained power operation when ignition switch is OFF.

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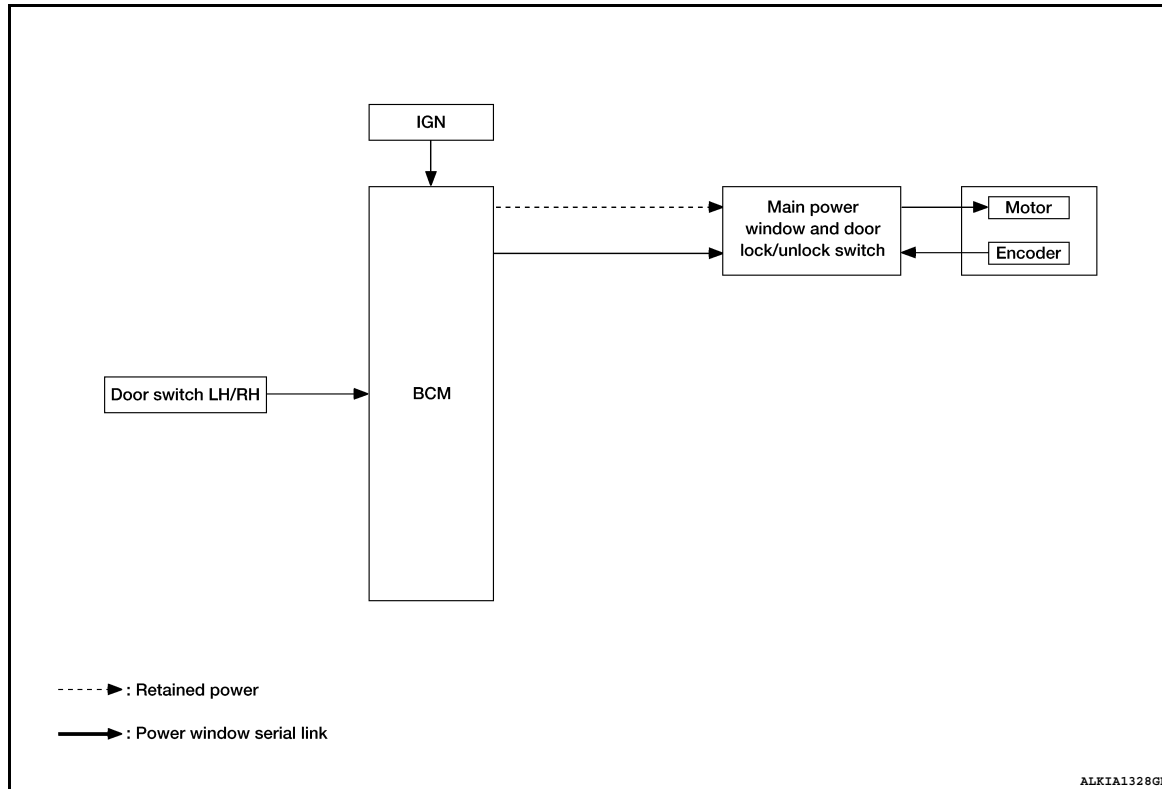
FUNCTION DIAGNOSIS

POWER WINDOW SYSTEM

System Diagram

INFOID:000000005434181

POWER WINDOW LH ANTI-PINCH SYSTEM



System Description

INFOID:000000005434182

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH INPUT/OUTPUT SIGNAL CHART

Item	Input signal to main power window and door lock/unlock switch	Main power window and door lock/unlock switch function	Actuator
Encoder	Encoder pulse signal	Power window control	Power window motor
Main power window and door lock/unlock switch	Power window motor LH UP/DOWN signal		
Power window and door lock/unlock switch RH	Power window motor RH UP/DOWN signal		
BCM	RAP signal		

POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Main power window and door lock/unlock switch can open/close all windows.
- Power window switches can open/close the corresponding windows.

POWER WINDOW AUTO-OPERATION (LH)

- AUTO UP/DOWN operation can be performed when main power window and door lock/unlock switch turns to AUTO.

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

- Encoder continues detecting the movement of power window motor and transmits to main power window and door lock/unlock switch as the encoder pulse signal while power window motor is operating. A
- Main power window and door lock/unlock switch reads the changes of encoder signal and stops AUTO operation when door glass is at fully opened/closed position.
- Power window motor is operable in case encoder is malfunctioning. B

RETAINED POWER OPERATION

- Retained power operation is an additional power supply function that enables power window system to operate during the 45 seconds even when ignition switch is turned OFF C

Retained power function cancel conditions

- Door CLOSE (door switch OFF)→OPEN (door switch ON).
- When ignition switch is ON. D
- When timer time passes (45 seconds).

POWER WINDOW LOCK

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

ANTI-PINCH OPERATION (LH)

- Pinch foreign material in the door glass during AUTO-UP operation, and it is the anti-pinch function that lowers the door glass 150 mm or 2 seconds when detected. F
- Encoder continues detecting the movement of power window motor and transmits to main power window and door lock/unlock switch as the encoder pulse signal while power window motor is operating. G
- 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. H
- 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 door glass AUTO-UP operation is performed (anti-pinch function does not operate just before the door glass closes and is fully closed) I

NOTE:

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

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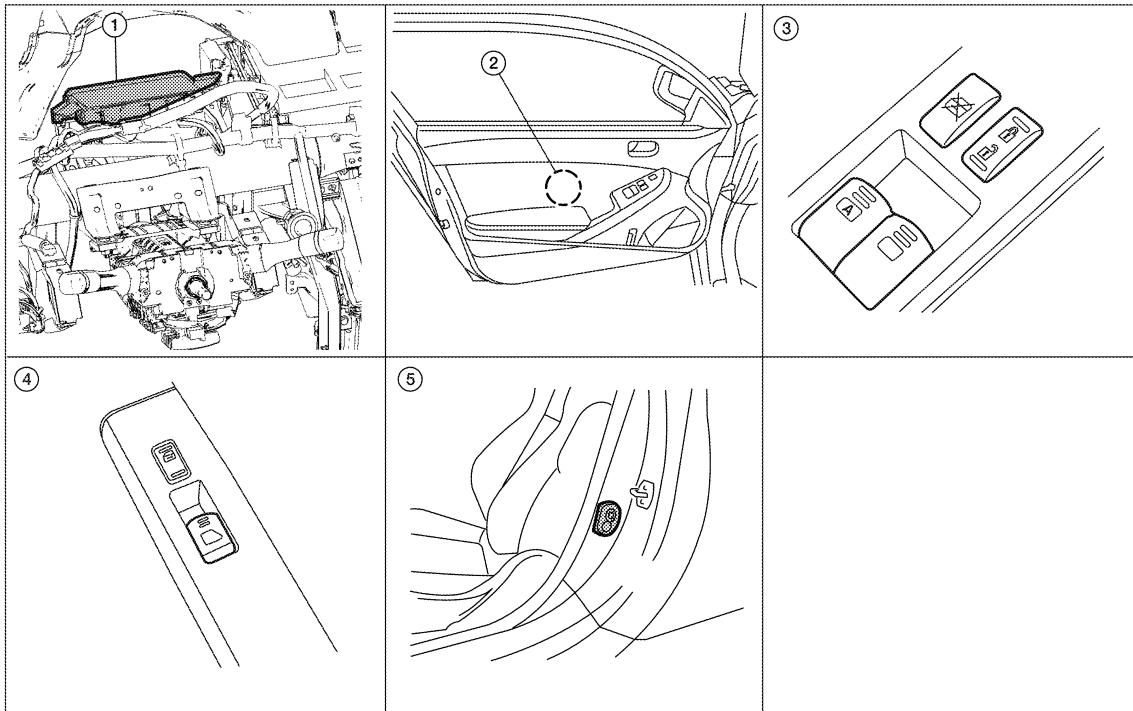
POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

Component Parts Location

INFOID:000000005434183



ALKIA1351ZZ

1. BCM M16, M17, M18 (view with instrument panel removed)
2. Power window motor LH D18, RH D111
3. Main power window and door lock/unlock switch D27
4. Power window and door lock/unlock switch RH D110
5. Door switch LH B68, RH B109

Component Description

INFOID:000000005434184

POWER WINDOW LH ANTI-PINCH SYSTEM

Component	Function
BCM	<ul style="list-style-type: none"> Supplies power to power window switches. Controls retained power.
Main power window and door lock/unlock switch	<ul style="list-style-type: none"> Directly controls all power window motor of all doors. Controls anti-pinch operation of power window LH.
Power window and door lock/unlock switch RH	<ul style="list-style-type: none"> Controls power window motor RH.
Power window motor LH	<ul style="list-style-type: none"> Integrates the ENCODER POWER and WINDOW MOTOR. Starts operating with signals from main power window and door lock/unlock switch. Transmits power window motor rotation as a pulse signal to main power window and door lock/unlock switch.
Power window motor RH	Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH.
Door switch LH or RH	Detects door open/close condition and transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : Diagnosis Description

INFOID:000000005783537

BCM CONSULT-III FUNCTION

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 MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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	×	×	×
Remote keyless entry system ¹	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system ²	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	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	AIR PRESSURE MONITOR	×	×	×

1 : With remote keyless entry system

2: With intelligent Key system

COMMON ITEM : CONSULT-III Function

INFOID:000000005783538

ECU IDENTIFICATION

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

Displays the BCM part No.

SELF-DIAG RESULT

Refer to [BCS-70, "DTC Index"](#).

RETAINED PWR

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

INFOID:000000005783539

Data monitor

Monitor Item [Unit]	Description
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH.
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUCPE]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000005434188

- BCM supplies power.
- It operates each power window motor via corresponding power window switch and makes window move up/down when main power window and door lock/unlock switch is operated.

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000005434189

Main Power Window And Door Lock/unlock Switch

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Does power window motor operate with main power window and door lock/unlock switch operation?

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch power supply and ground circuit are OK.
 NO >> Refer to [PWC-19, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000005434190

Regarding Wiring Diagram information, refer to [PWC-64, "Wiring Diagram"](#).

Main Power Window And Door Lock/unlock Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connectors and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Main power window and door lock/unlock switch connector	Terminal		
D27	9	Ground	Battery voltage
	13		

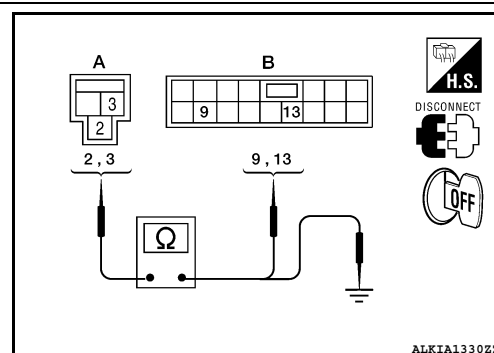
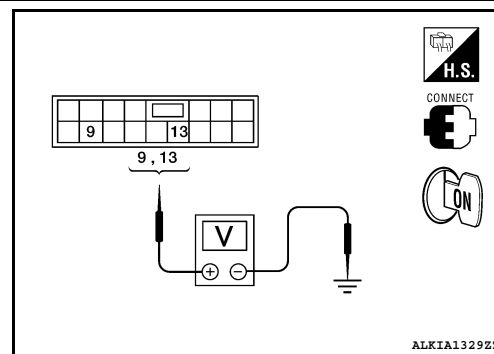
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and main power window and door lock/unlock switch.
3. Check continuity between BCM connector (A) and main power window and door lock/unlock switch connector (B).

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M16 (A)	3	D27 (B)	13	Yes
	2		9	



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POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	3		
	2		

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D27	10		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-78, "Removal and Installation"](#).

After that, refer to [PWC-21, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	Battery voltage
M16	3	
		2

Is the measurement value within the specification?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

5. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-20, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

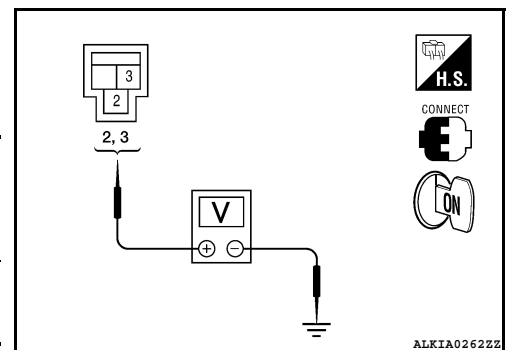
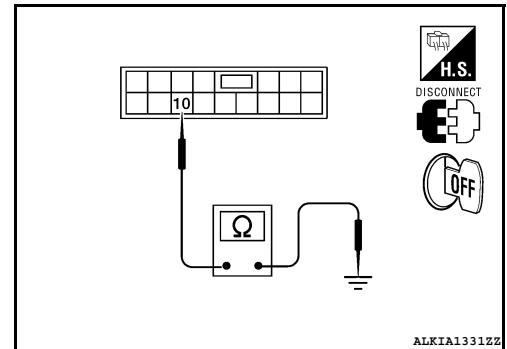
YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-78, "Removal and Installation"](#). After that, refer to [PWC-21, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

POWER WINDOW MAIN SWITCH : Component Inspection

INFOID:000000005434191

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH



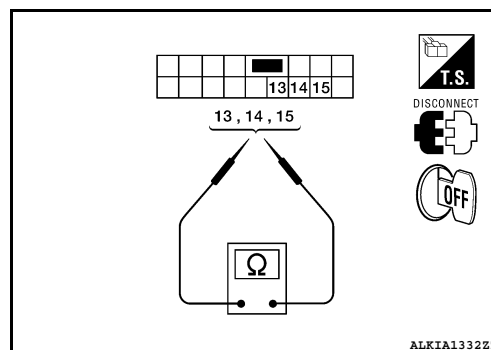
POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

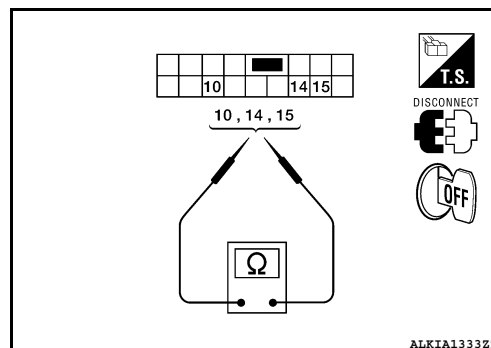
1. Check main power window and door lock/unlock switch.

Terminal		Main power window and door lock/unlock switch condition		Continuity
13	15	RH	UP	Yes
14	15	RH	NEUTRAL	
13	14	RH	DOWN	



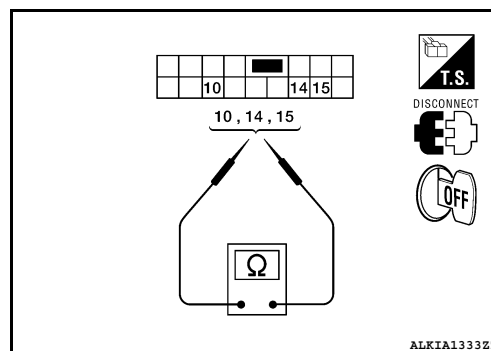
2. Check continuity between main power window and door lock/unlock switch (power window lock switch) (Lock operation).

Terminal		Main power window and door lock/unlock switch condition		Continuity
14	10	RH	UP	No
14		RH	NEUTRAL	
15		RH	DOWN	
15		RH	DOWN	



3. Check continuity between main power window and door lock/unlock switch (power window lock switch) (Unlock operation).

Terminal		Main power window and door lock/unlock switch condition		Continuity
14	10	RH	UP	Yes
14		RH	NEUTRAL	
15		RH	DOWN	
15		RH	DOWN	



Is the inspection result normal?

YES >> Main power window and door lock/unlock switch is OK.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-78. "Removal and Installation"](#). After that, refer to [PWC-12. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

POWER WINDOW MAIN SWITCH : Special Repair Requirement

INFOID:000000005434192

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-12. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-12. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Refer to [PWC-28. "DRIVER SIDE : Component Function Check"](#).

POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005434193

- BCM supplies power.
- Power window motor RH will be operated if power window and door lock/unlock switch RH is operated.

PASSENGER SIDE : Component Function Check

INFOID:000000005434194

Power Window And Door Lock/unlock Switch RH

1. CHECK POWER WINDOW MOTOR RH FUNCTION

Does power window motor RH operate with power window and door lock/unlock switch RH operation?

Is the inspection result normal?

- YES >> Power window and door lock/unlock switch RH power supply and ground circuit are OK.
 NO >> Refer to [PWC-22, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

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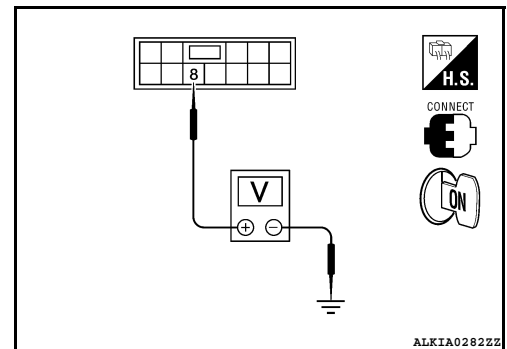
Regarding Wiring Diagram information, refer to [PWC-64, "Wiring Diagram"](#).

Power Window And Door Lock/Unlock Switch RH Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT (POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH)

1. Turn ignition switch ON.
2. Check voltage between power window and door lock/unlock switch RH connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Power window and door lock/unlock switch RH connector	Terminal		
D110	8	Ground	Battery voltage



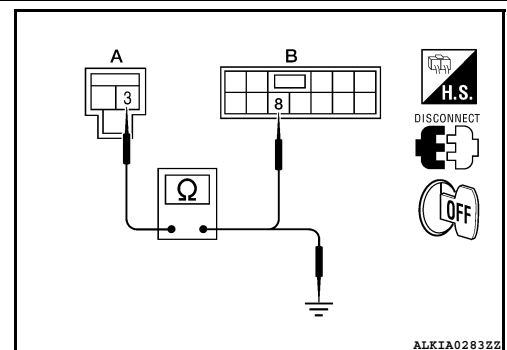
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and power window and door lock/unlock switch RH.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M16 (A)	3	D110 (B)	8	Yes



4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	3		No

Is the inspection result normal?

POWER SUPPLY AND GROUND CIRCUIT

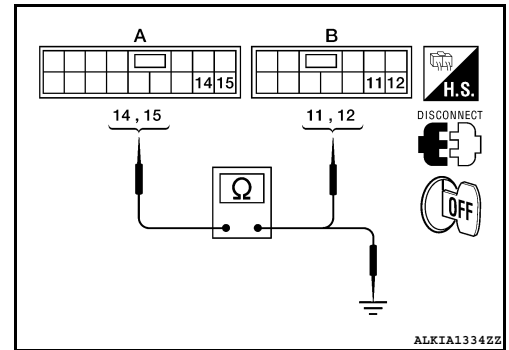
[LH ONLY ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

- YES >> Refer to [PWC-19. "POWER WINDOW MAIN SWITCH : Component Function Check"](#).
 NO >> Repair or replace harness.

3. CHECK HARNESS CONTINUITY (POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH)

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window and door lock/unlock switch RH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and power window and door lock/unlock switch RH connector (B).



Main power window and door lock/unlock switch connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
D27 (A)	15	D110 (B)	11	Yes
	14		12	

4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D27 (A)	14	Ground	No
	15		

Is the inspection result normal?

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

4. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.
 Refer to [PWC-23. "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79. "Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

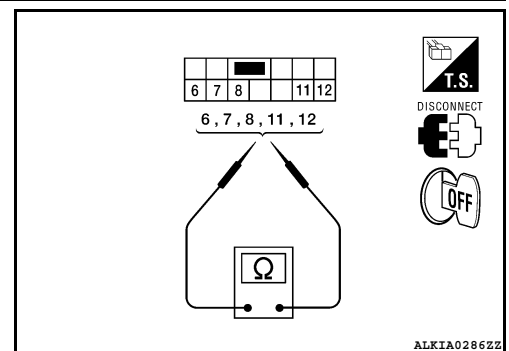
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COMPONENT INSPECTION

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Terminal	Power window switch condition	Continuity
8 6	UP	Yes
12 7		
12 7	NEUTRAL	
6 11		
8 7	DOWN	
6 11		



Is the inspection result normal?

- YES >> Power window and door lock/unlock switch RH is OK.
 NO >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79. "Removal and Installation"](#).

POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434197

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

DRIVER SIDE : Component Function Check

INFOID:000000005434198

1. CHECK POWER WINDOW MOTOR LH CIRCUIT

Does power window motor LH operate with the main power window and door lock/unlock switch?

Is the inspection result normal?

- YES >> Power window motor LH is OK.
NO >> Refer to [PWC-24. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

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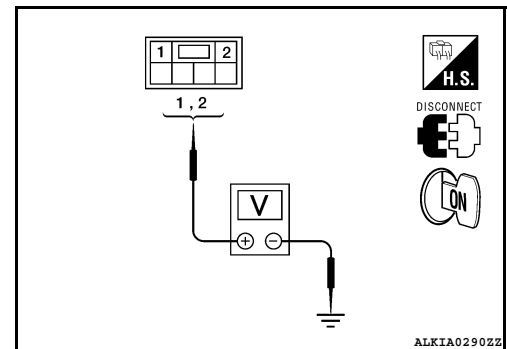
Regarding Wiring Diagram information, refer to [PWC-64. "Wiring Diagram"](#).

Power Window Motor LH Circuit Check

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

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

Terminal (+)		Terminal (-)	Main power window and door lock/unlock switch condition	Voltage (V) (Approx.)
Power window motor LH connector	Terminal			
D18	2	Ground	UP	Battery voltage
			DOWN	0
	1		UP	0
			DOWN	Battery voltage



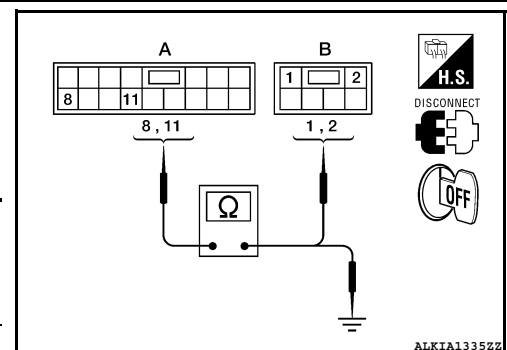
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D27 (A)	8	D18 (B)	2	Yes
	11		1	



POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal		Ground	Continuity
	8	11		
D27 (A)	8	11		No

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-78, "Removal and Installation"](#). After that, refer to [PWC-12, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR LH

Check power window motor LH.

Refer to [PWC-182, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-12, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

DRIVER SIDE : Component Inspection

INFOID:000000005434200

COMPONENT INSPECTION

1. CHECK POWER WINDOW MOTOR LH

Does motor operate by connecting the battery voltage directly to power window motor?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

YES >> Power window motor LH is OK.

NO >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-12, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000005434201

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-12, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-12, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

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POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

NO >> Refer to [PWC-28. "DRIVER SIDE : Component Function Check"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005434202

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or power window and door lock/unlock switch RH.

PASSENGER SIDE : Component Function Check

INFOID:000000005434203

1. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Does power window motor RH operate with main power window and door lock/unlock switch or power window and door lock/unlock switch?

Is the inspection result normal?

YES >> Power window motor RH is OK.

NO >> Refer to [PWC-26. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

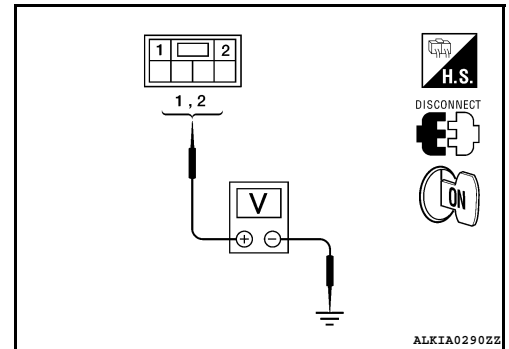
INFOID:000000005434204

Regarding Wiring Diagram information, refer to [PWC-64. "Wiring Diagram"](#).

Power Window Motor RH Circuit Check

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OUTPUT SIGNAL

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



Terminal (+)		Terminal (-)	Power window motor RH condition	Voltage (V) (Approx.)
Power window motor RH connector	Terminal			
D111	1	Ground	UP	Battery voltage
			DOWN	0
	2		UP	0
			DOWN	Battery voltage

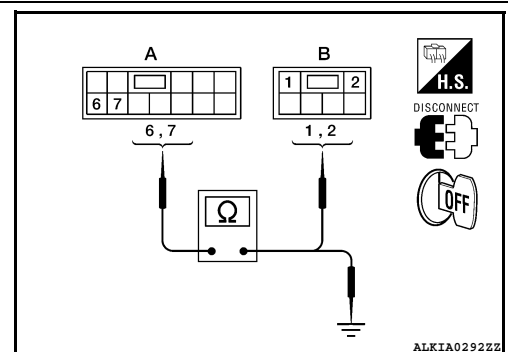
Is the measurement value within the specification?

YES >> GO TO 3

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector (A) and power window motor RH connector (B).



Power window and door lock/unlock switch RH connector	Terminal	Power window motor RH connector	Terminal	Continuity
D110 (A)	6	D111 (B)	1	Yes
	7		2	

POWER WINDOW MOTOR

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

4. Check continuity between power window and door lock/unlock switch connector (A) and ground.

Power window and door lock/ unlock switch RH connector	Terminal		Ground	Continuity
	D110 (A)	6		
7				

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR RH

Check power window motor RH.

Refer to [PWC-27, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace power window motor RH. Refer to [GW-19, "Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000005434205

COMPONENT INSPECTION

COMPONENT INSPECTION

1. CHECK POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to power window motor RH?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

YES >> Power window motor is OK.

NO >> Replace power window motor RH. Refer to [GW-19, "Removal and Installation"](#).

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ENCODER DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434206

Detects condition of the power window motor LH operation and transmits to main power window and door lock/unlock switch as pulse signal.

DRIVER SIDE : Component Function Check

INFOID:000000005434207

1. CHECK ENCODER OPERATION

Does door glass LH perform AUTO open/close operation normally with main power window and door lock/unlock switch?

Is the inspection result normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434208

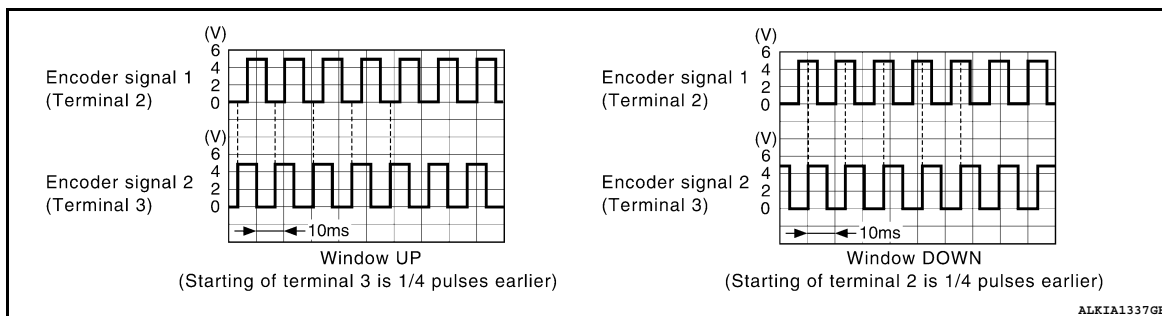
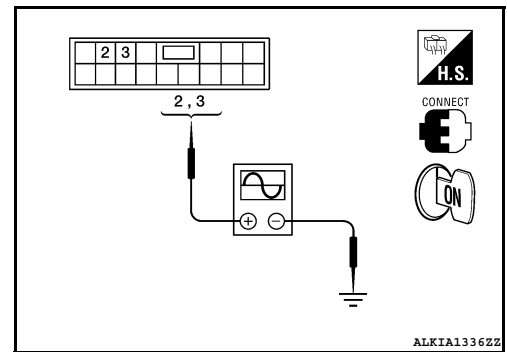
Regarding Wiring Diagram information, refer to [PWC-64, "Wiring Diagram"](#).

Encoder Circuit Check

1. CHECK ENCODER OPERATION

1. Connect power window motor LH.
2. Turn ignition switch ON.
3. Check signal between main power window and door lock/unlock switch connector and ground with oscilloscope.

Terminals		(-)	Signal (Reference value)
(+)			
Main power window and door lock/unlock switch connector	Terminal		
D27	2	Ground	Refer to following signal
	3		



Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
- NO >> GO TO 2

2. CHECK POWER WINDOW MOTOR LH POWER SUPPLY

ENCODER

[LH ONLY ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch ON.
2. Check voltage between power window motor LH connector and ground.

Terminal		(-)	Voltage (V) (Approx.)
(+)	Terminal		
Power window motor LH connector	Terminal		
D18	4	Ground	10

Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D27 (A)	4	D18 (B)	4	Yes

4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D27 (A)	4		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-78. "Removal and Installation"](#). After that, refer to [PWC-30. "DRIVER SIDE : Special Repair Requirement"](#).
NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

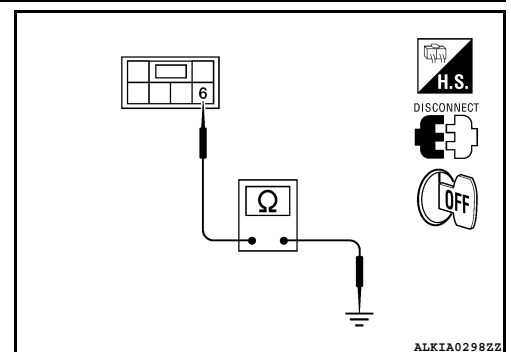
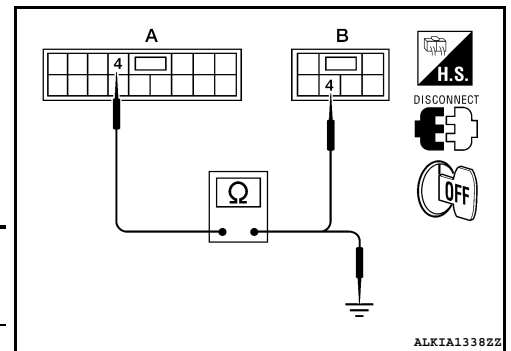
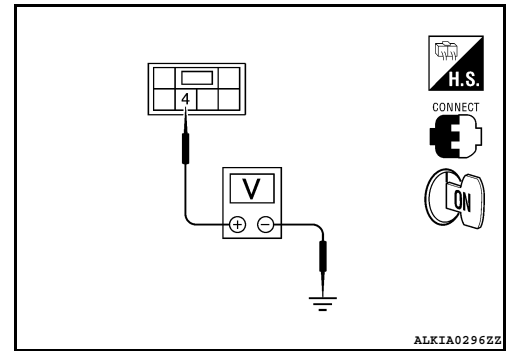
1. Turn ignition switch OFF.
2. Disconnect power window motor LH.
3. Check continuity between power window motor LH connector and ground.

Power window motor LH connector	Terminal	Ground	Continuity
D18	6		Yes

Is the inspection result normal?

- YES >> GO TO 6
NO >> GO TO 5

5. CHECK HARNESS CONTINUITY 2



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ENCODER

[LH ONLY ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D27 (A)	7	D18 (B)	6	Yes

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-78, "Removal and Installation"](#). After that, refer to [PWC-30, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D27 (A)	3	D18 (B)	3	Yes
	2		5	

3. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D27 (A)	2	Ground	No
	3		

Is the inspection result normal?

YES >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-25, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

DRIVER SIDE : Special Repair Requirement

INFOID:000000005434209

1. PERFORM INITIALIZATION PROCEDURE

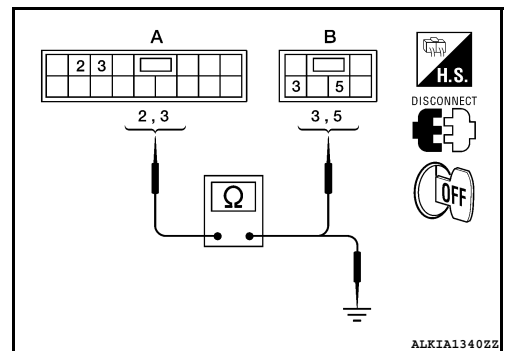
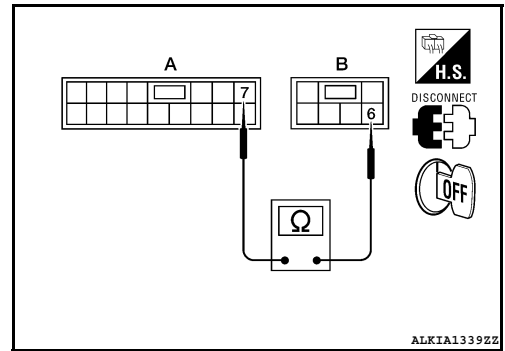
Perform initialization procedure.

Refer to [PWC-12, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).



DOOR SWITCH

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

DOOR SWITCH

Description

INFOID:000000005434210

Detects door open/close condition and transmits the signal to BCM.

Component Function Check

INFOID:000000005434211

1. CHECK DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-III. Refer to [BCS-34. "RETAINED PWR : CONSULT-III Function \(BCM - RETAINED PWR\)"](#).

Monitor item	Condition
DOOR SW-DR	OPEN : ON
	CLOSE : OFF
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

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

Diagnosis Procedure

INFOID:000000005434212

Regarding Wiring Diagram information, refer to [PWC-64. "Wiring Diagram"](#).

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M18	32	RH OPEN	0
		RH CLOSE	Battery voltage
	58	LH OPEN	0
		LH CLOSE	Battery voltage

Is the measurement value within the specification?

- YES >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).
- NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and door switch.
3. Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M18	32	RH: B109	2	Yes
	58	LH: B68		

4. Check continuity between BCM connector and ground.

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

BCM connector	Terminal	Ground	Continuity
M18	32		Ground
	58		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

Terminal		(-)	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	Ground	Battery voltage
M18	32		
	58		

Is the measurement value within the specification?

- YES >> GO TO 4
 NO >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).

4. CHECK DOOR SWITCH

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace door switch.

Component Inspection

INFOID:000000005434213

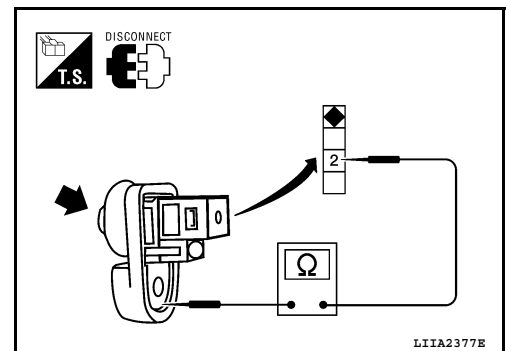
1. CHECK DOOR SWITCH

Check front door switches.

Terminal		Door switch	Continuity
Door switches			
2	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace door switch.



POWER WINDOW LOCK SWITCH

[LH ONLY ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

POWER WINDOW LOCK SWITCH

Description

INFOID:000000005434214

Ground circuit of main power window and door lock/unlock switch shuts off if power window lock switch of main power window and door lock/unlock switch is operated. This inhibits all operation, except for the main switch.

Component Function Check

INFOID:000000005434215

1. CHECK POWER WINDOW LOCK SIGNAL

Exchanges for a normal main power window and door lock/unlock switch, and operation is checked.

Does power window lock operate?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-78. "Removal and Installation"](#). After that, [PWC-12. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

NO >> Check condition of harness and connector.

Special Repair Requirement

INFOID:000000005434216

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-12. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

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POWER WINDOW MAIN SWITCH

[LH ONLY ANTI-PINCH-COUPÉ]

< ECU DIAGNOSIS >

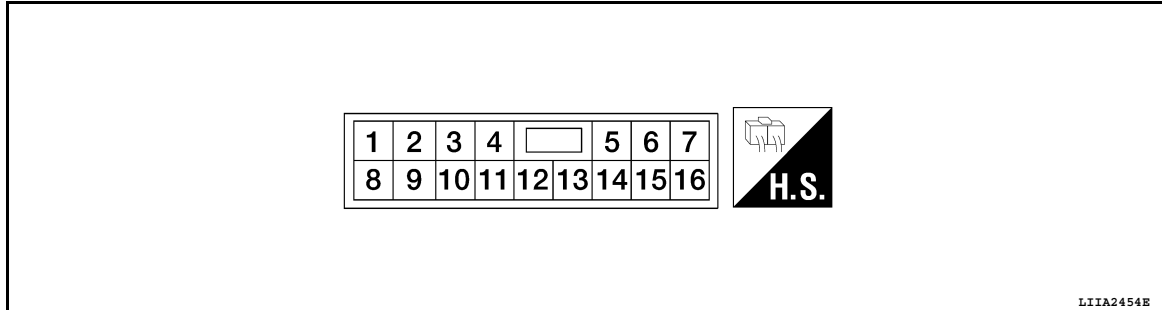
ECU DIAGNOSIS

POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000005434217

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
2 (SB)	7	Encoder pulse signal 1	Input	When power window motor operates.	<p>JMKIA0070GB</p>
3 (W)	7	Encoder pulse signal 2	Input	When power window motor operates.	<p>JMKIA0070GB</p>
4 (GR)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	10
7 (G)	Ground	Encoder ground	—	—	0
8 (R)	11	Power window motor LH UP signal	Output	When LH switch in power window main switch is operated UP.	Battery voltage
9 (W)	Ground	Battery power supply	Input	—	Battery voltage
10 (B)	Ground	Ground	—	—	0

POWER WINDOW MAIN SWITCH

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
11 (LG)	8	Power window motor LH DOWN signal	Output	When LH switch in power window main switch is operated DOWN.	Battery voltage
13 (V)	Ground	RAP signal	Input	IGN SW ON	Battery voltage
				Within 45 second after ig- nition switch is turned to OFF.	Battery voltage
				When driver side or pas- senger side door is opened during retained power op- eration.	0
14 (BR)	15	Power window motor RH UP signal	Output	When RH switch in power window main switch is operated UP.	Battery voltage
15 (L)	14	Power window motor RH DOWN signal	Output	When RH switch in power window main switch is operated DOWN.	Battery voltage

Fail Safe

INFOID:000000005434219

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 mal- function	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 up- dated 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
- Retained power function

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.

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005783545

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
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	Rear door RH closed	OFF
	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
	Rear door LH opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
	Power door lock switch LOCK	ON

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

Monitor Item	Condition	Value/Status	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF	A
	Power door lock switch UNLOCK	ON	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF	B
	Driver door key cylinder LOCK position	ON	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF	C
	Driver door key cylinder UNLOCK position	ON	
HAZARD SW	When hazard switch is not pressed	OFF	D
	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF	E
	Trunk lid opener cancel switch ON	ON	
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF	F
	While the trunk lid opener switch is turned ON	ON	
TRNK/HAT MNTR	Trunk lid closed	OFF	G
	Trunk lid opened	ON	
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF	H
	When LOCK button of Intelligent Key is pressed	ON	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF	I
	When UNLOCK button of Intelligent Key is pressed	ON	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	J
	When TRUNK OPEN button of Intelligent Key is pressed	ON	
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF	
	When PANIC button of Intelligent Key is pressed	ON	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
	When UNLOCK button of Intelligent Key is pressed and held	ON	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	PWC
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V	L
	When outside of the vehicle is dark	Close to 0 V	
REQ SW-DR	When driver door request switch is not pressed	OFF	M
	When driver door request switch is pressed	ON	
REQ SW-AS	When passenger door request switch is not pressed	OFF	N
	When passenger door request switch is pressed	ON	
REQ SW-BD/TR	When trunk request switch is not pressed	OFF	O
	When trunk request switch is pressed	ON	
PUSH SW	When engine switch (push switch) is not pressed	OFF	P
	When engine switch (push switch) is pressed	ON	
IGN RLY2-F/B	Ignition switch OFF or ACC	OFF	
	Ignition switch ON	ON	
ACC RLY-F/B	Ignition switch OFF	OFF	
	Ignition switch ACC or ON	ON	
CLUTCH SW	When the clutch pedal is not depressed	OFF	
	When the clutch pedal is depressed	ON	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPÉ]

Monitor Item	Condition	Value/Status
BRAKE SW 1	When the brake pedal is not depressed	ON
	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN/N SW	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
UNLK SEN-DR	Driver door UNLOCK status	OFF
	Driver door LOCK status	ON
PUSH SW-IPDM	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
DETE SW -IPDM	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
SFT P-MET	When selector lever is in any position other than P	OFF
	When selector lever is in P position	ON
SFT N-MET	When selector lever is in any position other than N	OFF
	When selector lever is in N position	ON
ENGINE STATE	Engine stopped	STOP
	While the engine stalls	STALL
	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
DOOR STAT-AS	Passenger door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK FLAG	Ignition switch ACC or ON	RESET
	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

Monitor Item	Condition	Value/Status	
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET	A
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE	B
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET	C
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE	
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET	D
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE	
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET	E
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE	F
TP 4	The ID of fourth key is not registered to BCM	YET	
	The ID of fourth key is registered to BCM	DONE	G
TP 3	The ID of third key is not registered to BCM	YET	
	The ID of third key is registered to BCM	DONE	H
TP 2	The ID of second key is not registered to BCM	YET	
	The ID of second key is registered to BCM	DONE	I
TP 1	The ID of first key is not registered to BCM	YET	
	The ID of first key is registered to BCM	DONE	J
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	PWC
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire	
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE	L
	When ID of front LH tire transmitter is not registered	YET	
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE	M
	When ID of front RH tire transmitter is not registered	YET	
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE	N
	When ID of rear RH tire transmitter is not registered	YET	
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE	O
	When 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	P
	Tire pressure warning alarm is sounding	ON	

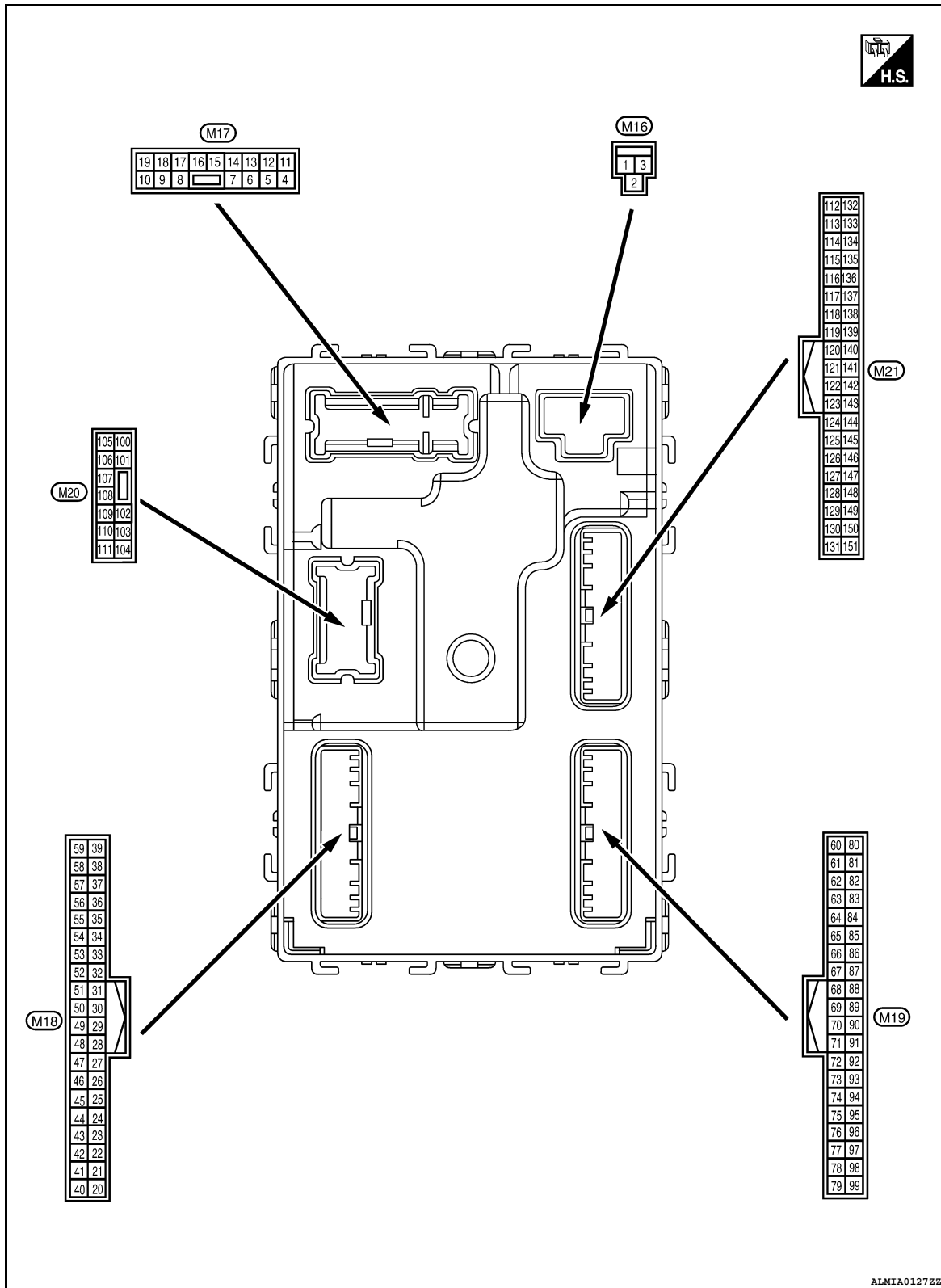
BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal Layout

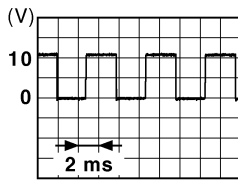
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

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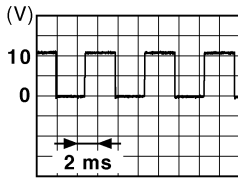
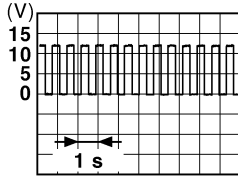
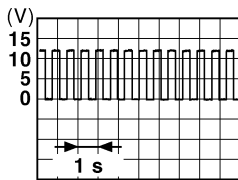
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	Battery voltage
4 (P/W)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
5 (G/Y)	Ground	Front door RH UNLOCK	Output	Front door RH UNLOCK (actuator is activated)	Battery voltage
				Other than UNLOCK (actuator is not activated)	0V
7 (R/W)	Ground	Step lamp	Output	Step lamp ON	0V
				OFF	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors LOCK (actuator is activated)	Battery voltage
				Other than LOCK (actuator is not activated)	0V
9 (G)	Ground	Front door LH UNLOCK	Output	Front door LH UNLOCK (actuator is activated)	Battery voltage
				Other than UNLOCK (actuator is not activated)	0V
10 ¹ (G/Y)	Ground	Rear door RH and rear door LH UNLOCK	Output	Rear door RH and rear door LH UNLOCK (actuator is activated)	Battery voltage
				Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON	0V
14 ⁶ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp OFF	0V
				ON	NOTE: When the illumination brightening/dimming level is in the neutral position 

JSNIA0010GB

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

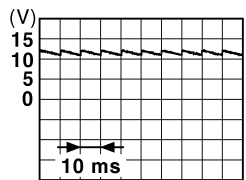
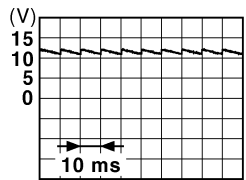
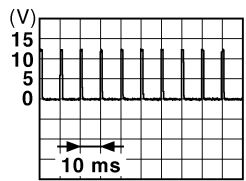
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	0V
					ON	NOTE: When the illumination brightening/dimming level is in the neutral position  <small>JSNIA0010GB</small>
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
					ACC or ON	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF	0V
					Turn signal switch RH	 <small>PKID0926E</small>
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF	0V
					Turn signal switch LH	 <small>PKID0926E</small>
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehicle is bright	Close to 5V
					When outside of the vehicle is dark	Close to 0V
22 (R/Y)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (clutch pedal is not depressed)	0V
					ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input	—	Battery voltage	
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
					ON (brake pedal is depressed)	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
				When Intelligent Key is not inserted into key slot		0V
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF	0
					ACC or ON	Battery voltage
31 (G)	Ground	Rear window defogger feedback signal	Input	Rear window defogger switch	OFF	0V
					ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					ON (when front door RH opens)	0V
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF	9.0 - 12.0V
					ON	0V
34 ² (L/R)	Ground	Front door lock assembly LH (key cylinder switch) (unlock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (unlock)	0V
36 ² (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock	Battery voltage
					Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p>
					ON	0V
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	OFF	5V
					ON	0V
39 ² (GR/R)	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery voltage
					Lock	0V

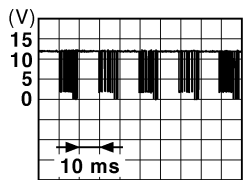
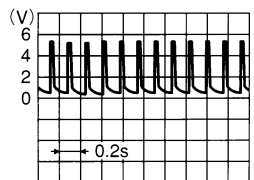
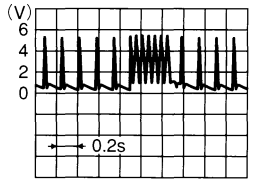
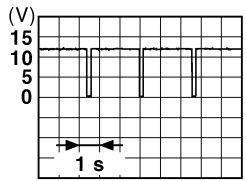
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BCM (BODY CONTROL MODULE)

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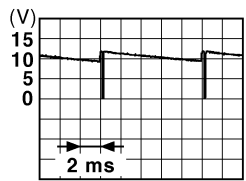
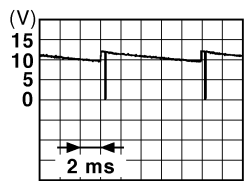
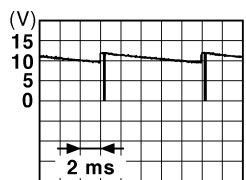
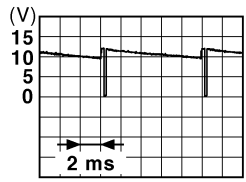
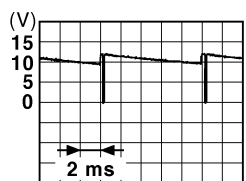
[LH ONLY ANTI-PINCH-COUPE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		 10.2V <small>JPMIA0013GB</small>
				Ignition switch OFF or ACC		0V
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination	ON	5.5V
					OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0V
					OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF	0V
					ACC or ON	5.0V
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state	 <small>OCC3881D</small>
					When receiving the signal from the transmitter	 <small>OCC3880D</small>
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position	12.0V
					Except P and N positions	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON	0V
					Blinking	 11.3V <small>JPMIA0014GB</small>
					OFF	Battery voltage

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0V
				Lighting switch 1ST	
				Lighting switch high-beam	
				Lighting switch 2ND	
				Turn signal switch RH	10.7V
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	All switch OFF (Wiper intermittent dial 4)	0V
				Front wiper switch HI (Wiper intermittent dial 4)	
				Any of the conditions below with all switch OFF	
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	All switch OFF (Wiper intermittent dial 4)	0V
				Front washer switch ON (Wiper intermittent dial 4)	
				Any of the conditions below with all switch OFF	
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	All switch OFF	0V
				Front wiper switch INT	
				Front wiper switch LO	
				Lighting switch AUTO	
				10.7V	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	All switch OFF	0V
				Front fog lamp switch ON	
				Lighting switch 2ND	
				Lighting switch flash-to-pass	
				Turn signal switch LH	10.7V
55 (BR/ W)	Ground	Front blower monitor	Input	ON	Battery voltage
				OFF	0V

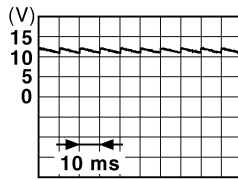
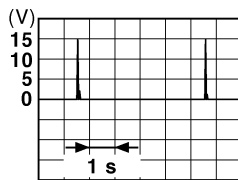
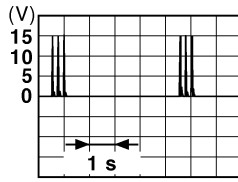
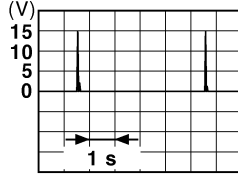
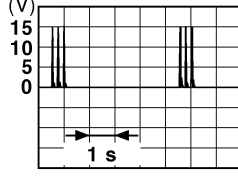
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
56 ² (L/B)	Ground	Front door lock assembly LH (key cylinder switch) (lock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (lock)	0V
57 (W)	Ground	Tire pressure warning check switch	Input	—	—	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
					ON (front door LH OPEN)	0V
59 (G/R)	Ground	Rear window defogger relay	Output	Rear window defogger	Active	Battery voltage
					Not activated	0V
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
62 ⁴ (B/Y)	Ground	Front outside handle RH antenna (-)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	
				When Intelligent Key is in the antenna detection area	
63 ⁴ (LG)	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	
				When Intelligent Key is in the antenna detection area	
64 ⁴ (V)	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	
				When Intelligent Key is in the antenna detection area	

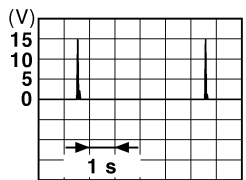
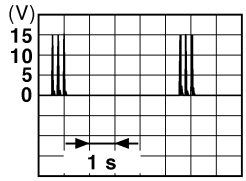
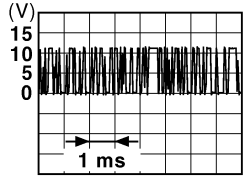
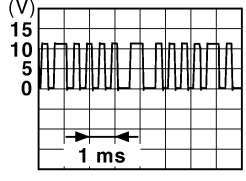
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

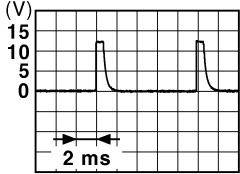


< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
65 ⁴ (P)	Ground	Front outside handle LH antenna (+)	Output	When the front door LH request switch is operat- ed with ignition switch OFF		
				When Intelligent Key is not in the antenna detection area		
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		
				When operating either button on Intelligent Key		

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
				Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
				Combination switch	Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>

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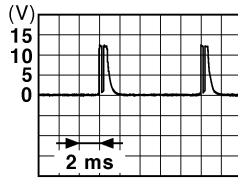
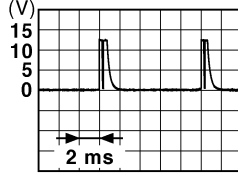
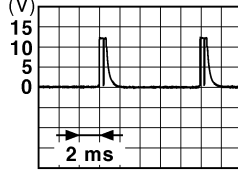
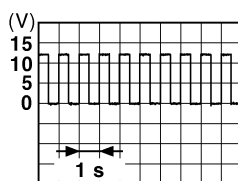
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

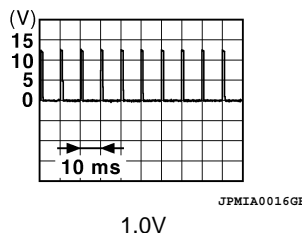
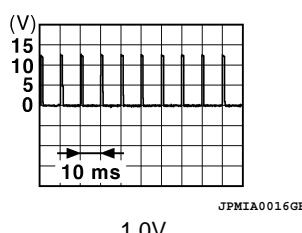
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
76 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <small>JPMIA0041GB</small> 1.4V
					Lighting switch high-beam (Wiper intermittent dial 4)	 <small>JPMIA0036GB</small> 1.3V
					Lighting switch 2ND (Wiper intermittent dial 4)	 <small>JPMIA0037GB</small> 1.3V
					Any of the conditions below with all switch OFF	 <small>JPMIA0040GB</small> 1.3V
78 (P)	Ground	CAN-L	Input/ Output	—	—	
79 (L)	Ground	CAN-H	Input/ Output	—	—	
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	0V
					Blinking	 <small>JPMIA0015GB</small> 6.5V
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0V
					ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output	—		Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 ⁴ (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
89 ⁴ (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
90 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

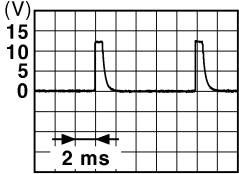


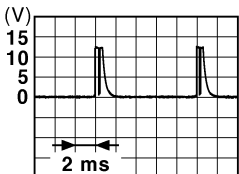
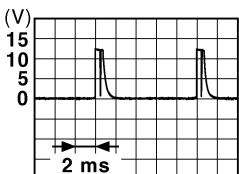
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

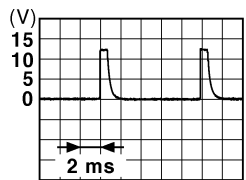
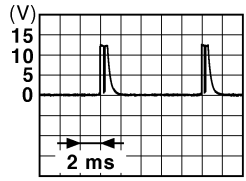
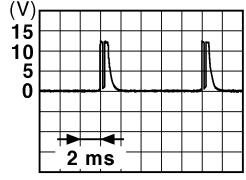
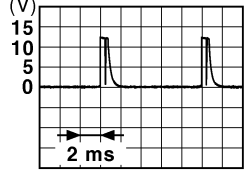
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
95 (R/W)	Ground	Combination switch INPUT 1	Input	All switch OFF	 <p style="text-align: right; margin-right: 20px;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
				Turn signal switch LH	 <p style="text-align: right; margin-right: 20px;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
				Turn signal switch RH	 <p style="text-align: right; margin-right: 20px;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
				Front wiper switch LO	 <p style="text-align: right; margin-right: 20px;">JPMIA0038GB</p> <p style="text-align: center;">1.3V</p>
				Front washer switch ON	 <p style="text-align: right; margin-right: 20px;">JPMIA0039GB</p> <p style="text-align: center;">1.3V</p>

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)  <p style="text-align: right;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
					Lighting switch AUTO (Wiper intermittent dial 4)  <p style="text-align: right;">JPMIA0038GB</p> <p style="text-align: center;">1.3V</p>
					Lighting switch 1ST (Wiper intermittent dial 4)  <p style="text-align: right;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
					Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6  <p style="text-align: right;">JPMIA0039GB</p> <p style="text-align: center;">1.3V</p>


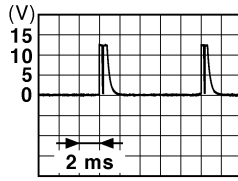
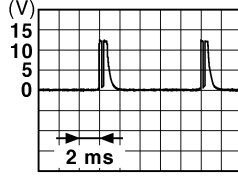
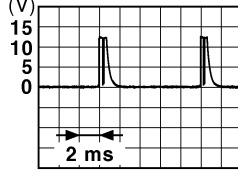
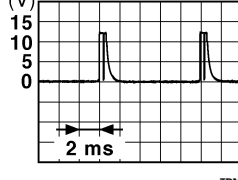
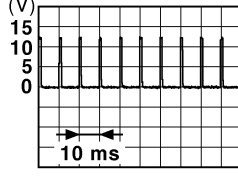
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	 <small>JPMIA0041GB</small> 1.4V
					Lighting switch flash-to-pass	 <small>JPMIA0037GB</small> 1.3V
					Lighting switch 2ND	 <small>JPMIA0036GB</small> 1.3V
					Front wiper switch INT	 <small>JPMIA0038GB</small> 1.3V
					Front wiper switch HI	 <small>JPMIA0040GB</small> 1.3V
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <small>JPMIA0012GB</small> 1.1V

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
103 (V)	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
					Close (trunk lid opener actuator is not activated)	0V
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
					OFF	Battery voltage
114 (B)	Ground	Rear parcel shelf antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	
115 (W)	Ground	Rear parcel shelf antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	

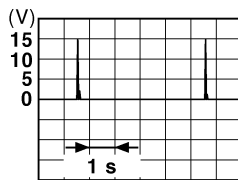
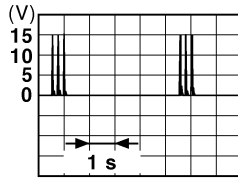
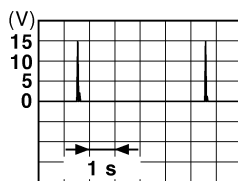
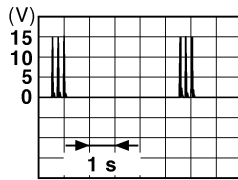
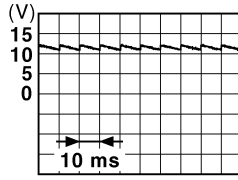
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

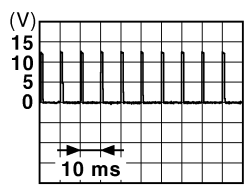
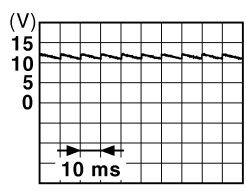
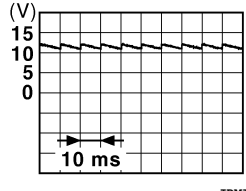
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
118 ⁴ (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
119 ⁴ (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
127 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch OFF or ACC	Battery voltage
				Ignition switch ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch OFF (trunk is closed)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
				Trunk room lamp switch ON (trunk is open)	0V

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
132 (R)	Ground	Starter motor relay control	Output	Ignition switch OFF (M/T vehicle)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0V
				Ignition switch ON (other than M/T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0V
140 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
					Not pressed	Battery voltage
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: right; margin-right: 50px;">1.0V</p>
144 ⁴ (GR)	Ground	Intelligent Key warning buzzer	Output	Request switch buzzer	Sounding	0V
					Not sounding	Battery voltage
144 ⁵ (GR)	Ground	Outside warning buzzer	Output	Outside warning buzzer	Sounding	0V
					Not sounding	Battery voltage
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0V
					Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	 <p style="text-align: right; margin-right: 50px;">11.8V</p>
					ON (when rear door RH opens)	0V
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	 <p style="text-align: right; margin-right: 50px;">11.8V</p>
					ON (when rear door LH opens)	0V

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1: Sedan

2: With LH front window anti-pinch

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

3: With LH and RH front window anti-pinch

4: With Intelligent Key

5: Without Intelligent Key

6: Coupe

Fail Safe

INFOID:000000005783548

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)

DTC Inspection Priority Chart

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

Priority	DTC
1	<ul style="list-style-type: none"> • B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

Priority	DTC	
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING 	A B
4	<ul style="list-style-type: none"> • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2608: STARTER RELAY • B260A: IGNITION RELAY • B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RECIV • B26E8: CLUTCH SW • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG 	C D E F G H I
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • 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 	J PWC L M N O
6	<ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA 	P

DTC Index

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NOTE:

Details of time display

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	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 CIRCUIT	—	—	—	BCS-38, "Description"
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-39, "DTC Logic"
U0415: VEHICLE SPEED SIG	—	—	—	BCS-40, "Description"
B2190: NATS ANTENNA AMP	×	—	—	SEC-53, "Description" (Coupe) SEC-229, "Description" (Sedan with I-Key) SEC-399, "Description" (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	—	—	SEC-56, "Description" (Coupe) SEC-232, "Description" (Sedan with I-Key) SEC-402, "Description" (Sedan without I-Key)
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-57, "Description" (Coupe) SEC-233, "Description" (Sedan with I-Key) SEC-403, "Description" (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-58, "Description" (Coupe) SEC-234, "Description" (Sedan with I-Key) SEC-404, "Description" (Sedan without I-Key)
B2195: ANTI SCANNING	×	—	—	SEC-59, "Description" (Coupe) SEC-235, "Description" (Sedan with I-Key) SEC-405, "Description" (Sedan without I-Key)
B2553: IGNITION RELAY	—	—	—	PCS-61, "Description"
B2555: STOP LAMP	—	—	—	SEC-60, "Description" (Coupe) SEC-236, "Description" (Sedan with I-Key) SEC-406, "Description" (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	—	×	—	SEC-63, "Description" (Coupe) SEC-239, "Description" (Sedan with I-Key) SEC-409, "Description" (Sedan without I-Key)
B2557: VEHICLE SPEED	—	×	—	SEC-65, "Description" (Coupe) SEC-241, "Description" (Sedan with I-Key) SEC-411, "Description" (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2560: STARTER CONT RELAY	×	×	—	SEC-66, "Description" (Coupe) SEC-242, "Description" (Sedan with I-Key) SEC-412, "Description" (Sedan without I-Key)
B2562: LOW VOLTAGE	×	—	—	BCS-41, "DTC Logic"
B2601: SHIFT POSITION	—	×	—	SEC-67, "Description" (Coupe) SEC-243, "Description" (Sedan with I-Key) SEC-413, "Description" (Sedan without I-Key)
B2602: SHIFT POSITION	—	×	—	SEC-71, "Description" (Coupe) SEC-246, "Description" (Sedan with I-Key) SEC-416, "Description" (Sedan without I-Key)
B2603: SHIFT POSI STATUS	—	×	—	SEC-74, "Description" (Coupe) SEC-249, "Description" (Sedan with I-Key) SEC-419, "Description" (Sedan without I-Key)
B2604: PNP SW	—	×	—	SEC-77, "Description" (Coupe) SEC-252, "Description" (Sedan with I-Key) SEC-422, "Description" (Sedan without I-Key)
B2605: PNP SW	—	×	—	SEC-79, "Description" (Coupe) SEC-254, "Description" (Sedan with I-Key) SEC-424, "Description" (Sedan without I-Key)
B2608: STARTER RELAY	×	×	—	SEC-81, "Description" (Coupe) SEC-256, "Description" (Sedan with I-Key) SEC-426, "Description" (Sedan without I-Key)
B260A: IGNITION RELAY	×	×	—	PCS-63, "Description"
B260F: ENG STATE SIG LOST	×	×	—	SEC-83, "Description" (Coupe) SEC-258, "Description" (Sedan with I-Key) SEC-428, "Description" (Sedan without I-Key)
B2614: ACC RELAY CIRC	—	×	—	PCS-66, "Description"
B2615: BLOWER RELAY CIRC	—	×	—	PCS-69, "Description"
B2616: IGN RELAY CIRC	—	×	—	PCS-72, "Description"
B2617: STARTER RELAY CIRC	×	×	—	SEC-87, "Description" (Coupe) SEC-262, "Description" (Sedan with I-Key) SEC-432, "Description" (Sedan without I-Key)
B2618: BCM	×	×	—	PCS-75, "Description"
B261A: PUSH-BTN IGN SW	—	×	—	SEC-90, "Description" (Coupe) SEC-265, "Description" (Sedan with I-Key) SEC-435, "Description" (Sedan without I-Key)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUCPE]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	SEC-89, "Description" (Coupe) SEC-264, "Description" (Sedan with I-Key) SEC-434, "Description" (Sedan without I-Key)
B2622: INSIDE ANTENNA	—	—	—	DLK-60, "Description" (Coupe) DLK-283, "Description" (Sedan with I-Key) DLK-484, "Description" (Sedan without I-Key)
B2623: INSIDE ANTENNA	—	—	—	DLK-63, "Description" (Coupe) DLK-286, "Description" (Sedan with I-Key) DLK-487, "Description" (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	—	SEC-92, "Description" (Coupe) SEC-267, "Description" (Sedan with I-Key) SEC-437, "Description" (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	—	SEC-84, "Description" (Coupe) SEC-259, "Description" (Sedan with I-Key) SEC-429, "Description" (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	—	SEC-86, "Description" (Coupe) SEC-261, "Description" (Sedan with I-Key) SEC-431, "Description" (Sedan without I-Key)
C1704: LOW PRESSURE FL	—	—	×	WT-44, "Self-Diagnosis (With CONSULT-III)"
C1705: LOW PRESSURE FR	—	—	×	
C1706: LOW PRESSURE RR	—	—	×	
C1707: LOW PRESSURE RL	—	—	×	
C1708: [NO DATA] FL	—	—	×	WT-14, "Description"
C1709: [NO DATA] FR	—	—	×	
C1710: [NO DATA] RR	—	—	×	
C1711: [NO DATA] RL	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	×	WT-16, "Description"
C1713: [CHECKSUM ERR] FR	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	×	WT-18, "Description"
C1717: [PRESSDATA ERR] FR	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	×	

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1720: [CODE ERR] FL	—	—	×	WT-16, "Description"
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	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	×	WT-19, "Description"
C1734: CONTROL UNIT	—	—	×	WT-20, "Description"

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PWC

POWER WINDOW SYSTEM - WITH LEFT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-COUCPE]

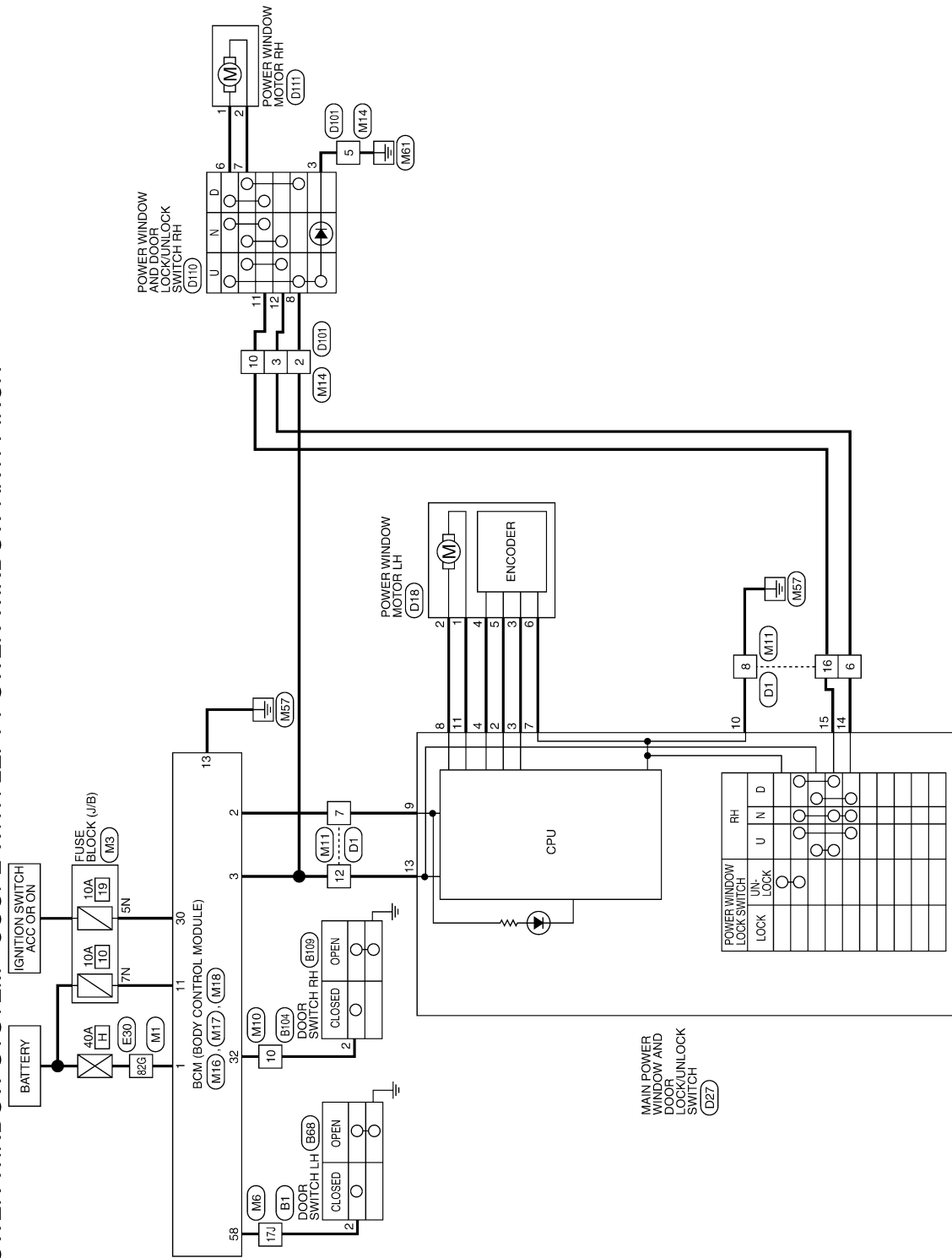
WIRING DIAGRAM

POWER WINDOW SYSTEM - WITH LEFT POWER WINDOW ANTI-PINCH

Wiring Diagram

INFOID:000000005434218

POWER WINDOW SYSTEM - COUCPE WITH LEFT POWER WINDOW ANTI-PINCH



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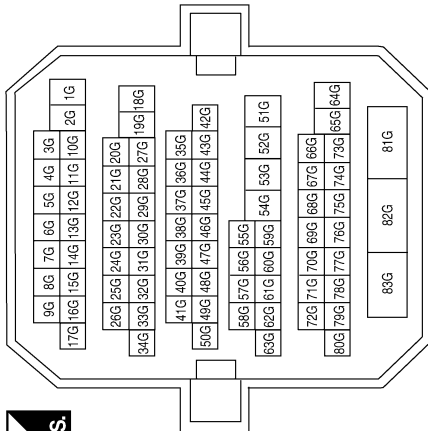
POWER WINDOW SYSTEM - WITH LEFT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-COUCPE]

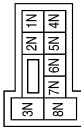
POWER WINDOW SYSTEM CONNECTORS - COUCPE WITH LEFT POWER WINDOW ANTI-PINCH

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



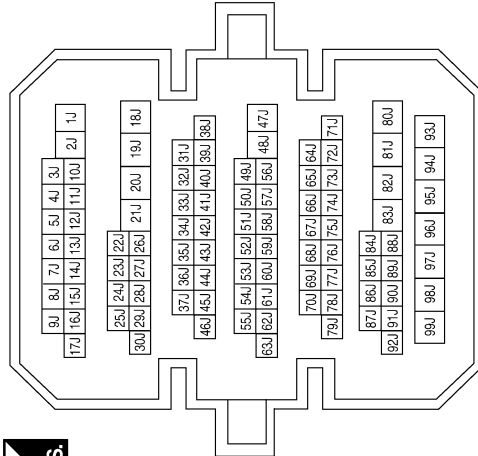
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



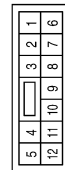
Terminal No.	Color of Wire	Signal Name
5N	V/Y	-
7N	Y/R	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



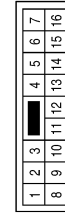
Terminal No.	Color of Wire	Signal Name
17J	SB	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
10	R/B	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	R/B	-
7	R/Y	-
8	B	-
12	L/W	-
16	R/W	-

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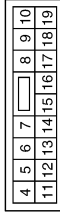
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POWER WINDOW SYSTEM - WITH LEFT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-COUCPE]

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



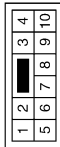
Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT_BCM_FUSE
13	B	GND1

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



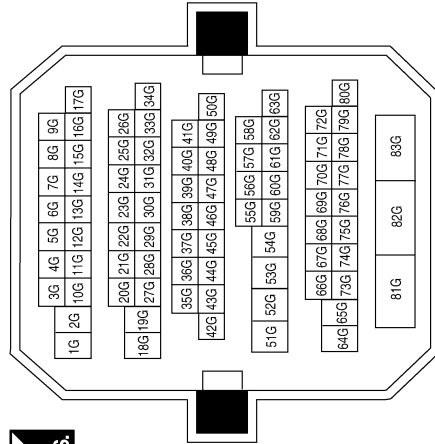
Terminal No.	Color of Wire	Signal Name
1	W/B	BAT POWER F/L
2	R/Y	P/W_POWER_SUPPLY_PERM
3	L/W	POWER_WINDOW_POWER_SUPPLY_RAP

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE

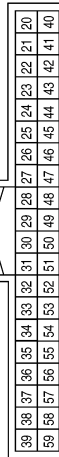


Terminal No.	Color of Wire	Signal Name
2	L/W	-
3	R/B	-
5	B	-
10	R/W	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
30	V/Y	ACC F/B
32	R/B	AS DOOR SW
58	SB	DR DOOR SW

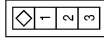
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POWER WINDOW SYSTEM - WITH LEFT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-COUCPE]

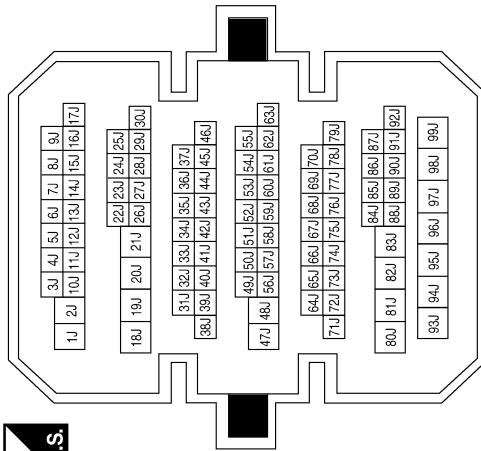
Connector No.	B68
Connector Name	DOOR SWITCH LH
Connector Color	WHITE



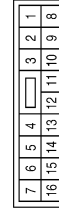
Terminal No.	Color of Wire	Signal Name
2	SB	-

Terminal No.	Color of Wire	Signal Name
17J	SB	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

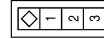


Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	BR	-
7	W	-
8	B	-
12	V	-
16	L	-

Connector No.	B109
Connector Name	DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
10	GR	-

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POWER WINDOW SYSTEM - WITH LEFT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-COUPE]

Terminal No.	Color of Wire	Signal Name
2	SB	ENCODER SIG1
3	W	ENCODER SIG2
4	GR	ENCODER POWER
7	G	ENCODER GND
8	R	DR UP
9	W	BAT
10	B	GND
11	LG	DR DOWN
13	V	IGN
14	BR	AS UP
15	L	AS DOWN

Connector No.	D27
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (COUPE WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE

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



Connector No.	D18
Connector Name	POWER WINDOW MOTOR LH
Connector Color	WHITE

1	2		
3	4	5	6



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	R	-
3	W	-
4	GR	-
5	SB	-
6	G	-

Connector No.	D111
Connector Name	POWER WINDOW MOTOR RH
Connector Color	WHITE

1	2		
3	4	5	6



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	L	-

Connector No.	D110
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
3	B	GND
6	LG	DOWN
7	L	UP
8	SB	IGN
11	O	DOWN
12	W	UP

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

1	2	3	4		
5	6	7	8	9	10



Terminal No.	Color of Wire	Signal Name
2	SB	-
3	W	-
5	B	-
10	O	-

ABKIA2198GB

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000005789692

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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.

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NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUCPE]

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000005434229

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-42, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check main power window and door lock/unlock switch power supply and ground circuit.

Refer to [PWC-19, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-19, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434230

1. CHECK POWER WINDOW MOTOR LH

Check power window motor LH.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434231

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Refer to [PWC-22, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check power window motor RH circuit.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434232

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-21, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-19, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434233

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-21, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-19, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUCPE]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000005434234

1. CHECK DOOR SWITCH

Check door switch.

Refer to [PWC-31, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-COUPE]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000005434235

1. REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Replace main power window and door lock/unlock switch.

Refer to [PWC-78, "Removal and Installation"](#). After that, [PWC-21, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

[LH ONLY ANTI-PINCH-COUCPE]

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000005434236

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.
2. Check the following parts.
 - Fuse/circuit breaker blown.
 - Poor connection, open or short circuit of harness connector.
 - Battery voltage.

Is the inspection result normal?

- YES >> Inspection End.
NO >> Repair or replace the malfunctioning parts.

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POWER WINDOW MAIN SWITCH

< ON-VEHICLE REPAIR >

[LH ONLY ANTI-PINCH-COUPE]

ON-VEHICLE REPAIR

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:000000005789697

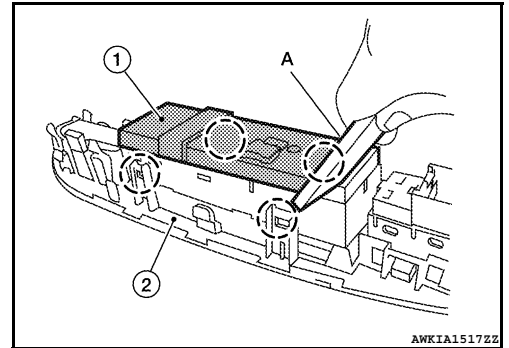
REMOVAL

1. Remove the power window main switch finisher (2) from the door finisher, refer to [INT-11. "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the power window main switch (1) from the switch finisher (2).

○; Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

FRONT POWER WINDOW SWITCH

< ON-VEHICLE REPAIR >

[LH ONLY ANTI-PINCH-COUPE]

FRONT POWER WINDOW SWITCH

Removal and Installation

INFOID:000000005789698

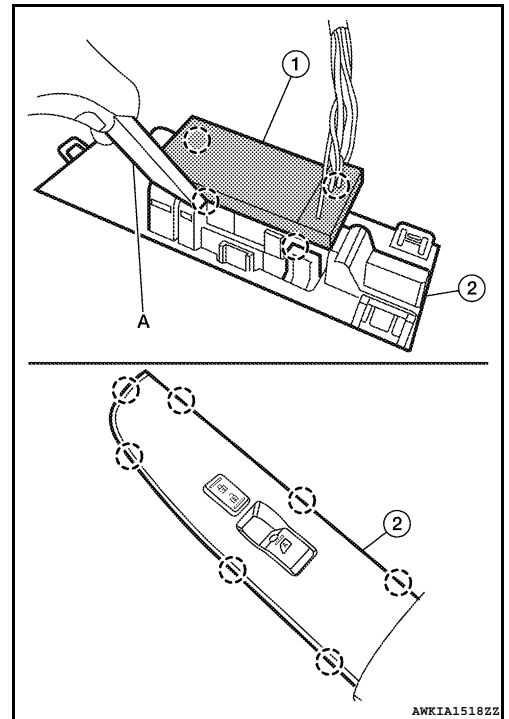
REMOVAL

1. Remove the front power window switch finisher (2) from the front door finisher RH. Refer to [INT-11, "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the front power window switch (1) from the switch finisher (2).

○: Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

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PWC

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-SEDAN]

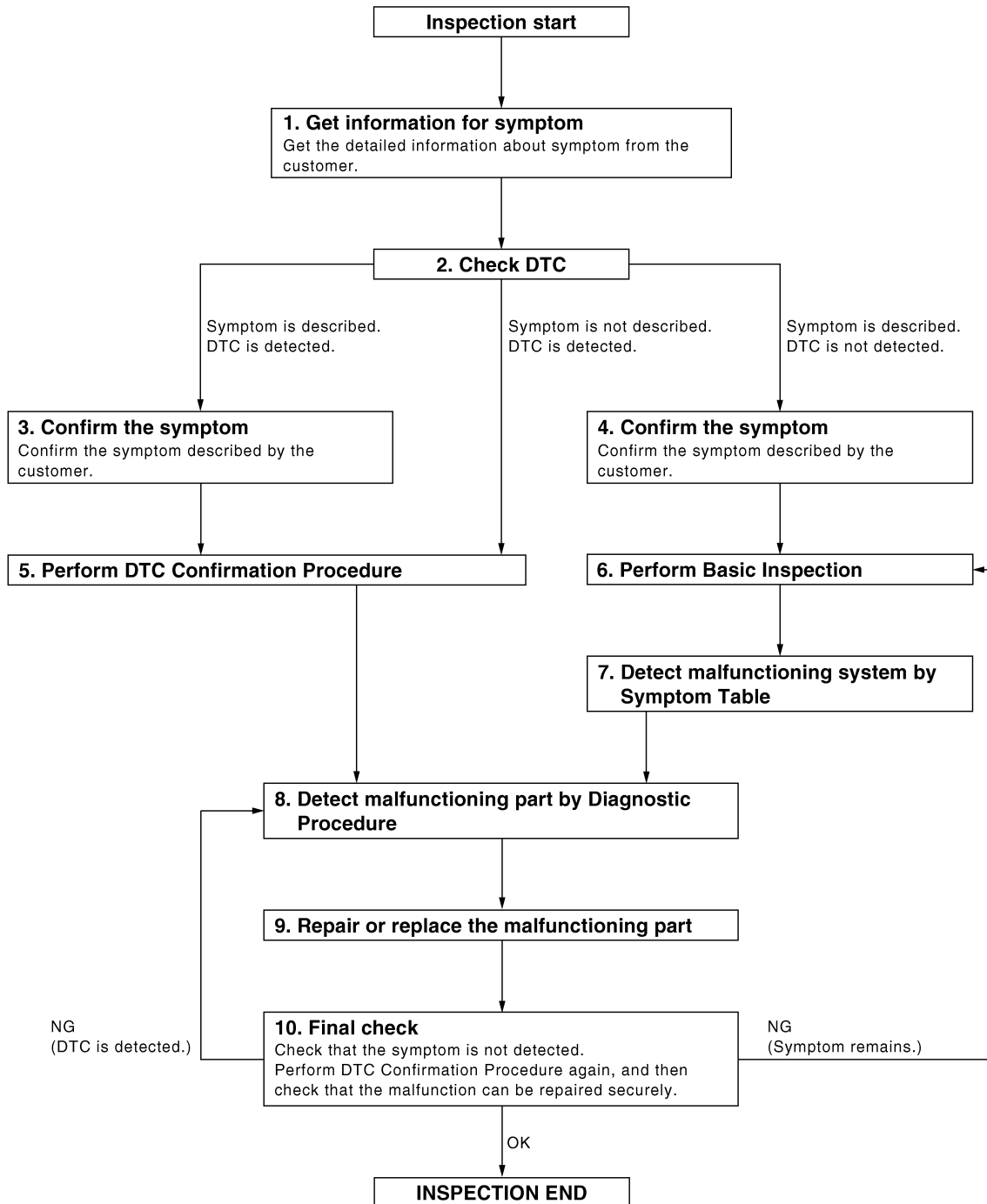
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005434238

OVERALL SEQUENCE



DETAILED FLOW

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-SEDAN]

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2. CHECK DTC

1. Check DTC.
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>>GO TO 3
- Symptom is described, DTC is not displayed>>GO TO 4
- Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to [BCS-69. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check. If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

- YES >> GO TO 8
- NO >> Refer to [GI-41. "Intermittent Incident"](#).

6. PERFORM BASIC INSPECTION

Perform [PWC-80. "Work Flow"](#).

Inspection End>>GO TO 7

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 8

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PWC

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-SEDAN]

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 9

NO >> Check voltage of related BCM terminals using CONSULT-III.

9. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

>> GO TO 10

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8

YES (Symptom remains)>>GO TO 6

NO >> Inspection End.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-SEDAN]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000005434239

Initial setting is necessary when battery terminal is disconnected.

CAUTION:

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

- Auto-up operation
- Anti-pinch function
- Retained power operation

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000005434240

INITIALIZATION PROCEDURE

1. Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds 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-115. "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. Retained power operation when ignition switch is OFF.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005434241

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
- Retained power operation

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000005434242

INITIALIZATION PROCEDURE

1. Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more.

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INSPECTION AND ADJUSTMENT

[LH ONLY ANTI-PINCH-SEDAN]

< BASIC INSPECTION >

2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds 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-115, "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. **Retained power operation when ignition switch is OFF.**

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

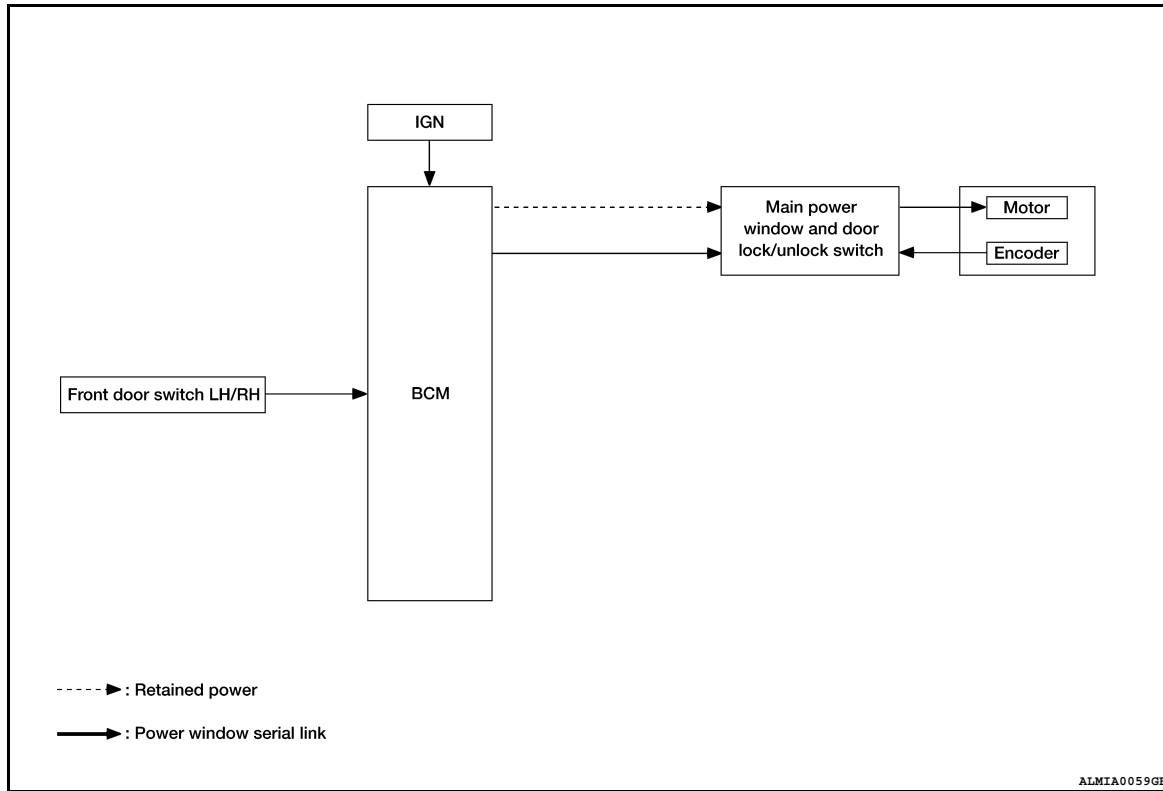
FUNCTION DIAGNOSIS

POWER WINDOW SYSTEM

System Diagram

INFOID:000000005434243

FRONT POWER WINDOW LH ANTI-PINCH SYSTEM



System Description

INFOID:000000005434244

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH INPUT/OUTPUT SIGNAL CHART

PWC

Item	Input signal to main power window and door lock/unlock switch	Main power window and door lock/unlock switch function	Actuator
Encoder	Encoder pulse signal	Power window control	Front power window motor
Main power window and door lock/unlock switch	Front power window motor LH UP/DOWN signal		
Power window and door lock/unlock switch RH	Front power window motor RH UP/DOWN signal		
BCM	RAP signal		
Rear power window switch	Rear power window motor UP/DOWN signal		Rear power window motor

POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Main power window and door lock/unlock switch can open/close all windows.
- Front & rear power window switches can open/close the corresponding windows.

POWER WINDOW AUTO-OPERATION (FRONT LH)

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

- AUTO UP/DOWN operation can be performed when main power window and door lock/unlock switch turns to AUTO.
- Encoder continues detecting the movement of power window motor and transmits to main power window and door lock/unlock switch as the encoder pulse signal while power window motor is operating.
- Main power window and door lock/unlock switch reads the changes of encoder signal and stops AUTO operation when door glass is at fully opened/closed position.
- Power window motor is operable in case encoder is malfunctioning.

RETAINED POWER OPERATION

- Retained power operation is an additional power supply function that enables power window system to operate during the 45 seconds even when ignition switch is turned OFF

Retained power function cancel conditions

- Front door CLOSE (door switch OFF)→OPEN (door switch ON).
- When ignition switch is ON.
- When timer time passes. (45 seconds)

POWER WINDOW LOCK

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

ANTI-PINCH OPERATION (FRONT LH)

- Pinch foreign material in the door glass during AUTO-UP operation, and it is 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 main power window and door lock/unlock 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 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.

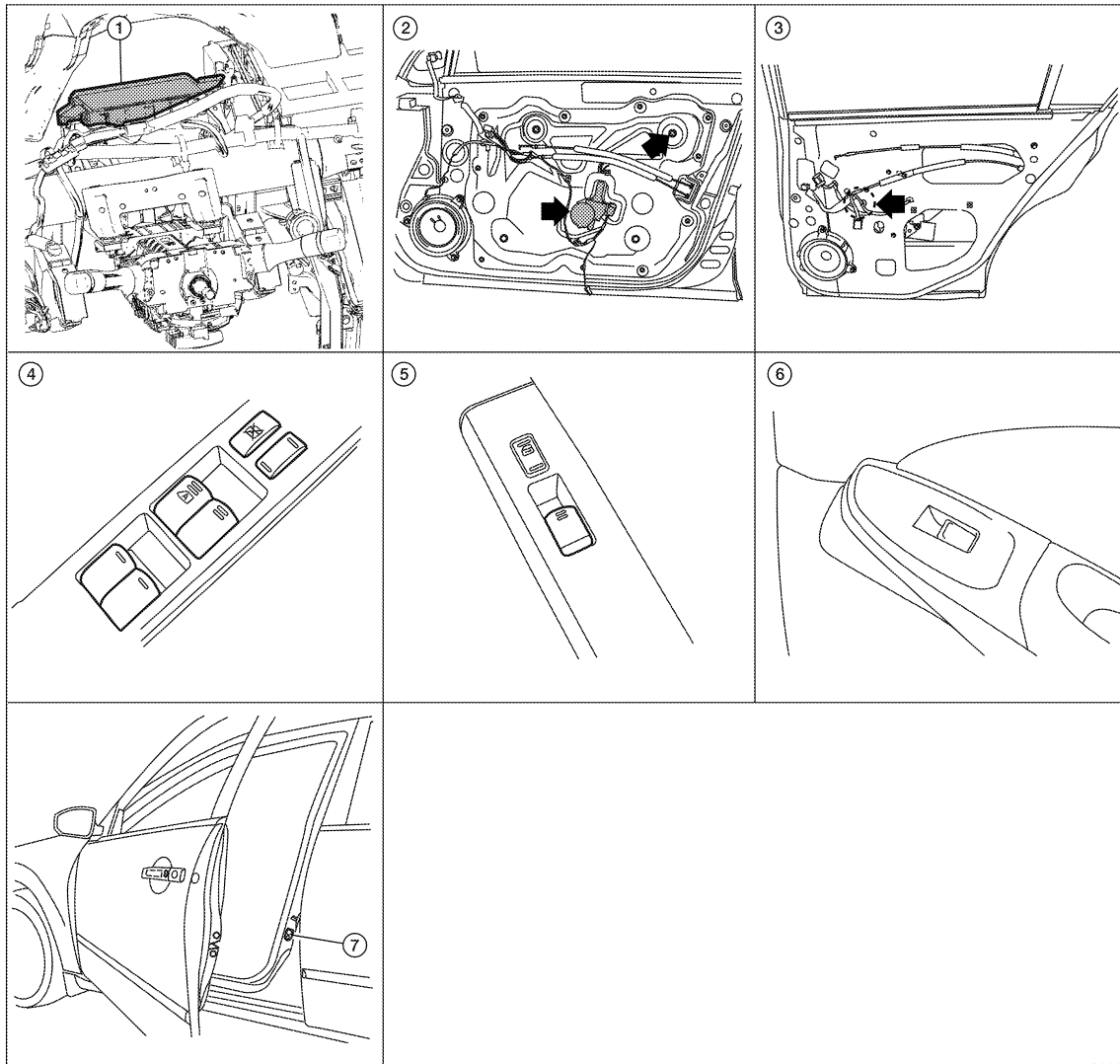
POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Component Parts Location

INFOID:000000005434245



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- | | | |
|---|---|--|
| 1. BCM M16, M17, M18 (view with instrument panel removed) | 2. Front power window motor LH D9, RH D104 | 3. Rear power window motor LH D204, RH D304 |
| 4. Main power window and door lock/unlock switch D8, D12 | 5. Power window and door lock/unlock switch LH D110 | 6. Rear power window switch LH D203, RH D303 |
| 7. Front door switch LH B8, RH B108 | | |

L
M

Component Description

INFOID:000000005434246

FRONT POWER WINDOW LH ANTI-PINCH SYSTEM

N
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Component	Function
BCM	<ul style="list-style-type: none"> Supplies power to power window switches. Controls retained power.
Main power window and door lock/unlock switch	<ul style="list-style-type: none"> Directly controls all power window motor of all doors. Controls anti-pinch operation of front power window LH.
Power window and door lock/unlock switch RH	<ul style="list-style-type: none"> Controls front power window motor RH.
Rear power window switch	<ul style="list-style-type: none"> Controls rear power window motors LH and RH.

P

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Component	Function
Front power window motor LH	<ul style="list-style-type: none">• Integrates the ENCODER POWER and WINDOW MOTOR.• Starts operating with signals from main power window and door lock/unlock switch.• Transmits power window motor rotation as a pulse signal to main power window and door lock/unlock switch.
Front power window motor RH	Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH.
Rear power window motor	Starts operating with signals from main power window and door lock/unlock switch & rear power window switch.
Front door switch LH or RH	Detects door open/close condition and transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : Diagnosis Description

INFOID:000000005783551

BCM CONSULT-III FUNCTION

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 MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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	×	×	×
Remote keyless entry system ¹	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system ²	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	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	AIR PRESSURE MONITOR	×	×	×

1 : With remote keyless entry system

2: With intelligent Key system

COMMON ITEM : CONSULT-III Function

INFOID:000000005783552

ECU IDENTIFICATION

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Displays the BCM part No.

SELF-DIAG RESULT

Refer to [BCS-70, "DTC Index"](#).

RETAINED PWR

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

INFOID:000000005783553

Data monitor

Monitor Item [Unit]	Description
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH.
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH.

POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000005434250

- BCM supplies power.
- It operates each power window motor via corresponding power window switch and makes window move up/down when main power window and door lock/unlock switch is operated.

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000005434251

Main Power Window And Door Lock/unlock Switch

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Does power window motor operate with main power window and door lock/unlock switch operation?

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch power supply and ground circuit are OK.
 NO >> Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000005434252

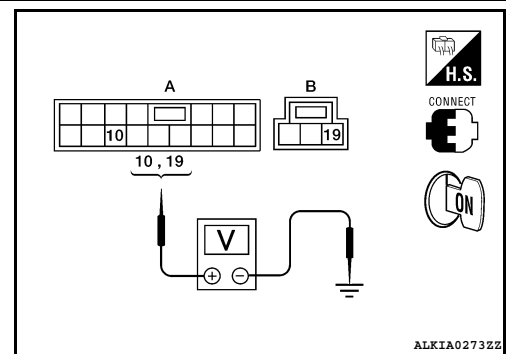
Regarding Wiring Diagram information, refer to [PWC-332, "Wiring Diagram"](#).

Main Power Window And Door Lock/unlock Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connectors (A and B) and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Main power window and door lock/unlock switch connector	Terminal		
D12 (A)	10	Ground	Battery voltage
D8 (B)	19		



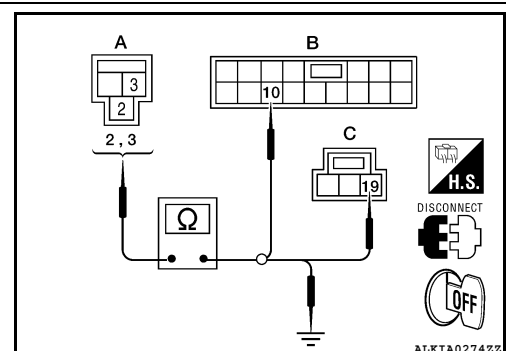
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and main power window and door lock/unlock switch.
3. Check continuity between BCM connector (A) and main power window and door lock/unlock switch connectors (B and C).

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M16 (A)	3	D12 (B)	10	Yes
	2	D8 (C)	19	



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PWC

POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	3		
	2		

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D8	17		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-163. "Removal and Installation"](#).

After that, refer to [PWC-96. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	Battery voltage
M16	3	
		2

Is the measurement value within the specification?

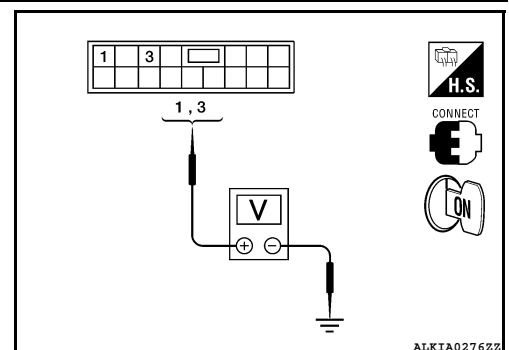
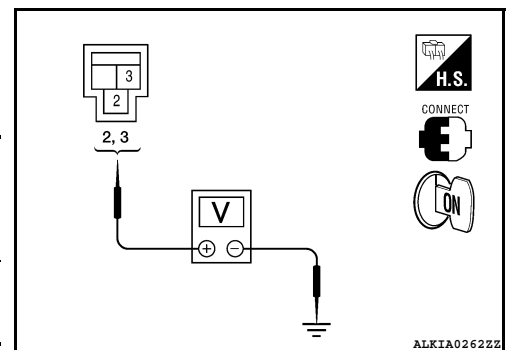
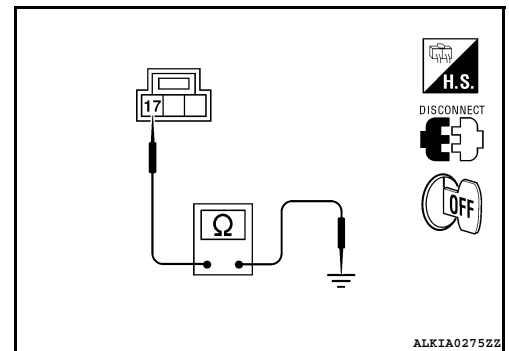
YES >> Check main power window and door lock/unlock switch output signal (rear power window switch LH) GO TO 5

YES >> Check main power window and door lock/unlock switch output signal (rear power window switch RH) GO TO 6

NO >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).

5. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH LH)

1. Connect main power window and door lock/unlock switch.
2. Turn ignition switch ON.
3. Check voltage between main power window and door lock/unlock switch and ground.



POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Terminal		Window condition	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal		
D12	1	UP	Battery voltage
		DOWN	0
	3	UP	0
		DOWN	Battery voltage

Is the measurement value within the specification?

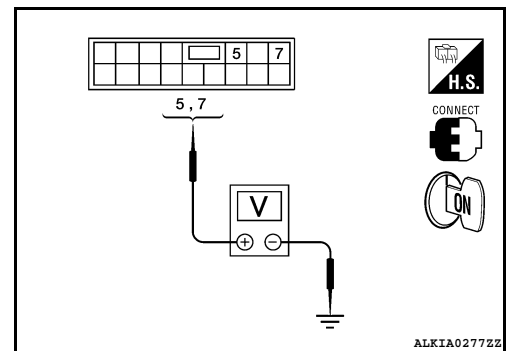
YES >> GO TO 7

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-163, "Removal and Installation"](#). After that, refer to [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

6. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH RH)

1. Connect main power window and door lock/unlock switch.
2. Turn ignition switch ON.
3. Check voltage between main power window and door lock/unlock switch and ground.

Terminal		Window condition	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal		
D12	7	UP	Battery voltage
		DOWN	0
	5	UP	0
		DOWN	Battery voltage



Is the measurement value within the specification?

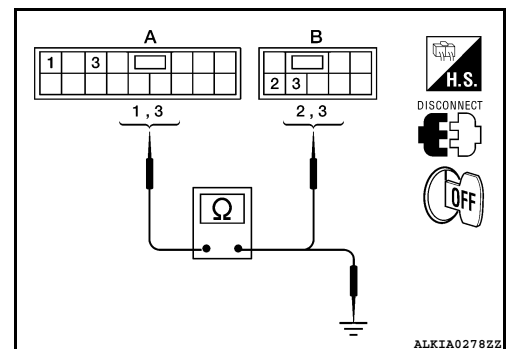
YES >> GO TO 8

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-163, "Removal and Installation"](#). After that, refer to [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

7. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and rear power window switch LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch LH connector	Terminal	Continuity
D12 (A)	1	D203 (B)	2	Yes
	3		3	



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

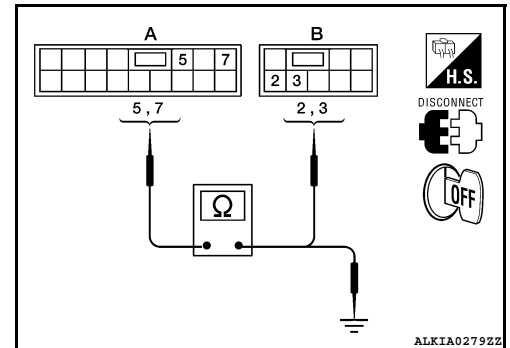
Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	1		
	3		

Is the inspection result normal?

- YES >> GO TO 9
 NO >> Repair or replace harness.

8. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and rear power window switch RH.
- Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch RH connector (B).



Main power window and door lock/unlock switch connector	Terminal	Rear power window switch RH connector	Terminal	Continuity
D12 (A)	5	D303 (B)	3	Yes
	7		2	

- Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	5		
	7		

Is the inspection result normal?

- YES >> GO TO 9
 NO >> Repair or replace harness.

9. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-94, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
 NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-163, "Removal and Installation"](#). After that, refer to [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

POWER WINDOW MAIN SWITCH : Component Inspection

INFOID:000000005434253

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

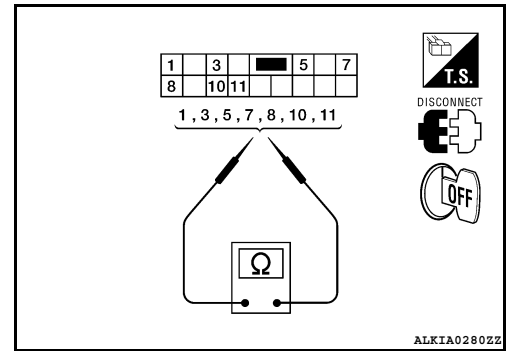
POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

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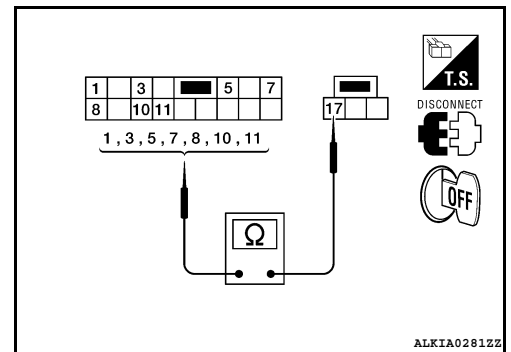
1. Check main power window and door lock/unlock switch.

Terminal		Main power window and door lock/unlock switch condition		Continuity
10	1	Rear LH	UP	Yes
10	7	Rear RH		
10	8	Front RH		
1	3	Rear LH	NEUTRAL	
5	7	Rear RH		
8	11	Front RH		
10	3	Rear LH	DOWN	
10	5	Rear RH		
10	11	Front RH		



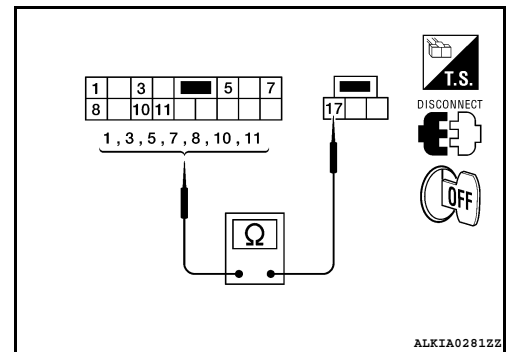
2. Check continuity between main power window and door lock/unlock switch (power window lock switch) (Lock operation).

Terminal		Main power window and door lock/unlock switch condition		Continuity
3	17	Rear LH	UP	No
5		Rear RH		
11		Front RH		
1		Rear LH	NEUTRAL	
3		Rear RH		
5		Front RH		
7		Rear LH	DOWN	
8		Rear RH		
11		Front RH		



3. Check continuity between main power window and door lock/unlock switch (power window lock switch) (Unlock operation).

Terminal		Main power window and door lock/unlock switch condition		Continuity
3	17	Rear LH	UP	Yes
5		Rear RH		
11		Front RH		
1		Rear LH	NEUTRAL	
3		Rear RH		
5		Front RH		
7		Rear LH	DOWN	
8		Rear RH		
11		Front RH		



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PWC

POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch is OK.
NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-163, "Removal and Installation"](#). After that, refer to [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

POWER WINDOW MAIN SWITCH : Special Repair Requirement

INFOID:000000005434254

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-83, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-83, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
NO >> Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH : Description

INFOID:000000005434255

- BCM supplies power.
- Front power window motor RH will be operated if power window and door lock/unlock switch RH is operated.

FRONT POWER WINDOW SWITCH : Component Function Check

INFOID:000000005434256

Power Window And Door Lock/unlock Switch RH

1. CHECK POWER WINDOW MOTOR FUNCTION

Does front power window motor operate with power window and door lock/unlock switch RH operation?

Is the inspection result normal?

- YES >> Power window and door lock/unlock switch RH power supply and ground circuit are OK.
NO >> Refer to [PWC-96, "FRONT POWER WINDOW SWITCH : Diagnosis Procedure"](#).

FRONT POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000005434257

Regarding Wiring Diagram information, refer to [PWC-332, "Wiring Diagram"](#).

Power Window And Door Lock/Unlock Switch RH Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT (POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH)

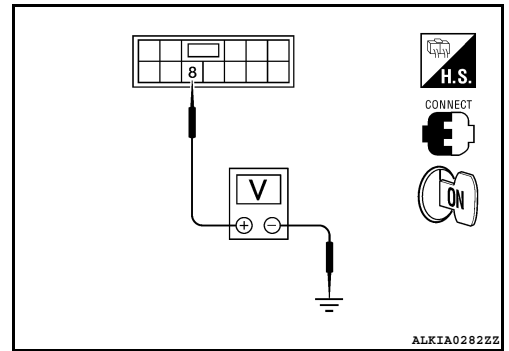
POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch ON.
2. Check voltage between power window and door lock/unlock switch RH connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Power window and door lock/unlock switch RH connector	Terminal		
D110	8	Ground	Battery voltage



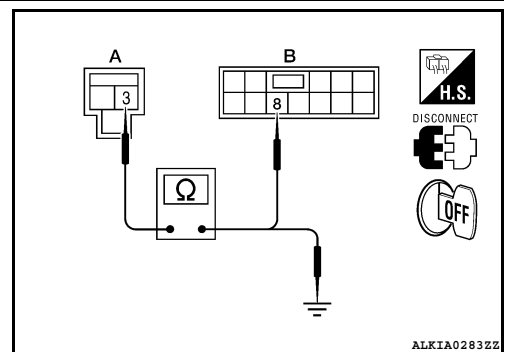
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and power window and door lock/unlock switch RH.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M16 (A)	3	D110 (B)	8	Yes



4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	3		No

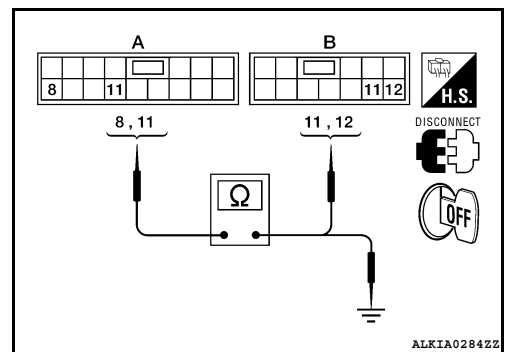
Is the inspection result normal?

- YES >> Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).
NO >> Repair or replace harness.

3. CHECK HARNESS CONTINUITY (POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH)

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window and door lock/unlock switch RH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and power window and door lock/unlock switch RH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
D12 (A)	11	D110 (B)	11	Yes
	8		12	



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	8		No
	11		

Is the inspection result normal?

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POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

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

4. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Refer to [PWC-98. "FRONT POWER WINDOW SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
- NO >> Replace power window and door lock/unlock switch RH. Refer to [PWC-163. "Removal and Installation"](#).

FRONT POWER WINDOW SWITCH : Component Inspection

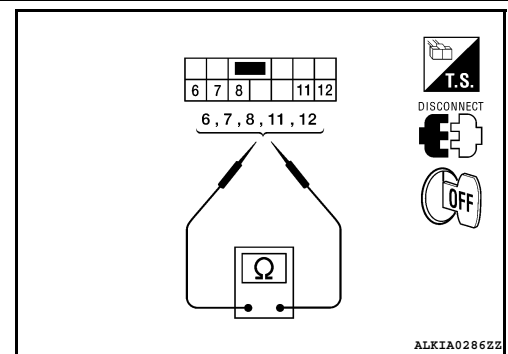
INFOID:000000005434258

COMPONENT INSPECTION

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Terminal	Power window switch condition	Continuity
8	UP	Yes
12		
12	NEUTRAL	
6		
8	DOWN	
6		



Is the inspection result normal?

- YES >> Power window and door lock/unlock switch RH is OK.
- NO >> Replace power window and door lock/unlock switch RH. Refer to [PWC-164. "Removal and Installation"](#).

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Description

INFOID:000000005434259

- BCM supplies power.
- Rear power window motor will be operated if rear power window switch is operated. Rear power window switch.

REAR POWER WINDOW SWITCH : Component Function Check

INFOID:000000005434260

Rear Power Window Switch

1. CHECK REAR POWER WINDOW MOTOR FUNCTION

Does rear power window motor operate with rear power window switch operation?

Is the inspection result normal?

- YES >> Rear power window switch power supply and ground circuit are OK.
- NO >> Refer to [PWC-98. "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000005434261

Regarding Wiring Diagram information, refer to [PWC-332. "Wiring Diagram"](#).

Rear Power Window Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.

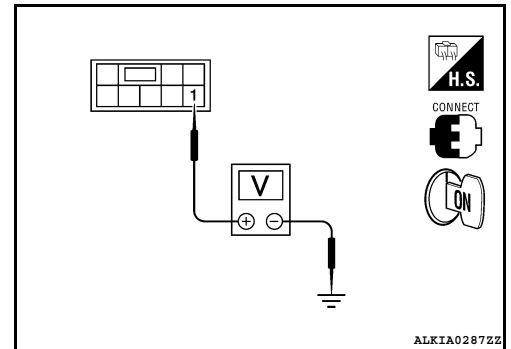
POWER SUPPLY AND GROUND CIRCUIT

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

- Check voltage between rear power window switch connector and ground.

Terminal		Terminal	Condition	Voltage (V) (Approx.)
(+)	(-)			
Rear power window switch connector		1	Ignition switch ON	Battery voltage
LH	D203			
RH	D303			



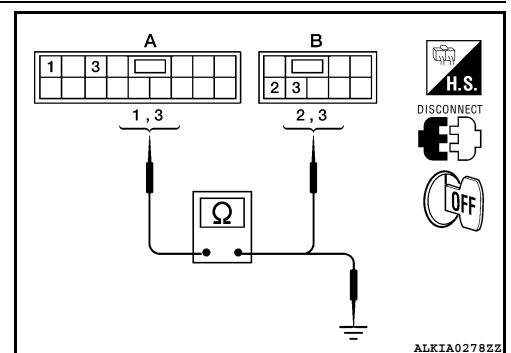
Is the measurement value within the specification?

- YES >> GO TO 2 (Rear power window switch LH)
- YES >> GO TO 3 (Rear power window switch RH)
- NO >> GO TO 4

2. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and rear power window switch LH.
- Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch LH connector	Terminal	Continuity
D12 (A)	1	D203 (B)	2	Yes
	3		3	



- Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	1	Ground	No
	3		

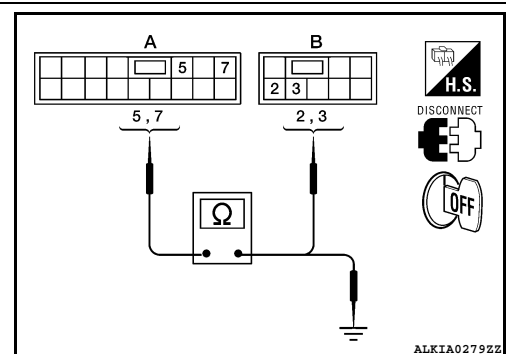
Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
- NO >> Repair or replace harness.

3. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and rear power window switch RH.
- Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch RH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch RH connector	Terminal	Continuity
D12 (A)	5	D303 (B)	3	Yes
	7		2	



- Check continuity between main power window and door lock/unlock switch connector (A) and ground.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	5		
	7		

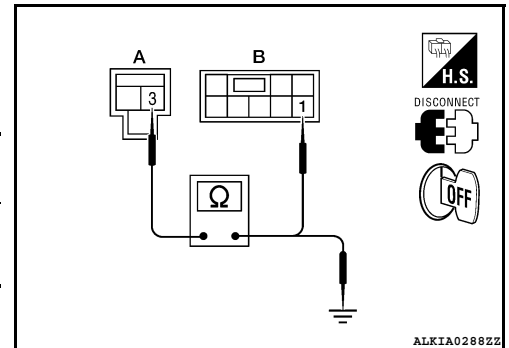
Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
 NO >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY

- Disconnect BCM and rear power window switch.
- Check continuity between BCM connector (A) and rear power window switch connector (B).

BCM connector	Terminal	Rear power window switch connector		Terminal	Continuity
M16 (A)	3	LH	D203 (B)	1	Yes
		RH	D303 (B)		



- Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M16	3		

Is the inspection result normal?

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

5. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to [PWC-100, "REAR POWER WINDOW SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
 NO >> Replace rear power window switch. Refer to [PWC-165, "Removal and Installation - Rear Door Switch"](#).

REAR POWER WINDOW SWITCH : Component Inspection

INFOID:000000005434262

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Terminal		Power window switch condition	Continuity
1	5	UP	Yes
3	4		
3	4	NEUTRAL	
5	2		
1	4	DOWN	
5	2		

Is the inspection result normal?

- YES >> Rear power window switch is OK.
 NO >> Replace rear power window switch. Refer to [PWC-165, "Removal and Installation - Rear Door Switch"](#).

POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434263

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

DRIVER SIDE : Component Function Check

INFOID:000000005434264

1. CHECK FRONT POWER WINDOW MOTOR LH CIRCUIT

Does front power window motor LH operate with the main power window and door lock/unlock switch?

Is the inspection result normal?

- YES >> Front power window motor LH is OK.
- NO >> Refer to [PWC-101. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434265

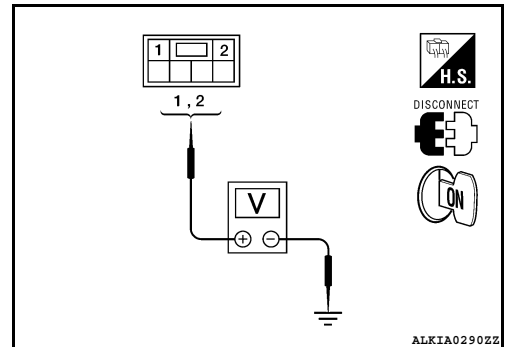
Regarding Wiring Diagram information, refer to [PWC-332. "Wiring Diagram"](#).

Front Power Window Motor LH Circuit Check

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

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

Terminal		Main power window and door lock/unlock switch condition	Voltage (V) (Approx.)
(+)	(-)		
Front power window motor LH connector	Terminal		
D9	2	UP	Battery voltage
		DOWN	0
	1	UP	0
		DOWN	Battery voltage



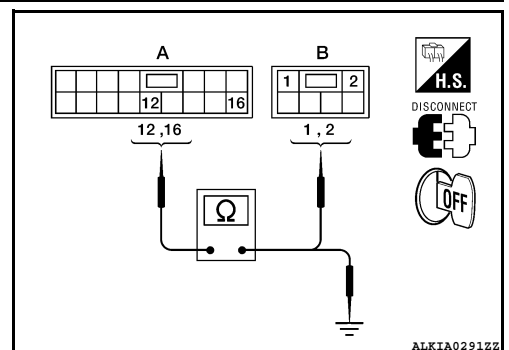
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D12 (A)	16	D9 (B)	2	Yes
	12		1	



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POWER WINDOW MOTOR

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal		Ground	Continuity
	16	12		
D12 (A)	16	12		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-163, "Removal and Installation"](#). After that, refer to [PWC-102, "DRIVER SIDE : Special Repair Requirement"](#).
NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to [PWC-102, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
NO >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-102, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Component Inspection

INFOID:000000005434266

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR LH

Does motor operate by connecting the battery voltage directly to power window motor?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

- YES >> Front power window motor LH is OK.
NO >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-102, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000005434267

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-83, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-83, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
NO >> Refer to [PWC-101, "DRIVER SIDE : Component Function Check"](#).

PASSENGER SIDE

POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:000000005434268

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or power window and door lock/unlock switch RH.

PASSENGER SIDE : Component Function Check

INFOID:000000005434269

1. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Does front power window motor RH operate with main power window and door lock/unlock switch or power window and door lock/unlock switch?

Is the inspection result normal?

- YES >> Front power window motor RH is OK.
- NO >> Refer to [PWC-103. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005434270

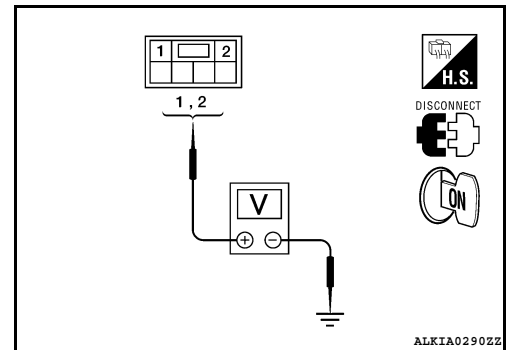
Regarding Wiring Diagram information, refer to [PWC-332. "Wiring Diagram"](#).

Front Power Window Motor RH Circuit Check

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OUTPUT SIGNAL

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

Terminal (+)		Terminal (-)	Front power window motor RH condition	Voltage (V) (Approx.)
Front power window motor RH connector	Terminal			
D104	1	Ground	UP	Battery voltage
			DOWN	0
	2		UP	0
			DOWN	Battery voltage



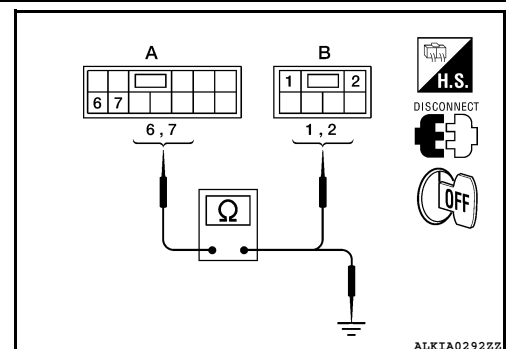
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector (A) and front power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Front power window motor RH connector	Terminal	Continuity
D110 (A)	6	D104 (B)	1	Yes
	7		2	



4. Check continuity between power window and door lock/unlock switch connector (A) and ground.

POWER WINDOW MOTOR

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Power window and door lock/unlock switch RH connector	Terminal		Ground	Continuity
	D110 (A)	6		7

Is the inspection result normal?

YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-164, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.

Refer to [PWC-104, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace front power window motor RH. Refer to [GW-19, "Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000005434271

COMPONENT INSPECTION

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to front power window motor RH?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

YES >> Power window motor is OK.

NO >> Replace front power window motor RH. Refer to [GW-19, "Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000005434272

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or rear power window switch LH.

REAR LH : Component Function Check

INFOID:000000005434273

1. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

Does rear power window motor LH operate with main power window and door lock/unlock switch or rear power window switch LH?

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to [PWC-104, "REAR LH : Diagnosis Procedure"](#)

REAR LH : Diagnosis Procedure

INFOID:000000005434274

Regarding Wiring Diagram information, refer to [PWC-332, "Wiring Diagram"](#).

POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-SEDAN]

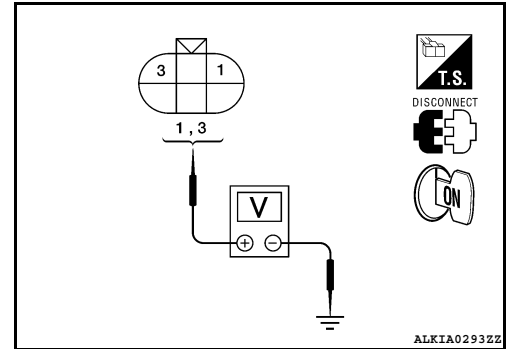
< COMPONENT DIAGNOSIS >

Rear Power Window Motor LH Circuit Check

1. CHECK REAR POWER WINDOW SWITCH LH OUTPUT SIGNAL

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

Terminal		Window condition	Voltage (V) (Approx.)
(+)	(-)		
Rear power window motor LH connector	Terminal		
D204	1	UP	Battery voltage
		DOWN	0
	3	UP	0
		DOWN	Battery voltage



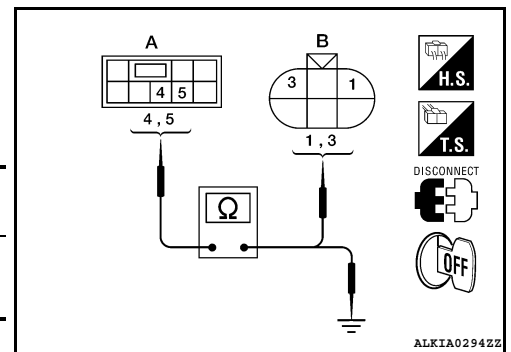
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect rear power window switch LH.
3. Check continuity between rear power window switch LH connector (A) and rear power window motor LH connector (B).

Rear power window switch LH connector	Terminal	Rear power window motor LH connector	Terminal	Continuity
D203 (A)	5	D204 (B)	1	Yes
	4		3	



4. Check continuity between rear power window switch LH connector (A) and ground.

Rear power window switch LH connector	Terminal	Ground	Continuity
D203 (A)	5	Ground	No
	4		

Is the inspection result normal?

- YES >> Check rear power window switch LH. Refer to [PWC-105, "REAR LH : Component Inspection"](#).
NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.
Refer to [PWC-105, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
NO >> Replace rear power window motor LH. Refer to [GW-14, "Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000005434275

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR LH

POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Does motor operate by connecting the battery voltage directly to rear power window motor LH?

Terminal		Motor condition
(+)	(-)	
3	1	DOWN
1	3	UP

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to [GW-14. "Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000005434276

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or rear power window switch RH.

REAR RH : Component Function Check

INFOID:000000005434277

1. CHECK POWER WINDOW MOTOR CIRCUIT

Does rear power window motor RH operate with operating power window main switch or rear power window switch RH?

Is the inspection result normal?

YES >> Power window motor is OK.

NO >> Refer to [PWC-106. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000005434278

Regarding Wiring Diagram information, refer to [PWC-332. "Wiring Diagram"](#).

Rear Power Window Motor RH Circuit Check

1. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

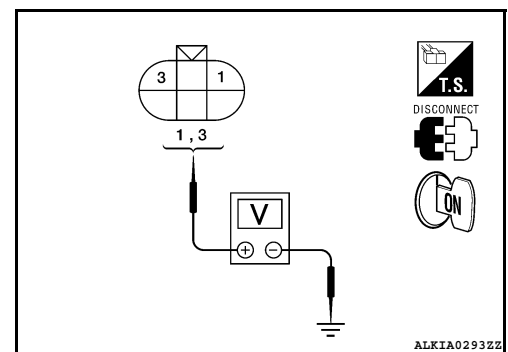
Terminal		Rear power window switch RH condition	Voltage (V) (Approx.)
(+)	(-)		
Rear power window motor RH connector D304	Terminal		
	1	UP	Battery voltage
	1	DOWN	0
	3	UP	0
	3	DOWN	Battery voltage

Is the measurement value within the specification?

YES >> GO TO 3

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY



POWER WINDOW MOTOR

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect rear power window switch RH.
3. Check continuity between rear power window switch RH connector (A) and rear power window motor RH connector (B).

Rear power window switch RH connector	Terminal	Rear power window motor RH connector	Terminal	Continuity
D303 (A)	5	D304 (B)	1	Yes
	4		3	

4. Check continuity between rear power window switch RH connector (A) and ground.

Rear power window switch RH connector	Terminal	Ground	Continuity
D303 (A)	5	Ground	No
	4		

Is the inspection result normal?

- YES >> Check rear power window switch RH. Refer to [PWC-107, "REAR RH : Component Inspection"](#).
 NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-107, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
 NO >> Replace rear power window motor RH. Refer to [GW-14, "Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000005434279

COMPONENT INSPECTION

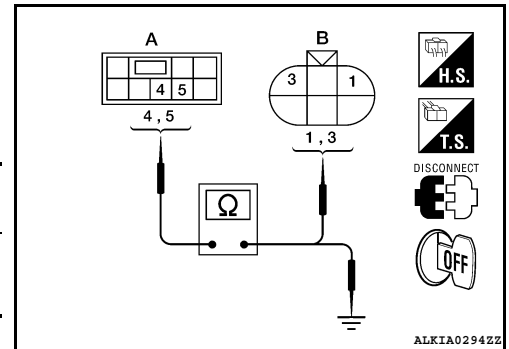
1. CHECK REAR POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to rear power window motor RH?

Terminal		Motor condition
(+)	(-)	
3	1	DOWN
1	3	UP

Is the inspection result normal?

- YES >> Power window motor is OK.
 NO >> Replace rear power window motor RH. Refer to [GW-14, "Removal and Installation"](#).



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ENCODER

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

ENCODER DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434280

Detects condition of the front power window motor LH operation and transmits to main power window and door lock/unlock switch as pulse signal.

DRIVER SIDE : Component Function Check

INFOID:000000005434281

1. CHECK ENCODER OPERATION

Does front door glass LH perform AUTO open/close operation normally with main power window and door lock/unlock switch?

Is the inspection result normal?

- YES >> Encoder operation is OK.
- NO >> Refer to [PWC-108, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434282

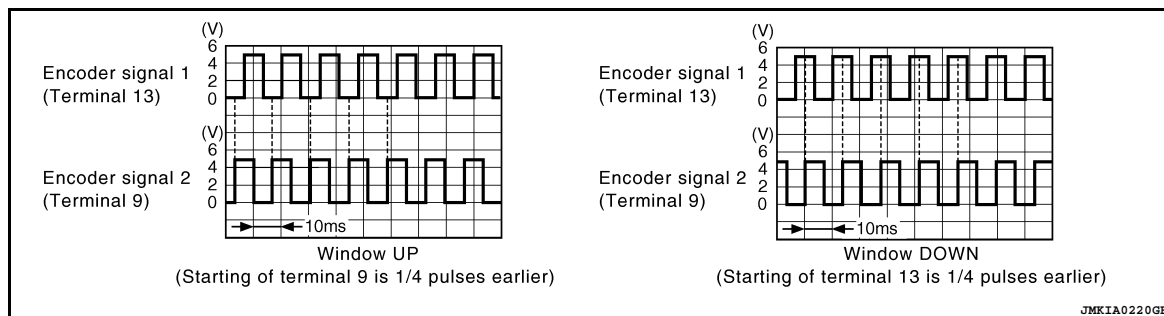
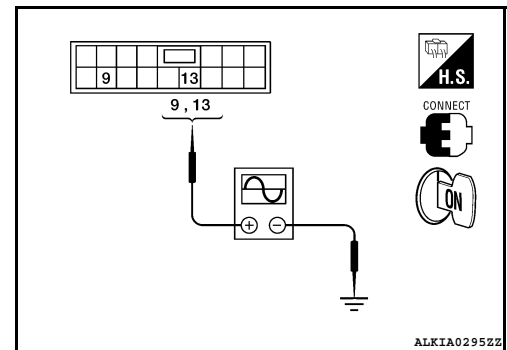
Regarding Wiring Diagram information, refer to [PWC-332, "Wiring Diagram"](#).

Encoder Circuit Check

1. CHECK ENCODER OPERATION

1. Connect front power window motor LH.
2. Turn ignition switch ON.
3. Check signal between main power window and door lock/unlock switch connector and ground with oscilloscope.

Terminals		Signal (Reference value)
(+)	(-)	
Main power window and door lock/unlock switch connector	Terminal	Ground
D12	9 13	
		Refer to following signal



Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
- NO >> GO TO 2

2. CHECK FRONT POWER WINDOW MOTOR LH POWER SUPPLY

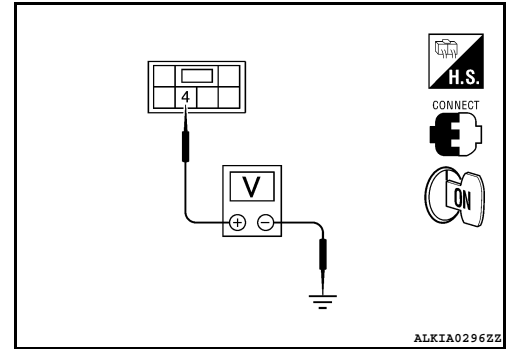
ENCODER

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch ON.
2. Check voltage between front power window motor LH connector and ground.

Terminal		(-)	Voltage (V) (Approx.)
(+) Front power window motor LH connector			
D9	Terminal 4	Ground	10



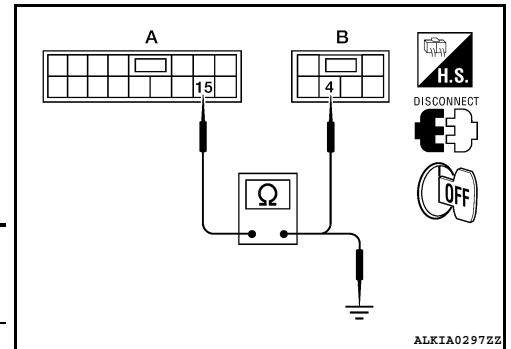
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D12 (A)	15	D9 (B)	4	Yes



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	15		No

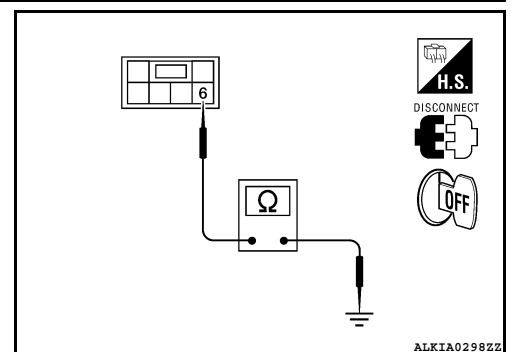
Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-163. "Removal and Installation"](#). After that, refer to [PWC-110. "DRIVER SIDE : Special Repair Requirement"](#).
NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Check continuity between front power window motor LH connector and ground.

Front power window motor LH connector	Terminal	Ground	Continuity
D9	6		Yes



Is the inspection result normal?

- YES >> GO TO 6
NO >> GO TO 5

5. CHECK HARNESS CONTINUITY 2

ENCODER

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D12 (A)	2	D9 (B)	6	Yes

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-163, "Removal and Installation"](#). After that, refer to [PWC-110, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D12 (A)	9	D9 (B)	3	Yes
	13		5	

3. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D12 (A)	9	Ground	No
	13		

Is the inspection result normal?

YES >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-110, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

DRIVER SIDE : Special Repair Requirement

INFOID:000000005434283

1. PERFORM INITIALIZATION PROCEDURE

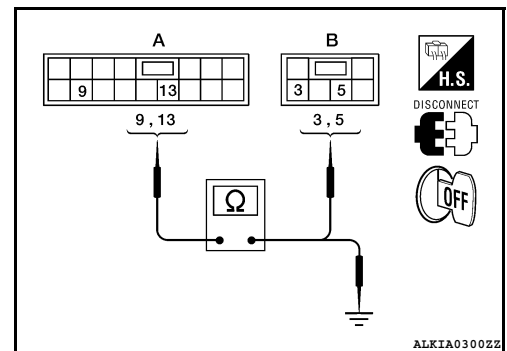
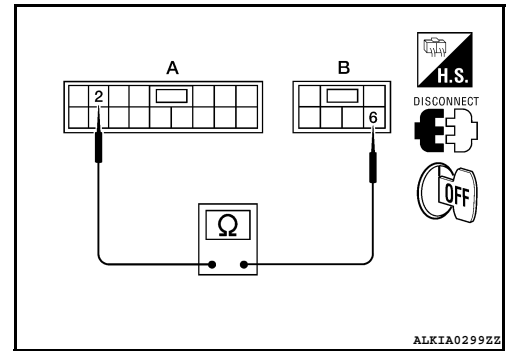
Perform initialization procedure.

Refer to [PWC-83, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).



DOOR SWITCH

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

DOOR SWITCH

Description

INFOID:000000005434284

Detects door open/close condition and transmits the signal to BCM.

Component Function Check

INFOID:000000005434285

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-III. Refer to [BCS-34. "RETAINED PWR : CONSULT-III Function \(BCM - RETAINED PWR\)"](#).

Monitor item	Condition
DOOR SW-DR	OPEN : ON
	CLOSE : OFF
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

- YES >> Front door switch circuit is OK.
NO >> Refer to [PWC-111. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005434286

Regarding Wiring Diagram information, refer to [PWC-332. "Wiring Diagram"](#).

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

Terminals		Door condition	Voltage (V) (Approx.)	
(+)	(-)			
BCM connector	Terminal			
M18	32	Front door RH	OPEN	0
			CLOSE	Battery voltage
	58	Front door LH	OPEN	0
			CLOSE	Battery voltage

Is the measurement value within the specification?

- YES >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect BCM and front door switch.
- Check continuity between BCM connector and front door switch connector.

BCM connector	Terminal	Front door switch connector	Terminal	Continuity
M18	32	RH: B108	2	Yes
	58	LH: B8		

- Check continuity between BCM connector and ground.

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

BCM connector	Terminal	Ground	Continuity
M18	32		Ground
	58		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

Terminal		(-)	Voltage (V) (Approx.)
(+)	Terminal		
BCM connector	Terminal	Ground	Battery voltage
M18	32		
		58	

Is the measurement value within the specification?

- YES >> GO TO 4
 NO >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).

4. CHECK FRONT DOOR SWITCH

Check front door switch.
 Refer to [PWC-112. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace front door switch.

Component Inspection

INFOID:000000005434287

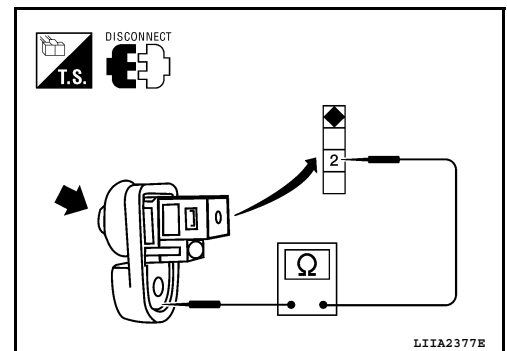
1. CHECK FRONT DOOR SWITCH

Check front door switches.

Terminal		Door switch	Continuity
Door switches			
2	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

- YES >> Front door switch is OK.
 NO >> Replace front door switch.



POWER WINDOW LOCK SWITCH

[LH ONLY ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

POWER WINDOW LOCK SWITCH

Description

INFOID:000000005434288

Ground circuit of main power window and door lock/unlock switch shuts off if power window lock switch of main power window and door lock/unlock switch is operated. This inhibits all operation, except for the main switch.

Component Function Check

INFOID:000000005434289

1. CHECK POWER WINDOW LOCK SIGNAL

Exchanges for a normal main power window and door lock/unlock switch, and operation is checked.

Does power window lock operate?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-163. "Removal and Installation"](#). After that, refer to [PWC-113. "Special Repair Requirement"](#).
- NO >> Check condition of harness and connector.

Special Repair Requirement

INFOID:000000005434290

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-83. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
- NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

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POWER WINDOW MAIN SWITCH

[LH ONLY ANTI-PINCH-SEDAN]

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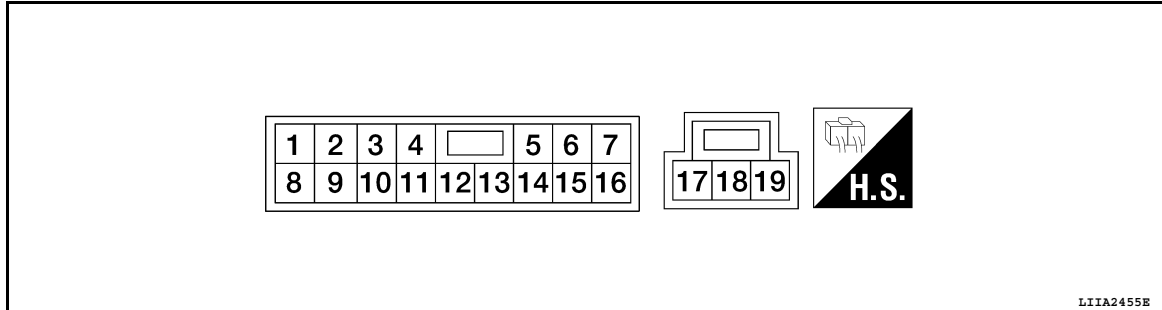
ECU DIAGNOSIS

POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000005434291

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

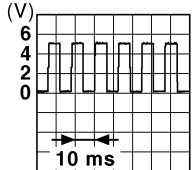
Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
1 (Y)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is operated UP.	Battery voltage
2 (G)	Ground	Encoder ground	—	—	0
3 (O)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is operated DOWN.	Battery voltage
5 (SB)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is operated DOWN.	Battery voltage
7 (P)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is operated UP.	Battery voltage
8 (BR)	11	Front power window motor RH UP signal	Output	When front RH switch in power window main switch is operated UP.	Battery voltage
9 (W)	2	Encoder pulse signal 2	Input	When power window mo- tor operates.	

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POWER WINDOW MAIN SWITCH

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
10 (V)	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 (L)	8	Front power window motor RH DOWN signal	Output	When front RH switch in power window main switch is operated DOWN.	Battery voltage
12 (LG)	16	Front power window motor LH DOWN signal	Output	When front LH switch in power window main switch is operated DOWN.	Battery voltage
13 (SB)	2	Encoder pulse signal 1	Input	When power window motor operates.	 <p style="text-align: right; font-size: small;">JMK1A0070GB</p>
15 (GR)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	10
16 (R)	12	Front power window motor LH UP signal	Output	When front LH switch in power window main switch is operated UP.	Battery voltage
17 (B)	Ground	Ground	—	—	0
19 (W)	Ground	Battery power supply	Input	—	Battery voltage

Fail Safe

INFOID:000000005434293

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).

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POWER WINDOW MAIN SWITCH

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

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
- Retained power function

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.

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005783603

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
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	Rear door RH closed	OFF
	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
	Rear door LH opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
	Power door lock switch LOCK	ON

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Monitor Item	Condition	Value/Status
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
HAZARD SW	When hazard switch is not pressed	OFF
	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
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	When LOCK button of Intelligent Key is not pressed	OFF
	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
	When outside of the vehicle is dark	Close to 0 V
REQ SW-DR	When driver door request switch is not pressed	OFF
	When driver door request switch is pressed	ON
REQ SW-AS	When passenger door request switch is not pressed	OFF
	When passenger door request switch is pressed	ON
REQ SW-BD/TR	When trunk request switch is not pressed	OFF
	When trunk request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
IGN RLY2-F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
	Ignition switch ACC or ON	ON
CLUTCH SW	When the clutch pedal is not depressed	OFF
	When the clutch pedal is depressed	ON

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Monitor Item	Condition	Value/Status	
BRAKE SW 1	When the brake pedal is not depressed	ON	A
	When the brake pedal is depressed	OFF	
DETE/CANCL SW	When selector lever is in P position	OFF	B
	When selector lever is in any position other than P	ON	
SFT PN/N SW	When selector lever is in any position other than P or N	OFF	C
	When selector lever is in P or N position	ON	
UNLK SEN-DR	Driver door UNLOCK status	OFF	D
	Driver door LOCK status	ON	
PUSH SW-IPDM	When engine switch (push switch) is not pressed	OFF	E
	When engine switch (push switch) is pressed	ON	
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF	F
	Ignition switch ON	ON	
DETE SW -IPDM	When selector lever is in P position	OFF	G
	When selector lever is in any position other than P	ON	
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF	H
	When selector lever is in P or N position	ON	
SFT P-MET	When selector lever is in any position other than P	OFF	I
	When selector lever is in P position	ON	
SFT N-MET	When selector lever is in any position other than N	OFF	J
	When selector lever is in N position	ON	
ENGINE STATE	Engine stopped	STOP	
	While the engine stalls	STALL	
	At engine cranking	CRANK	
	Engine running	RUN	
VEH SPEED 1	While driving	Equivalent to speedometer reading	
VEH SPEED 2	While driving	Equivalent to speedometer reading	PWC
DOOR STAT-DR	Driver door LOCK status	LOCK	L
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door UNLOCK status	UNLK	
DOOR STAT-AS	Passenger door LOCK status	LOCK	M
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door UNLOCK status	UNLK	
ID OK FLAG	Ignition switch ACC or ON	RESET	N
	Ignition switch OFF	SET	
PRMT ENG STAT	When the engine start is prohibited	RESET	O
	When the engine start is permitted	SET	
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF	P
	When Intelligent Key is inserted into key slot	ON	
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET	
	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
	The ID of first 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	When ID of front LH tire transmitter is registered	DONE
	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
	Tire pressure warning alarm is sounding	ON

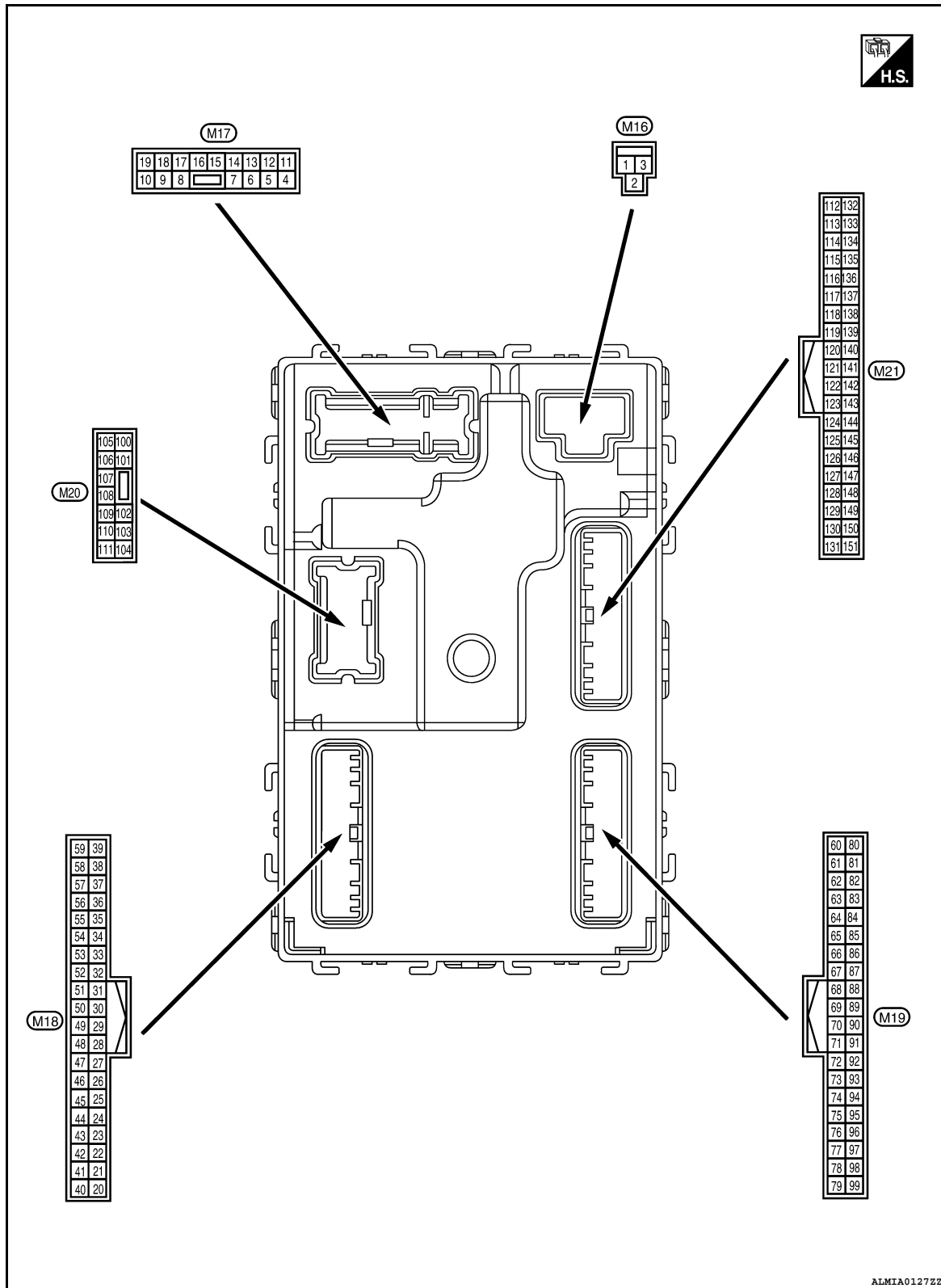
BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal Layout

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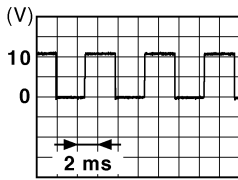
Physical Values

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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

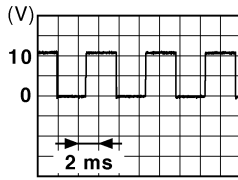
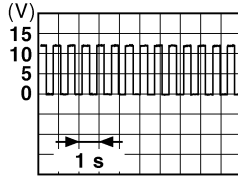
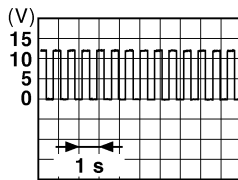
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	Battery voltage
4 (P/W)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
5 (G/Y)	Ground	Front door RH UNLOCK	Output	Front door RH UNLOCK (actuator is activated)	Battery voltage
				Other than UNLOCK (actuator is not activated)	0V
7 (R/W)	Ground	Step lamp	Output	Step lamp ON	0V
				OFF	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors LOCK (actuator is activated)	Battery voltage
				Other than LOCK (actuator is not activated)	0V
9 (G)	Ground	Front door LH UNLOCK	Output	Front door LH UNLOCK (actuator is activated)	Battery voltage
				Other than UNLOCK (actuator is not activated)	0V
10 ¹ (G/Y)	Ground	Rear door RH and rear door LH UNLOCK	Output	Rear door RH and rear door LH UNLOCK (actuator is activated)	Battery voltage
				Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON	0V
14 ⁶ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	0V
				OFF	0V
				ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right;">JSN1A0010GB</p>

BCM (BODY CONTROL MODULE)

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	0V
				ON	NOTE: When the illumination brightening/dimming level is in the neutral position 	
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
				ACC or ON	0V	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF	0V
				Turn signal switch RH		
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF	0V
				Turn signal switch LH		
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
				ON	0V	
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehicle is bright	Close to 5V
				When outside of the vehicle is dark	Close to 0V	
22 (R/Y)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (clutch pedal is not depressed)	0V
				ON (clutch pedal is depressed)	Battery voltage	
24 (R/W)	Ground	Stop lamp switch 1	Input	—	Battery voltage	
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
				ON (brake pedal is depressed)	Battery voltage	

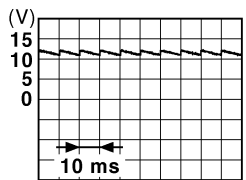
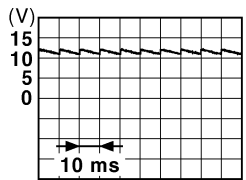
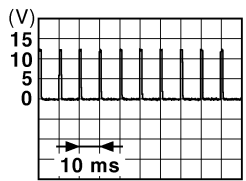
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

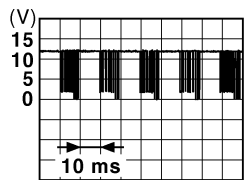
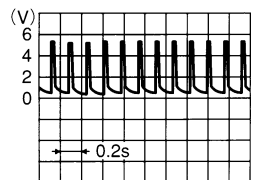

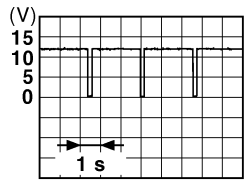
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	 11.8V
					UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	Battery voltage	
				When Intelligent Key is not inserted into key slot	0V	
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF	0
				ACC or ON	Battery voltage	
31 (G)	Ground	Rear window defogger feedback signal	Input	Rear window defogger switch	OFF	0V
					ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	 11.8 V
					ON (when front door RH opens)	0V
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF	9.0 - 12.0V
					ON	0V
34 ² (L/R)	Ground	Front door lock assembly LH (key cylinder switch) (unlock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (unlock)	0V
36 ² (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock	Battery voltage
					Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 1.1V
					ON	0V
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	OFF	5V
					ON	0V
39 ² (GR/R)	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery voltage
					Lock	0V

BCM (BODY CONTROL MODULE)

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		 10.2V
				Ignition switch OFF or ACC		0V
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination	ON	5.5V
					OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0V
					OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF	0V
					ACC or ON	5.0V
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position	12.0V
					Except P and N positions	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON	0V
					Blinking	 11.3V
					OFF	Battery voltage

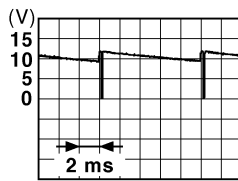
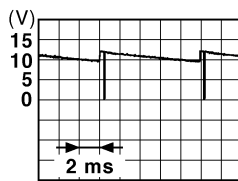
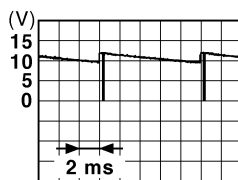
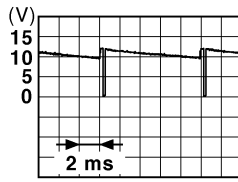
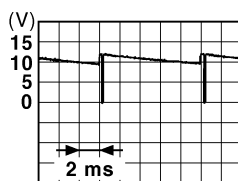
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

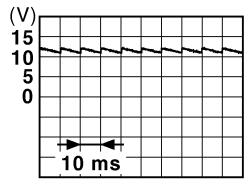
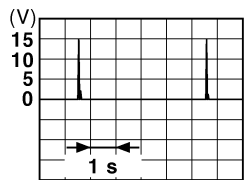
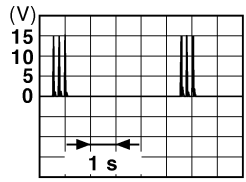
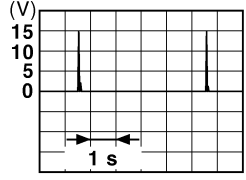
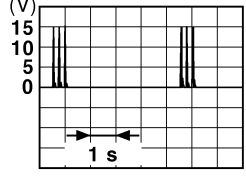
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0V
				Lighting switch 1ST	
				Lighting switch high-beam	
				Lighting switch 2ND	
				Turn signal switch RH	10.7V
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	All switch OFF (Wiper intermittent dial 4)	0V
				Front wiper switch HI (Wiper intermittent dial 4)	
				Any of the conditions below with all switch OFF	
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	All switch OFF (Wiper intermittent dial 4)	0V
				Front washer switch ON (Wiper intermittent dial 4)	
				Any of the conditions below with all switch OFF	
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	All switch OFF	0V
				Front wiper switch INT	
				Front wiper switch LO	
				Lighting switch AUTO	
				10.7V	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	All switch OFF	0V
				Front fog lamp switch ON	
				Lighting switch 2ND	
				Lighting switch flash-to-pass	
				Turn signal switch LH	10.7V
55 (BR/ W)	Ground	Front blower monitor	Input	Front blower motor switch	ON
				OFF	0V
					Battery voltage

BCM (BODY CONTROL MODULE)

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
56 ² (L/B)	Ground	Front door lock assembly LH (key cylinder switch) (lock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (lock)	0V
57 (W)	Ground	Tire pressure warning check switch	Input	—	—	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
					ON (front door LH OPEN)	0V
59 (G/R)	Ground	Rear window defogger relay	Output	Rear window defogger	Active	Battery voltage
					Not activated	0V
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

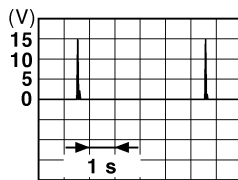
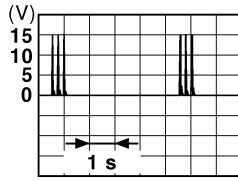
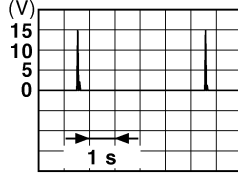
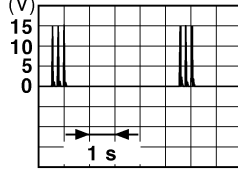
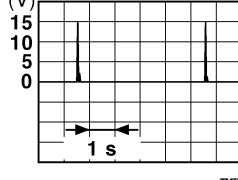
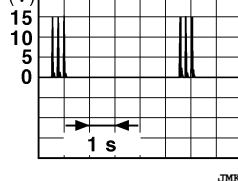
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

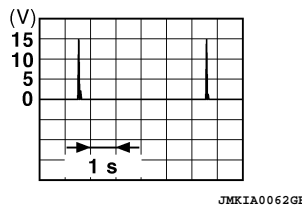
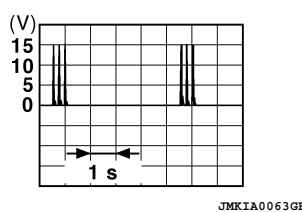
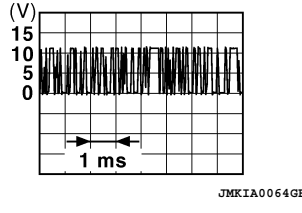
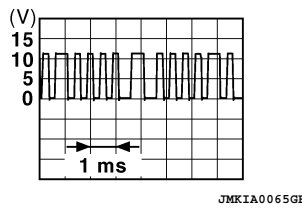
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
62 ⁴ (B/Y)	Ground	Front outside handle RH antenna (-)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
63 ⁴ (LG)	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
64 ⁴ (V)	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
65 ⁴ (P)	Ground	Front outside handle LH antenna (+)	Output	When the front door LH request switch is operat- ed with ignition switch OFF		
				When Intelligent Key is not in the antenna detection area		
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		
				When operating either button on Intelligent Key		


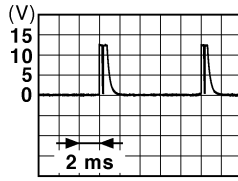

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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

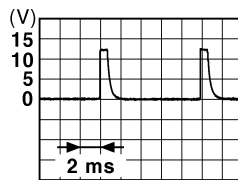
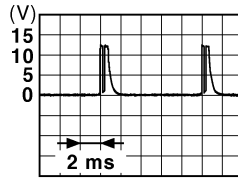
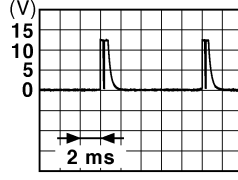
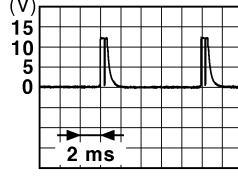
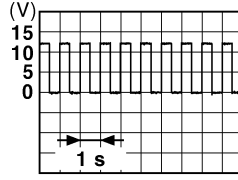
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
				Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
				Combination switch	Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
76 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0041GB</p> <p style="margin: 0;">1.4V</p> </div>
					Lighting switch high-beam (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0036GB</p> <p style="margin: 0;">1.3V</p> </div>
					Lighting switch 2ND (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0037GB</p> <p style="margin: 0;">1.3V</p> </div>
					Any of the conditions below with all switch OFF <ul style="list-style-type: none"> Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0040GB</p> <p style="margin: 0;">1.3V</p> </div>
78 (P)	Ground	CAN-L	Input/ Output	—	—
79 (L)	Ground	CAN-H	Input/ Output	—	—
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF 0V
				Blinking	<div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0015GB</p> <p style="margin: 0;">6.5V</p> </div>
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC 0V
					ON Battery voltage

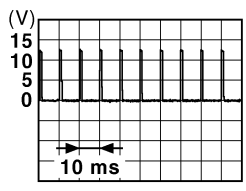
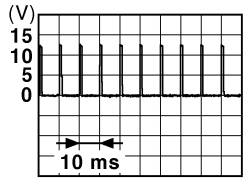
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

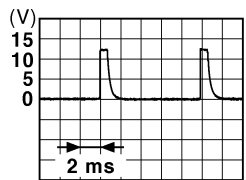

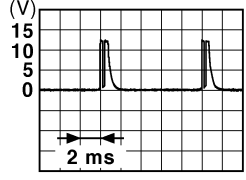
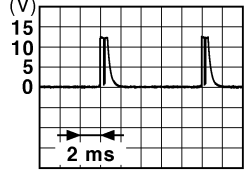
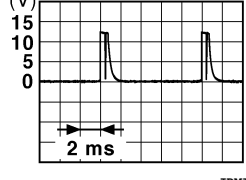
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0V
					ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output	—		Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 ⁴ (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
89 ⁴ (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
90 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

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


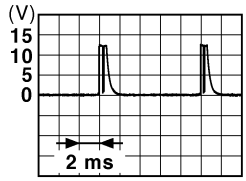
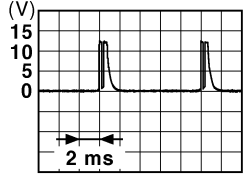
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

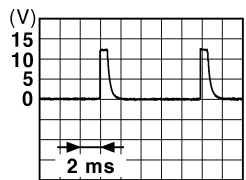

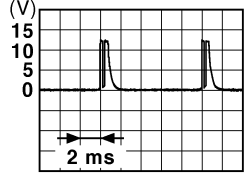
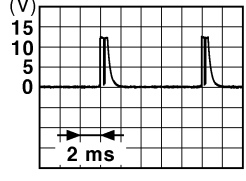

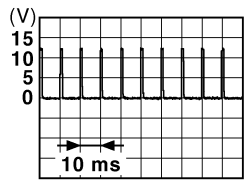
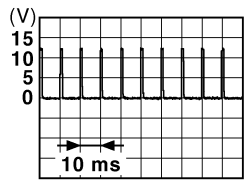
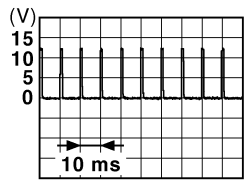
[LH ONLY ANTI-PINCH-SEDAN]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
				Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3V</p>
				Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
				Combination switch	Any of the conditions below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
		Signal name	Input/ Output				
(+)	(-)						
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p>	
					Lighting switch flash-to-pass	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p>	
					Lighting switch 2ND	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p>	
					Front wiper switch INT	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p>	
					Front wiper switch HI	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p>	
					Pressed	0 V	
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Not pressed</td> <td style="text-align: center;">  <p style="text-align: right; font-size: small;">JPMIA0012GB</p> </td> </tr> </table> </div> <div style="width: 50%; text-align: right;"> <p style="margin-top: 0;">1.1V</p> </div> </div>	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p>
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p>		

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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
103 (V)	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated) Battery voltage
				Close (trunk lid opener actuator is not activated) 0V	
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON 0V
				OFF Battery voltage	
114 (B)	Ground	Rear parcel shelf antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment JMKIA0062GB
				When Intelligent Key is not in the passenger compartment JMKIA0063GB	
115 (W)	Ground	Rear parcel shelf antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment JMKIA0062GB
				When Intelligent Key is not in the passenger compartment JMKIA0063GB	

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
118 ⁴ (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
119 ⁴ (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
127 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC
				ON	Battery voltage
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)
				ON (trunk is open)	0V

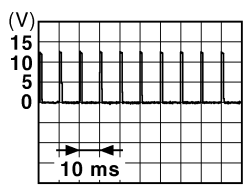
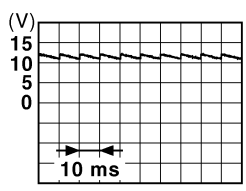
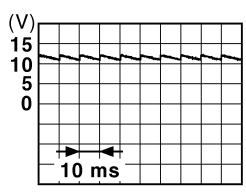
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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
132 (R)	Ground	Starter motor relay control	Output	Ignition switch OFF (M/T vehicle)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0V
				Ignition switch ON (other than M/T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0V
140 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
					Not pressed	Battery voltage
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
144 ⁴ (GR)	Ground	Intelligent Key warning buzzer	Output	Request switch buzzer	Sounding	0V
					Not sounding	Battery voltage
144 ⁵ (GR)	Ground	Outside warning buzzer	Output	Outside warning buzzer	Sounding	0V
					Not sounding	Battery voltage
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0V
					Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door RH opens)	0V
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door LH opens)	0V

1: Sedan

2: With LH front window anti-pinch

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

3: With LH and RH front window anti-pinch

4: With Intelligent Key

5: Without Intelligent Key

6: Coupe

Fail Safe

INFOID:000000005783606

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> Starter control relay signal Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> Power position changes to ACC Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> Power position changes to ACC Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> Status 1 <ul style="list-style-type: none"> Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 <ul style="list-style-type: none"> Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: OFF (Battery voltage)

DTC Inspection Priority Chart

INFOID:000000005783607

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

Priority	DTC
1	<ul style="list-style-type: none"> B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Priority	DTC
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING
4	<ul style="list-style-type: none"> • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2608: STARTER RELAY • B260A: IGNITION RELAY • B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RECIV • B26E8: CLUTCH SW • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • 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	<ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

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NOTE:

Details of time display

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	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 CIRCUIT	—	—	—	BCS-38, "Description"
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-39, "DTC Logic"
U0415: VEHICLE SPEED SIG	—	—	—	BCS-40, "Description"
B2190: NATS ANTENNA AMP	×	—	—	SEC-53, "Description" (Coupe) SEC-229, "Description" (Sedan with I-Key) SEC-399, "Description" (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	—	—	SEC-56, "Description" (Coupe) SEC-232, "Description" (Sedan with I-Key) SEC-402, "Description" (Sedan without I-Key)
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-57, "Description" (Coupe) SEC-233, "Description" (Sedan with I-Key) SEC-403, "Description" (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-58, "Description" (Coupe) SEC-234, "Description" (Sedan with I-Key) SEC-404, "Description" (Sedan without I-Key)
B2195: ANTI SCANNING	×	—	—	SEC-59, "Description" (Coupe) SEC-235, "Description" (Sedan with I-Key) SEC-405, "Description" (Sedan without I-Key)
B2553: IGNITION RELAY	—	—	—	PCS-61, "Description"
B2555: STOP LAMP	—	—	—	SEC-60, "Description" (Coupe) SEC-236, "Description" (Sedan with I-Key) SEC-406, "Description" (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	—	×	—	SEC-63, "Description" (Coupe) SEC-239, "Description" (Sedan with I-Key) SEC-409, "Description" (Sedan without I-Key)
B2557: VEHICLE SPEED	—	×	—	SEC-65, "Description" (Coupe) SEC-241, "Description" (Sedan with I-Key) SEC-411, "Description" (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2560: STARTER CONT RELAY	×	×	—	SEC-66, "Description" (Coupe) SEC-242, "Description" (Sedan with I-Key) SEC-412, "Description" (Sedan without I-Key)
B2562: LOW VOLTAGE	×	—	—	BCS-41, "DTC Logic"
B2601: SHIFT POSITION	—	×	—	SEC-67, "Description" (Coupe) SEC-243, "Description" (Sedan with I-Key) SEC-413, "Description" (Sedan without I-Key)
B2602: SHIFT POSITION	—	×	—	SEC-71, "Description" (Coupe) SEC-246, "Description" (Sedan with I-Key) SEC-416, "Description" (Sedan without I-Key)
B2603: SHIFT POSI STATUS	—	×	—	SEC-74, "Description" (Coupe) SEC-249, "Description" (Sedan with I-Key) SEC-419, "Description" (Sedan without I-Key)
B2604: PNP SW	—	×	—	SEC-77, "Description" (Coupe) SEC-252, "Description" (Sedan with I-Key) SEC-422, "Description" (Sedan without I-Key)
B2605: PNP SW	—	×	—	SEC-79, "Description" (Coupe) SEC-254, "Description" (Sedan with I-Key) SEC-424, "Description" (Sedan without I-Key)
B2608: STARTER RELAY	×	×	—	SEC-81, "Description" (Coupe) SEC-256, "Description" (Sedan with I-Key) SEC-426, "Description" (Sedan without I-Key)
B260A: IGNITION RELAY	×	×	—	PCS-63, "Description"
B260F: ENG STATE SIG LOST	×	×	—	SEC-83, "Description" (Coupe) SEC-258, "Description" (Sedan with I-Key) SEC-428, "Description" (Sedan without I-Key)
B2614: ACC RELAY CIRC	—	×	—	PCS-66, "Description"
B2615: BLOWER RELAY CIRC	—	×	—	PCS-69, "Description"
B2616: IGN RELAY CIRC	—	×	—	PCS-72, "Description"
B2617: STARTER RELAY CIRC	×	×	—	SEC-87, "Description" (Coupe) SEC-262, "Description" (Sedan with I-Key) SEC-432, "Description" (Sedan without I-Key)
B2618: BCM	×	×	—	PCS-75, "Description"
B261A: PUSH-BTN IGN SW	—	×	—	SEC-90, "Description" (Coupe) SEC-265, "Description" (Sedan with I-Key) SEC-435, "Description" (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	SEC-89, "Description" (Coupe) SEC-264, "Description" (Sedan with I-Key) SEC-434, "Description" (Sedan without I-Key)
B2622: INSIDE ANTENNA	—	—	—	DLK-60, "Description" (Coupe) DLK-283, "Description" (Sedan with I-Key) DLK-484, "Description" (Sedan without I-Key)
B2623: INSIDE ANTENNA	—	—	—	DLK-63, "Description" (Coupe) DLK-286, "Description" (Sedan with I-Key) DLK-487, "Description" (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	—	SEC-92, "Description" (Coupe) SEC-267, "Description" (Sedan with I-Key) SEC-437, "Description" (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	—	SEC-84, "Description" (Coupe) SEC-259, "Description" (Sedan with I-Key) SEC-429, "Description" (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	—	SEC-86, "Description" (Coupe) SEC-261, "Description" (Sedan with I-Key) SEC-431, "Description" (Sedan without I-Key)
C1704: LOW PRESSURE FL	—	—	×	WT-44, "Self-Diagnosis (With CONSULT-III)"
C1705: LOW PRESSURE FR	—	—	×	
C1706: LOW PRESSURE RR	—	—	×	
C1707: LOW PRESSURE RL	—	—	×	
C1708: [NO DATA] FL	—	—	×	WT-14, "Description"
C1709: [NO DATA] FR	—	—	×	
C1710: [NO DATA] RR	—	—	×	
C1711: [NO DATA] RL	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	×	WT-16, "Description"
C1713: [CHECKSUM ERR] FR	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	×	WT-18, "Description"
C1717: [PRESSDATA ERR] FR	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	×	

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BCM (BODY CONTROL MODULE)

[LH ONLY ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1720: [CODE ERR] FL	—	—	×	WT-16, "Description"
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	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	×	WT-19, "Description"
C1734: CONTROL UNIT	—	—	×	WT-20, "Description"

POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-SEDAN]

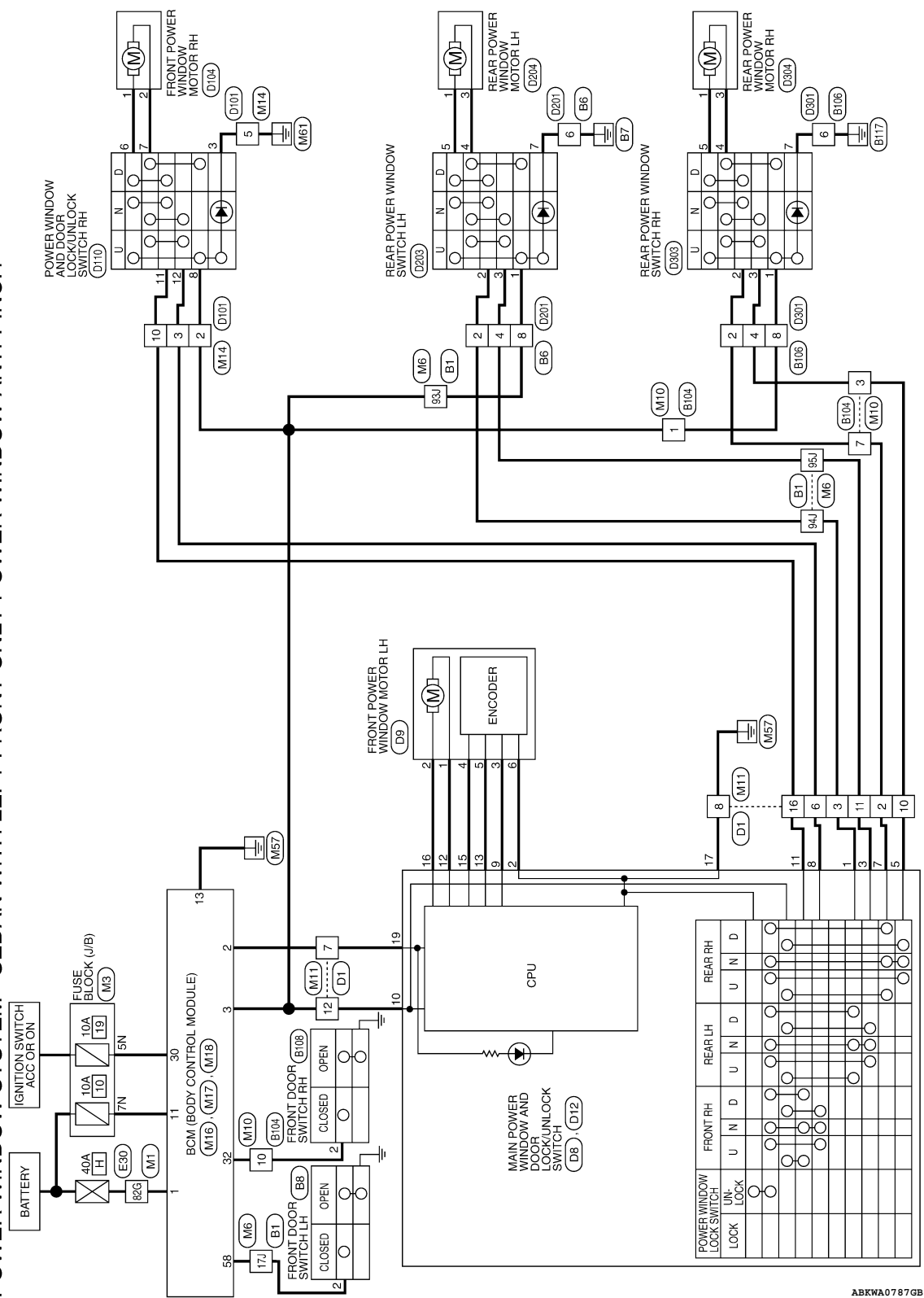
WIRING DIAGRAM

POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

Wiring Diagram

INFOID:000000005434464

POWER WINDOW SYSTEM - SEDAN WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH



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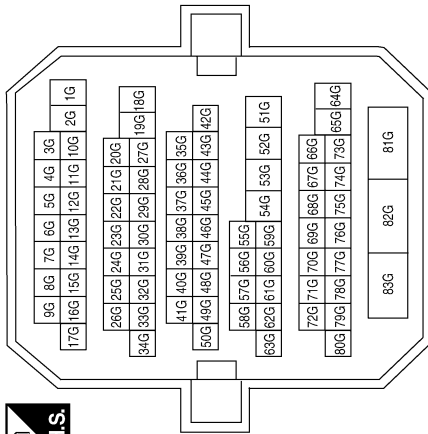
POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-SEDAN]

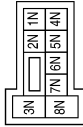
POWER WINDOW SYSTEM CONNECTORS - SEDAN WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



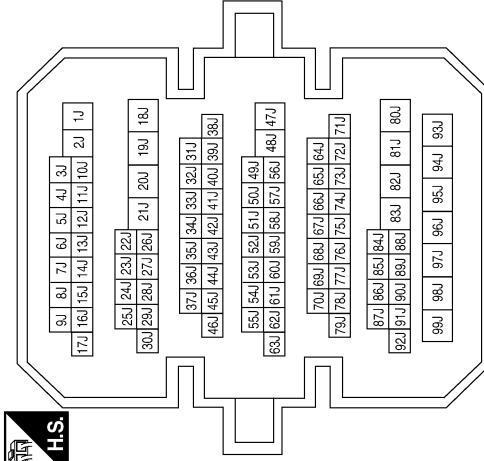
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5N	V/Y	-
7N	Y/R	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



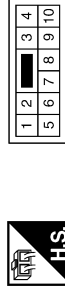
Terminal No.	Color of Wire	Signal Name
17J	SB	-
93J	L/W	-
94J	G/B	-
95J	G/O	-

POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-SEDAN]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	L/W	-
3	R/B	-
5	B	-
10	R/W	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	G/W	-
3	G/B	-
6	R/B	-
7	R/Y	-
8	B	-
10	G/R	-
11	G/O	-
12	L/W	-
16	R/W	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	L/W	-
3	G/R	-
7	G/W	-
10	R/B	-

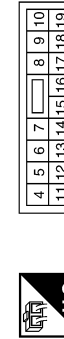
Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name
30	V/Y	ACC F/B
32	R/B	AS DOOR SW
58	SB	DR DOOR SW

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT BCM FUSE
13	B	GND1

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L
2	R/Y	P/W_POWER_SUPPLY_PERM
3	L/W	POWER_WINDOW_POWER_SUPPLY (RAP)

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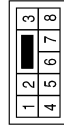
PWC

POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

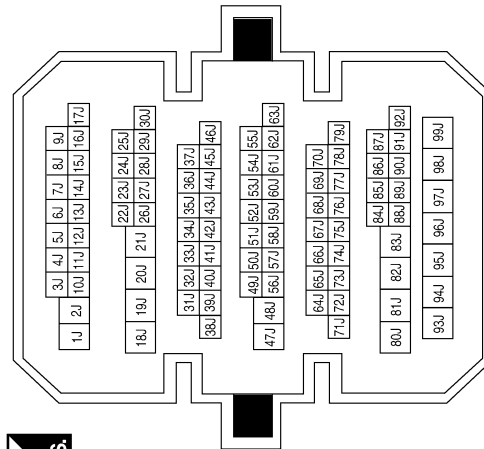
[LH ONLY ANTI-PINCH-SEDAN]

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



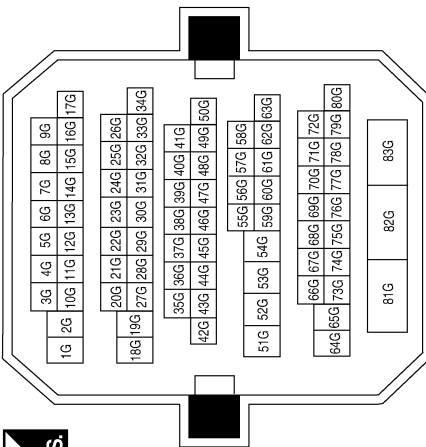
Terminal No.	Color of Wire	Signal Name
2	P	-
4	SB	-
6	B	-
8	R	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17J	SB	-
93J	R	-
94J	P	-
95J	SB	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
82G	LG	-

ABKIA2206GB

POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

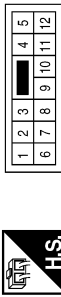
[LH ONLY ANTI-PINCH-SEDAN]

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



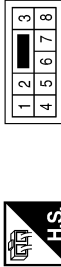
Terminal No.	Color of Wire	Signal Name
2	SB	-

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R	-
3	SB	-
7	W	-
10	GR	-

Connector No.	B106
Connector Name	WIRE TO WIRE
Connector Color	WHITE



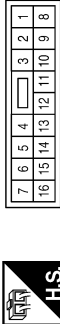
Terminal No.	Color of Wire	Signal Name
2	W	-
4	SB	-
6	B/W	-
8	R	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	P	-
3	Y	-
6	BR	-
7	W	-
8	B	-
10	SB	-
11	O	-
12	V	-
16	L	-

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	B	GND
19	W	BAT

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ABKIA2207GB

POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH ONLY ANTI-PINCH-SEDAN]

Terminal No.	Color of Wire	Signal Name
1	Y	RL UP
2	G	ENCODER GND
3	O	RL-DOWN
5	SB	RR DOWN
7	P	RR UP
8	BR	AS UP
9	W	ENCODER SIG2
10	V	IGN
11	L	AS DOWN
12	LG	DR DOWN
13	SB	ENCODER SIG1
15	GR	ENCODER POWER
16	R	DR UP

Connector No.	D12
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (SEDAN WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE

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



Connector No.	D9
Connector Name	FRONT POWER WINDOW MOTOR LH
Connector Color	WHITE

1	2
3	4
5	6



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	R	-
3	W	-
4	GR	-
5	SB	-
6	G	-

Connector No.	D110
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
3	B	GND
6	LG	DOWN
7	L	UP
8	SB	IGN
11	O	DOWN
12	W	UP

Connector No.	D104
Connector Name	FRONT POWER WINDOW MOTOR RH
Connector Color	WHITE

1	2
3	4
5	6



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	L	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

1	2	3	4
5	6	7	8
9	10		



Terminal No.	Color of Wire	Signal Name
2	SB	-
3	W	-
5	B	-
10	O	-

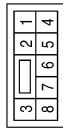
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POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

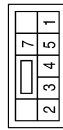
[LH ONLY ANTI-PINCH-SEDAN]

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



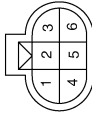
Terminal No.	Color of Wire	Signal Name
2	P	-
4	SB	-
6	B	-
8	R	-

Connector No.	D203
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Color	WHITE



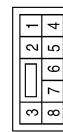
Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	P	UP
3	SB	DOWN
4	LG	DOWN
5	L	UP
7	B	GND

Connector No.	D204
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Color	GREEN



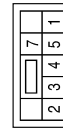
Terminal No.	Color of Wire	Signal Name
1	L	-
3	LG	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



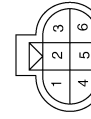
Terminal No.	Color of Wire	Signal Name
2	P	-
4	SB	-
6	B	-
8	R	-

Connector No.	D303
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	P	UP
3	SB	DOWN
4	LG	DOWN
5	L	UP
7	B	GND

Connector No.	D304
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	L	-
3	LG	-

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PRECAUTION

PRECAUTIONS

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

INFOID:000000005789693

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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.

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000005434303

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-42, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check main power window and door lock/unlock switch power supply and ground circuit.

Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434304

1. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to [PWC-101, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434305

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Refer to [PWC-96, "FRONT POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH circuit.

Refer to [PWC-103, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434306

1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-98, "REAR POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-104, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434307

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-98, "REAR POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-106, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434308

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434309

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-91, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000005434310

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [PWC-111, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000005434311

1. REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Replace main power window and door lock/unlock switch.

Refer to [PWC-163, "Removal and Installation"](#). After that, [PWC-96, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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PWC

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

[LH ONLY ANTI-PINCH-SEDAN]

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000005434312

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.
2. Check the following parts.
 - Fuse/circuit breaker blown.
 - Poor connection, open or short circuit of harness connector.
 - Battery voltage.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace the malfunctioning parts.

POWER WINDOW MAIN SWITCH

< ON-VEHICLE REPAIR >

[LH ONLY ANTI-PINCH-SEDAN]

ON-VEHICLE REPAIR

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:000000005789700

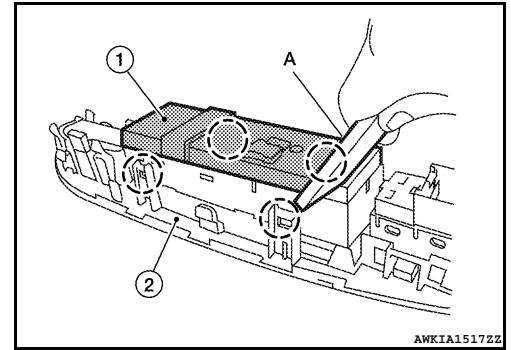
REMOVAL

1. Remove the power window main switch finisher (2) from the door finisher, refer to [INT-30. "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the power window main switch (1) from the switch finisher (2).

⊖; Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

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FRONT POWER WINDOW SWITCH

< ON-VEHICLE REPAIR >

[LH ONLY ANTI-PINCH-SEDAN]

FRONT POWER WINDOW SWITCH

Removal and Installation

INFOID:000000005789701

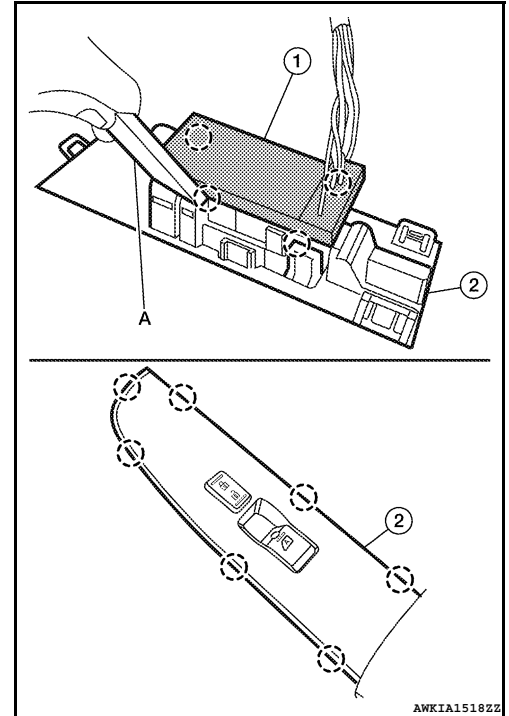
REMOVAL

1. Remove the front power window switch finisher (2) from the front door finisher RH. Refer to [INT-30, "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the front power window switch (1) from the switch finisher (2).

○: Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

REAR POWER WINDOW SWITCH

< ON-VEHICLE REPAIR >

[LH ONLY ANTI-PINCH-SEDAN]

REAR POWER WINDOW SWITCH

Removal and Installation - Rear Door Switch

INFOID:000000005789702

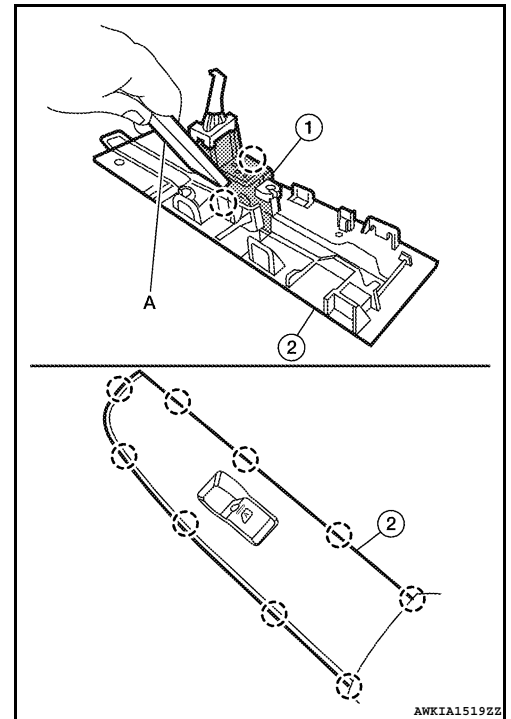
REMOVAL

1. Remove the rear power window switch finisher (2) from the rear door finisher. Refer to [INT-30. "Exploded View"](#).
2. Release the tab (one on each side) with a suitable tool (A), then separate the rear power window switch (1) from the switch finisher (2).

○: Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH&RH FRONT ANTI-PINCH-COUPÉ]

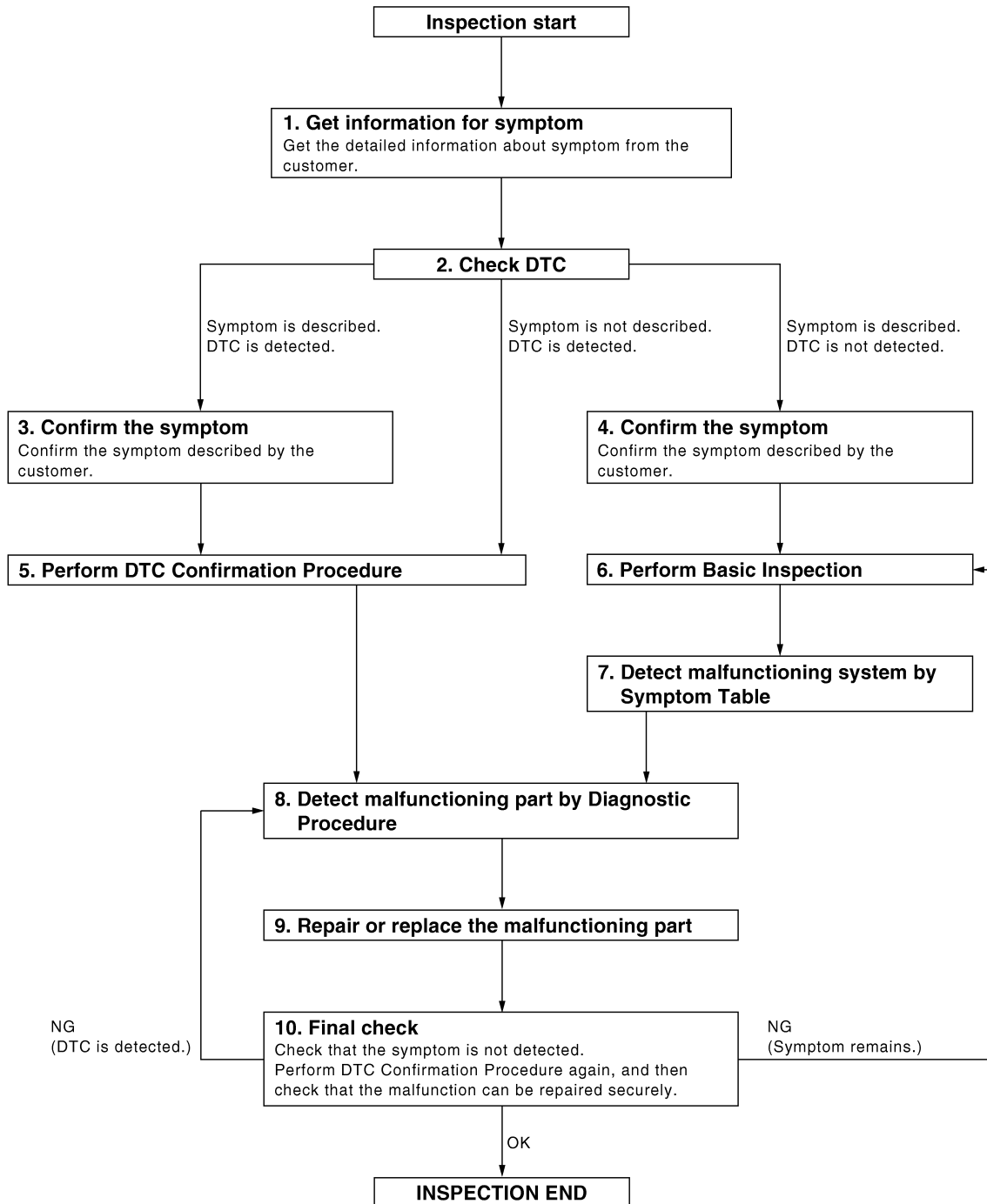
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005434314

OVERALL SEQUENCE



DETAILED FLOW

JMKIA0101GB

DIAGNOSIS AND REPAIR WORKFLOW

[LH&RH FRONT ANTI-PINCH-COUCPE]

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2. CHECK DTC

1. Check DTC.
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>>GO TO 3
- Symptom is described, DTC is not displayed>>GO TO 4
- Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to [BCS-70, "DTC Index"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check. If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

- YES >> GO TO 8
- NO >> Refer to [GI-41, "Intermittent Incident"](#).

6. PERFORM BASIC INSPECTION

Perform [PWC-166, "Work Flow"](#).

Inspection End>>GO TO 7

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 8

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH&RH FRONT ANTI-PINCH-COUCPE]

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 9

NO >> Check voltage of related BCM terminals using CONSULT-III.

9. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

>> GO TO 10

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8

YES (Symptom remains)>>GO TO 6

NO >> Inspection End.

INSPECTION AND ADJUSTMENT

[LH&RH FRONT ANTI-PINCH-COUCPE]

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000005434315

Initial setting is necessary when battery terminal is disconnected.

CAUTION:

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

- Auto-up operation
- Anti-pinch function
- Retained power operation

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000005434316

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds 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-202, "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. Retained power operation when ignition switch is OFF.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005434317

Initial setting is necessary when replacing main power window and door lock/unlock switch.

CAUTION:

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

- Auto-up operation
- Anti-pinch function
- Retained power operation

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000005434318

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more.

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INSPECTION AND ADJUSTMENT

[LH&RH FRONT ANTI-PINCH-COUPE]

< BASIC INSPECTION >

2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds without pinching piece of wood and stops.
 - Check that glass does not rise when operating the main power window and door lock/unlock 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-202, "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. Retained power operation when ignition switch is OFF.

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

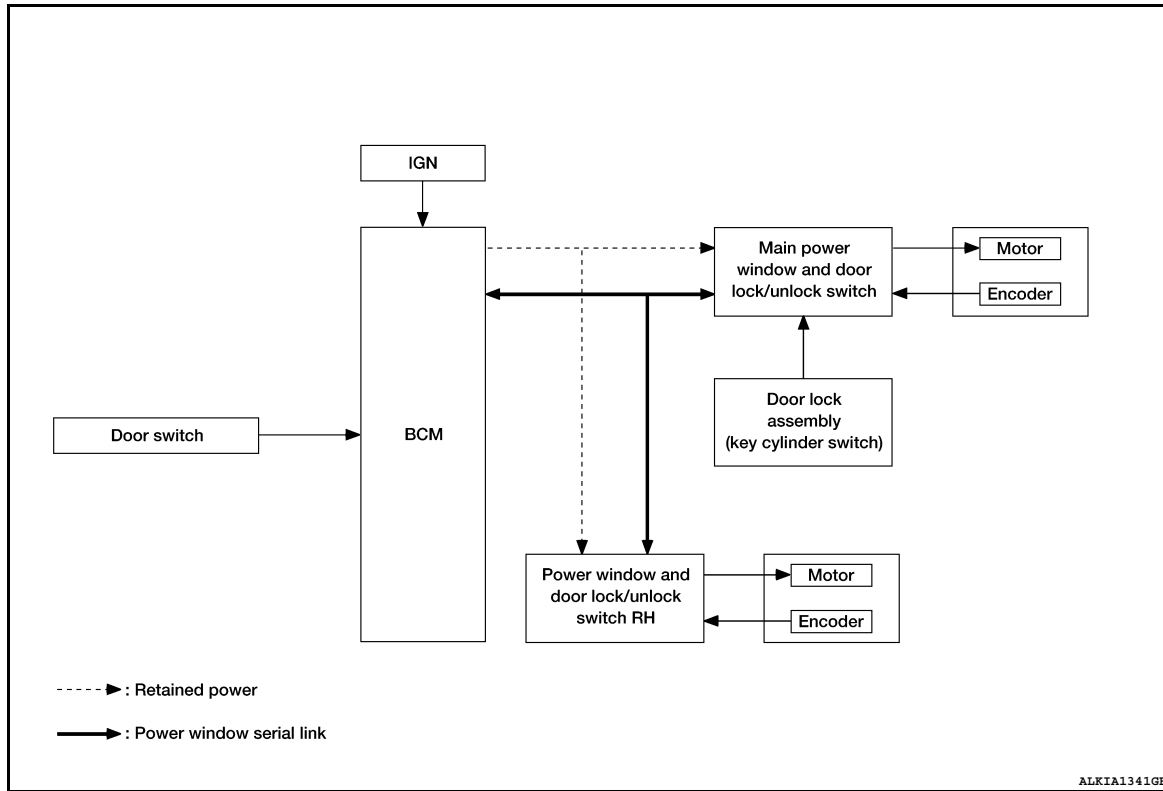
FUNCTION DIAGNOSIS

POWER WINDOW SYSTEM

System Diagram

INFOID:000000005434319

POWER WINDOW ANTI-PINCH SYSTEM



System Description

INFOID:000000005434320

POWER WINDOW MAIN SWITCH INPUT/OUTPUT SIGNAL CHART

PWC

Item	Input signal to main power window and door lock/unlock switch	Main power window and door lock/unlock switch function	Actuator
Key cylinder switch	LOCK/UNLOCK signal (more than 1.5 seconds over)	Power window control	Front power window motor
Encoder	Encoder pulse signal		
Main power window and door lock/unlock switch	Power window motor LH UP/DOWN signal		
Power window and door lock/unlock switch RH	Power window motor RH UP/DOWN signal		
BCM	RAP signal		

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH INPUT/OUTPUT SIGNAL CHART

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Item	Input signal to front power window switch	Front power window switch function	Actuator
Power window and door lock/unlock switch RH	Power window motor RH UP/DOWN signal	Power window control	Front power window motor RH
Encoder	Encoder pulse signal		
BCM	RAP signal		

POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Main power window and door lock/unlock switch can open/close all windows.
- Power window and door lock unlock switch RH can open/close the corresponding window.

POWER WINDOW AUTO-OPERATION (LH & RH)

- AUTO UP/DOWN operation can be performed when main power window and door lock/unlock switch & power window and door lock/unlock switch RH turns to AUTO.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Power window switch reads the changes of encoder signal and stops AUTO operation when door glass is at fully opened/closed position.
- Power window motor is operable in case encoder is malfunctioning.

RETAINED POWER OPERATION

- Retained power operation is an additional power supply function that enables power window system to operate during the 45 seconds even when ignition switch is turned OFF

Retained power function cancel conditions

- Door CLOSE (door switch OFF)→OPEN (door switch ON).
- When ignition switch is ON.
- When timer time passes. (45 seconds)

POWER WINDOW LOCK

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

ANTI-PINCH OPERATION (LH & RH)

- Pinch foreign material in the door glass during AUTO-UP operation, and it is 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 to the LOCK or UNLOCK direction for more than 1 second to OPEN or CLOSE front 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 to LOCK position for more than 1 second to perform CLOSE operation of the door glass.

POWER WINDOW SYSTEM

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< FUNCTION DIAGNOSIS >

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

KEYLESS POWER WINDOW DOWN OPERATION (LH & RH)

Front power windows open when the unlock button on Intelligent Key is activated and kept pressed for more than 3^(NOTE) 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 unlock button is kept pressed more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

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

NOTE:

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUPPORT". Refer to [BCS-18, "COMMON ITEM : CONSULT-III Function"](#).

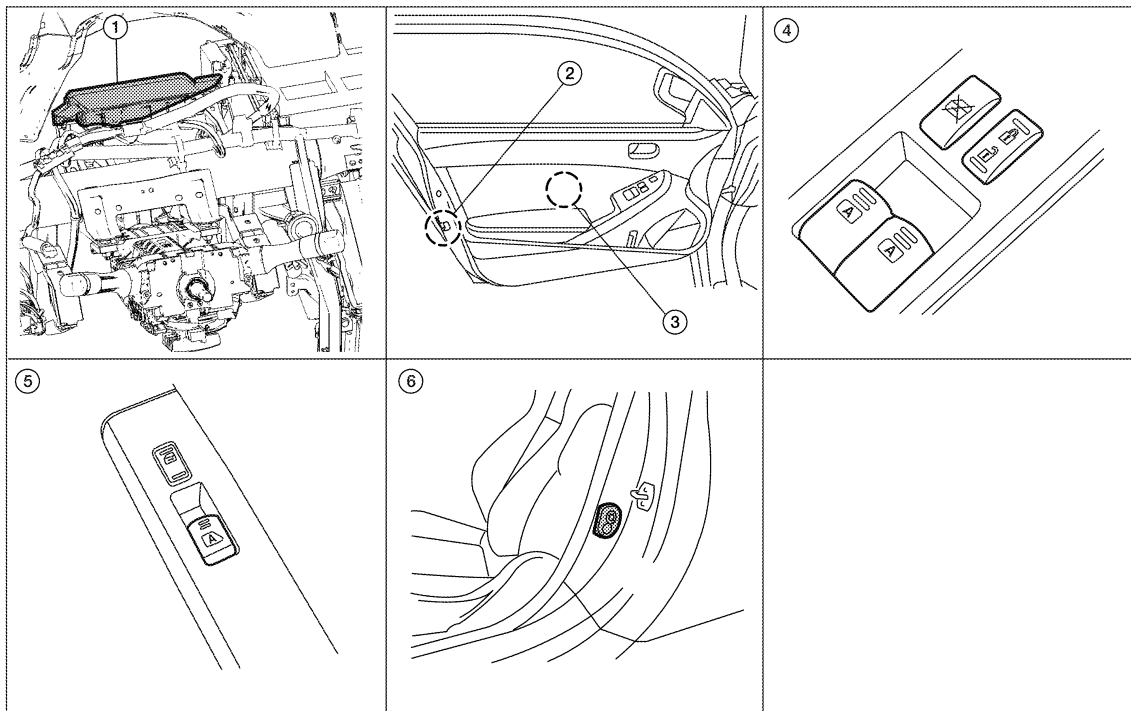
NOTE:

Use CONSULT-III to change settings.

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

Component Parts Location

INFOID:000000005434321



- | | | |
|---|---|---------------------------------------|
| 1. BCM M16, M17, M18 (view with instrument panel removed) | 2. Door lock assembly LH (key cylinder switch) D26 | 3. Power window motor LH D18, RH D111 |
| 4. Main power window and door lock/unlock switch D28 | 5. Power window and door lock/unlock switch LH B68, RH B109 | 6. Front door switch LH B68, RH B109 |

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Component Description

INFOID:000000005434322

POWER WINDOW ANTI-PINCH SYSTEM

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Component	Function
BCM	<ul style="list-style-type: none">• Supplies power to power window switches.• Controls retained power.
Main power window and door lock/unlock switch	<ul style="list-style-type: none">• Directly controls all power window motor of all doors.• Controls anti-pinch operation of power window LH.
Power window and door lock/unlock switch RH	<ul style="list-style-type: none">• Controls front power window motor RH.• Controls anti-pinch operation of power window RH.
Power window motor LH	<ul style="list-style-type: none">• Integrates the ENCODER POWER and WINDOW MOTOR.• Starts operating with signals from main power window and door lock/unlock switch.• Transmits power window motor rotation as a pulse signal to main power window and door lock/unlock switch.
Power window motor RH	Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH.
Door lock assembly LH (key cylinder switch)	Transmits operation condition of key cylinder switch to main power window and door lock/unlock switch.
Door switch LH or RH	Detects door open/close condition and transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

[LH&RH FRONT ANTI-PINCH-COUPE]

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : Diagnosis Description

INFOID:000000005783619

BCM CONSULT-III FUNCTION

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 MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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	×	×	×
Remote keyless entry system ¹	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system ²	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	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	AIR PRESSURE MONITOR	×	×	×

1 : With remote keyless entry system

2: With intelligent Key system

COMMON ITEM : CONSULT-III Function

INFOID:000000005783620

ECU IDENTIFICATION

DIAGNOSIS SYSTEM (BCM)

[LH&RH FRONT ANTI-PINCH-COUPE]

< FUNCTION DIAGNOSIS >

Displays the BCM part No.

SELF-DIAG RESULT

Refer to [BCS-70, "DTC Index"](#).

RETAINED PWR

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

INFOID:000000005783621

Data monitor

Monitor Item [Unit]	Description
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH.
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH.

POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000005434326

- BCM supplies power.
- It operates each power window motor via corresponding power window switch and makes window move up/down when main power window and door lock/unlock switch is operated.

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000005434327

Main Power Window And Door Lock/Unlock Switch

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Does power window motor operate with main power window and door lock/unlock switch operation?

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch power supply and ground circuit are OK.
 NO >> Refer to [PWC-177, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000005434328

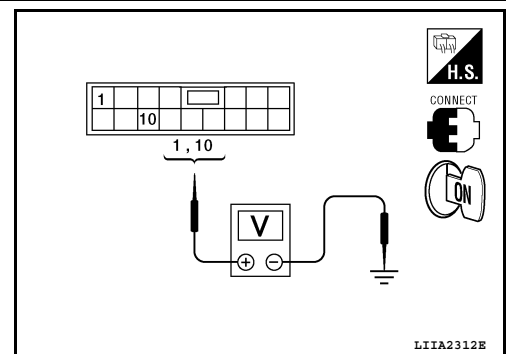
Regarding Wiring Diagram information, refer to [PWC-233, "Wiring Diagram"](#).

Main Power Window And Door Lock/Unlock Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connectors and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Main power window and door lock/unlock switch connector	Terminal		
D28	1	Ground	Battery voltage
	10		



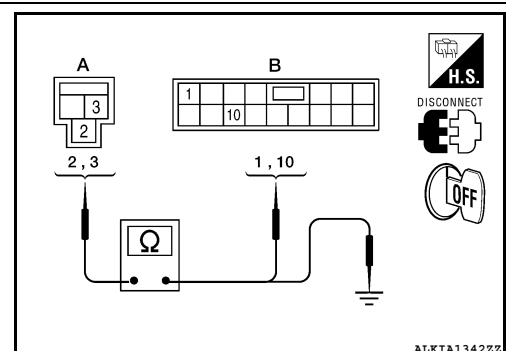
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and main power window and door lock/unlock switch.
3. Check continuity between BCM connector (A) and main power window and door lock/unlock switch connectors (B).

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M16 (A)	3	D28 (B)	10	Yes
	2		1	



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POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16	3		Ground
	2		

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D28	15		Ground

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252, "Removal and Installation"](#). After that, refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector and ground.

Terminals		(-)	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	Ground	Battery voltage
M16	3		
		2	

Is the measurement value within the specification?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252, "Removal and Installation"](#). After that, refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).
- NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

POWER WINDOW MAIN SWITCH : Special Repair Requirement

INFOID:000000005434329

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

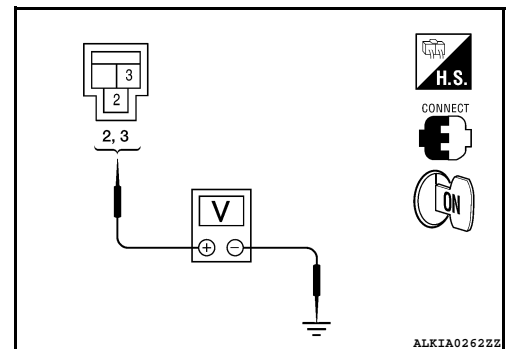
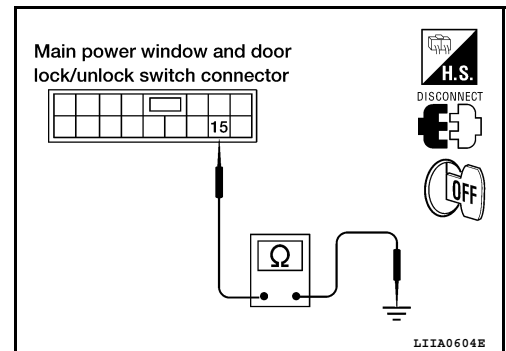
Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.



POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

Refer to [PWC-169. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Refer to [PWC-185. "DRIVER SIDE : Component Function Check"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005434330

- BCM supplies power.
- Power window motor RH will be operated if power window and door lock/unlock switch RH is operated.

PASSENGER SIDE : Component Function Check

INFOID:000000005434331

Power Window And Door Lock/Unlock Switch RH

1. CHECK POWER WINDOW MOTOR RH FUNCTION

Does power window motor RH operate with power window and door lock/unlock switch RH operation?

Is the inspection result normal?

YES >> Power window and door lock/unlock switch RH power supply and ground circuit are OK.

NO >> Refer to [PWC-179. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005434332

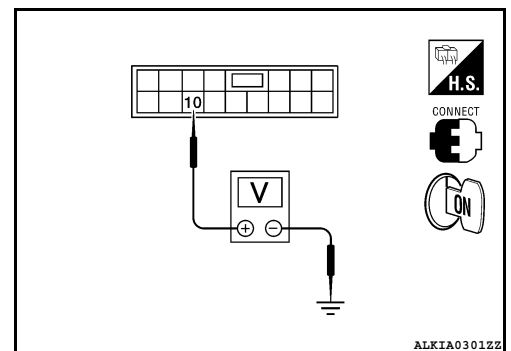
Regarding Wiring Diagram information, refer to [PWC-233. "Wiring Diagram"](#).

Power Window And Door Lock/Unlock Switch RH Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

Check voltage between power window and door lock/unlock switch RH connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Power window and door lock/unlock switch RH connector	Terminal		
D105	10	Ground	Battery voltage



Is the measurement value within the specification?

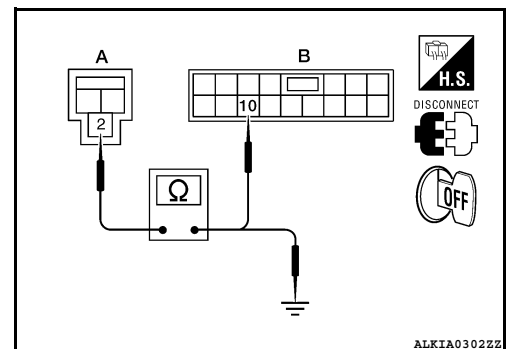
YES >> GO TO 3

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and power window and door lock/unlock switch RH.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M16 (A)	2	D105 (B)	10	Yes



4. Check continuity between BCM connector (A) and ground.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

BCM connector	Terminal	Ground	Continuity
M16 (A)	2		No

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH	Terminal	Ground	Continuity
D105	11		Yes

Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-253, "Removal and Installation"](#). After that, refer to [PWC-180, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector and ground.

Terminals		(-)	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	Ground	Battery voltage
M16	2		

Is the measurement value within the specification?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-253, "Removal and Installation"](#). After that, refer to [PWC-180, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

PASSENGER SIDE : Special Repair Requirement

INFOID:000000005434333

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

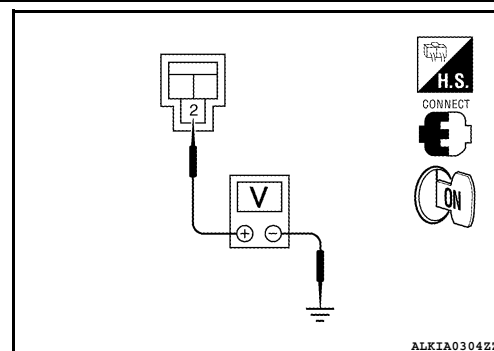
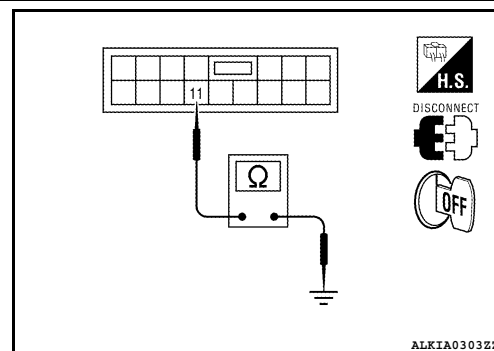
2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
- NO >> Refer to [PWC-187, "PASSENGER SIDE : Component Function Check"](#).



POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434334

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

DRIVER SIDE : Component Function Check

INFOID:000000005434335

1. CHECK POWER WINDOW MOTOR CIRCUIT

Does power window motor LH operate with operating main power window and door lock/unlock switch?

Is the inspection result normal?

- YES >> Power window motor LH is OK.
- NO >> Refer to [PWC-181, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434336

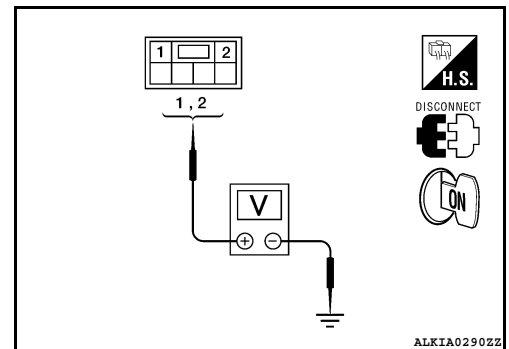
Regarding Wiring Diagram information, refer to [PWC-233, "Wiring Diagram"](#).

Power Window Motor LH Circuit Check

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

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

Terminal (+)		Terminal (-)	Main power window and door lock/unlock switch condition	Voltage (V) (Approx.)
Power window motor LH connector	Terminal			
D18	2	Ground	UP	Battery voltage
			DOWN	0
	1		UP	0
			DOWN	Battery voltage



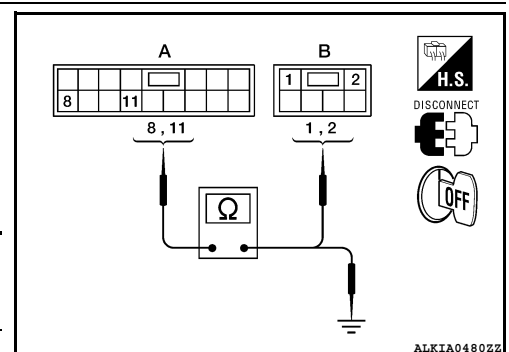
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor connector LH (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D28 (A)	8	D18 (B)	2	Yes
	11		1	



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POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D28 (A)	8		Ground
	11		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252, "Removal and Installation"](#). After that, refer to [PWC-178, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR

Check power window motor LH.

Refer to [PWC-182, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-182, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Component Inspection

INFOID:000000005434337

COMPONENT INSPECTION

1. CHECK POWER WINDOW MOTOR LH

Does motor operate by connecting the battery voltage directly to power window motor?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

YES >> Power window motor LH is OK.

NO >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-182, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000005434338

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to [PWC-185, "DRIVER SIDE : Component Function Check"](#).

PASSENGER SIDE

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:000000005434339

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or power window and door lock/unlock switch RH.

PASSENGER SIDE : Component Function Check

INFOID:000000005434340

1. CHECK POWER WINDOW MOTOR CIRCUIT

Does power window motor operate with operating main power window and door lock/unlock switch or power window and door lock/unlock switch RH?

Is the inspection result normal?

- YES >> Power window motor RH is OK.
- NO >> Refer to [PWC-183. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005434341

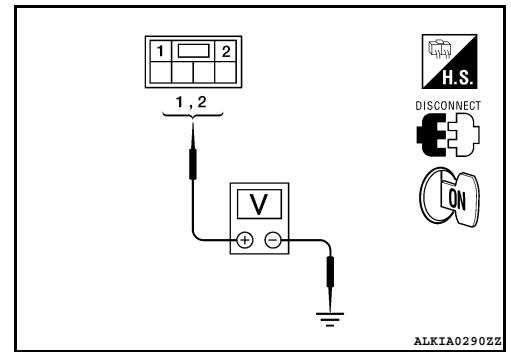
Regarding Wiring Diagram information, refer to [PWC-233. "Wiring Diagram"](#).

Power Window Motor RH Circuit Check

1. CHECK POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

Terminal (+)		Terminal (-)	Power window motor RH condition	Voltage (V) (Approx.)
Power window motor RH connector	Terminal			
D111	2	Ground	UP	Battery voltage
			DOWN	0
	1		UP	0
			DOWN	Battery voltage



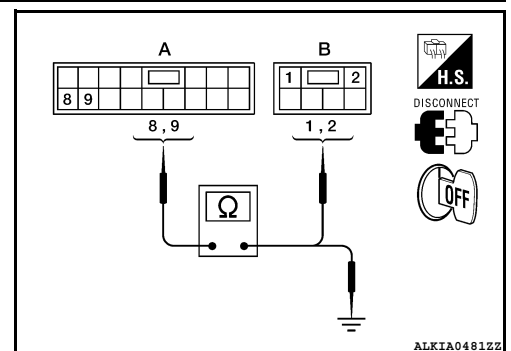
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector (A) and power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Power window motor RH connector	Terminal	Continuity
D105 (A)	8	D111 (B)	2	Yes
	9		1	



4. Check continuity between power window and door lock/unlock switch RH connector (A) and ground.

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

Power window and door lock/unlock switch RH connector	Terminal		Ground	Continuity
	8	9		
D105 (A)	8	9		No

Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-253, "Removal and Installation"](#). After that, refer to [PWC-180, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR RH

Check power window motor RH.

Refer to [PWC-184, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
- NO >> Replace power window motor RH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-184, "PASSENGER SIDE : Special Repair Requirement"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000005434342

COMPONENT INSPECTION

1. CHECK POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to power window motor RH?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

- YES >> Power window motor RH is OK.
- NO >> Replace power window motor RH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-184, "PASSENGER SIDE : Special Repair Requirement"](#).

PASSENGER SIDE : Special Repair Requirement

INFOID:000000005434343

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Refer to [PWC-187, "PASSENGER SIDE : Component Function Check"](#).

ENCODER

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

ENCODER DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434344

Detects condition of the power window motor LH operation and transmits to main power window and door lock/unlock switch as pulse signal.

DRIVER SIDE : Component Function Check

INFOID:000000005434345

1. CHECK ENCODER OPERATION

Does door glass LH perform AUTO open/close operation normally when operating main power window and door lock/unlock switch?

Is the inspection result normal?

- YES >> Encoder operation is OK.
- NO >> Refer to [PWC-185. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434346

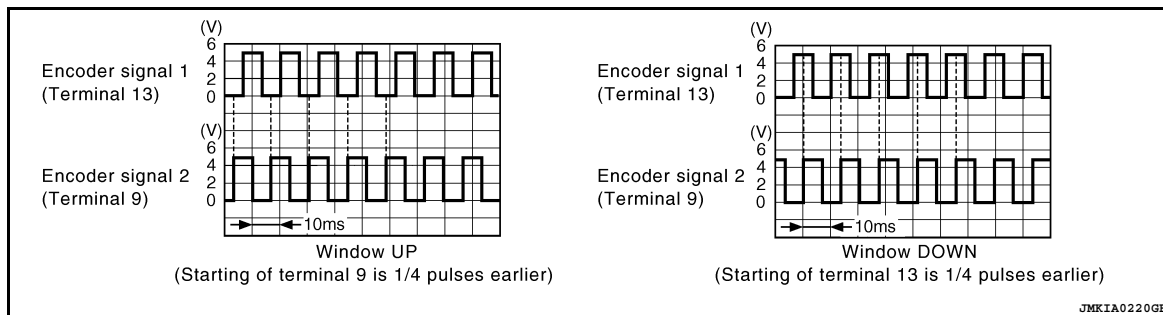
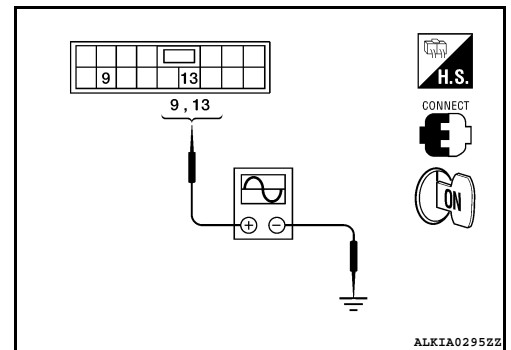
Regarding Wiring Diagram information, refer to [PWC-233. "Wiring Diagram"](#).

Encoder Circuit Check

1. CHECK ENCODER OPERATION

1. Turn ignition switch ON.
2. Check signal between main power window and door lock/unlock switch connector and ground with oscilloscope.

Terminals		Signal (Reference value)
(+)	(-)	
Main power window and door lock/unlock switch connector	Terminal	Ground
D28	9	
	13	Refer to following signal



Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
- NO >> GO TO 2

2. CHECK POWER WINDOW MOTOR LH POWER SUPPLY

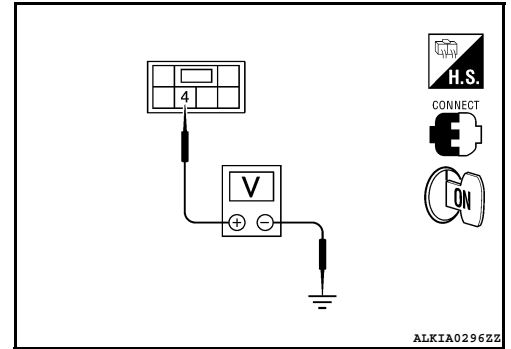
ENCODER

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch ON.
2. Check voltage between power window motor LH connector and ground.

Terminal		Voltage (V) (Approx.)	
(+)	(-)		
Power window motor LH connector	Terminal		
D18	4	Ground	
			10



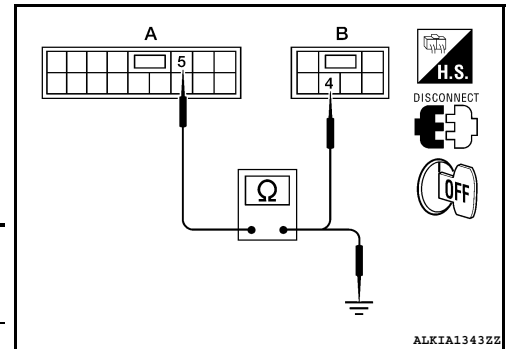
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D28 (A)	5	D18 (B)	4	Yes



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D28 (A)	5		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252, "Removal and Installation"](#). After that, refer to [PWC-178, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).
NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

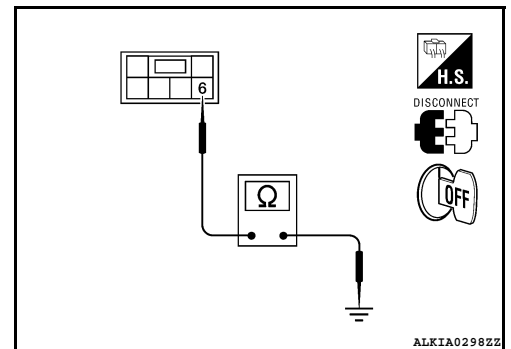
1. Turn ignition switch OFF.
2. Disconnect power window motor LH.
3. Check continuity between power window motor LH connector and ground.

Power window motor LH connector	Terminal	Ground	Continuity
D18	6		Yes

Is the inspection result normal?

- YES >> GO TO 6
NO >> GO TO 5

5. CHECK HARNESS CONTINUITY 2



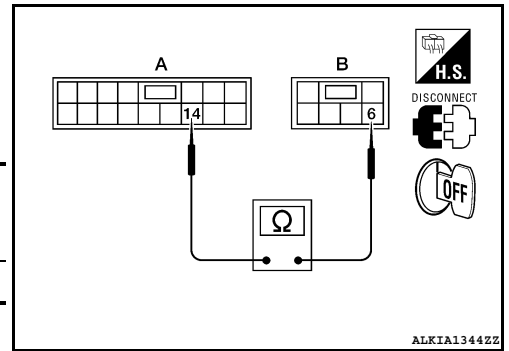
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[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D28 (A)	14	D18 (B)	6	Yes



Is the inspection result normal?

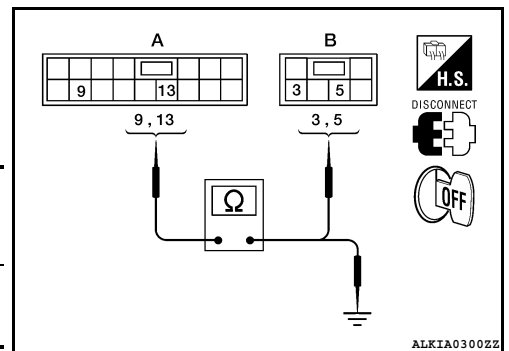
YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252, "Removal and Installation"](#). After that, refer to [PWC-178, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Power window motor LH connector	Terminal	Continuity
D28 (A)	9	D18 (B)	5	Yes
	13		3	



3. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D28 (A)	9	Ground	No
	13		

Is the inspection result normal?

YES >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-182, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005434347

Detects condition of the power window motor RH operation and transmits to power window and door lock/unlock switch RH as pulse signal.

PASSENGER SIDE : Component Function Check

INFOID:000000005434348

1. CHECK ENCODER OPERATION

Does door glass RH perform AUTO open/close operation normally when operating power window and door lock/unlock switch RH?

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to [PWC-187, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005434349

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< COMPONENT DIAGNOSIS >

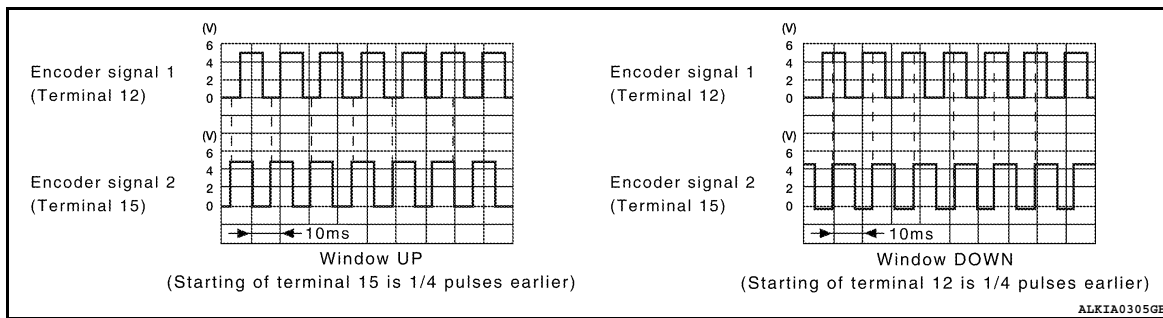
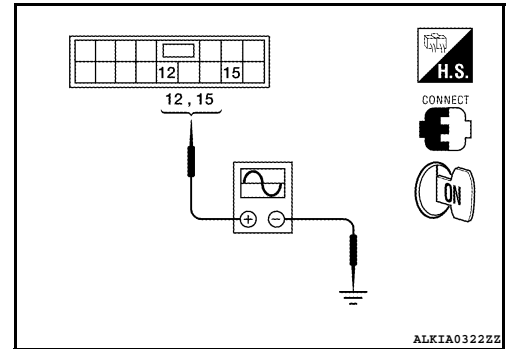
[LH&RH FRONT ANTI-PINCH-COUPÉ]

Regarding Wiring Diagram information, refer to [PWC-233. "Wiring Diagram"](#).

1. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Check signal between power window and door lock/unlock switch RH connector and ground with oscilloscope.

Terminals		Signal (Reference value)
(+)	(-)	
Power window and door lock/unlock switch RH connector	Terminal	Ground
D105	12 15	
		Refer to following signal



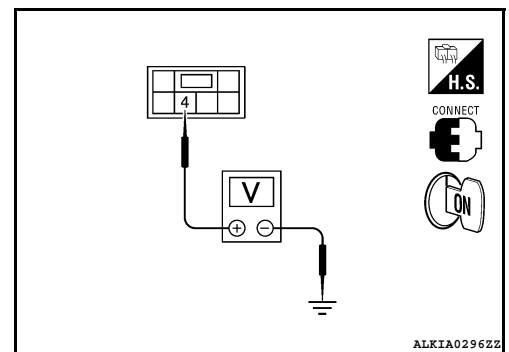
Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> GO TO 2

2. CHECK POWER WINDOW MOTOR RH POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between power window motor RH connector and ground.

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Power window motor RH connector	Terminal	10
D105	4	
		Ground



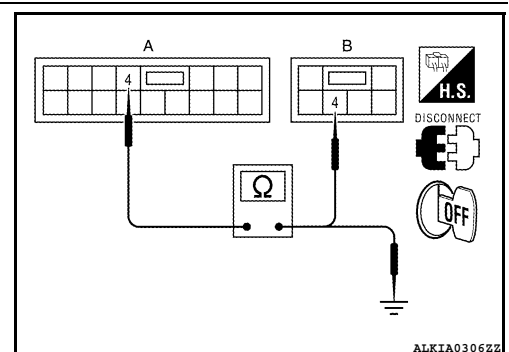
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH and power window motor RH.
3. Check continuity between power window and door lock/unlock switch RH connector (A) and power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Power window motor RH connector	Terminal	Continuity
D105 (A)	4	D111 (B)	4	Yes



ENCODER

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

4. Check continuity between power window and door lock/unlock switch RH connector (A) and ground.

Power window and door lock/unlock switch RH connector	Terminal	Ground	Continuity
D105 (A)	4		No

Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-253, "Removal and Installation"](#). After that, refer to [PWC-180, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

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

Power window motor RH connector	Terminal	Ground	Continuity
D111	6		Yes

Is the inspection result normal?

- YES >> GO TO 6
- NO >> GO TO 5

5. CHECK HARNESS CONTINUITY 2

1. Disconnect power window and door lock/unlock switch RH.
2. Check continuity between power window and door lock/unlock switch RH connector (A) and power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Power window motor RH connector	Terminal	Continuity
D105 (A)	3	D111 (B)	6	Yes

Is the inspection result normal?

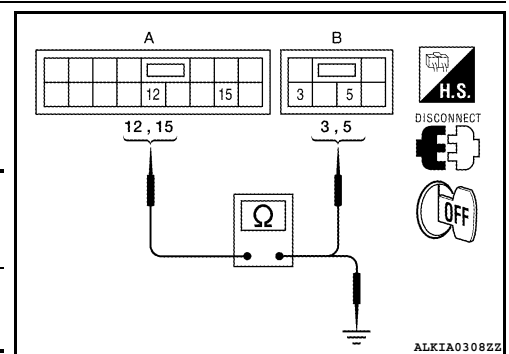
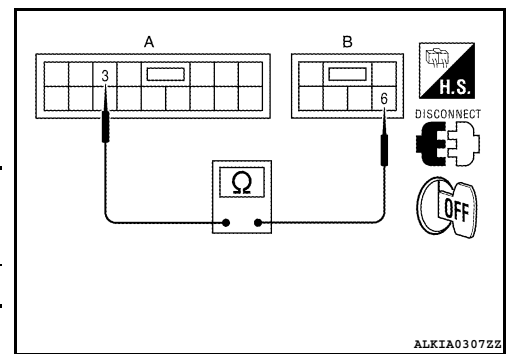
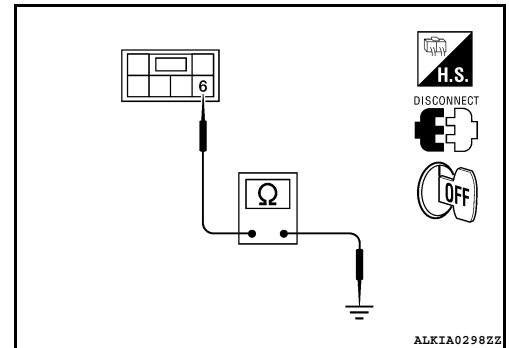
- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-253, "Removal and Installation"](#). After that, refer to [PWC-180, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

1. Disconnect power window and door lock/unlock switch RH.
2. Check continuity between power window and door lock/unlock switch RH connector (A) and power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Power window motor RH connector	Terminal	Continuity
D105 (A)	12	D111 (B)	3	Yes
	15		5	

3. Check continuity between power window and door lock/unlock switch RH connector (A) and ground.



ENCODER

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

Power window and door lock/unlock switch RH connector	Terminal	Ground	Continuity
D105 (A)	12		
	15		

Is the inspection result normal?

- YES >> Replace power window motor RH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-184, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

DOOR SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

DOOR SWITCH

Description

INFOID:000000005434350

Detects door open/close condition and transmits the signal to BCM.

Component Function Check

INFOID:000000005434351

1. CHECK DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-III. Refer to [BCS-34. "RETAINED PWR : CONSULT-III Function \(BCM - RETAINED PWR\)"](#).

Monitor item	Condition
DOOR SW-DR	OPEN : ON
	CLOSE : OFF
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Door switch circuit is OK.

NO >> Refer to [PWC-191. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005434352

Regarding Wiring Diagram information, refer to [PWC-233. "Wiring Diagram"](#).

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M18	32	Front door RH	OPEN : 0
			CLOSE : Battery voltage
	58	Front door LH	OPEN : 0
			CLOSE : Battery voltage

Is the measurement value within the specification?

YES >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and door switch.
3. Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M18	32	RH: B109	2	Yes
	58	LH: B68		

4. Check continuity between BCM connector and ground.

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

BCM connector	Terminal	Ground	Continuity
M18	32		Ground
	58		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
BCM connector	Terminal		
M18	32	Ground	Battery voltage
	58		

Is the measurement value within the specification?

- YES >> GO TO 4
 NO >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).

4. CHECK DOOR SWITCH

Check door switch.
 Refer to [PWC-192. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace door switch.

Component Inspection

INFOID:000000005434353

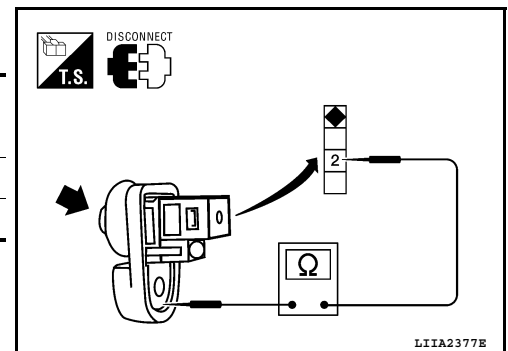
1. CHECK DOOR SWITCH

Check door switches.

Terminal		Door switch	Continuity
Door switches			
2	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace door switch.



DOOR KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH

Description

INFOID:000000005434354

Main power window and door lock/unlock switch detects condition of the door key cylinder and transmits to BCM as the LOCK or UNLOCK signals.

Component Function Check

INFOID:000000005434355

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 [BCS-19. "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-193. "Diagnosis Procedure"](#).

Diagnosis Procedure

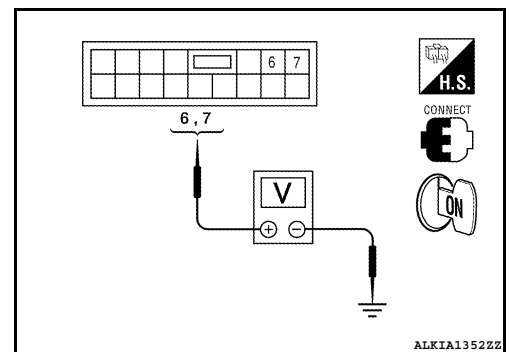
INFOID:000000005434356

Regarding Wiring Diagram information, refer to [PWC-233. "Wiring Diagram"](#).

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch ON.
- Check voltage between main power window and door lock/unlock switch connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal		
	D28	Ground	
	6	Lock	0
		Neutral/Unlock	5
	7	Unlock	0
		Neutral/Lock	5



Is the measurement value within the specification?

- YES >> Replace main power window and door lock/unlock switch. After that, refer to [PWC-178. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).
 NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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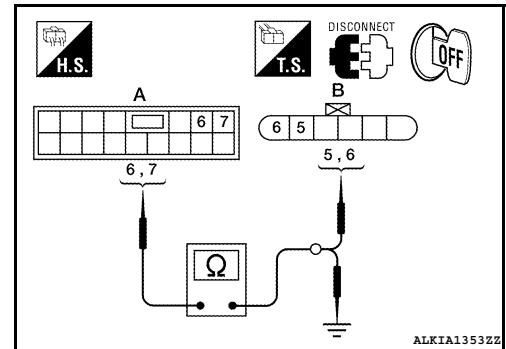
DOOR KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and door lock assembly LH (key cylinder switch).
3. Check continuity between main power window and door lock/unlock switch connector (A) and door lock assembly LH (key cylinder switch) connector (B).

Main power window and door lock/unlock switch connector	Terminal	Door lock assembly LH (key cylinder switch) connector	Terminal	Continuity
D28 (A)	6	D26 (B)	6	Yes
	7		5	



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D28 (A)	6	Ground	No
	7		

Is the inspection result normal?

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

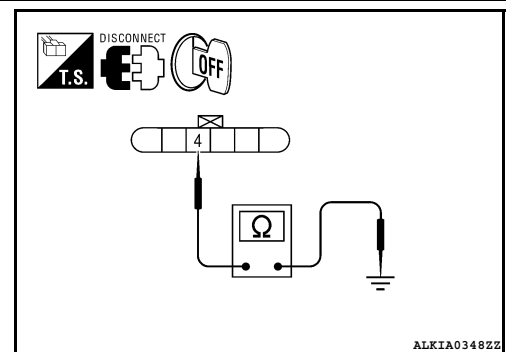
3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between door lock assembly LH (key cylinder switch) connector and ground.

Door lock assembly LH (key cylinder switch) connector	Terminal	Ground	Continuity
D26	4	Ground	Yes

Is the inspection result normal?

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



4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
 Refer to [PWC-194. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace door lock assembly LH (door key cylinder switch). After that, refer to [PWC-195. "Special Repair Requirement"](#).

Component Inspection

INFOID:000000005434357

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

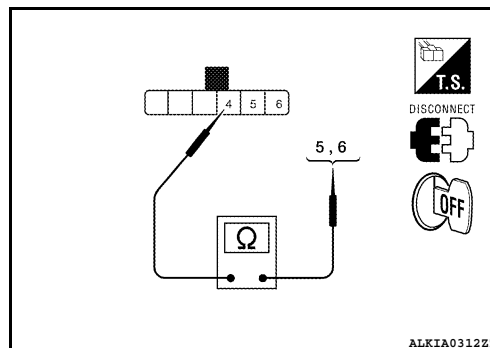
DOOR KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< COMPONENT DIAGNOSIS >

Check door lock assembly LH (key cylinder switch).

Terminal		Key position	Continuity
Door lock assembly LH (key cylinder switch) connector			
5	4	Unlock	Yes
		Neutral/Lock	No
6		Lock	Yes
		Neutral/Unlock	No



Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace door lock assembly LH (key cylinder switch). After that, refer to [PWC-195, "Special Repair Requirement"](#).

Special Repair Requirement

INFOID:000000005434358

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-COUCPE]

< COMPONENT DIAGNOSIS >

POWER WINDOW SERIAL LINK

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000005434359

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH

- Keyless power window down signal

The signal mentioned below is transmitted from main power window and door lock/unlock switch to power window and door lock/unlock switch RH

- Door window RH operation signal
- Power window control by key cylinder switch signal
- Power window lock switch signal
- Retained power operation signal

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000005434360

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to [BCS-19, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to [PWC-196, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

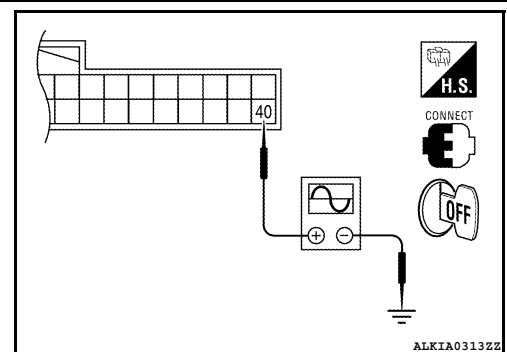
INFOID:000000005434361

Regarding Wiring Diagram information, refer to [PWC-233, "Wiring Diagram"](#).

Power Window Serial Link Check

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

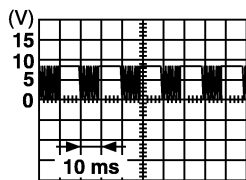
1. Remove Intelligent Key, and close front door LH and RH.
2. Check signal between BCM connector and ground with oscilloscope when door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".
3. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".



POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< COMPONENT DIAGNOSIS >

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M18	40	 <p>(V)</p> <p>15 10 5 0</p> <p>10 ms</p> <p>PIIA1297E</p>

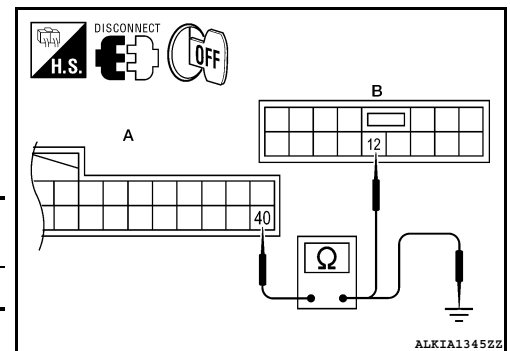
Is the inspection result normal?

- YES >> Power window serial link is OK.
 NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and main power window and door lock/unlock switch.
- Check continuity between BCM connector (A) and main power window and door lock/unlock switch connector (B).

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M18 (A)	40	D28 (B)	12	Yes



- Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	40		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252. "Removal and Installation"](#). After that, refer to [PWC-178. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

- NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005434362

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH

- Keyless power window down signal

The signal mentioned below is transmitted from main power window and door lock/unlock switch to power window and door lock/unlock switch RH

- Door window RH operation signal
- Power window control by key cylinder switch signal
- Retained power operation signal
- Power window lock switch signal

PASSENGER SIDE : Component Function Check

INFOID:000000005434363

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OUTPUT SIGNAL

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POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-COUPÉ]

< COMPONENT DIAGNOSIS >

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to [BCS-19, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

- YES >> Power window serial link is OK.
 NO >> Refer to [PWC-198, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

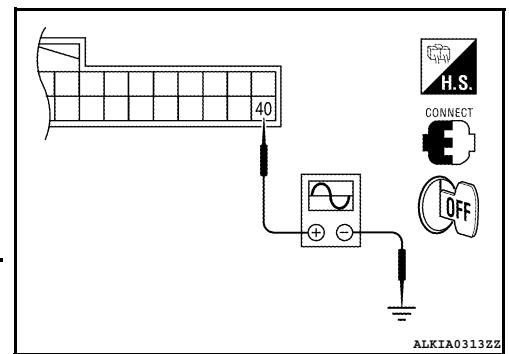
INFOID:000000005434364

Regarding Wiring Diagram information, refer to [PWC-233, "Wiring Diagram"](#).

Power Window Serial Link Check

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

1. Remove Intelligent Key, and close the door LH and RH.
2. Check signal between BCM connector and ground with oscilloscope when door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".
3. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".



Terminal (+)		Terminal (-)	Signal (Reference value)
BCM connector	Terminal		
M18	40	Ground	

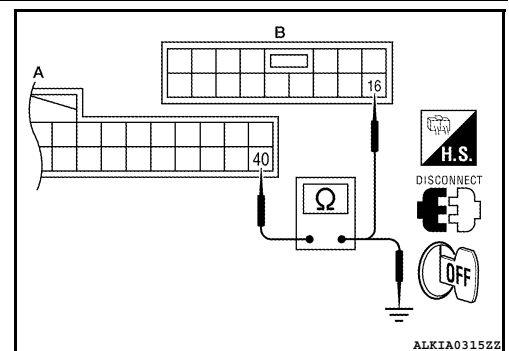
Is the inspection result normal?

- YES >> Power window serial link is OK.
 NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M18 (A)	40	D105 (B)	16	Yes



POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-COUPE]

< COMPONENT DIAGNOSIS >

4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	40		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252. "Removal and Installation"](#). After that, refer to [PWC-178. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

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POWER WINDOW LOCK SWITCH

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

POWER WINDOW LOCK SWITCH

Description

INFOID:000000005434365

Ground circuit of main power window and door lock/unlock switch shuts off if power window lock switch of main power window and door lock/unlock switch is operated. This inhibits all operation, except for the main switch.

Component Function Check

INFOID:000000005434366

1. CHECK POWER WINDOW LOCK SIGNAL

Exchanges for a normal main power window and door lock/unlock switch, and operation is checked.

Does power window lock operate?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-252, "Removal and Installation"](#). After that, refer to [PWC-200, "Special Repair Requirement"](#).
- NO >> Check condition of harness and connector.

Special Repair Requirement

INFOID:000000005434367

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

POWER WINDOW MAIN SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

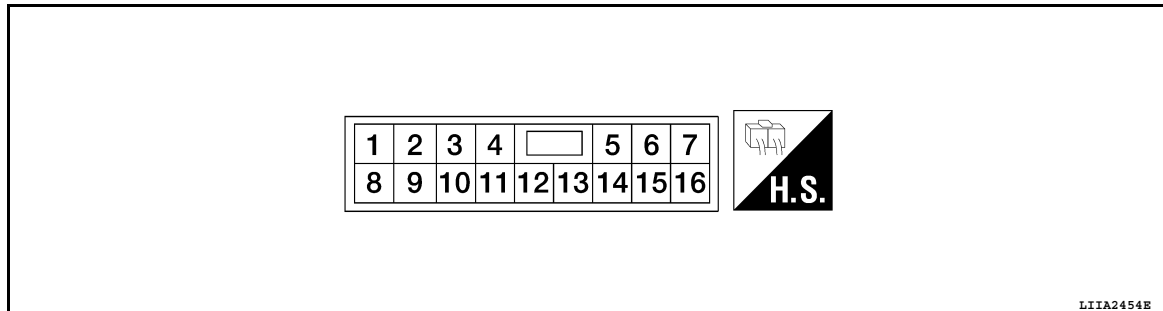
ECU DIAGNOSIS

POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000005434368

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
1 (W)	Ground	Battery power supply	Input	—	Battery voltage
5 (GR)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	10
6 (L/B)	Ground	Door key cylinder switch LH LOCK signal	Input	Key position (Neutral → Locked)	5 → 0
7 (L/R)	Ground	Door key cylinder switch LH UNLOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0
8 (R)	11	Front door power window motor LH UP signal	Output	When front LH switch in power window main switch is operated UP.	Battery voltage
9 (SB)	2	Encoder pulse signal 1	Input	When power window motor operates.	
10 (V)	Ground	RAP signal	Input	IGN SW ON	Battery voltage
				Within 45 second after ignition switch is turned to OFF.	Battery voltage
				When front LH or RH door is opened during retained power operation.	0
11 (LG)	8	Front door power window motor LH DOWN signal	Output	When front LH switch in power window main switch is operated DOWN.	Battery voltage

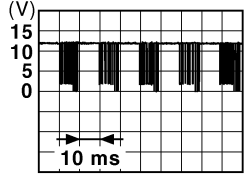
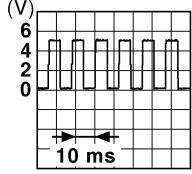
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POWER WINDOW MAIN SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
12 (BR)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p>
13 (W)	2	Encoder pulse signal 2	Input	When power window motor operates.	 <p style="text-align: right; font-size: small;">JMKIA0070GB</p>
14 (G)	Ground	Encoder ground	—	—	0
15 (B)	Ground	Ground	—	—	0

Fail Safe

INFOID:000000005434370

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
- Retained power function

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.

FRONT POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

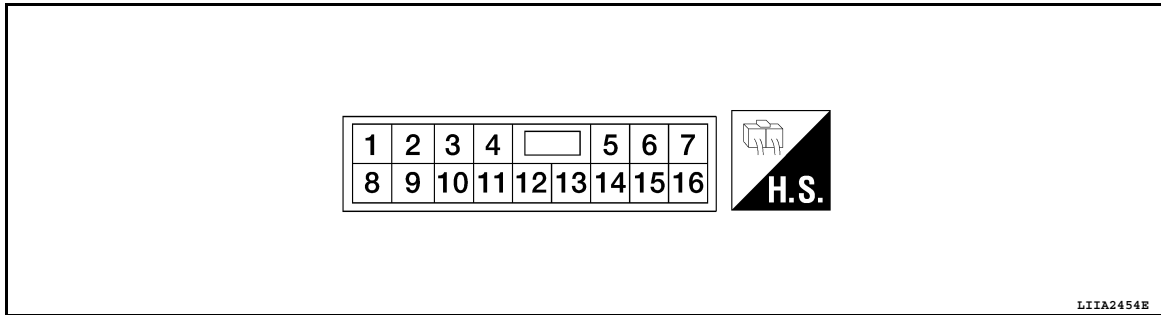
< ECU DIAGNOSIS >

FRONT POWER WINDOW SWITCH

Reference Value

INFOID:000000005434371

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

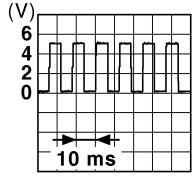
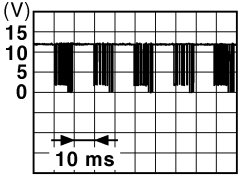
Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
3 (W)	Ground	Encoder ground	—	—	0
4 (BR)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	10
8 (L)	9	Power window motor UP signal	Output	When power window motor is UP at operated.	Battery voltage
9 (LG)	8	Power window motor DOWN signal	Output	When power window motor is DOWN at operated.	Battery voltage
10 (P)	Ground	Battery power supply	Input	—	Battery voltage
11 (B)	Ground	Ground	—	—	0
12 (G)	3	Encoder pulse signal 2	Input	When power window motor operates.	<p>The diagram shows a square wave pulse on a grid. The vertical axis is labeled (V) with values 0, 2, 4, 6. The horizontal axis is labeled 10 ms. The pulse has a period of 10 ms and a peak voltage of approximately 5V.</p>

JMKIA0070GB

FRONT POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
15 (Y)	3	Encoder pulse signal 1	Input	When power window motor operates.	 <p style="text-align: right; font-size: small;">JMKIA0070GB</p>
16 (R)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p>

Fail Safe

INFOID:000000005434373

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
- Retained power function

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.

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005783625

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
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	Rear door RH closed	OFF
	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
	Rear door LH opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
	Power door lock switch LOCK	ON

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

Monitor Item	Condition	Value/Status
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
HAZARD SW	When hazard switch is not pressed	OFF
	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
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	When LOCK button of Intelligent Key is not pressed	OFF
	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
	When outside of the vehicle is dark	Close to 0 V
REQ SW-DR	When driver door request switch is not pressed	OFF
	When driver door request switch is pressed	ON
REQ SW-AS	When passenger door request switch is not pressed	OFF
	When passenger door request switch is pressed	ON
REQ SW-BD/TR	When trunk request switch is not pressed	OFF
	When trunk request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
IGN RLY2-F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
	Ignition switch ACC or ON	ON
CLUTCH SW	When the clutch pedal is not depressed	OFF
	When the clutch pedal is depressed	ON

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

Monitor Item	Condition	Value/Status	
BRAKE SW 1	When the brake pedal is not depressed	ON	A
	When the brake pedal is depressed	OFF	
DETE/CANCL SW	When selector lever is in P position	OFF	B
	When selector lever is in any position other than P	ON	
SFT PN/N SW	When selector lever is in any position other than P or N	OFF	C
	When selector lever is in P or N position	ON	
UNLK SEN-DR	Driver door UNLOCK status	OFF	D
	Driver door LOCK status	ON	
PUSH SW-IPDM	When engine switch (push switch) is not pressed	OFF	E
	When engine switch (push switch) is pressed	ON	
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF	F
	Ignition switch ON	ON	
DETE SW -IPDM	When selector lever is in P position	OFF	G
	When selector lever is in any position other than P	ON	
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF	H
	When selector lever is in P or N position	ON	
SFT P-MET	When selector lever is in any position other than P	OFF	I
	When selector lever is in P position	ON	
SFT N-MET	When selector lever is in any position other than N	OFF	J
	When selector lever is in N position	ON	
ENGINE STATE	Engine stopped	STOP	
	While the engine stalls	STALL	
	At engine cranking	CRANK	
	Engine running	RUN	
VEH SPEED 1	While driving	Equivalent to speedometer reading	
VEH SPEED 2	While driving	Equivalent to speedometer reading	PWC
DOOR STAT-DR	Driver door LOCK status	LOCK	L
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door UNLOCK status	UNLK	
DOOR STAT-AS	Passenger door LOCK status	LOCK	M
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door UNLOCK status	UNLK	
ID OK FLAG	Ignition switch ACC or ON	RESET	N
	Ignition switch OFF	SET	
PRMT ENG STAT	When the engine start is prohibited	RESET	O
	When the engine start is permitted	SET	
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF	P
	When Intelligent Key is inserted into key slot	ON	
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET	
	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
	The ID of first 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	When ID of front LH tire transmitter is registered	DONE
	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
	Tire pressure warning alarm is sounding	ON

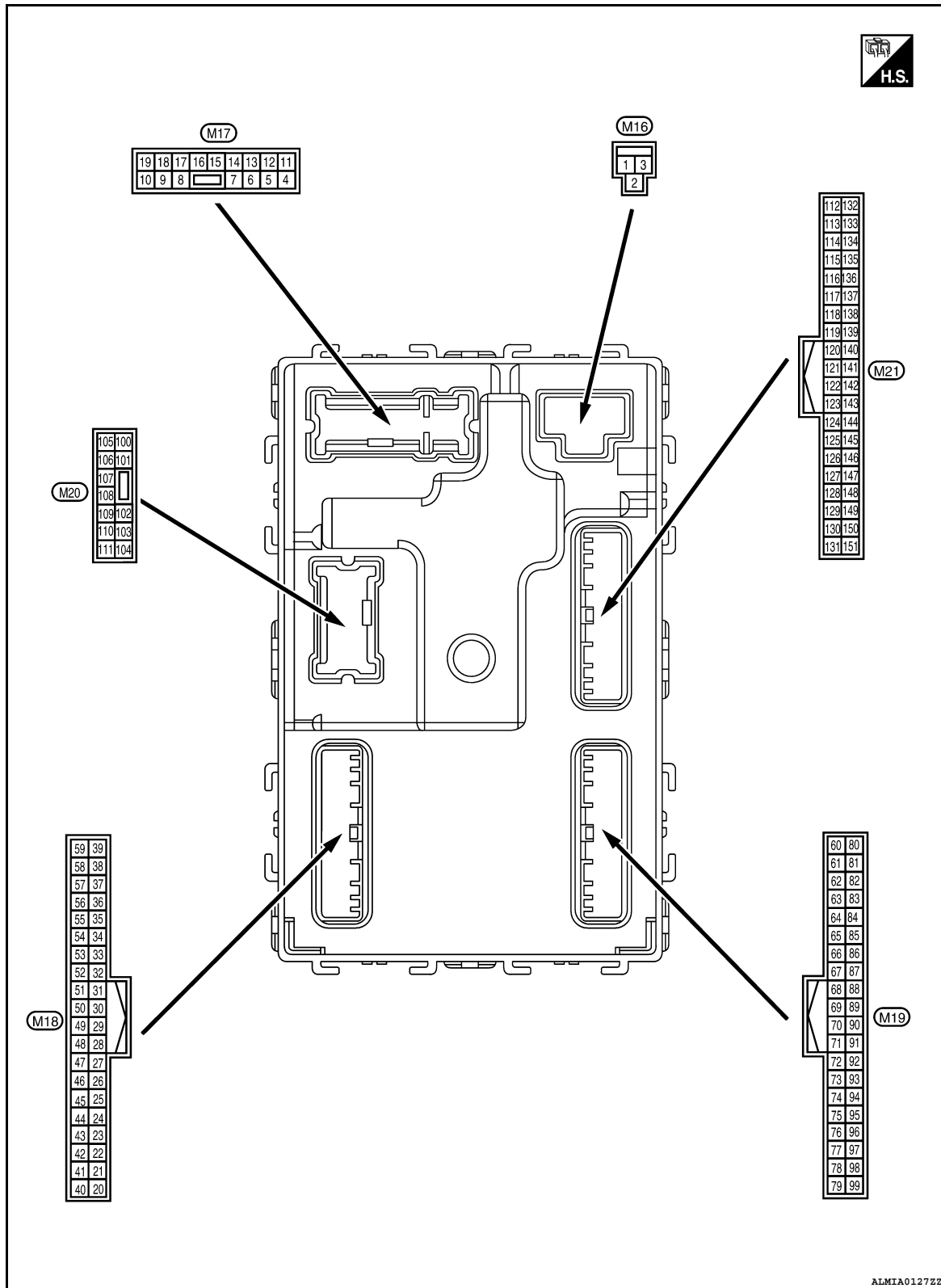
BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal Layout

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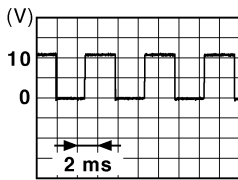
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

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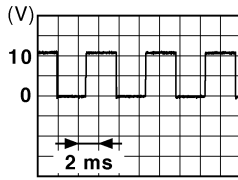
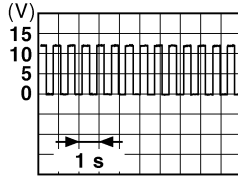
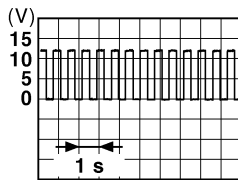
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF Battery voltage	
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF Battery voltage	
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON Battery voltage	
4 (P/W)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time 0V	
				Any other time after passing the interior room lamp battery saver operation time Battery voltage	
5 (G/Y)	Ground	Front door RH UNLOCK	Output	Front door RH	UNLOCK (actuator is activated) Battery voltage
					Other than UNLOCK (actuator is not activated) 0V
7 (R/W)	Ground	Step lamp	Output	Step lamp	ON 0V
					OFF Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated) Battery voltage
					Other than LOCK (actuator is not activated) 0V
9 (G)	Ground	Front door LH UNLOCK	Output	Front door LH	UNLOCK (actuator is activated) Battery voltage
					Other than UNLOCK (actuator is not activated) 0V
10 ¹ (G/Y)	Ground	Rear door RH and rear door LH UNLOCK	Output	Rear door RH and rear door LH	UNLOCK (actuator is activated) Battery voltage
					Other than UNLOCK (actuator is not activated) 0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF Battery voltage	
13 (B)	Ground	Ground	—	Ignition switch ON 0V	
14 ⁶ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF 0V
					ON <p>NOTE: When the illumination brightening/dimming level is in the neutral position</p> 

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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	0V
				ON	NOTE: When the illumination brightening/dimming level is in the neutral position  <small>JSNIA0010GB</small>	
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
				ACC or ON	0V	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF	0V
				Turn signal switch RH	 <small>PKID0926E</small>	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF	0V
				Turn signal switch LH	 <small>PKID0926E</small>	
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
				ON	0V	
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehicle is bright	Close to 5V
				When outside of the vehicle is dark	Close to 0V	
22 (R/Y)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (clutch pedal is not depressed)	0V
				ON (clutch pedal is depressed)	Battery voltage	
24 (R/W)	Ground	Stop lamp switch 1	Input	—	Battery voltage	
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
				ON (brake pedal is depressed)	Battery voltage	

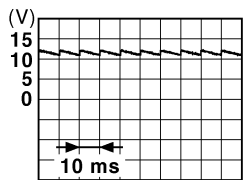
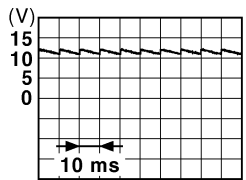
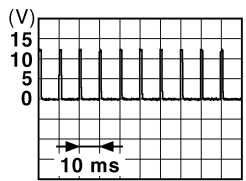
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

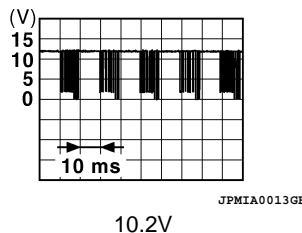
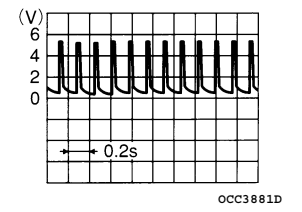
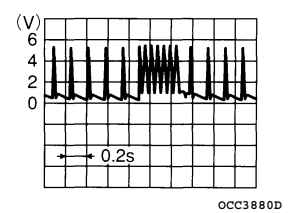
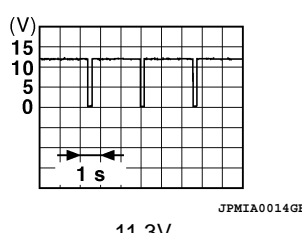
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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	 11.8V
					UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	Battery voltage	
				When Intelligent Key is not inserted into key slot	0V	
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF	0
					ACC or ON	Battery voltage
31 (G)	Ground	Rear window defogger feedback signal	Input	Rear window defogger switch	OFF	0V
					ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	 11.8 V
					ON (when front door RH opens)	0V
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF	9.0 - 12.0V
					ON	0V
34 ² (L/R)	Ground	Front door lock assembly LH (key cylinder switch) (unlock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (unlock)	0V
36 ² (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock	Battery voltage
					Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 1.1V
					ON	0V
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	OFF	5V
					ON	0V
39 ² (GR/R)	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery voltage
					Lock	0V

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		
				Ignition switch OFF or ACC	0V	
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination ON	5.5V	
				OFF	0V	
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp ON	0V	
				OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON	0V	
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch OFF	0V	
				ACC or ON	5.0V	
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON		
				When receiving the signal from the transmitter		
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever P or N position	12.0V	
				Except P and N positions	0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator ON	0V	
				Blinking		
				OFF	Battery voltage	

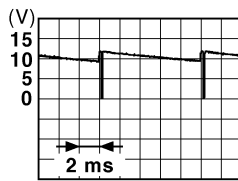
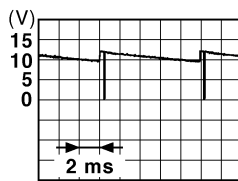
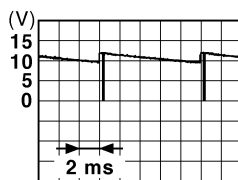
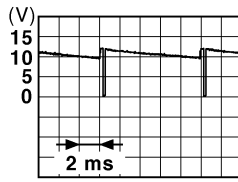
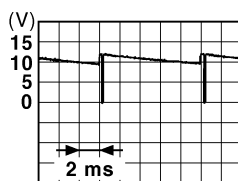
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

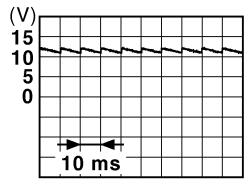
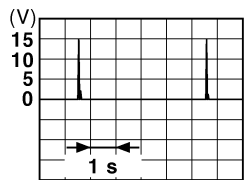
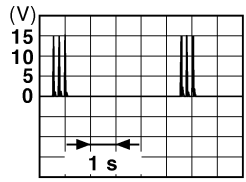
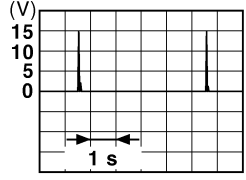
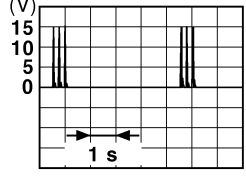
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
				Lighting switch 1ST		
				Lighting switch high-beam		
				Lighting switch 2ND		
				Turn signal switch RH		10.7V
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0V
				Front wiper switch HI (Wiper intermittent dial 4)		
				Any of the conditions below with all switch OFF		10.7V
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0V
				Front washer switch ON (Wiper intermittent dial 4)		
				Any of the conditions below with all switch OFF		10.7V
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
				Front wiper switch INT		
				Front wiper switch LO		
				Lighting switch AUTO		10.7V
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
				Front fog lamp switch ON		
				Lighting switch 2ND		
				Lighting switch flash-to- pass		
				Turn signal switch LH		10.7V
55 (BR/ W)	Ground	Front blower monitor	Input	Front blower mo- tor switch	ON	Battery voltage
				OFF	0V	

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
56 ² (L/B)	Ground	Front door lock assembly LH (key cylinder switch) (lock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (lock)	0V
57 (W)	Ground	Tire pressure warning check switch	Input	—	—	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	 <p style="text-align: center;">11.8V</p>
					ON (front door LH OPEN)	0V
59 (G/R)	Ground	Rear window defogger relay	Output	Rear window defogger	Active	Battery voltage
					Not activated	0V
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	

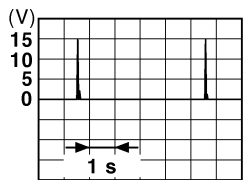
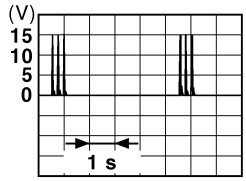
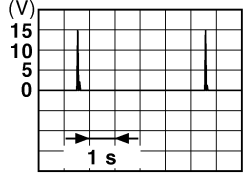
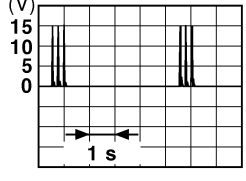
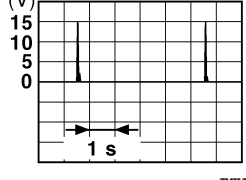
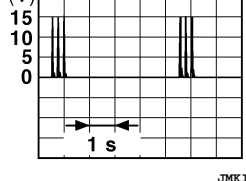
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
62 ⁴ (B/Y)	Ground	Front outside handle RH antenna (-)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	
				When Intelligent Key is not in the antenna detection area	
63 ⁴ (LG)	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	
				When Intelligent Key is not in the antenna detection area	
64 ⁴ (V)	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	
				When Intelligent Key is not in the antenna detection area	

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
65 ⁴ (P)	Ground	Front outside handle LH antenna (+)	Output	When the front door LH request switch is operat- ed with ignition switch OFF		
				When Intelligent Key is not in the antenna detection area		
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		
				When operating either button on Intelligent Key		


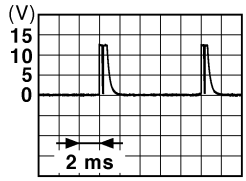
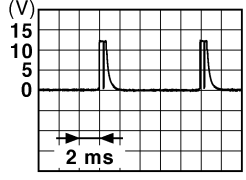
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

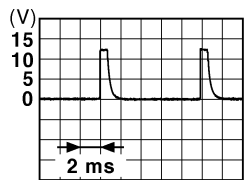
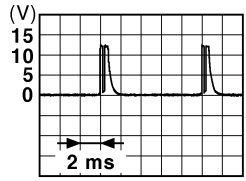
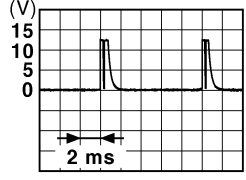
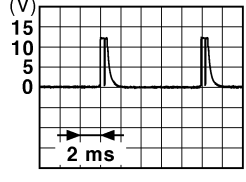
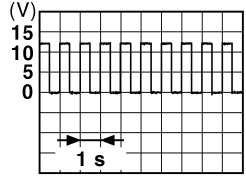
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	<p>All switch OFF (Wiper intermittent dial 4)</p>  <p style="text-align: right;"><small>JPMIA0041GB</small></p> <p style="text-align: center;">1.4V</p>
				Combination switch	<p>Front fog lamp switch ON (Wiper intermittent dial 4)</p>  <p style="text-align: right;"><small>JPMIA0037GB</small></p> <p style="text-align: center;">1.3V</p>
				Combination switch	<p>Any of the conditions below with all switch OFF</p> <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p style="text-align: right;"><small>JPMIA0040GB</small></p> <p style="text-align: center;">1.3V</p>

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
76 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.4V</p>
					Lighting switch high-beam (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
					Any of the conditions below with all switch OFF	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
78 (P)	Ground	CAN-L	Input/ Output	—	—	
79 (L)	Ground	CAN-H	Input/ Output	—	—	
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	0V
					Blinking	 <p style="text-align: right; margin-right: 50px;">6.5V</p>
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage

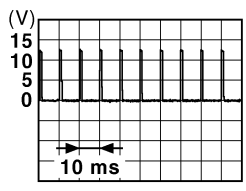
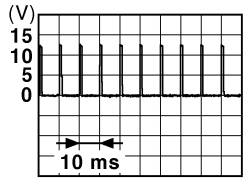
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

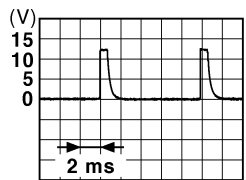

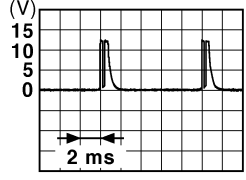
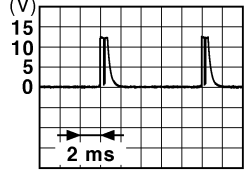
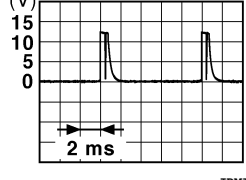
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0V
					ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output	—		Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 ⁴ (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
89 ⁴ (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
90 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

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


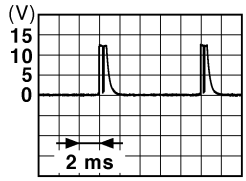
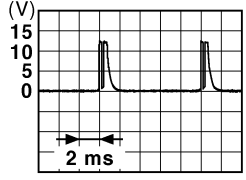

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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

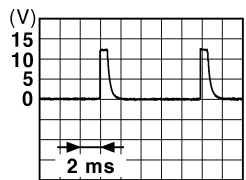

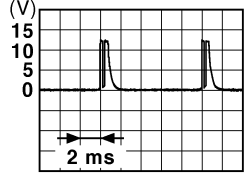
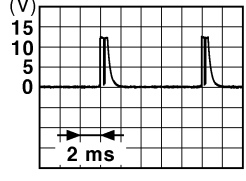

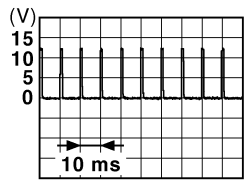
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
				Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3V</p>
				Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
				Combination switch	Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	 <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3V</p>

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	 <p style="text-align: right; margin-right: 50px;">1.4V</p>
					Lighting switch flash-to-pass	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
					Lighting switch 2ND	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
					Front wiper switch INT	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
					Front wiper switch HI	 <p style="text-align: right; margin-right: 50px;">1.3V</p>
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	 <p style="text-align: right; margin-right: 50px;">1.1V</p>	
				Not pressed		

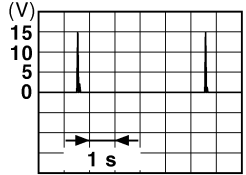
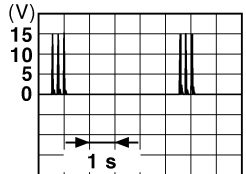
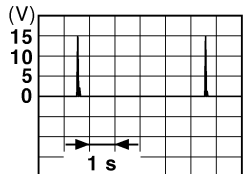
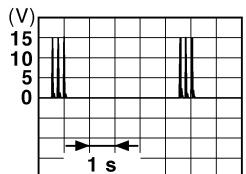
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
103 (V)	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated) Battery voltage
					Close (trunk lid opener actuator is not activated) 0V
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON 0V
					OFF Battery voltage
114 (B)	Ground	Rear parcel shelf antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment  JMKIA0062GB
					When Intelligent Key is not in the passenger compartment  JMKIA0063GB
115 (W)	Ground	Rear parcel shelf antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment  JMKIA0062GB
					When Intelligent Key is not in the passenger compartment  JMKIA0063GB

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
118 ⁴ (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	
				When Intelligent Key is not in the antenna detection area	
119 ⁴ (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	
				When Intelligent Key is not in the antenna detection area	
127 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC
				ON	Battery voltage
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)
				ON (trunk is open)	0V
					<p style="text-align: center;">11.8V</p>

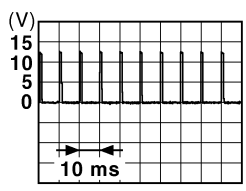
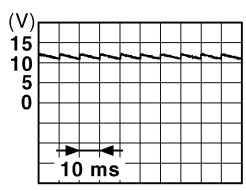
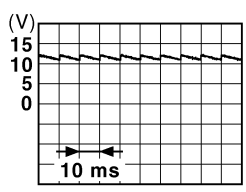
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
132 (R)	Ground	Starter motor relay control	Output	Ignition switch OFF (M/T vehicle)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0V
				Ignition switch ON (other than M/T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0V
140 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
					Not pressed	Battery voltage
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
144 ⁴ (GR)	Ground	Intelligent Key warning buzzer	Output	Request switch buzzer	Sounding	0V
					Not sounding	Battery voltage
144 ⁵ (GR)	Ground	Outside warning buzzer	Output	Outside warning buzzer	Sounding	0V
					Not sounding	Battery voltage
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0V
					Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door RH opens)	0V
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door LH opens)	0V

1: Sedan

2: With LH front window anti-pinch

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

- 3: With LH and RH front window anti-pinch
- 4: With Intelligent Key
- 5: Without Intelligent Key
- 6: Coupe

Fail Safe

INFOID:000000005783628

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)

DTC Inspection Priority Chart

INFOID:000000005783629

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

Priority	DTC
1	<ul style="list-style-type: none"> • B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

Priority	DTC
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING
4	<ul style="list-style-type: none"> • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2608: STARTER RELAY • B260A: IGNITION RELAY • B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RECIV • B26E8: CLUTCH SW • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • 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	<ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

INFOID:000000005783630

NOTE:

Details of time display

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	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 CIRCUIT	—	—	—	BCS-38, "Description"
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-39, "DTC Logic"
U0415: VEHICLE SPEED SIG	—	—	—	BCS-40, "Description"
B2190: NATS ANTENNA AMP	×	—	—	SEC-53, "Description" (Coupe) SEC-229, "Description" (Sedan with I-Key) SEC-399, "Description" (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	—	—	SEC-56, "Description" (Coupe) SEC-232, "Description" (Sedan with I-Key) SEC-402, "Description" (Sedan without I-Key)
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-57, "Description" (Coupe) SEC-233, "Description" (Sedan with I-Key) SEC-403, "Description" (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-58, "Description" (Coupe) SEC-234, "Description" (Sedan with I-Key) SEC-404, "Description" (Sedan without I-Key)
B2195: ANTI SCANNING	×	—	—	SEC-59, "Description" (Coupe) SEC-235, "Description" (Sedan with I-Key) SEC-405, "Description" (Sedan without I-Key)
B2553: IGNITION RELAY	—	—	—	PCS-61, "Description"
B2555: STOP LAMP	—	—	—	SEC-60, "Description" (Coupe) SEC-236, "Description" (Sedan with I-Key) SEC-406, "Description" (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	—	×	—	SEC-63, "Description" (Coupe) SEC-239, "Description" (Sedan with I-Key) SEC-409, "Description" (Sedan without I-Key)
B2557: VEHICLE SPEED	—	×	—	SEC-65, "Description" (Coupe) SEC-241, "Description" (Sedan with I-Key) SEC-411, "Description" (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2560: STARTER CONT RELAY	×	×	—	SEC-66, "Description" (Coupe) SEC-242, "Description" (Sedan with I-Key) SEC-412, "Description" (Sedan without I-Key)
B2562: LOW VOLTAGE	×	—	—	BCS-41, "DTC Logic"
B2601: SHIFT POSITION	—	×	—	SEC-67, "Description" (Coupe) SEC-243, "Description" (Sedan with I-Key) SEC-413, "Description" (Sedan without I-Key)
B2602: SHIFT POSITION	—	×	—	SEC-71, "Description" (Coupe) SEC-246, "Description" (Sedan with I-Key) SEC-416, "Description" (Sedan without I-Key)
B2603: SHIFT POSI STATUS	—	×	—	SEC-74, "Description" (Coupe) SEC-249, "Description" (Sedan with I-Key) SEC-419, "Description" (Sedan without I-Key)
B2604: PNP SW	—	×	—	SEC-77, "Description" (Coupe) SEC-252, "Description" (Sedan with I-Key) SEC-422, "Description" (Sedan without I-Key)
B2605: PNP SW	—	×	—	SEC-79, "Description" (Coupe) SEC-254, "Description" (Sedan with I-Key) SEC-424, "Description" (Sedan without I-Key)
B2608: STARTER RELAY	×	×	—	SEC-81, "Description" (Coupe) SEC-256, "Description" (Sedan with I-Key) SEC-426, "Description" (Sedan without I-Key)
B260A: IGNITION RELAY	×	×	—	PCS-63, "Description"
B260F: ENG STATE SIG LOST	×	×	—	SEC-83, "Description" (Coupe) SEC-258, "Description" (Sedan with I-Key) SEC-428, "Description" (Sedan without I-Key)
B2614: ACC RELAY CIRC	—	×	—	PCS-66, "Description"
B2615: BLOWER RELAY CIRC	—	×	—	PCS-69, "Description"
B2616: IGN RELAY CIRC	—	×	—	PCS-72, "Description"
B2617: STARTER RELAY CIRC	×	×	—	SEC-87, "Description" (Coupe) SEC-262, "Description" (Sedan with I-Key) SEC-432, "Description" (Sedan without I-Key)
B2618: BCM	×	×	—	PCS-75, "Description"
B261A: PUSH-BTN IGN SW	—	×	—	SEC-90, "Description" (Coupe) SEC-265, "Description" (Sedan with I-Key) SEC-435, "Description" (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	SEC-89, "Description" (Coupe) SEC-264, "Description" (Sedan with I-Key) SEC-434, "Description" (Sedan without I-Key)
B2622: INSIDE ANTENNA	—	—	—	DLK-60, "Description" (Coupe) DLK-283, "Description" (Sedan with I-Key) DLK-484, "Description" (Sedan without I-Key)
B2623: INSIDE ANTENNA	—	—	—	DLK-63, "Description" (Coupe) DLK-286, "Description" (Sedan with I-Key) DLK-487, "Description" (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	—	SEC-92, "Description" (Coupe) SEC-267, "Description" (Sedan with I-Key) SEC-437, "Description" (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	—	SEC-84, "Description" (Coupe) SEC-259, "Description" (Sedan with I-Key) SEC-429, "Description" (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	—	SEC-86, "Description" (Coupe) SEC-261, "Description" (Sedan with I-Key) SEC-431, "Description" (Sedan without I-Key)
C1704: LOW PRESSURE FL	—	—	×	WT-44, "Self-Diagnosis (With CONSULT-III)"
C1705: LOW PRESSURE FR	—	—	×	
C1706: LOW PRESSURE RR	—	—	×	
C1707: LOW PRESSURE RL	—	—	×	
C1708: [NO DATA] FL	—	—	×	WT-14, "Description"
C1709: [NO DATA] FR	—	—	×	
C1710: [NO DATA] RR	—	—	×	
C1711: [NO DATA] RL	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	×	WT-16, "Description"
C1713: [CHECKSUM ERR] FR	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	×	WT-18, "Description"
C1717: [PRESSDATA ERR] FR	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	×	

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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1720: [CODE ERR] FL	—	—	×	WT-16, "Description"
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	—	—	×	WT-19, "Description"
C1729: VHCL SPEED SIG ERR	—	—	×	WT-20, "Description"
C1734: CONTROL UNIT	—	—	×	WT-20, "Description"

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-COUPE]

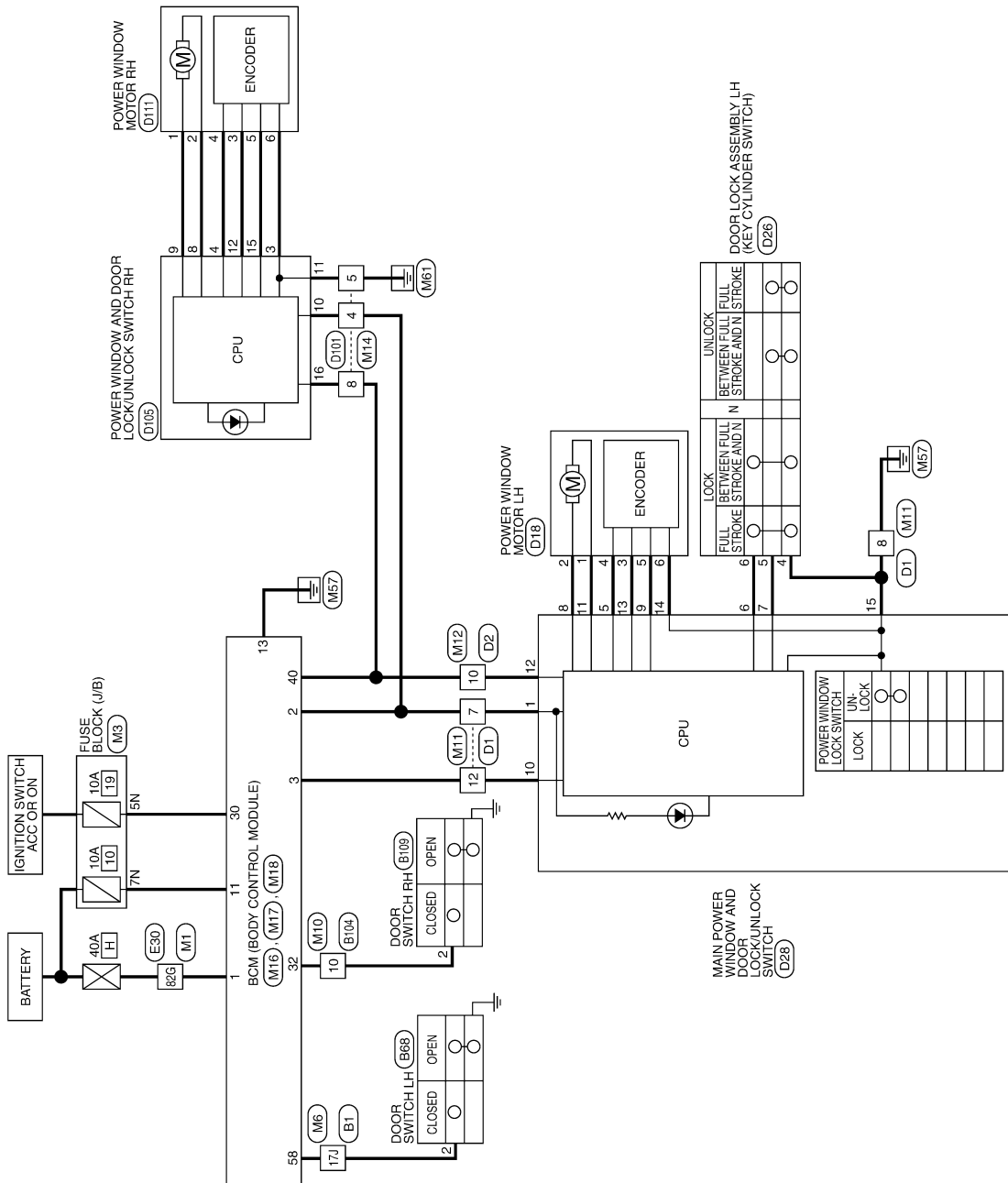
WIRING DIAGRAM

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

Wiring Diagram

INFOID:000000005434372

POWER WINDOW SYSTEM - COUPE WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH



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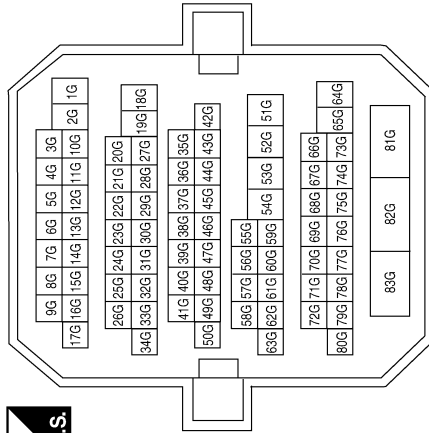
POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-COUPE]

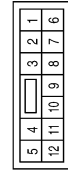
POWER WINDOW SYSTEM CONNECTORS - COUPE WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



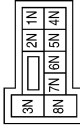
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN



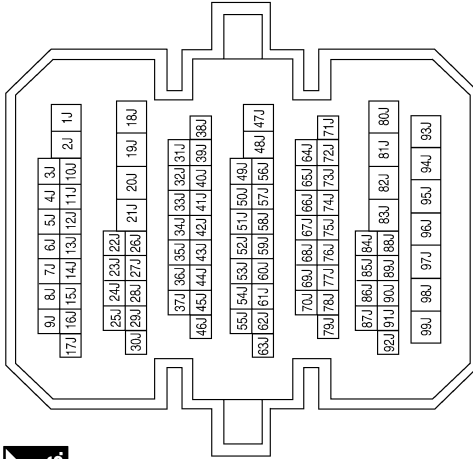
Terminal No.	Color of Wire	Signal Name
10	R/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5N	V/Y	-
7N	Y/R	-

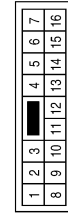
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17J	SB	-

Terminal No.	Color of Wire	Signal Name
7	R/Y	-
8	B	-
12	L/W	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

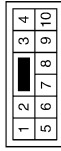
[LH&RH FRONT ANTI-PINCH-COUCPE]

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



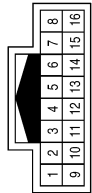
Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L
2	R/Y	P/W_POWER_SUPPLY_PERM
3	L/W	POWER_WINDOW_POWER_SUPPLY (RAP)

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



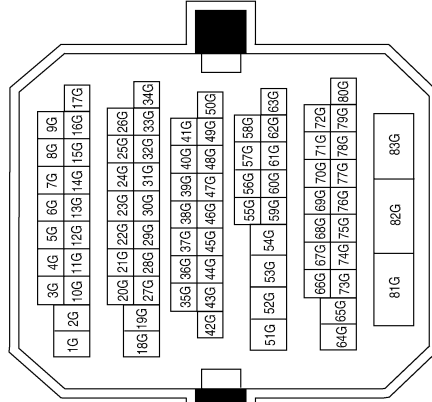
Terminal No.	Color of Wire	Signal Name
4	R/Y	-
5	B	-
8	Y/G	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE

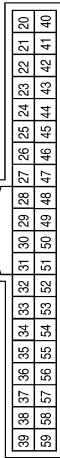


Terminal No.	Color of Wire	Signal Name
10	Y/G	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE

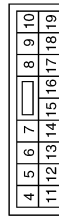


Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
30	V/Y	ACC F/B
32	R/B	AS DOOR SW
40	Y/G	PW K-LINE
58	SB	DR DOOR SW

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT BCM FUSE
13	B	GND1

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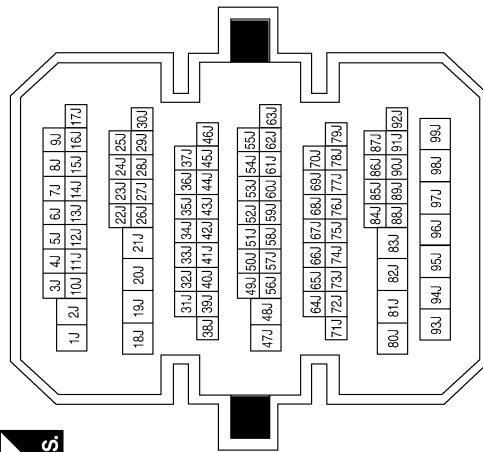
PWC

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

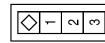
[LH&RH FRONT ANTI-PINCH-COUPE]

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



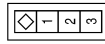
Terminal No.	Color of Wire	Signal Name
17G	SB	-

Connector No.	B109
Connector Name	DOOR SWITCH RH
Connector Color	WHITE



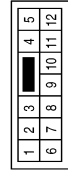
Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	B68
Connector Name	DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	SB	-

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN



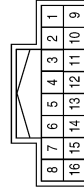
Terminal No.	Color of Wire	Signal Name
10	GR	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	W	-
8	B	-
12	V	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	BR	-

ABKIA2202GB

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

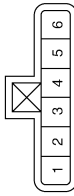
[LH&RH FRONT ANTI-PINCH-COUPE]

Connector No.	D18
Connector Name	POWER WINDOW MOTOR LH
Connector Color	WHITE



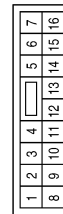
Terminal No.	Color of Wire	Signal Name
1	LG	-
2	R	-
3	W	-
4	GR	-
5	SB	-
6	G	-

Connector No.	D26
Connector Name	DOOR LOCK ASSEMBLY LH (WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	GRAY



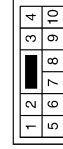
Terminal No.	Color of Wire	Signal Name
4	B	GND
5	L/R	DOOR_KEY/C_UNLOCK_SW
6	L/B	DOOR_KEY/C_LOCK_SW

Connector No.	D28
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (COUPE WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	BAT
5	GR	ENCODER POWER
6	L/B	LOCK
7	L/R	UNLOCK
8	R	AS UP
9	SB	ENCODER SIG1
10	V	IGN
11	LG	AS DOWN
12	BR	COM
13	W	ENCODER SIG2
14	G	ENCODER GND
15	B	GND

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	P	-
5	B	-
8	R	-

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POWER WINDOW SYSTEM - WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-COUPE]

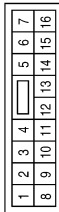
Connector No.	D111
Connector Name	POWER WINDOW MOTOR RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	L	-
3	G	-
4	BR	-
5	Y	-
6	W	-

Terminal No.	Color of Wire	Signal Name
3	W	GND
4	BR	ENCODER POWER
8	L	UP
9	LG	DOWN
10	P	BAT
11	B	GND
12	G	ENCODER SIG2
15	Y	ENCODER SIG1
16	R	COM

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



ABXIA2204GB

PRECAUTION

PRECAUTIONS

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

INFOID:000000005789694

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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.

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PWC

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000005434383

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-42, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window switch main power supply and ground circuit.

Refer to [PWC-177, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH SERIAL CIRCUIT

Check main power window and door lock/unlock switch serial circuit.

Refer to [PWC-177, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace the malfunctioning parts.

4. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-177, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434384

1. CHECK POWER WINDOW MOTOR LH

Check power window motor LH.

Refer to [PWC-181, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434385

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Refer to [PWC-179, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH SERIAL LINK CIRCUIT

Check power window and door lock/unlock switch RH serial link circuit.

Refer to [PWC-197, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK POWER WINDOW MOTOR RH CIRCUIT

Check power window motor RH circuit.

Refer to [PWC-183, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

[LH&RH FRONT ANTI-PINCH-COUPE]

< SYMPTOM DIAGNOSIS >

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434386

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-185, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (PASSENGER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (PASSENGER SIDE)

Diagnosis Procedure

INFOID:000000005434387

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-187, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPÉ]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434388

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-185, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (PASSENGER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (PASSENGER SIDE)

Diagnosis Procedure

INFOID:000000005434389

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-187, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000005434390

1. CHECK DOOR SWITCH

Check door switch.

Refer to [PWC-191, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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DOES NOT OPERATE BY KEY CYLINDER SWITCH

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

DOES NOT OPERATE BY KEY CYLINDER SWITCH

Diagnosis Procedure

INFOID:000000005434391

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-169, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH)

Check door lock assembly LH (key cylinder switch).

Refer to [PWC-193, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434392

1. CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function.

Refer to [SEC-16, "System Description"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUCPE]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000005434393

1. REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Replace main power window and door lock/unlock switch.

Refer to [PWC-252, "Removal and Installation"](#). After that, [PWC-178, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

[LH&RH FRONT ANTI-PINCH-COUPE]

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000005434394

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.
2. Check the following parts.
 - Fuse/circuit breaker blown.
 - Poor connection, open or short circuit of harness connector.
 - Battery voltage.

Is the inspection result normal?

- YES >> Inspection end.
NO >> Repair or replace the malfunctioning parts.

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POWER WINDOW MAIN SWITCH

< ON-VEHICLE REPAIR >

[LH&RH FRONT ANTI-PINCH-COUPE]

ON-VEHICLE REPAIR

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:000000005789703

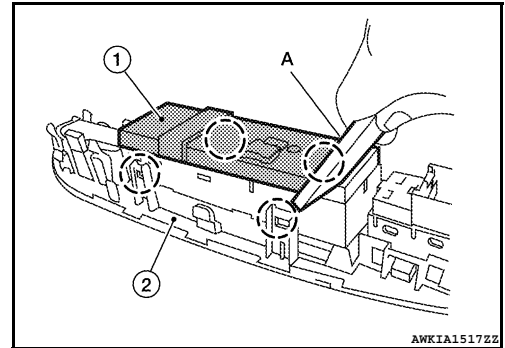
REMOVAL

1. Remove the power window main switch finisher (2) from the door finisher, refer to [INT-11. "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the power window main switch (1) from the switch finisher (2).

○; Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

FRONT POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-COUCPE]

< ON-VEHICLE REPAIR >

FRONT POWER WINDOW SWITCH

Removal and Installation

INFOID:000000005789704

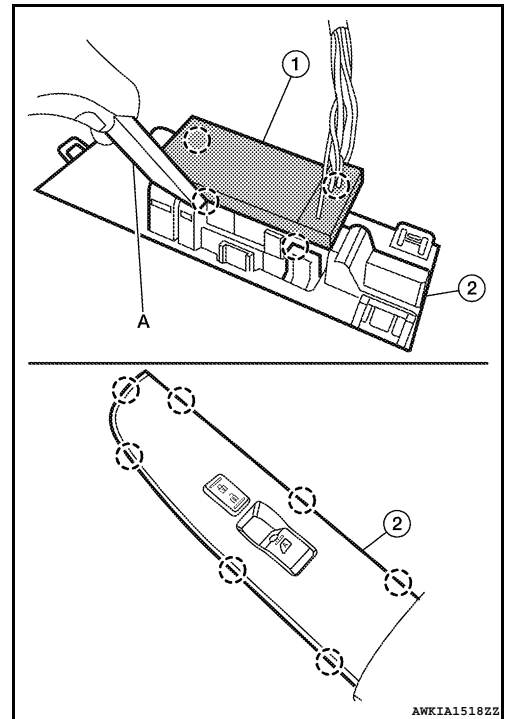
REMOVAL

1. Remove the front power window switch finisher (2) from the front door finisher RH. Refer to [INT-11, "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the front power window switch (1) from the switch finisher (2).

○: Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

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DIAGNOSIS AND REPAIR WORKFLOW

[LH&RH FRONT ANTI-PINCH-SEDAN]

< BASIC INSPECTION >

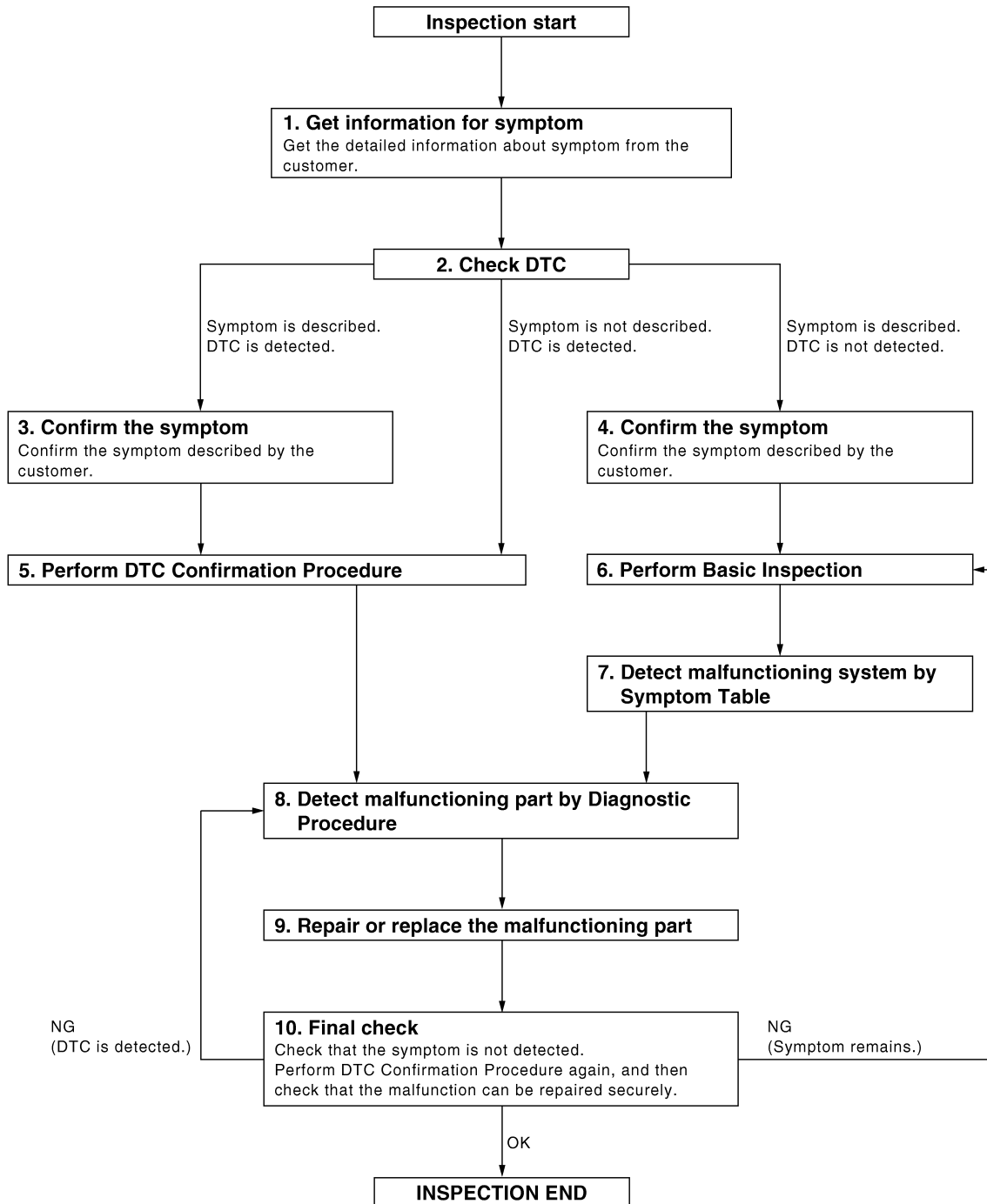
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005434396

OVERALL SEQUENCE



DETAILED FLOW

JMKIA0101GB

DIAGNOSIS AND REPAIR WORKFLOW

[LH&RH FRONT ANTI-PINCH-SEDAN]

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2. CHECK DTC

1. Check DTC.
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>>GO TO 3
- Symptom is described, DTC is not displayed>>GO TO 4
- Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to [BCS-69. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check. If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

- YES >> GO TO 8
- NO >> Refer to [GI-41. "Intermittent Incident"](#).

6. PERFORM BASIC INSPECTION

Perform [PWC-254. "Work Flow"](#).

Inspection End>>GO TO 7

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 8

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DIAGNOSIS AND REPAIR WORKFLOW

[LH&RH FRONT ANTI-PINCH-SEDAN]

< BASIC INSPECTION >

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 9

NO >> Check voltage of related BCM terminals using CONSULT-III.

9. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

>> GO TO 10

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8

YES (Symptom remains)>>GO TO 6

NO >> Inspection End.

INSPECTION AND ADJUSTMENT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000005434397

Initial setting is necessary when battery terminal is disconnected.

CAUTION:

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

- Auto-up operation
- Anti-pinch function
- Retained power operation

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000005434398

INITIALIZATION PROCEDURE

1. Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds 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-300, "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. Retained power operation when ignition switch is OFF.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005434399

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
- Retained power operation

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000005434400

INITIALIZATION PROCEDURE

1. Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more.

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INSPECTION AND ADJUSTMENT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< BASIC INSPECTION >

2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. 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 or 2 seconds 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-300, "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. **Retained power operation when ignition switch is OFF.**

POWER WINDOW SYSTEM

[LH&RH FRONT ANTI-PINCH-SEDAN]

< FUNCTION DIAGNOSIS >

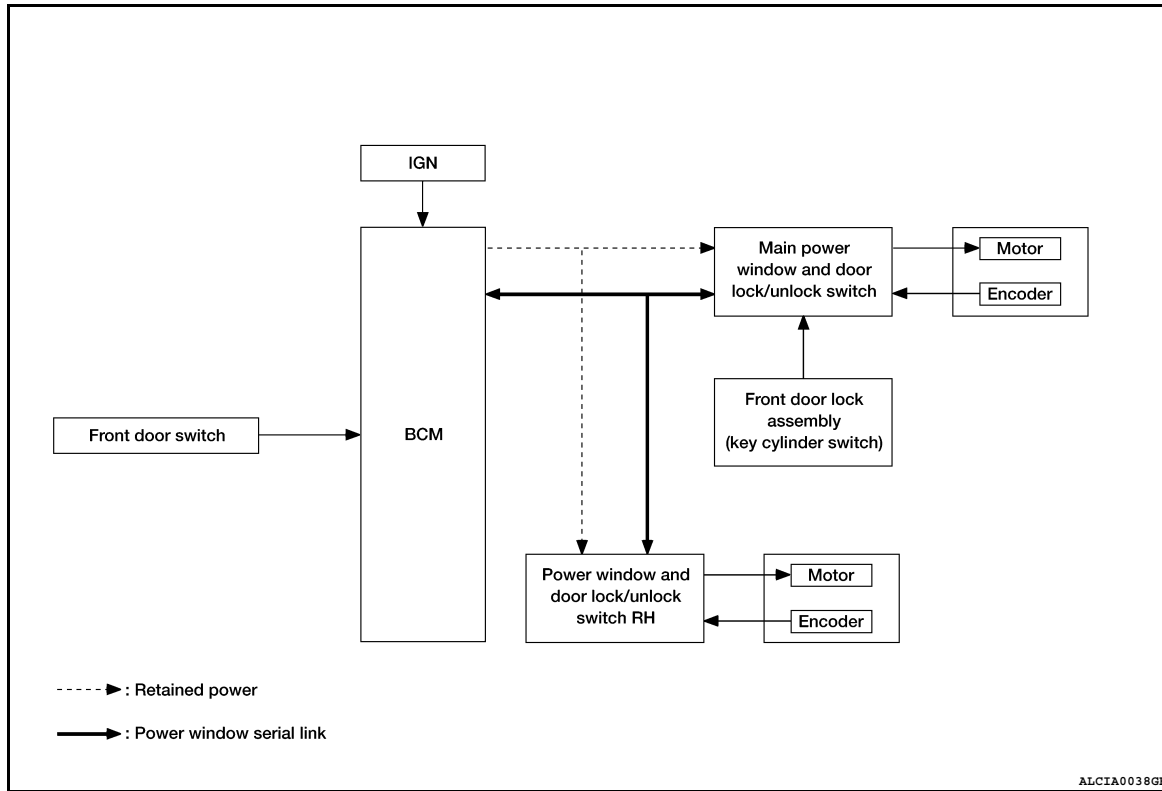
FUNCTION DIAGNOSIS

POWER WINDOW SYSTEM

System Diagram

INFOID:000000005434401

FRONT WINDOW ANTI-PINCH SYSTEM



System Description

INFOID:000000005434402

POWER WINDOW MAIN SWITCH INPUT/OUTPUT SIGNAL CHART

PWC

Item	Input signal to main power window and door lock/unlock switch	Main power window and door lock/unlock switch function	Actuator
Key cylinder switch	LOCK/UNLOCK signal (more than 1 seconds over)	Power window control	Front power window motor
Encoder	Encoder pulse signal		
Main power window and door lock/unlock switch	Front power window motor LH UP/DOWN signal		
Power window and door lock/unlock switch RH	Front power window motor RH UP/DOWN signal		
BCM	RAP signal		
Rear power window switch	Rear power window motor UP/DOWN signal		Rear power window motor

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH INPUT/OUTPUT SIGNAL CHART

POWER WINDOW SYSTEM

< FUNCTION DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Item	Input signal to front power window switch	Front power window switch function	Actuator
Power window and door lock/unlock switch RH	Front power window motor RH UP/DOWN signal	Power window control	Front power window motor RH
Encoder	Encoder pulse signal		
BCM	RAP signal		

POWER WINDOW OPERATION

- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.
- Power window main switch (driver side) can open/close all windows.
- Front & rear power window switch can open/close the corresponding windows.

POWER WINDOW AUTO-OPERATION (FRONT LH & RH)

- AUTO UP/DOWN operation can be performed when main power window and door lock/unlock switch & power window and door lock/unlock switch RH turns to AUTO.
- Encoder continues detecting the movement of power window motor and transmits to power window switch as the encoder pulse signal while power window motor is operating.
- Power window switch reads the changes of encoder signal and stops AUTO operation when door glass is at fully opened/closed position.
- Power window motor is operable in case encoder is malfunctioning.

RETAINED POWER OPERATION

- Retained power operation is an additional power supply function that enables power window system to operate during the 45 seconds even when ignition switch is turned OFF

Retained power function cancel conditions

- Front door CLOSE (door switch OFF)→OPEN (door switch ON).
- When ignition switch is ON.
- When timer time passes. (45 seconds)

POWER WINDOW LOCK

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

ANTI-PINCH OPERATION (FRONT LH & RH)

- Pinch foreign material in the door glass during AUTO-UP operation, and it is 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 to the LOCK or UNLOCK direction for more than 1 second to OPEN or CLOSE front 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 to LOCK position for more than 1 second to perform CLOSE operation of the door glass.

POWER WINDOW SYSTEM

[LH&RH FRONT ANTI-PINCH-SEDAN]

< FUNCTION DIAGNOSIS >

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

KEYLESS POWER WINDOW DOWN OPERATION (FRONT LH & RH)

Front power windows open when the unlock button on Intelligent Key is activated and kept pressed for more than 3^(NOTE) 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 unlock button is kept pressed more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

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

NOTE:

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUPPORT". Refer to [BCS-18, "COMMON ITEM : CONSULT-III Function"](#).

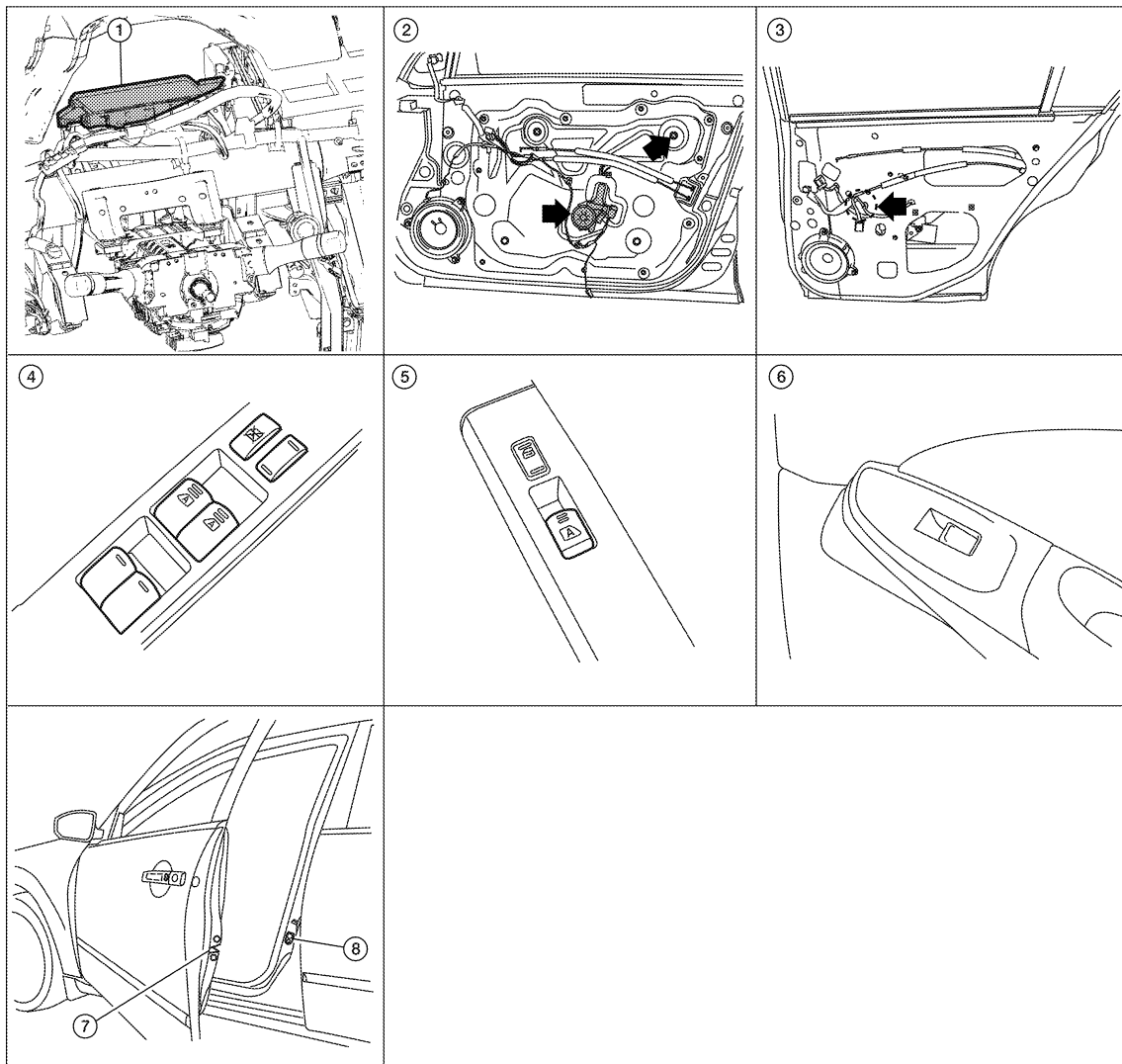
NOTE:

Use CONSULT-III to change settings.

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

Component Parts Location

INFOID:000000005434403



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POWER WINDOW SYSTEM

[LH&RH FRONT ANTI-PINCH-SEDAN]

< FUNCTION DIAGNOSIS >

1. BCM M16, M17, M18 (view with instrument panel removed)
2. Front power window motor LH D9, RH D104
3. Rear power window motor LH D204, RH D304
4. Main power window and door lock/unlock switch D7, D8
5. Power window and door lock/unlock switch RH D105
6. Rear power window switch LH D203, RH D303
7. Front door lock assembly LH (key cylinder switch) D10
8. Front door switch LH B8, RH B108

Component Description

INFOID:000000005434404

FRONT WINDOW ANTI-PINCH SYSTEM

Component	Function
BCM	<ul style="list-style-type: none">• Supplies power to power window switches.• Controls retained power.
Main power window and door lock/unlock switch	<ul style="list-style-type: none">• Directly controls all power window motor of all doors.• Controls anti-pinch operation of front power window LH.
Power window and door lock/unlock switch RH	<ul style="list-style-type: none">• Controls front power window motor RH.• Controls anti-pinch operation of front power window RH.
Rear power window switch	<ul style="list-style-type: none">• Controls rear power window motors LH and RH.
Front power window motor LH	<ul style="list-style-type: none">• Integrates the ENCODER POWER and WINDOW MOTOR.• Starts operating with signals from main power window and door lock/unlock switch.• Transmits power window motor rotation as a pulse signal to main power window and door lock/unlock switch.
Front power window motor RH	Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH.
Rear power window motor	Starts operating with signals from main power window and door lock/unlock switch & rear power window switch.
Front door lock assembly LH (key cylinder switch)	Transmits operation condition of key cylinder switch to power window main switch.
Front door switch LH or RH	Detects door open/close condition and transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : Diagnosis Description

INFOID:000000005803221

BCM CONSULT-III FUNCTION

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 MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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	×	×	×
Remote keyless entry system ¹	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system ²	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	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	AIR PRESSURE MONITOR	×	×	×

1 : With remote keyless entry system

2: With intelligent Key system

COMMON ITEM : CONSULT-III Function

INFOID:000000005803222

ECU IDENTIFICATION

DIAGNOSIS SYSTEM (BCM)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< FUNCTION DIAGNOSIS >

Displays the BCM part No.

SELF-DIAG RESULT

Refer to [BCS-70, "DTC Index"](#).

RETAINED PWR

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

INFOID:000000005803223

Data monitor

Monitor Item [Unit]	Description
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH.
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH.

POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000005434408

- BCM supplies power.
- It operates each power window motor via corresponding power window switch and makes window move up/down when main power window and door lock/unlock switch is operated.

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000005434409

Main Power Window And Door Lock/unlock Switch

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Does power window motor operate with main power window and door lock/unlock switch operation?

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch power supply and ground circuit are OK.
 NO >> Refer to [PWC-265. "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

INFOID:000000005434410

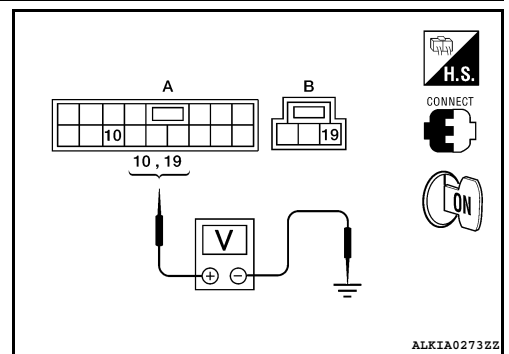
Regarding Wiring Diagram information, refer to [PWC-145. "Wiring Diagram"](#).

Main Power Window And Door Lock/unlock Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connectors (A and B) and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Main power window and door lock/unlock switch connector	Terminal		
D7 (A)	10	Ground	Battery voltage
D8 (B)	19		



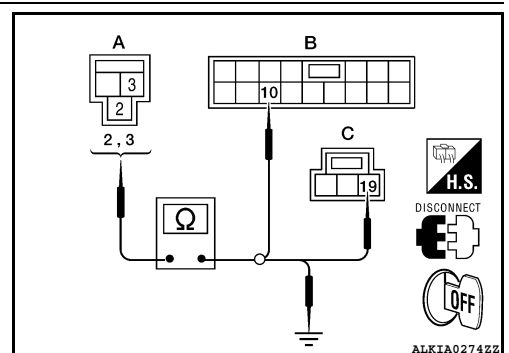
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and main power window and door lock/unlock switch.
3. Check continuity between BCM connector (A) and main power window and door lock/unlock switch connectors (B and C).

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M16 (A)	3	D7 (B)	10	Yes
	2	D8 (C)	19	



A
B
C
D
E
F
G
H
I
J
L
M
N
O
P

PWC

POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	3		Ground
	2		

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D8	17		Ground

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#).

After that, refer to [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector and ground.

Terminals		(-)	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	Ground	Battery voltage
M16	3		
		2	

Is the measurement value within the specification?

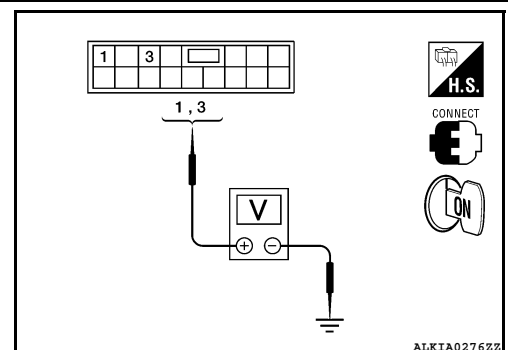
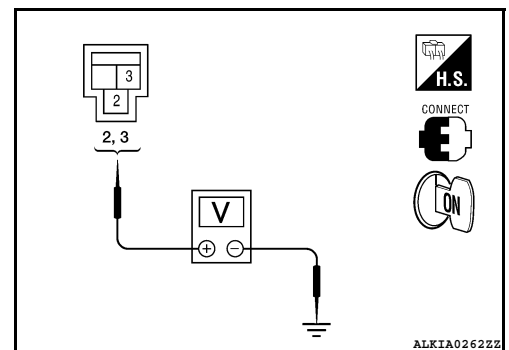
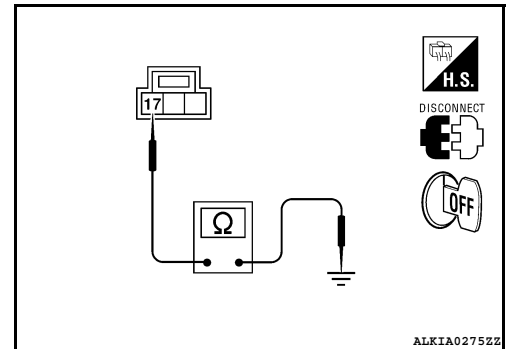
YES >> Check main power window and door lock/unlock switch output signal (rear power window switch LH) GO TO 5

YES >> Check main power window and door lock/unlock switch output signal (rear power window switch RH) GO TO 6

NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

5. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH LH)

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector and ground.



POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Terminal		Window condition	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal		
D7	1	UP	Battery voltage
		DOWN	0
	3	UP	0
		DOWN	Battery voltage

Is the measurement value within the specification?

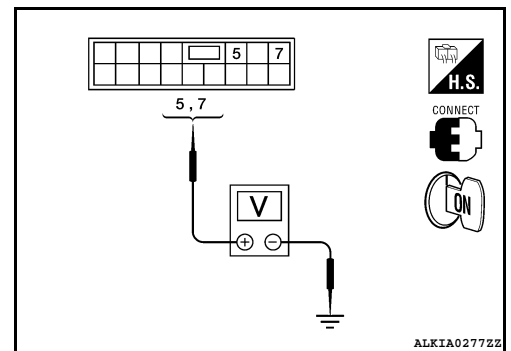
YES >> GO TO 7

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

6. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH RH)

- Turn ignition switch ON.
- Check voltage between main power window and door lock/unlock switch connector and ground.

Terminal		Window condition	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal		
D7	7	UP	Battery voltage
		DOWN	0
	5	UP	0
		DOWN	Battery voltage



Is the measurement value within the specification?

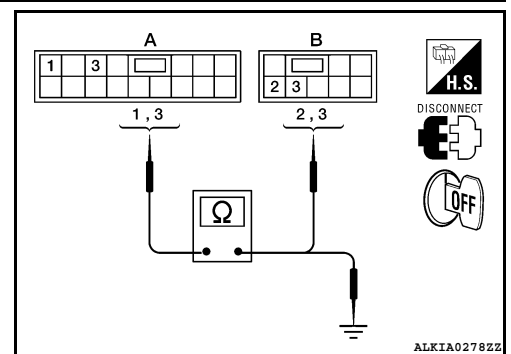
YES >> GO TO 8

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#).

7. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

- Turn ignition switch OFF.
- Disconnect rear power window switch LH.
- Check continuity between main power window and door lock/unlock switch connector and rear power window switch LH connector.

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch LH connector	Terminal	Continuity
D7 (A)	1	D203 (B)	2	Yes
	3		3	



- Check continuity between main power window and door lock/unlock switch connector and ground.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	1		Ground
	3		

Is the inspection result normal?

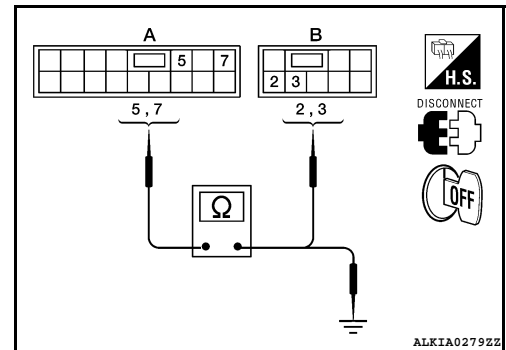
YES >> GO TO 9

NO >> Repair or replace harness.

8. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

- Turn ignition switch OFF.
- Disconnect rear power window switch RH.
- Check continuity between main power window and door lock/unlock switch connector and rear power window switch RH connector.

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch RH connector	Terminal	Continuity
D7 (A)	5	D303 (B)	3	Yes
	7		2	



- Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	5		Ground
	7		

Is the inspection result normal?

YES >> GO TO 9

NO >> Repair or replace harness.

9. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-268, "POWER WINDOW MAIN SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

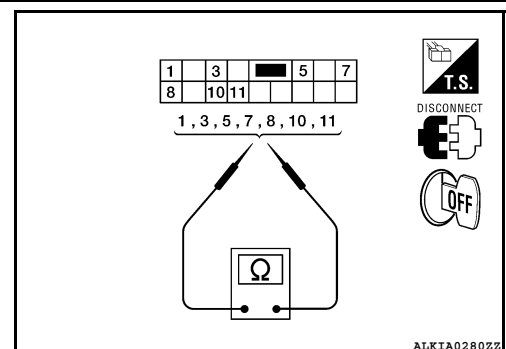
POWER WINDOW MAIN SWITCH : Component Inspection

INFOID:000000005434411

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

- Check main power window and door lock/unlock switch.

Terminal	Main power window and door lock/unlock switch condition	Continuity
10	1	UP
10	7	
1	3	NEUTRAL
5	7	
10	3	DOWN
10	5	



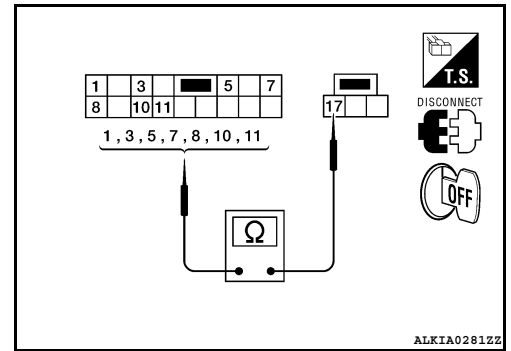
POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

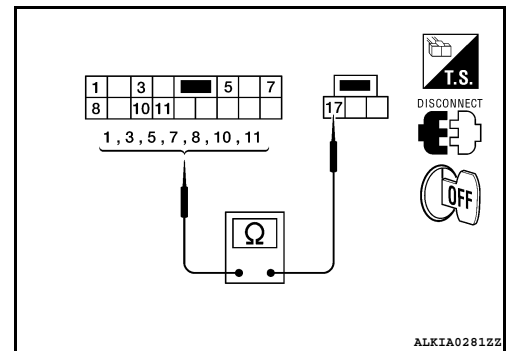
2. Check continuity between main power window and door lock/unlock switch condition. (Lock operation).

Terminal	Main power window and door lock/unlock switch condition	Continuity
3	Rear LH	UP
5	Rear RH	
1	Rear LH	NEUTRAL
3	Rear RH	
5	Rear LH	DOWN
7	Rear RH	



3. Check continuity between main power window and door lock/unlock switch condition. (Unlock operation).

Terminal	Main power window and door lock/unlock switch condition	Continuity
3	Rear LH	UP
5	Rear RH	
1	Rear LH	NEUTRAL
3	Rear RH	
5	Rear LH	DOWN
7	Rear RH	



Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch is OK.
 NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

PWC

POWER WINDOW MAIN SWITCH : Special Repair Requirement

INFOID:000000005434412

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
 NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
 NO >> Refer to [PWC-283, "DRIVER SIDE : Component Function Check"](#).

FRONT POWER WINDOW SWITCH

POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

FRONT POWER WINDOW SWITCH : Description

INFOID:000000005434413

- BCM supplies power.
- Front power window motor RH will be operated if power window and door lock/unlock switch RH is operated.

FRONT POWER WINDOW SWITCH : Component Function Check

INFOID:000000005434414

Power Window And Door Lock/unlock Switch RH

1. CHECK FRONT POWER WINDOW MOTOR RH FUNCTION

Does front power window motor RH operate with power window and door lock/unlock switch RH operation?

Is the inspection result normal?

- YES >> Power window and door lock/unlock switch RH power supply and ground circuit are OK.
 NO >> Refer to [PWC-270, "FRONT POWER WINDOW SWITCH : Diagnosis Procedure"](#).

FRONT POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000005434415

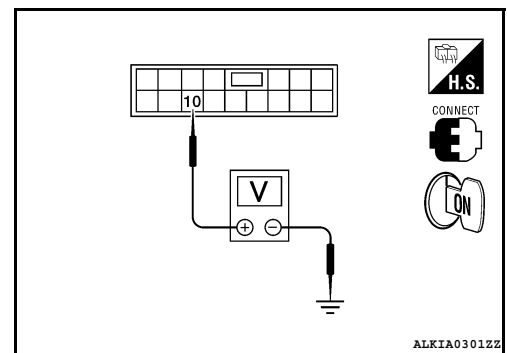
Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Power Window And Door Lock/unlock Switch RH Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

Check voltage between power window and door lock/unlock switch RH connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Power window and door lock/unlock switch RH connector	Terminal		
D105	10	Ground	Battery voltage



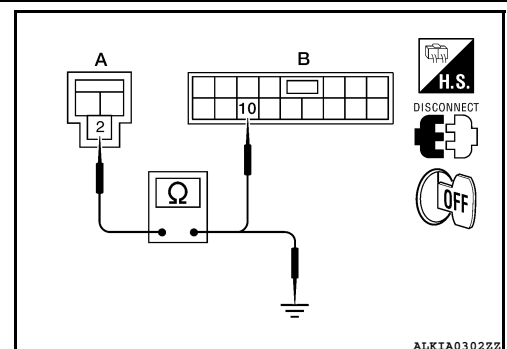
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and power window and door lock/unlock switch RH.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M16 (A)	2	D105 (B)	10	Yes



4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	2		No

Is the inspection result normal?

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

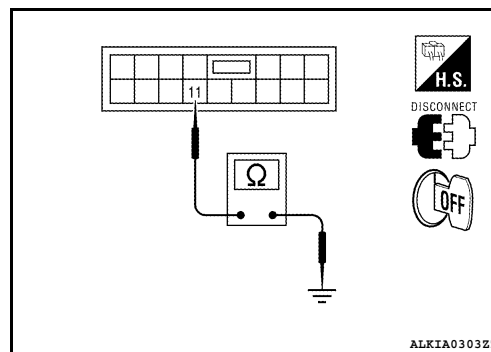
POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector and ground.



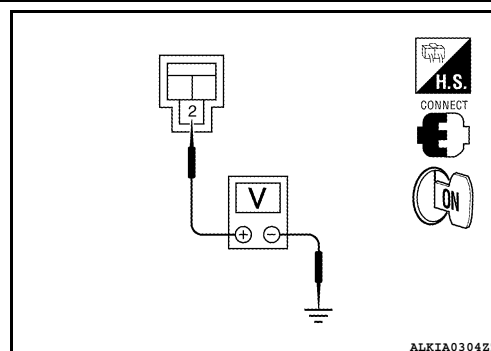
Power window and door lock/unlock switch RH	Terminal	Ground	Continuity
D105	11		Yes

Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-356, "Removal and Installation"](#). After that, refer to [PWC-271, "FRONT POWER WINDOW SWITCH : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector and ground.



Terminals		(-)	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M16	2	Ground	Battery voltage

Is the measurement value within the specification?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-356, "Removal and Installation"](#). After that, refer to [PWC-271, "FRONT POWER WINDOW SWITCH : Special Repair Requirement"](#).
- NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

FRONT POWER WINDOW SWITCH : Special Repair Requirement

INFOID:000000005434416

PWC

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
- NO >> Refer to [PWC-285, "PASSENGER SIDE : Component Function Check"](#).

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Description

INFOID:000000005434417

- BCM supplies power.
- Rear power window motor will be operated if rear power window switch is operated. Rear power window switch.

POWER SUPPLY AND GROUND CIRCUIT

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

REAR POWER WINDOW SWITCH : Component Function Check

INFOID:000000005434418

Rear Power Window Switch

1. CHECK REAR POWER WINDOW MOTOR FUNCTION

Does rear power window motor operate with rear power window switch operation?

Is the inspection result normal?

- YES >> Rear power window switch power supply and ground circuit are OK.
- NO >> Refer to [PWC-272, "REAR POWER WINDOW SWITCH : Diagnosis Procedure"](#).

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:000000005434419

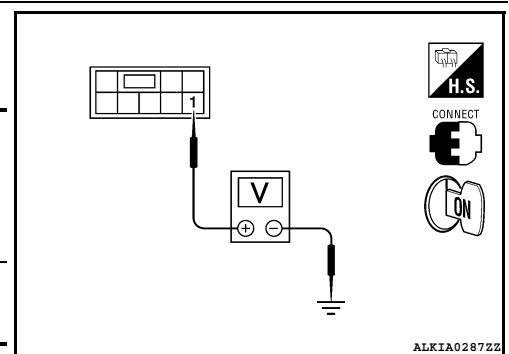
Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Rear Power Window Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT

Check voltage between rear power window switch connector and ground.

Terminal (+)		Terminal (-)	Condition	Voltage (V) (Approx.)
Rear power window switch connector	Terminal			
LH	D203	1	Ground	Ignition switch ON
RH	D303			



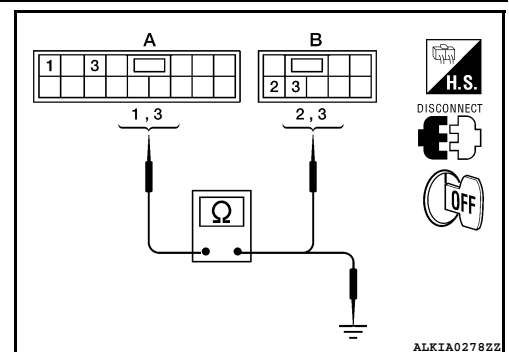
Is the measurement value within the specification?

- YES >> GO TO 2 (Rear power window switch LH)
- YES >> GO TO 3 (Rear power window switch RH)
- NO >> GO TO 4

2. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH LH)

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and rear power window switch LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch LH connector	Terminal	Continuity
D7 (A)	1	D203 (B)	2	Yes
	3		3	



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	1	Ground	No
	3		

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
- NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

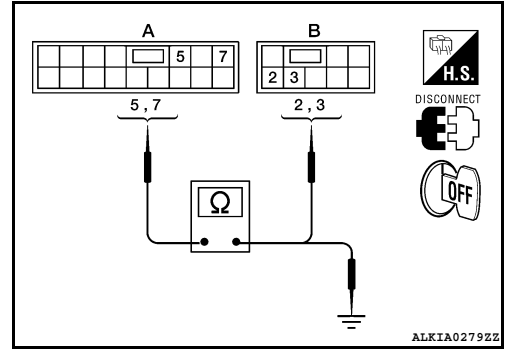
[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

3. CHECK HARNESS CONTINUITY (REAR POWER WINDOW SWITCH RH)

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and rear power window switch RH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and rear power window switch RH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Rear power window switch RH connector	Terminal	Continuity
D7 (A)	5	D303 (B)	3	Yes
	7		2	



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	5	Ground	No
	7		

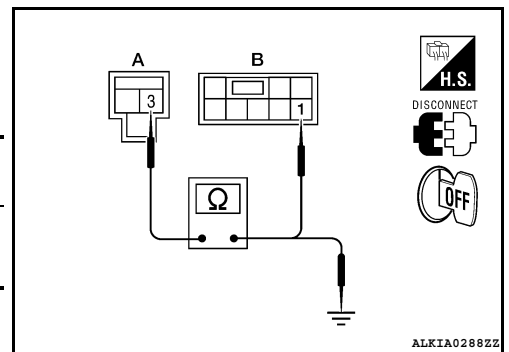
Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY

1. Disconnect BCM and rear power window switch.
2. Check continuity between BCM connector (A) and rear power window switch connector (B).

BCM connector	Terminal	Rear power window switch connector		Terminal	Continuity
M16 (A)	3	LH	D203 (B)	1	Yes
		RH	D303 (B)		



3. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	3	Ground	No

Is the inspection result normal?

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

5. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to [PWC-273. "REAR POWER WINDOW SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace rear power window switch. Refer to [PWC-357. "Removal and Installation - Rear Door Switch"](#).

REAR POWER WINDOW SWITCH : Component Inspection

INFOID:000000005434420

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW SWITCH

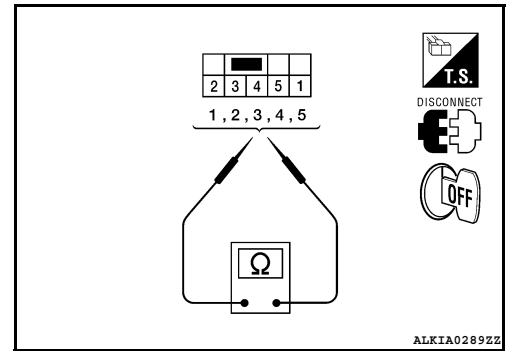
POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Check rear power window switch.

Terminal		Power window switch condition	Continuity
1	5	UP	Yes
3	4		
3	4	NEUTRAL	
5	2		
1	4	DOWN	
5	2		



Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Replace rear power window switch. Refer to [PWC-357. "Removal and Installation - Rear Door Switch"](#).

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

POWER WINDOW MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434421

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

DRIVER SIDE : Component Function Check

INFOID:000000005434422

1. CHECK POWER WINDOW MOTOR CIRCUIT

Does front power window motor LH operate with operating main power window and door lock/unlock switch?
Is the inspection result normal?

- YES >> Front power window motor LH is OK.
- NO >> Refer to [PWC-275. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434423

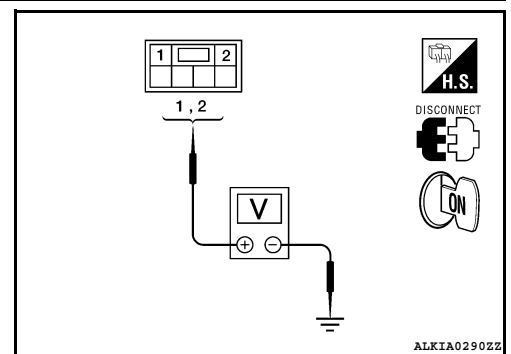
Regarding Wiring Diagram information, refer to [PWC-145. "Wiring Diagram"](#).

Front Power Window Motor LH Circuit Check

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

1. Disconnect front power window motor LH.
2. Turn ignition switch ON.
3. Check voltage between front power window motor LH connector and ground.

Terminal (+)		Terminal (-)	Main power window and door lock/unlock switch condition	Voltage (V) (Approx.)
Power window motor LH connector	Terminal			
D9	2	Ground	UP	Battery voltage
			DOWN	0
	1		UP	0
			DOWN	Battery voltage



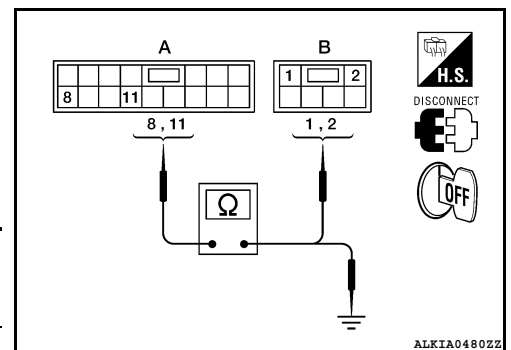
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor connector LH (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D7 (A)	8	D9 (B)	2	Yes
	11		1	



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PWC

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	8		
	11		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-276, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR

Check front power window motor LH.

Refer to [PWC-276, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-276, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Component Inspection

INFOID:000000005434424

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR LH

Does motor operate by connecting the battery voltage directly to power window motor?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

YES >> Front power window motor LH is OK.

NO >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-276, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000005434425

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to [PWC-283, "DRIVER SIDE : Component Function Check"](#).

PASSENGER SIDE

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:000000005434426

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or power window and door lock/unlock switch RH.

PASSENGER SIDE : Component Function Check

INFOID:000000005434427

1. CHECK POWER WINDOW MOTOR CIRCUIT

Does power window motor operate with operating main power window and door lock/unlock switch or power window and door lock/unlock switch RH?

Is the inspection result normal?

- YES >> Front power window motor RH is OK.
- NO >> Refer to [PWC-277. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005434428

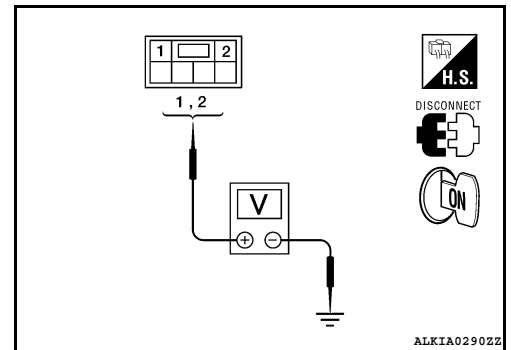
Regarding Wiring Diagram information, refer to [PWC-145. "Wiring Diagram"](#).

Front Power Window Motor RH Circuit Check

1. CHECK FRONT POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

Terminal (+)		Terminal (-)	Front power window motor RH condition	Voltage (V) (Approx.)
Front power window motor RH connector	Terminal			
D104	2	Ground	UP	Battery voltage
			DOWN	0
	1		UP	0
			DOWN	Battery voltage



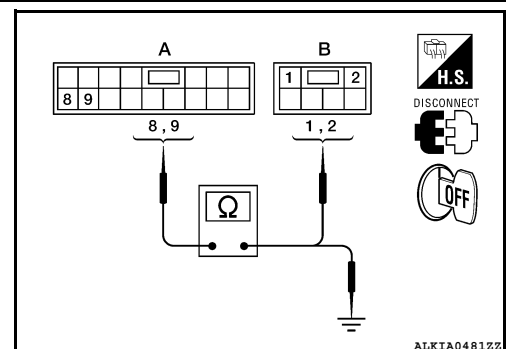
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector (A) and front power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Front power window motor RH connector	Terminal	Continuity
D105 (A)	8	D104 (B)	2	Yes
	9		1	



4. Check continuity between power window and door lock/unlock switch RH connector (A) and ground.

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Power window and door lock/unlock switch RH connector	Terminal		Ground	Continuity
	8	9		No
D105 (A)	8	9		No

Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-356, "Removal and Installation"](#). After that, refer to [PWC-278, "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.

Refer to [PWC-278, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
- NO >> Replace front power window motor RH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-278, "PASSENGER SIDE : Special Repair Requirement"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000005434429

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to front power window motor RH?

Terminal		Motor condition
(+)	(-)	
1	2	DOWN
2	1	UP

Is the inspection result normal?

- YES >> Front power window motor RH is OK.
- NO >> Replace front power window motor RH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-278, "PASSENGER SIDE : Special Repair Requirement"](#).

PASSENGER SIDE : Special Repair Requirement

INFOID:000000005434430

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Refer to [PWC-285, "PASSENGER SIDE : Component Function Check"](#).

REAR LH

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

REAR LH : Description

INFOID:000000005434431

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

REAR LH : Component Function Check

INFOID:000000005434432

1. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

Does rear power window motor LH operate with main power window and door lock/unlock switch or rear power window switch LH?

Is the inspection result normal?

- YES >> Rear power window motor LH is OK.
- NO >> Refer to [PWC-279, "REAR LH : Diagnosis Procedure"](#)

REAR LH : Diagnosis Procedure

INFOID:000000005434433

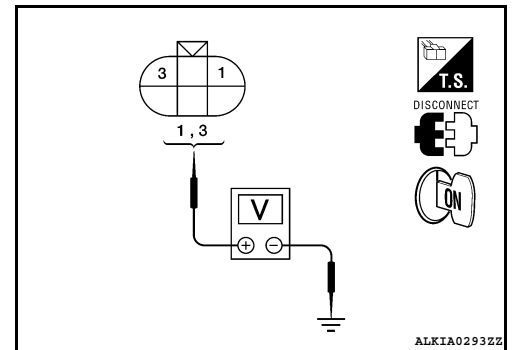
Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Power Window Motor Circuit Check

1. CHECK REAR POWER WINDOW SWITCH OUTPUT 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 connector and ground.

Terminal (+)		Terminal (-)	Window condition	Voltage (V) (Approx.)
Rear power window motor LH connector	Terminal			
D204	1	Ground	UP	Battery voltage
			DOWN	0
	3		UP	0
			DOWN	Battery voltage



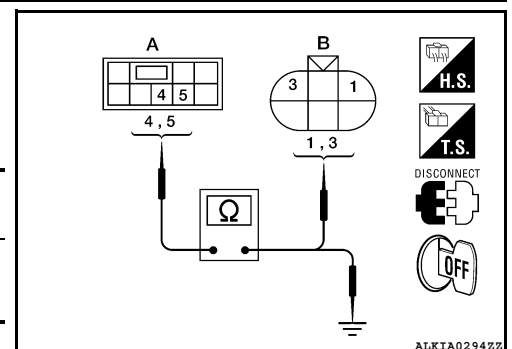
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect rear power window switch LH.
3. Check continuity between rear power window switch LH connector (A) and rear power window motor LH connector (B).

Rear power window switch LH connector	Terminal	Rear power window motor LH connector	Terminal	Continuity
D203 (A)	5	D204 (B)	1	Yes
	4		3	



4. Check continuity between rear power window switch LH connector (A) and ground.

POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Rear power window switch LH connector	Terminal	Ground	Continuity
D203 (A)	5		Ground
	4		

Is the inspection result normal?

YES >> Check rear power window switch LH. Refer to [PWC-273, "REAR POWER WINDOW SWITCH : Component Inspection"](#).

NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-280, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace rear power window motor LH. Refer to [GW-14, "Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000005434434

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR LH

Does motor operate by connecting the battery voltage directly to rear power window motor LH?

Terminal		Motor condition
(+)	(-)	
3	1	DOWN
1	3	UP

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to [GW-14, "Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000005434435

Door glass moves UP/DOWN by receiving the signal from main power window and door lock/unlock switch or rear power window switch RH.

REAR RH : Component Function Check

INFOID:000000005434436

1. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

Does rear power window motor RH operate with operating main power window and door lock/unlock switch or rear power window switch RH?

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to [PWC-280, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000005434437

Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Rear Power Window Motor RH Circuit Check

1. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

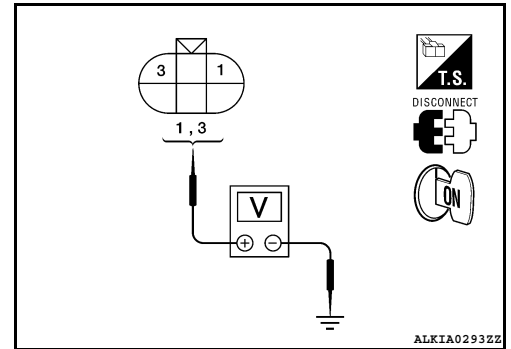
POWER WINDOW MOTOR

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

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

Terminal (+)		Terminal (-)	Rear power window switch RH condition	Voltage (V) (Approx.)
Rear power window motor RH connector	Terminal			
D304	1	Ground	UP	Battery voltage
			DOWN	0
	3		UP	0
			DOWN	Battery voltage



Is the measurement value within the specification?

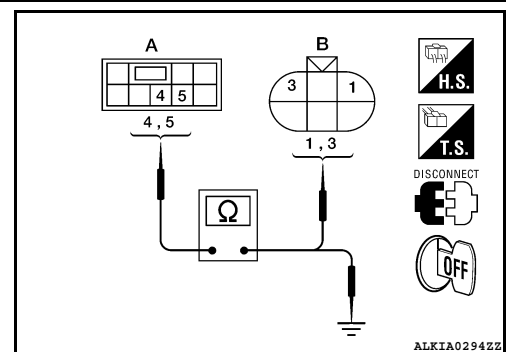
YES >> GO TO 3

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect rear power window switch RH.
3. Check continuity between rear power window switch RH connector (A) and rear power window motor RH connector (B).

Rear power window switch RH connector	Terminal	Rear power window motor RH connector	Terminal	Continuity
D303 (A)	5	D304 (B)	1	Yes
	4		3	



4. Check continuity between rear power window switch RH connector (A) and ground.

Rear power window switch RH connector	Terminal	Ground	Continuity
D303 (A)	5	Ground	No
	4		

Is the inspection result normal?

YES >> Check rear power window switch RH. Refer to [PWC-273, "REAR POWER WINDOW SWITCH : Component Inspection"](#).

NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-281, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace rear power window motor RH. Refer to [GW-14, "Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000005434438

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

Does motor operate by connecting the battery voltage directly to rear power window motor RH?

POWER WINDOW MOTOR

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Terminal		Motor condition
(+)	(-)	
3	1	DOWN
1	3	UP

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Replace rear power window motor RH. Refer to [GW-14, "Removal and Installation"](#).

ENCODER

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

ENCODER DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005434439

Detects condition of the front power window motor LH operation and transmits to main power window and door lock/unlock switch as pulse signal.

DRIVER SIDE : Component Function Check

INFOID:000000005434440

1. CHECK ENCODER OPERATION

Does front door glass LH perform AUTO open/close operation normally when operating main power window and door lock/unlock switch?

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to [PWC-283, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005434441

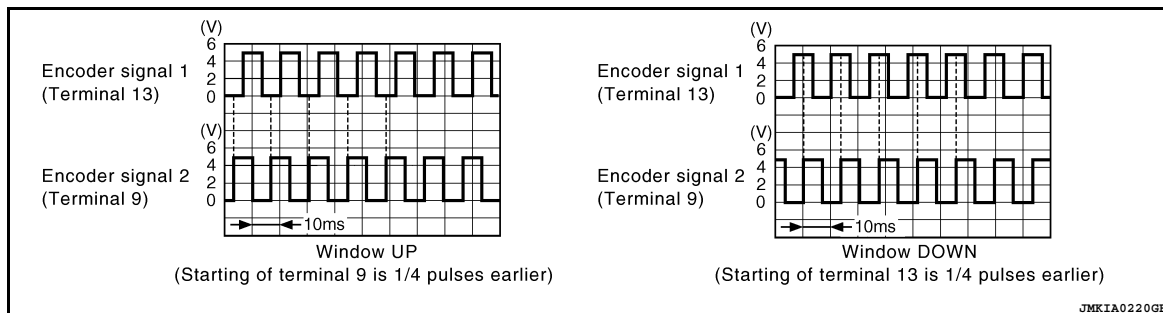
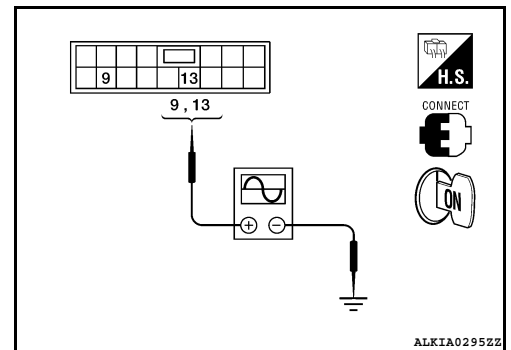
Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Encoder Circuit Check

1. CHECK ENCODER OPERATION

1. Turn ignition switch ON.
2. Check signal between main power window and door lock/unlock switch connector and ground with oscilloscope.

Terminals		Signal (Reference value)
(+)	(-)	
Main power window and door lock/unlock switch connector	Terminal	Ground
	D7	
	9	Refer to following signal
	13	



Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> GO TO 2

2. CHECK FRONT POWER WINDOW MOTOR LH POWER SUPPLY

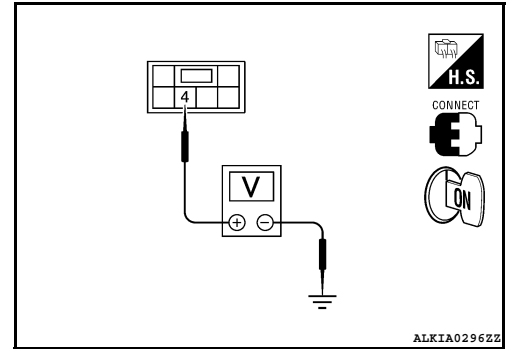
ENCODER

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch ON.
2. Check voltage between front power window motor LH connector and ground.

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Front power window motor LH connector	Terminal	
D9	4	Ground 10



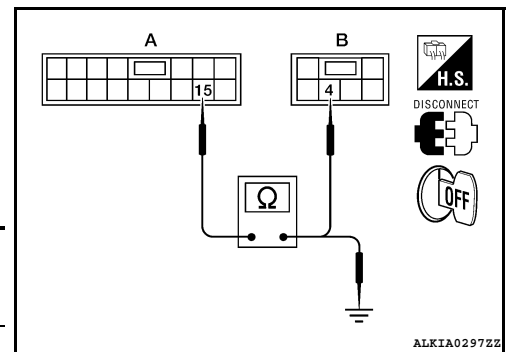
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D7 (A)	15	D9 (B)	4	Yes



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	15		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).
NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

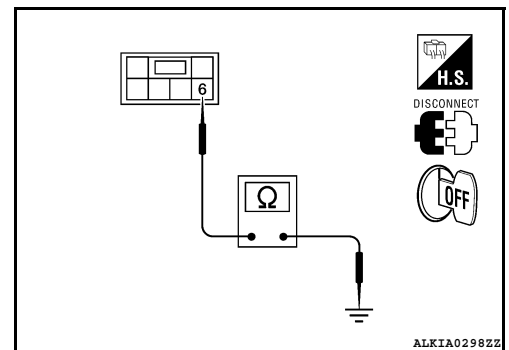
1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Check continuity between front power window motor LH connector and ground.

Front power window motor LH connector	Terminal	Ground	Continuity
D9	6		Yes

Is the inspection result normal?

- YES >> GO TO 6
NO >> GO TO 5

5. CHECK HARNESS CONTINUITY 2



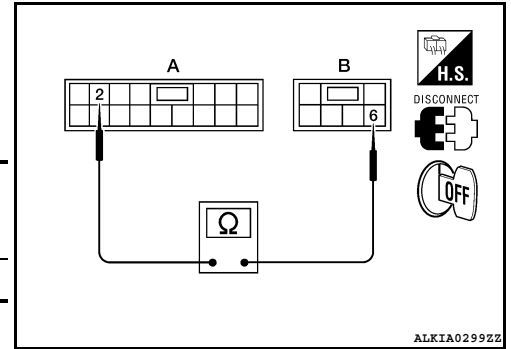
ENCODER

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D7 (A)	2	D9 (B)	6	Yes



Is the inspection result normal?

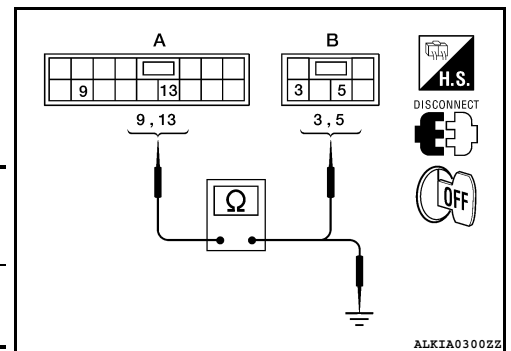
YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between main power window and door lock/unlock switch connector (A) and front power window motor LH connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D7 (A)	9	D9 (B)	3	Yes
	13		5	



3. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	9	Ground	No
	13		

Is the inspection result normal?

YES >> Replace front power window motor LH. Refer to [GW-19, "Removal and Installation"](#). After that, refer to [PWC-276, "DRIVER SIDE : Special Repair Requirement"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000005434442

Detects condition of the front power window motor RH operation and transmits to power window and door lock/unlock switch RH as pulse signal.

PASSENGER SIDE : Component Function Check

INFOID:000000005434443

1. CHECK ENCODER OPERATION

Does front door glass RH perform AUTO open/close operation normally when operating power window and door lock/unlock switch RH?

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to [PWC-285, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005434444

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ENCODER

< COMPONENT DIAGNOSIS >

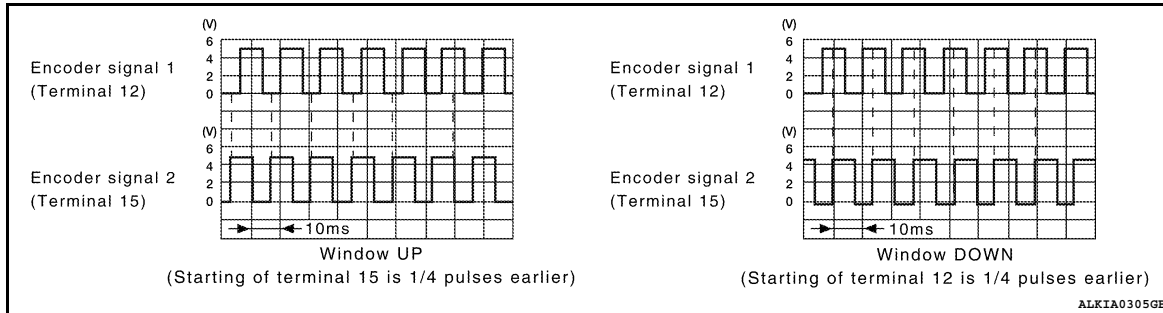
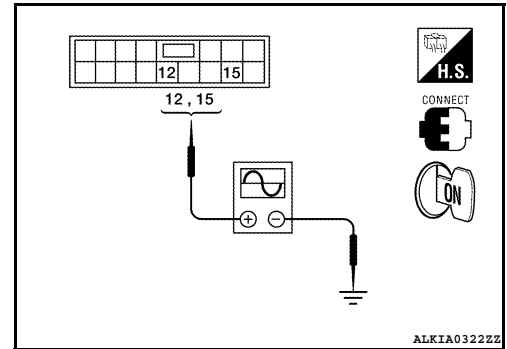
[LH&RH FRONT ANTI-PINCH-SEDAN]

Regarding Wiring Diagram information, refer to [PWC-145. "Wiring Diagram"](#).

1. CHECK ENCODER SIGNAL

1. Connect front power window motor RH.
2. Turn ignition switch ON.
3. Check signal between power window and door lock/unlock switch RH connector and ground with oscilloscope.

Terminals		Signal (Reference value)
(+)	(-)	
Power window and door lock/unlock switch RH connector	Terminal	Ground
D105	12	
	15	Refer to following signal



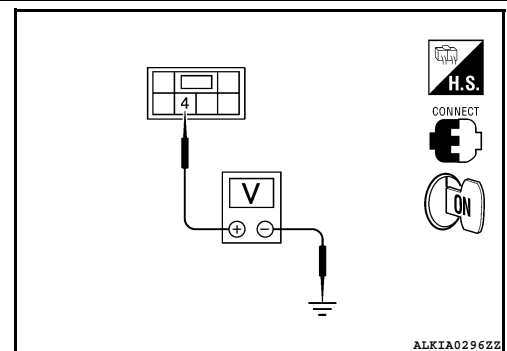
Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> GO TO 2

2. CHECK FRONT POWER WINDOW MOTOR RH POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between front power window motor RH connector and ground.

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Front power window motor RH connector	Terminal	10
D105	4	



Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

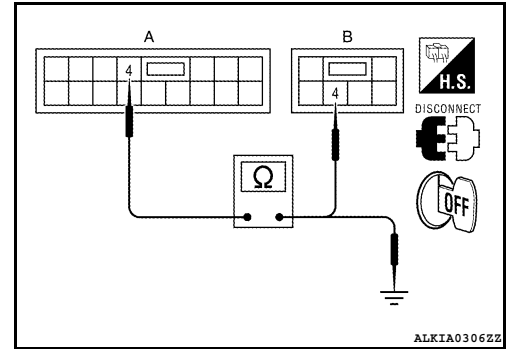
ENCODER

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH and front power window motor RH.
3. Check continuity between power window and door lock/unlock switch RH connector (A) and front power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Front power window motor RH connector	Terminal	Continuity
D105 (A)	4	D104 (B)	4	Yes



4. Check continuity between power window and door lock/unlock switch RH connector (A) and ground.

Power window and door lock/unlock switch RH connector	Terminal	Ground	Continuity
D105 (A)	4		No

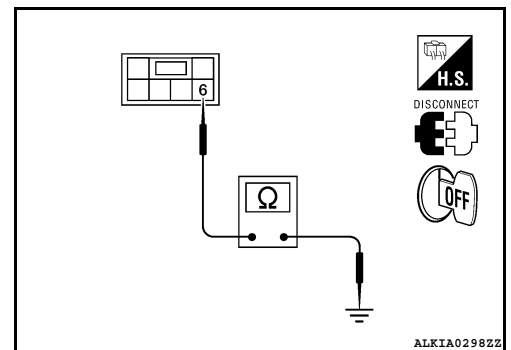
Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-356, "Removal and Installation"](#). After that, refer to [PWC-271, "FRONT POWER WINDOW SWITCH : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Check continuity between front power window motor RH connector and ground.

Front power window motor RH connector	Terminal	Ground	Continuity
D104	6		Yes



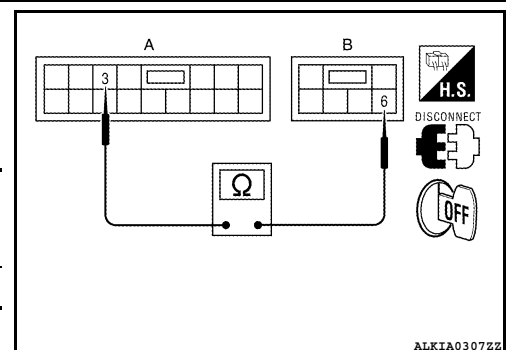
Is the inspection result normal?

- YES >> GO TO 6
- NO >> GO TO 5

5. CHECK HARNESS CONTINUITY 2

1. Disconnect power window and door lock/unlock switch RH.
2. Check continuity between power window and door lock/unlock switch RH connector (A) and front power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Front power window motor RH connector	Terminal	Continuity
D105 (A)	3	D104 (B)	6	Yes



Is the inspection result normal?

- YES >> Replace power window and door lock/unlock switch RH. Refer to [PWC-356, "Removal and Installation"](#). After that, refer to [PWC-271, "FRONT POWER WINDOW SWITCH : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

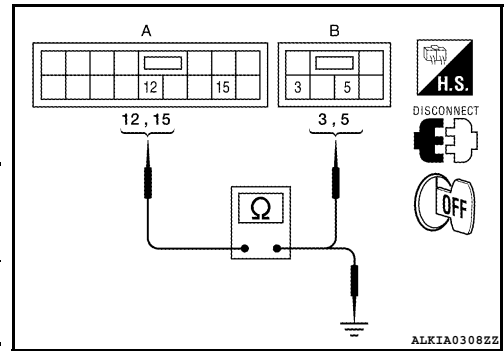
ENCODER

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Disconnect power window and door lock/unlock switch RH.
2. Check continuity between power window and door lock/unlock switch RH connector (A) and front power window motor RH connector (B).

Power window and door lock/unlock switch RH connector	Terminal	Front power window motor RH connector	Terminal	Continuity
D105 (A)	12	D104 (B)	5	Yes
	15		3	



3. Check continuity between power window and door lock/unlock switch RH connector (A) and ground.

Power window and door lock/unlock switch RH connector	Terminal	Ground	Continuity
D105 (A)	12	Ground	No
	15		

Is the inspection result normal?

- YES >> Replace front power window motor RH. Refer to [GW-19. "Removal and Installation"](#). After that, refer to [PWC-278. "PASSENGER SIDE : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

DOOR SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

DOOR SWITCH

Description

INFOID:000000005434445

Detects door open/close condition and transmits the signal to BCM.

Component Function Check

INFOID:000000005434446

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-III. Refer to [BCS-34. "RETAINED PWR : CONSULT-III Function \(BCM - RETAINED PWR\)"](#).

Monitor item	Condition	
DOOR SW-DR	OPEN	: ON
	CLOSE	: OFF
DOOR SW-AS	OPEN	: ON
	CLOSE	: OFF

Is the inspection result normal?

- YES >> Front door switch circuit is OK.
- NO >> Refer to [PWC-289. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005434447

Regarding Wiring Diagram information, refer to [PWC-145. "Wiring Diagram"](#).

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M18	32	Front door RH OPEN	0
		Front door RH CLOSE	Battery voltage
	58	Front door LH OPEN	0
		Front door LH CLOSE	Battery voltage

Is the measurement value within the specification?

- YES >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).
- NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and front door switch.
3. Check continuity between BCM connector and front door switch connector.

BCM connector	Terminal	Front door switch connector	Terminal	Continuity
M18	32	RH: B108	2	Yes
	58	LH: B8		

4. Check continuity between BCM connector and ground.

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PWC

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

BCM connector	Terminal	Ground	Continuity
M18	32		Ground
	58		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
BCM connector	Terminal		
M18	32	Ground	Battery voltage
	58		

Is the measurement value within the specification?

- YES >> GO TO 4
 NO >> Replace BCM. Refer to [BCS-96. "Removal and Installation"](#).

4. CHECK FRONT DOOR SWITCH

Check front door switch.
 Refer to [PWC-290. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).
 NO >> Replace front door switch.

Component Inspection

INFOID:000000005434448

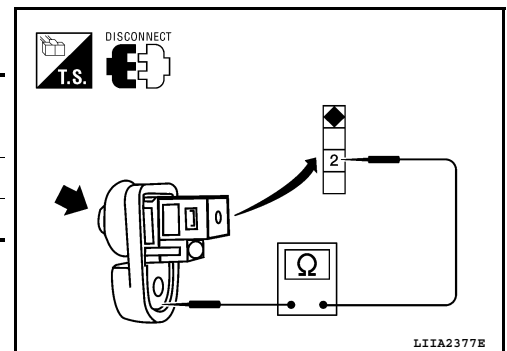
1. CHECK FRONT DOOR SWITCH

Check front door switches.

Terminal		Door switch	Continuity
Door switches			
2	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

- YES >> Front door switch is OK.
 NO >> Replace front door switch.



DOOR KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH

Description

INFOID:000000005434449

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

Component Function Check

INFOID:000000005434450

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 [BCS-19. "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-291. "Diagnosis Procedure"](#).

Diagnosis Procedure

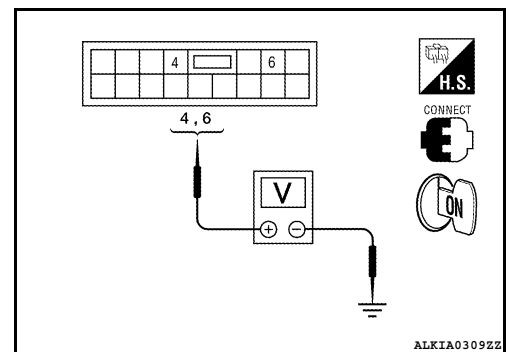
INFOID:000000005434451

Regarding Wiring Diagram information, refer to [PWC-145. "Wiring Diagram"](#).

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal		
	D7	Ground	
	4	Lock	0
		Neutral/Unlock	5
	6	Unlock	0
		Neutral/Lock	5



Is the measurement value within the specification?

- YES >> Replace main power window and door lock/unlock switch. After that, refer to [PWC-269. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).
- NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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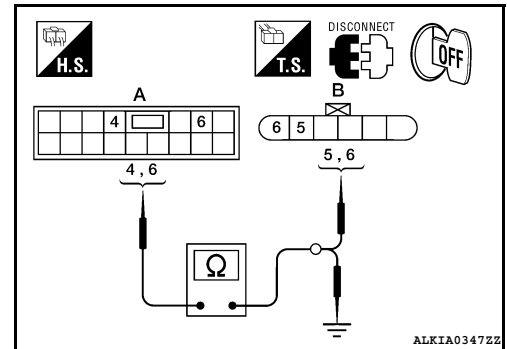
DOOR KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front door lock assembly LH (key cylinder switch).
3. Check continuity between main power window and door lock/unlock switch connector (A) and front door lock assembly LH (key cylinder switch) connector (B).

Main power window and door lock/unlock switch connector	Terminal	Front door lock assembly LH (key cylinder switch) connector	Terminal	Continuity
D7 (A)	4	D10 (B)	6	Yes
	6		5	



4. Check continuity between main power window and door lock/unlock switch connector (A) and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7 (A)	4	Ground	No
	6		

Is the inspection result normal?

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

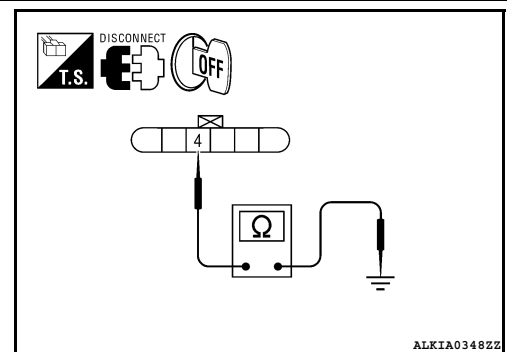
3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly LH (key cylinder switch) connector and ground.

Front door lock assembly LH (key cylinder switch) connector	Terminal	Ground	Continuity
D10	4	Ground	Yes

Is the inspection result normal?

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



4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
 Refer to [PWC-292, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
 NO >> Replace front door lock assembly LH (door key cylinder switch). After that, refer to [PWC-293, "Special Repair Requirement"](#).

Component Inspection

INFOID:000000005434452

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

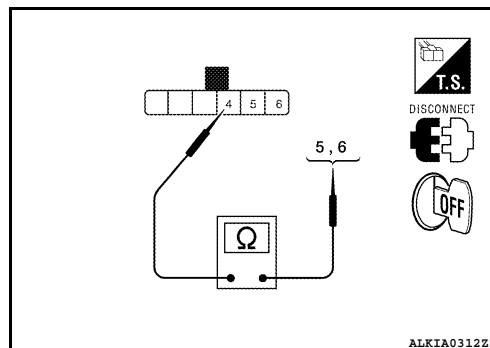
DOOR KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Check front door lock assembly LH (key cylinder switch).

Terminal		Key position	Continuity
Front door lock assembly LH (key cylinder switch) connector			
5	4	Unlock	Yes
		Neutral/Lock	No
6		Lock	Yes
		Neutral/Unlock	No



Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace front door lock assembly LH (key cylinder switch). After that, refer to [PWC-293, "Special Repair Requirement"](#).

Special Repair Requirement

INFOID:000000005434453

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

POWER WINDOW SERIAL LINK

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH : Description

INFOID:000000005434454

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH

- Keyless power window down signal

The signal mentioned below is transmitted from main power window and door lock/unlock switch to power window and door lock/unlock switch RH

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

POWER WINDOW MAIN SWITCH : Component Function Check

INFOID:000000005434455

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to [BCS-19, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to [PWC-294, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

POWER WINDOW MAIN SWITCH : Diagnosis Procedure

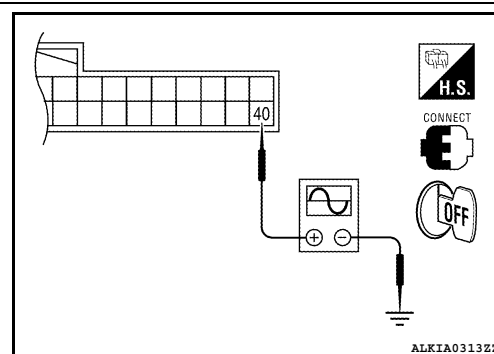
INFOID:000000005434456

Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Power Window Serial Link Check

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Remove Intelligent Key, and close front door LH and RH.
2. Check signal between BCM connector and ground with oscilloscope when door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".
3. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".



POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M18	40	Ground

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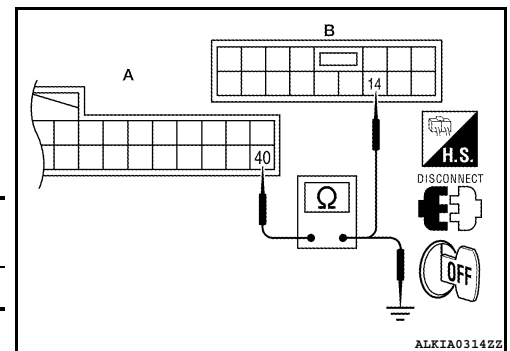
Is the inspection result normal?

- YES >> Power window serial link is OK.
 NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and main power window and door lock/unlock switch.
- Check continuity between BCM connector (A) and main power window and door lock/unlock switch connector (B).

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M18 (A)	40	D7 (B)	14	Yes



- Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	40		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355. "Removal and Installation"](#). After that, refer to [PWC-269. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

- NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH : Description

INFOID:000000005434457

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH and BCM transmit and receive the signal by power window serial link.

The signal mentioned below is transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH

- Keyless power window down signal

The signal mentioned below is transmitted from main power window and door lock/unlock switch to power window and door lock/unlock switch RH

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

FRONT POWER WINDOW SWITCH : Component Function Check

INFOID:000000005434458

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OUTPUT SIGNAL

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POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to [BCS-19, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to [PWC-296, "FRONT POWER WINDOW SWITCH : Diagnosis Procedure"](#).

FRONT POWER WINDOW SWITCH : Diagnosis Procedure

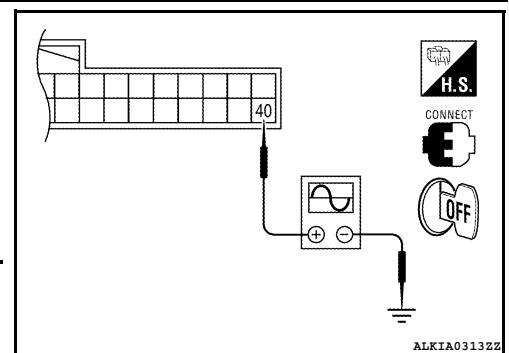
INFOID:000000005434459

Regarding Wiring Diagram information, refer to [PWC-145, "Wiring Diagram"](#).

Power Window Serial Link Check

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

1. Remove Intelligent Key, and close the front door LH and RH.
2. Check signal between BCM connector and ground with oscilloscope when door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".
3. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (LH and RH) is turned to "LOCK" or "UNLOCK".



Terminal (+)		Terminal (-)	Signal (Reference value)
BCM connector	Terminal		
M18	40	Ground	

Is the inspection result normal?

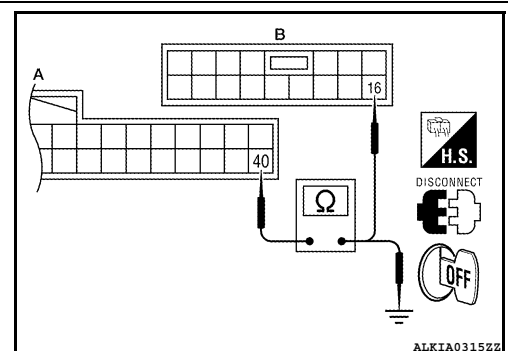
YES >> Power window serial link is OK.

NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM.
3. Check continuity between BCM connector (A) and power window and door lock/unlock switch RH connector (B).

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M18 (A)	40	D105 (B)	16	Yes



POWER WINDOW SERIAL LINK

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	40		No

Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355. "Removal and Installation"](#). After that, refer to [PWC-269. "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).
- NO >> Repair or replace harness.

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POWER WINDOW LOCK SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< COMPONENT DIAGNOSIS >

POWER WINDOW LOCK SWITCH

Description

INFOID:000000005434460

Ground circuit of main power window and door lock/unlock switch shuts off if power window lock switch of main power window and door lock/unlock switch is operated. This inhibits all operation, except for the main switch.

Component Function Check

INFOID:000000005434461

1. CHECK POWER WINDOW LOCK SIGNAL

Exchanges for a normal main power window and door lock/unlock switch, and operation is checked.

Does power window lock operate?

- YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-355, "Removal and Installation"](#). After that, refer to [PWC-298, "Special Repair Requirement"](#).
- NO >> Check condition of harness and connector.

Special Repair Requirement

INFOID:000000005434462

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> Inspection end.
- NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

POWER WINDOW MAIN SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

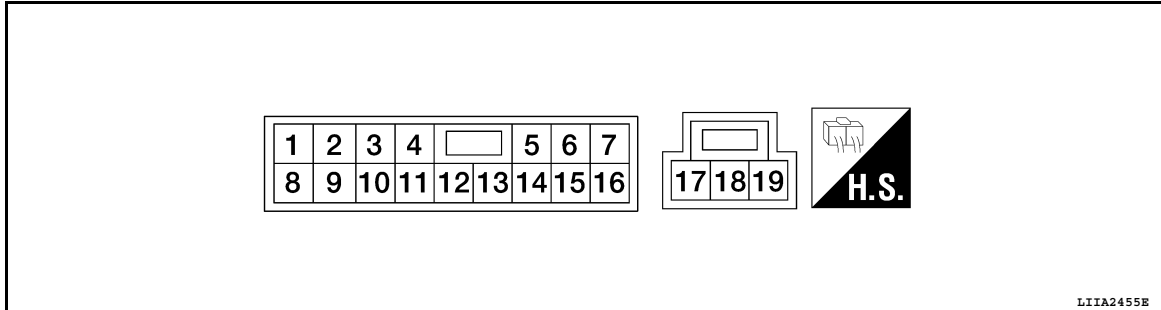
ECU DIAGNOSIS

POWER WINDOW MAIN SWITCH

Reference Value

INFOID:000000005434463

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

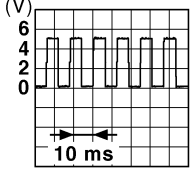
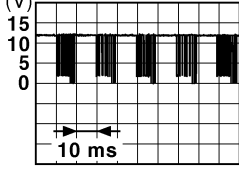
Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
1 (Y)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is operated UP.	Battery voltage
2 (G)	Ground	Encoder ground	—	—	0
3 (O)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is operated DOWN.	Battery voltage
4 (L/B)	Ground	Door key cylinder switch LH LOCK signal	Input	Key position (Neutral → Locked)	5 → 0
5 (SB)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is operated DOWN.	Battery voltage
6 (L/R)	Ground	Door key cylinder switch LH UNLOCK signal	Input	Key position (Neutral → Unlocked)	5 → 0
7 (P)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is operated UP.	Battery voltage
8 (R)	11	Front door power window mo- tor LH UP signal	Output	When front LH switch in power window main switch is operated UP.	Battery voltage
9 (W)	2	Encoder pulse signal 2	Input	When power window mo- tor operates.	

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POWER WINDOW MAIN SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
10 (V)	Ground	RAP signal	Input	IGN SW ON	Battery voltage
				Within 45 second after ignition switch is turned to OFF.	Battery voltage
				When front LH or RH door is opened during retained power operation.	0
11 (LG)	8	Front door power window motor LH DOWN signal	Output	When front LH switch in power window main switch is operated DOWN.	Battery voltage
13 (SB)	2	Encoder pulse signal 1	Input	When power window motor operates.	 JMKIA0070GB
14 (BR)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	 JPMIA0013GB
15 (GR)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates.	10
17 (B)	Ground	Ground	—	—	0
19 (W)		Battery power supply	Input	—	Battery voltage

Fail Safe

INFOID:000000005434465

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.

POWER WINDOW MAIN SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Error	Error condition
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).

A

B

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

C

- Auto-up operation
- Anti-pinch function
- Retained power function

D

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

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FRONT POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

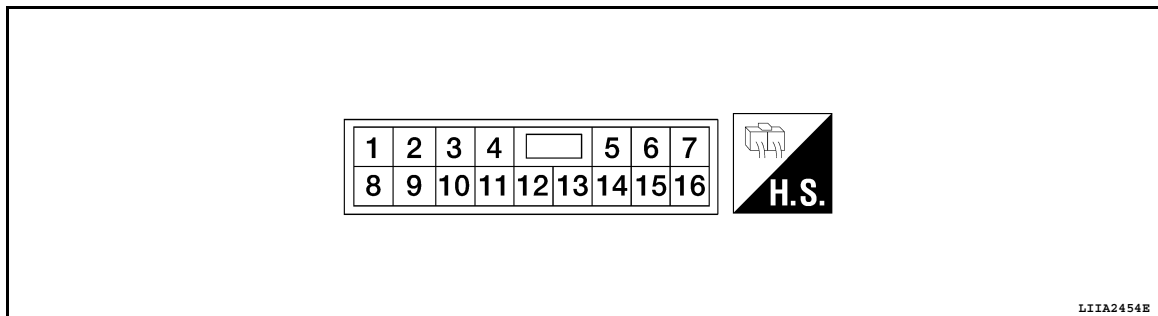
< ECU DIAGNOSIS >

FRONT POWER WINDOW SWITCH

Reference Value

INFOID:000000005434466

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

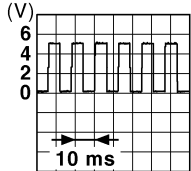
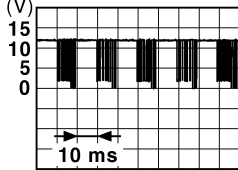
Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
3 (W)	Ground	Encoder ground	—	—	0
4 (BR)	Ground	Encoder power supply	Output	When ignition switch ON or power window timer operates	10
8 (L)	9	Power window motor UP signal	Output	When power window motor is UP at operated.	Battery voltage
9 (LG)	8	Power window motor DOWN signal	Output	When power window motor is DOWN at operated.	Battery voltage
10 (P)	Ground	Battery power supply	Input	—	Battery voltage
11 (B)	Ground	Ground	—	—	0
12 (Y)	3	Encoder pulse signal 1	Input	When power window motor operates.	

JMKIA0070GB

FRONT POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No.		Description		Condition	Voltage [V] (Approx.)
+	-	Signal name	Input/ Output		
15 (G)	3	Encoder pulse signal 2	Input	When power window motor operates.	 <p style="text-align: right; font-size: small;">JMK1A0070GB</p>
16 (R)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	 <p style="text-align: right; font-size: small;">JPM1A0013GB</p>

Fail Safe

INFOID:000000005434468

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
- Retained power function

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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005783648

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
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	Rear door RH closed	OFF
	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
	Rear door LH opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
	Power door lock switch LOCK	ON

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF	A
	Power door lock switch UNLOCK	ON	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF	B
	Driver door key cylinder LOCK position	ON	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF	C
	Driver door key cylinder UNLOCK position	ON	
HAZARD SW	When hazard switch is not pressed	OFF	D
	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF	E
	Trunk lid opener cancel switch ON	ON	
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF	F
	While the trunk lid opener switch is turned ON	ON	
TRNK/HAT MNTR	Trunk lid closed	OFF	G
	Trunk lid opened	ON	
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF	H
	When LOCK button of Intelligent Key is pressed	ON	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF	I
	When UNLOCK button of Intelligent Key is pressed	ON	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	J
	When TRUNK OPEN button of Intelligent Key is pressed	ON	
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF	
	When PANIC button of Intelligent Key is pressed	ON	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
	When UNLOCK button of Intelligent Key is pressed and held	ON	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	PWC
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V	L
	When outside of the vehicle is dark	Close to 0 V	
REQ SW-DR	When driver door request switch is not pressed	OFF	M
	When driver door request switch is pressed	ON	
REQ SW-AS	When passenger door request switch is not pressed	OFF	N
	When passenger door request switch is pressed	ON	
REQ SW-BD/TR	When trunk request switch is not pressed	OFF	O
	When trunk request switch is pressed	ON	
PUSH SW	When engine switch (push switch) is not pressed	OFF	P
	When engine switch (push switch) is pressed	ON	
IGN RLY2-F/B	Ignition switch OFF or ACC	OFF	
	Ignition switch ON	ON	
ACC RLY-F/B	Ignition switch OFF	OFF	
	Ignition switch ACC or ON	ON	
CLUTCH SW	When the clutch pedal is not depressed	OFF	
	When the clutch pedal is depressed	ON	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Monitor Item	Condition	Value/Status
BRAKE SW 1	When the brake pedal is not depressed	ON
	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN/N SW	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
UNLK SEN-DR	Driver door UNLOCK status	OFF
	Driver door LOCK status	ON
PUSH SW-IPDM	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
DETE SW -IPDM	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
SFT P-MET	When selector lever is in any position other than P	OFF
	When selector lever is in P position	ON
SFT N-MET	When selector lever is in any position other than N	OFF
	When selector lever is in N position	ON
ENGINE STATE	Engine stopped	STOP
	While the engine stalls	STALL
	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
DOOR STAT-AS	Passenger door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK FLAG	Ignition switch ACC or ON	RESET
	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET	A
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE	B
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET	C
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE	
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET	D
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE	
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET	E
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE	F
TP 4	The ID of fourth key is not registered to BCM	YET	
	The ID of fourth key is registered to BCM	DONE	G
TP 3	The ID of third key is not registered to BCM	YET	
	The ID of third key is registered to BCM	DONE	H
TP 2	The ID of second key is not registered to BCM	YET	
	The ID of second key is registered to BCM	DONE	I
TP 1	The ID of first key is not registered to BCM	YET	
	The ID of first key is registered to BCM	DONE	J
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	PWC
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire	
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE	L
	When ID of front LH tire transmitter is not registered	YET	
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE	M
	When ID of front RH tire transmitter is not registered	YET	
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE	N
	When ID of rear RH tire transmitter is not registered	YET	
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE	O
	When 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	P
	Tire pressure warning alarm is sounding	ON	

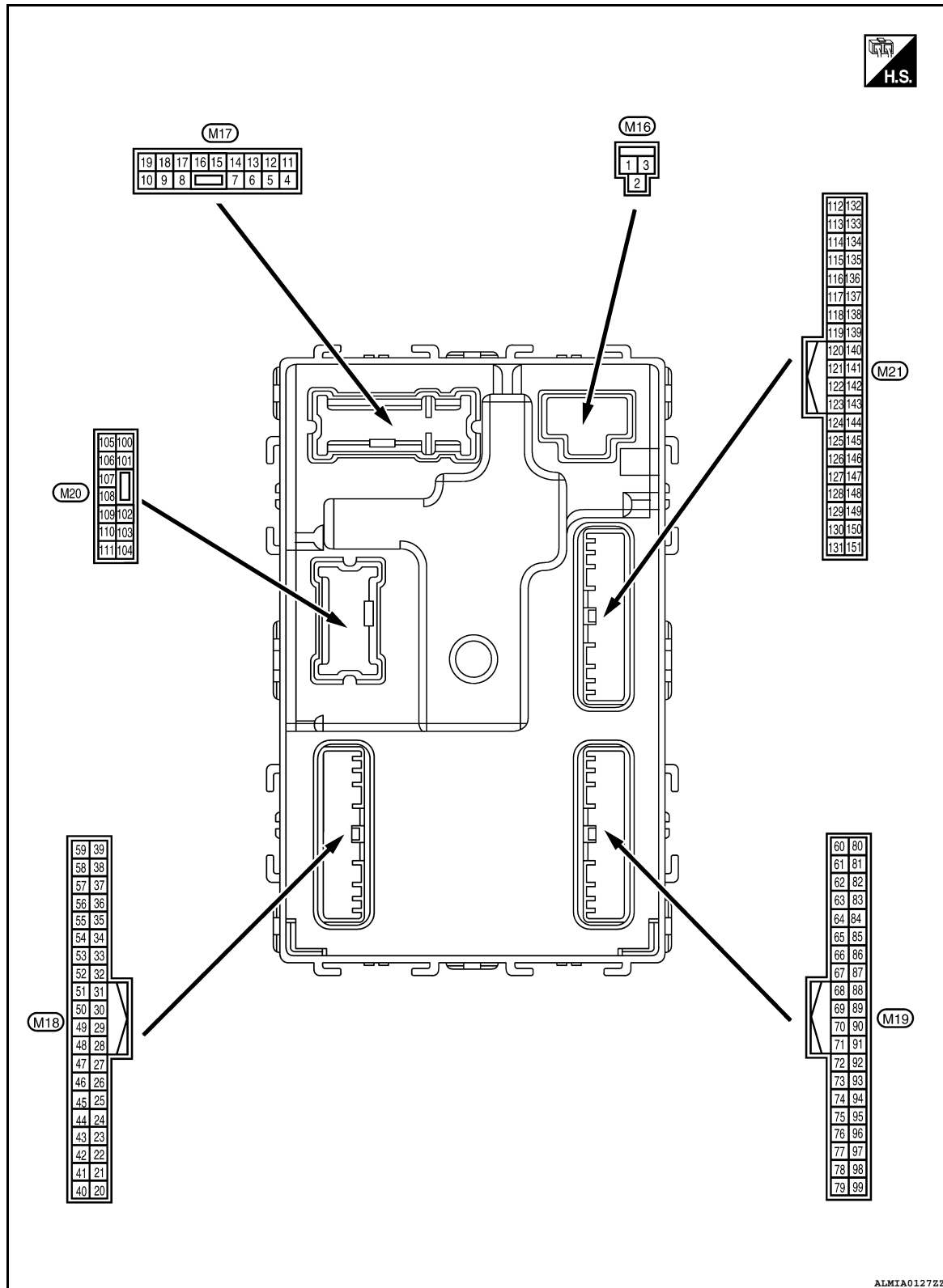
BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal Layout

INFOID:000000005783649



Physical Values

INFOID:000000005783650

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

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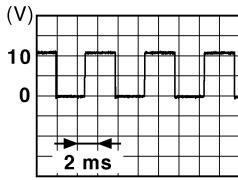
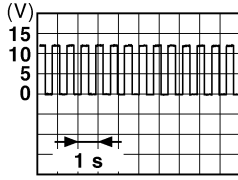
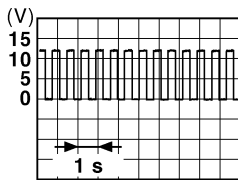
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	Battery voltage
4 (P/W)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
5 (G/Y)	Ground	Front door RH UNLOCK	Output	Front door RH	UNLOCK (actuator is activated)
					Other than UNLOCK (actuator is not activated)
7 (R/W)	Ground	Step lamp	Output	Step lamp	ON
					OFF
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)
					Other than LOCK (actuator is not activated)
9 (G)	Ground	Front door LH UNLOCK	Output	Front door LH	UNLOCK (actuator is activated)
					Other than UNLOCK (actuator is not activated)
10 ¹ (G/Y)	Ground	Rear door RH and rear door LH UNLOCK	Output	Rear door RH and rear door LH	UNLOCK (actuator is activated)
					Other than UNLOCK (actuator is not activated)
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON	0V
14 ⁶ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF
					ON

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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

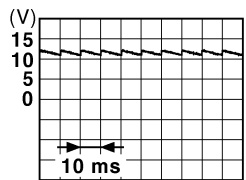
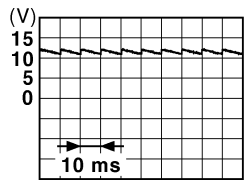
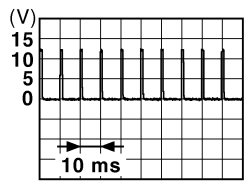
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Terminal No. (Wire color)		Description			Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	0V
					ON	NOTE: When the illumination brightening/dimming level is in the neutral position  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
					ACC or ON	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF	0V
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF	0V
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehicle is bright	Close to 5V
					When outside of the vehicle is dark	Close to 0V
22 (R/Y)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (clutch pedal is not depressed)	0V
					ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input	—	Battery voltage	
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
					ON (brake pedal is depressed)	Battery voltage

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
					UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
				When Intelligent Key is not inserted into key slot		0V
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF	0
					ACC or ON	Battery voltage
31 (G)	Ground	Rear window defogger feedback signal	Input	Rear window defogger switch	OFF	0V
					ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					ON (when front door RH opens)	0V
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF	9.0 - 12.0V
					ON	0V
34 ² (L/R)	Ground	Front door lock assembly LH (key cylinder switch) (unlock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (unlock)	0V
36 ² (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock	Battery voltage
					Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p> <p style="text-align: center;">1.1V</p>
					ON	0V
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	OFF	5V
					ON	0V
39 ² (GR/R)	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery voltage
					Lock	0V

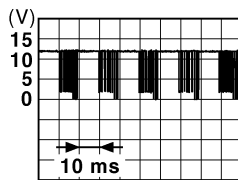
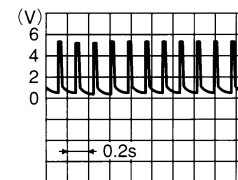
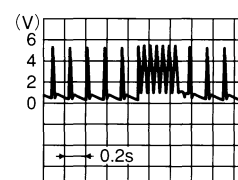
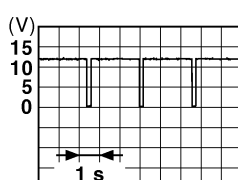
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

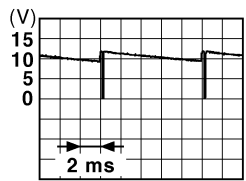
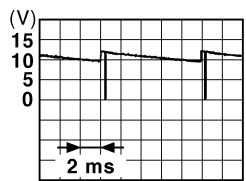
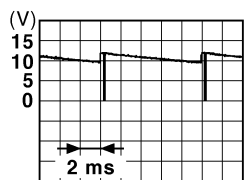
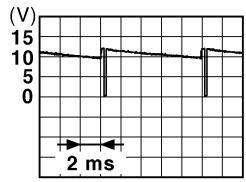
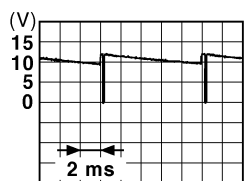
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		 10.2V <small>JPMIA0013GB</small>
				Ignition switch OFF or ACC		0V
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination	ON	5.5V
					OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0V
					OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF	0V
					ACC or ON	5.0V
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state	 <small>OCC3881D</small>
					When receiving the signal from the transmitter	 <small>OCC3880D</small>
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position	12.0V
					Except P and N positions	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON	0V
					Blinking	 11.3V <small>JPMIA0014GB</small>
					OFF	Battery voltage

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0V
				Lighting switch 1ST	
				Lighting switch high-beam	
				Lighting switch 2ND	
				Turn signal switch RH	10.7V
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermittent dial 4)	0V
				Combination switch	
				Any of the conditions below with all switch OFF	
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch (Wiper intermittent dial 4)	0V
				Combination switch	
				Front washer switch ON (Wiper intermittent dial 4)	
				Any of the conditions below with all switch OFF	10.7V
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	0V
				Front wiper switch INT	
				Front wiper switch LO	
				Lighting switch AUTO	
					10.7V
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	0V
				Front fog lamp switch ON	
				Lighting switch 2ND	
				Lighting switch flash-to-pass	
				Turn signal switch LH	10.7V
55 (BR/ W)	Ground	Front blower monitor	Input	Front blower motor switch	Battery voltage
				ON	0V
				OFF	

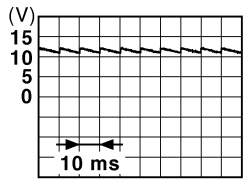
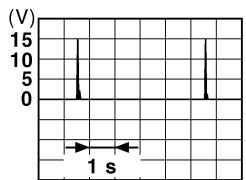
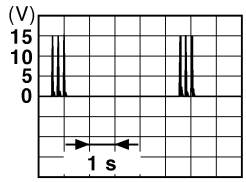
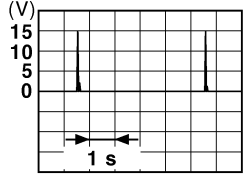
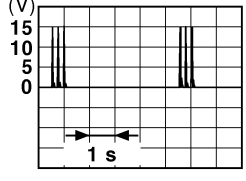
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
56 ² (L/B)	Ground	Front door lock assembly LH (key cylinder switch) (lock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (lock)	0V
57 (W)	Ground	Tire pressure warning check switch	Input	—	—	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
					ON (front door LH OPEN)	0V
59 (G/R)	Ground	Rear window defogger relay	Output	Rear window defogger	Active	Battery voltage
					Not activated	0V
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
62 ⁴ (B/Y)	Ground	Front outside handle RH antenna (-)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
63 ⁴ (LG)	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
64 ⁴ (V)	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

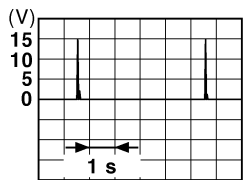
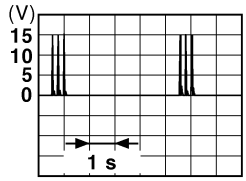
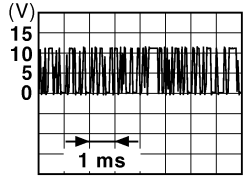
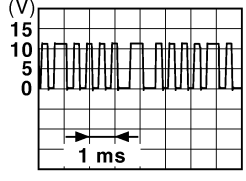
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
65 ⁴ (P)	Ground	Front outside handle LH antenna (+)	Output	When the front door LH request switch is operat- ed with ignition switch OFF		
				When Intelligent Key is not in the antenna detection area		
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		
				When operating either button on Intelligent Key		

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	<p>1.4V</p>
				Front fog lamp switch ON (Wiper intermittent dial 4)	<p>1.3V</p>
				Any of the conditions below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 <p>1.3V</p>


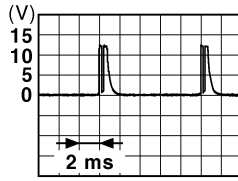
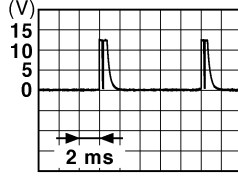
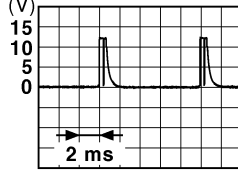
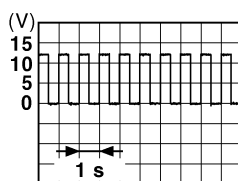
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

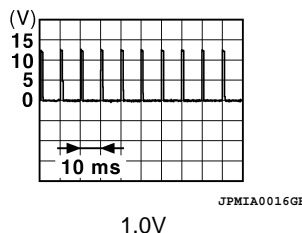
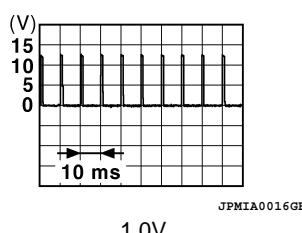
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
76 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin-top: 5px;">JPMIA0041GB</p> <p style="margin-top: 5px;">1.4V</p> </div>
				Lighting switch high-beam (Wiper intermittent dial 4)	<div style="text-align: right;">  <p style="font-size: small; margin-top: 5px;">JPMIA0036GB</p> <p style="margin-top: 5px;">1.3V</p> </div>
				Lighting switch 2ND (Wiper intermittent dial 4)	<div style="text-align: right;">  <p style="font-size: small; margin-top: 5px;">JPMIA0037GB</p> <p style="margin-top: 5px;">1.3V</p> </div>
				Any of the conditions below with all switch OFF	<div style="text-align: right;">  <p style="font-size: small; margin-top: 5px;">JPMIA0040GB</p> <p style="margin-top: 5px;">1.3V</p> </div> <ul style="list-style-type: none"> Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3
78 (P)	Ground	CAN-L	Input/ Output	—	—
79 (L)	Ground	CAN-H	Input/ Output	—	—
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF 0V
				Blinking	<div style="text-align: right;">  <p style="font-size: small; margin-top: 5px;">JPMIA0015GB</p> <p style="margin-top: 5px;">6.5V</p> </div>
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC 0V
				ON	Battery voltage

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0V
					ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output	—		Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 ⁴ (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
89 ⁴ (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
90 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

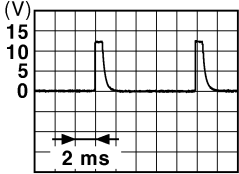


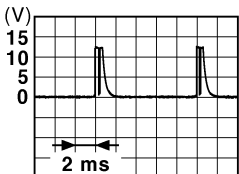
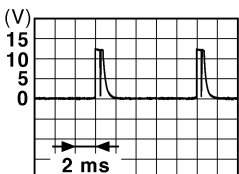
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

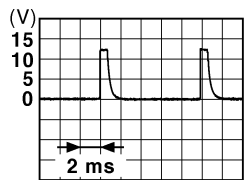
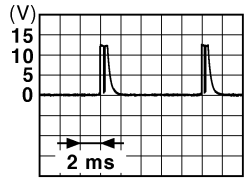
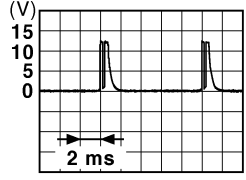
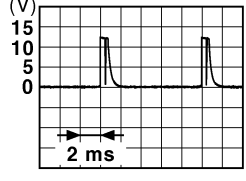
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
95 (R/W)	Ground	Combination switch INPUT 1	Input	All switch OFF	 <p style="text-align: right; margin-right: 20px;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
				Turn signal switch LH	 <p style="text-align: right; margin-right: 20px;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
				Turn signal switch RH	 <p style="text-align: right; margin-right: 20px;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
				Front wiper switch LO	 <p style="text-align: right; margin-right: 20px;">JPMIA0038GB</p> <p style="text-align: center;">1.3V</p>
				Front washer switch ON	 <p style="text-align: right; margin-right: 20px;">JPMIA0039GB</p> <p style="text-align: center;">1.3V</p>

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">All switch OFF (Wiper intermittent dial 4)</div>  <div style="margin-left: 10px; text-align: right;"> <small>JPMIA0041GB</small> 1.4V </div> </div>
				Lighting switch AUTO (Wiper intermittent dial 4)	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Lighting switch AUTO (Wiper intermittent dial 4)</div>  <div style="margin-left: 10px; text-align: right;"> <small>JPMIA0038GB</small> 1.3V </div> </div>
				Lighting switch 1ST (Wiper intermittent dial 4)	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Lighting switch 1ST (Wiper intermittent dial 4)</div>  <div style="margin-left: 10px; text-align: right;"> <small>JPMIA0036GB</small> 1.3V </div> </div>
				Any of the conditions below with all switch OFF	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> Any of the conditions below with all switch OFF <ul style="list-style-type: none"> Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6 </div>  <div style="margin-left: 10px; text-align: right;"> <small>JPMIA0039GB</small> 1.3V </div> </div>


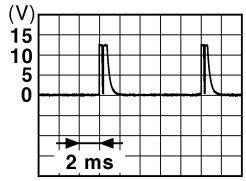
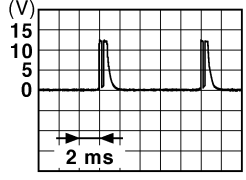

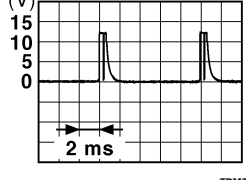
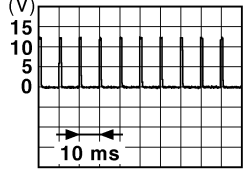
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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

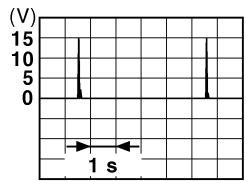
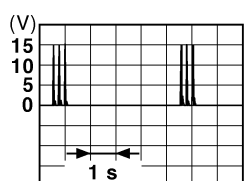
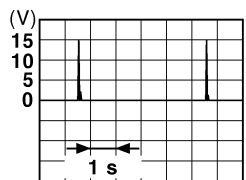
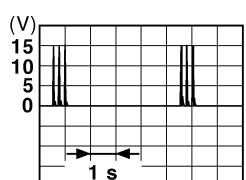
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
					Lighting switch flash-to-pass	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
					Lighting switch 2ND	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
					Front wiper switch INT	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3V</p>
					Front wiper switch HI	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p> <p style="text-align: center;">1.1V</p>

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
103 (V)	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
					Close (trunk lid opener actuator is not activated)	0V
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
					OFF	Battery voltage
114 (B)	Ground	Rear parcel shelf antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
115 (W)	Ground	Rear parcel shelf antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

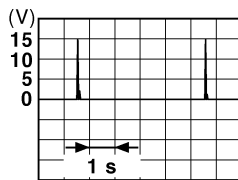
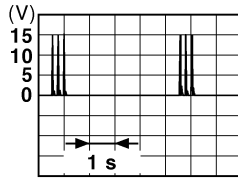
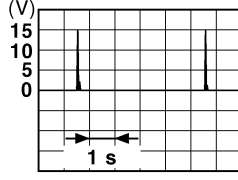
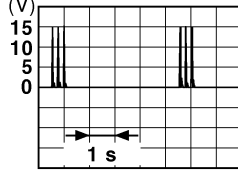
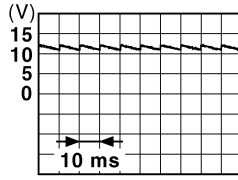
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BCM (BODY CONTROL MODULE)

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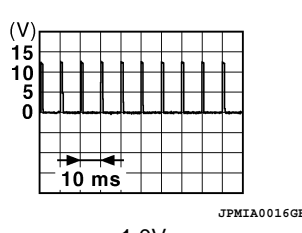
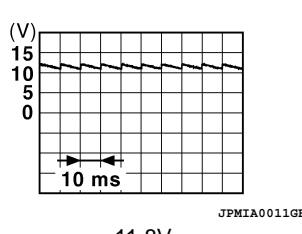
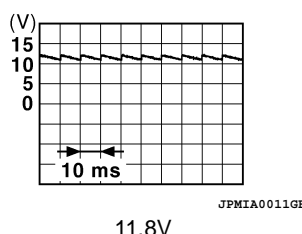
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
118 ⁴ (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
119 ⁴ (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
127 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch OFF or ACC	Battery voltage
				Ignition switch ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch OFF (trunk is closed)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
				Trunk room lamp switch ON (trunk is open)	0V

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
132 (R)	Ground	Starter motor relay control	Output	Ignition switch OFF (M/T vehicle)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0V
				Ignition switch ON (other than M/T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0V
140 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
					Not pressed	Battery voltage
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
144 ⁴ (GR)	Ground	Intelligent Key warning buzzer	Output	Request switch buzzer	Sounding	0V
					Not sounding	Battery voltage
144 ⁵ (GR)	Ground	Outside warning buzzer	Output	Outside warning buzzer	Sounding	0V
					Not sounding	Battery voltage
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0V
					Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door RH opens)	0V
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door LH opens)	0V

1: Sedan

2: With LH front window anti-pinch

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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

3: With LH and RH front window anti-pinch

4: With Intelligent Key

5: Without Intelligent Key

6: Coupe

Fail Safe

INFOID:000000005783651

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 <ul style="list-style-type: none"> - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)

DTC Inspection Priority Chart

INFOID:000000005783652

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

Priority	DTC
1	<ul style="list-style-type: none"> • B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

Priority	DTC	
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING 	A B
4	<ul style="list-style-type: none"> • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2608: STARTER RELAY • B260A: IGNITION RELAY • B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RECIV • B26E8: CLUTCH SW • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG 	C D E F G H I
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • 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 	J PWC L M N O
6	<ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA 	P

DTC Index

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NOTE:

Details of time display

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	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 CIRCUIT	—	—	—	BCS-38, "Description"
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-39, "DTC Logic"
U0415: VEHICLE SPEED SIG	—	—	—	BCS-40, "Description"
B2190: NATS ANTENNA AMP	×	—	—	SEC-53, "Description" (Coupe) SEC-229, "Description" (Sedan with I-Key) SEC-399, "Description" (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	—	—	SEC-56, "Description" (Coupe) SEC-232, "Description" (Sedan with I-Key) SEC-402, "Description" (Sedan without I-Key)
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-57, "Description" (Coupe) SEC-233, "Description" (Sedan with I-Key) SEC-403, "Description" (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-58, "Description" (Coupe) SEC-234, "Description" (Sedan with I-Key) SEC-404, "Description" (Sedan without I-Key)
B2195: ANTI SCANNING	×	—	—	SEC-59, "Description" (Coupe) SEC-235, "Description" (Sedan with I-Key) SEC-405, "Description" (Sedan without I-Key)
B2553: IGNITION RELAY	—	—	—	PCS-61, "Description"
B2555: STOP LAMP	—	—	—	SEC-60, "Description" (Coupe) SEC-236, "Description" (Sedan with I-Key) SEC-406, "Description" (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	—	×	—	SEC-63, "Description" (Coupe) SEC-239, "Description" (Sedan with I-Key) SEC-409, "Description" (Sedan without I-Key)
B2557: VEHICLE SPEED	—	×	—	SEC-65, "Description" (Coupe) SEC-241, "Description" (Sedan with I-Key) SEC-411, "Description" (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2560: STARTER CONT RELAY	×	×	—	SEC-66, "Description" (Coupe) SEC-242, "Description" (Sedan with I-Key) SEC-412, "Description" (Sedan without I-Key)
B2562: LOW VOLTAGE	×	—	—	BCS-41, "DTC Logic"
B2601: SHIFT POSITION	—	×	—	SEC-67, "Description" (Coupe) SEC-243, "Description" (Sedan with I-Key) SEC-413, "Description" (Sedan without I-Key)
B2602: SHIFT POSITION	—	×	—	SEC-71, "Description" (Coupe) SEC-246, "Description" (Sedan with I-Key) SEC-416, "Description" (Sedan without I-Key)
B2603: SHIFT POSI STATUS	—	×	—	SEC-74, "Description" (Coupe) SEC-249, "Description" (Sedan with I-Key) SEC-419, "Description" (Sedan without I-Key)
B2604: PNP SW	—	×	—	SEC-77, "Description" (Coupe) SEC-252, "Description" (Sedan with I-Key) SEC-422, "Description" (Sedan without I-Key)
B2605: PNP SW	—	×	—	SEC-79, "Description" (Coupe) SEC-254, "Description" (Sedan with I-Key) SEC-424, "Description" (Sedan without I-Key)
B2608: STARTER RELAY	×	×	—	SEC-81, "Description" (Coupe) SEC-256, "Description" (Sedan with I-Key) SEC-426, "Description" (Sedan without I-Key)
B260A: IGNITION RELAY	×	×	—	PCS-63, "Description"
B260F: ENG STATE SIG LOST	×	×	—	SEC-83, "Description" (Coupe) SEC-258, "Description" (Sedan with I-Key) SEC-428, "Description" (Sedan without I-Key)
B2614: ACC RELAY CIRC	—	×	—	PCS-66, "Description"
B2615: BLOWER RELAY CIRC	—	×	—	PCS-69, "Description"
B2616: IGN RELAY CIRC	—	×	—	PCS-72, "Description"
B2617: STARTER RELAY CIRC	×	×	—	SEC-87, "Description" (Coupe) SEC-262, "Description" (Sedan with I-Key) SEC-432, "Description" (Sedan without I-Key)
B2618: BCM	×	×	—	PCS-75, "Description"
B261A: PUSH-BTN IGN SW	—	×	—	SEC-90, "Description" (Coupe) SEC-265, "Description" (Sedan with I-Key) SEC-435, "Description" (Sedan without I-Key)

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BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	SEC-89, "Description" (Coupe) SEC-264, "Description" (Sedan with I-Key) SEC-434, "Description" (Sedan without I-Key)
B2622: INSIDE ANTENNA	—	—	—	DLK-60, "Description" (Coupe) DLK-283, "Description" (Sedan with I-Key) DLK-484, "Description" (Sedan without I-Key)
B2623: INSIDE ANTENNA	—	—	—	DLK-63, "Description" (Coupe) DLK-286, "Description" (Sedan with I-Key) DLK-487, "Description" (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	—	SEC-92, "Description" (Coupe) SEC-267, "Description" (Sedan with I-Key) SEC-437, "Description" (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	—	SEC-84, "Description" (Coupe) SEC-259, "Description" (Sedan with I-Key) SEC-429, "Description" (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	—	SEC-86, "Description" (Coupe) SEC-261, "Description" (Sedan with I-Key) SEC-431, "Description" (Sedan without I-Key)
C1704: LOW PRESSURE FL	—	—	×	WT-44, "Self-Diagnosis (With CONSULT-III)"
C1705: LOW PRESSURE FR	—	—	×	
C1706: LOW PRESSURE RR	—	—	×	
C1707: LOW PRESSURE RL	—	—	×	
C1708: [NO DATA] FL	—	—	×	WT-14, "Description"
C1709: [NO DATA] FR	—	—	×	
C1710: [NO DATA] RR	—	—	×	
C1711: [NO DATA] RL	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	×	WT-16, "Description"
C1713: [CHECKSUM ERR] FR	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	×	WT-18, "Description"
C1717: [PRESSDATA ERR] FR	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	×	

BCM (BODY CONTROL MODULE)

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1720: [CODE ERR] FL	—	—	×	WT-16, "Description"
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	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	×	WT-19, "Description"
C1734: CONTROL UNIT	—	—	×	WT-20, "Description"

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POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-SEDAN]

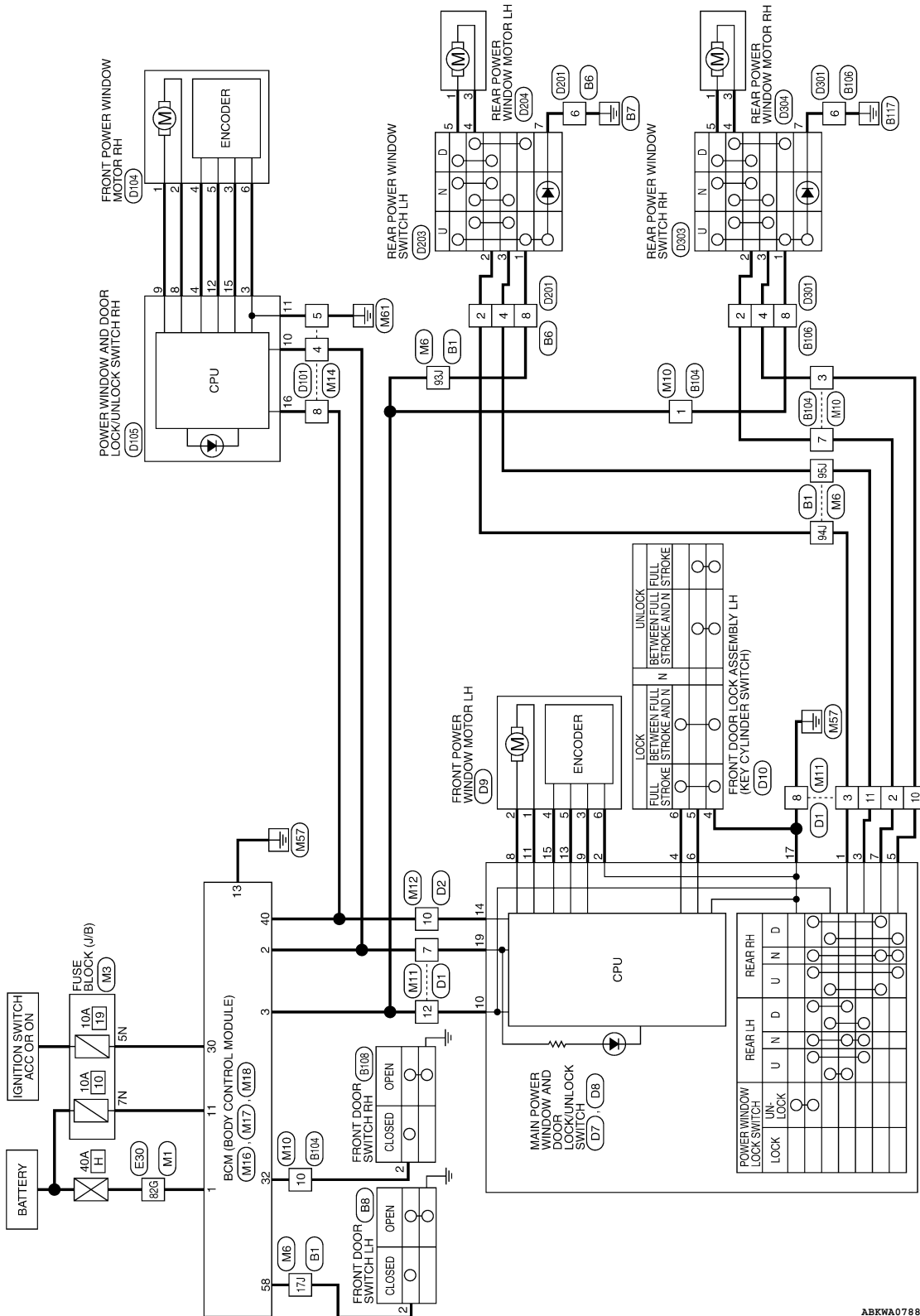
WIRING DIAGRAM

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

Wiring Diagram

INFOID:000000005434292

POWER WINDOW SYSTEM - SEDAN WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH



ABKWA0788GB

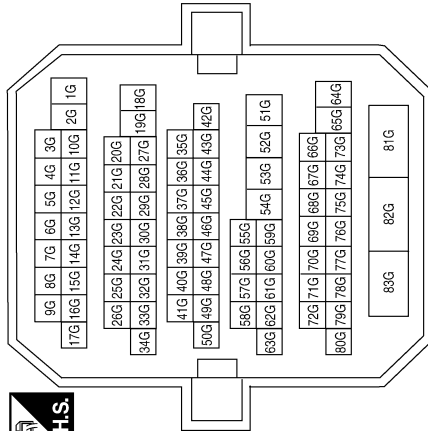
POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-SEDAN]

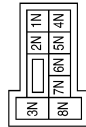
POWER WINDOW SYSTEM CONNECTORS - SEDAN WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



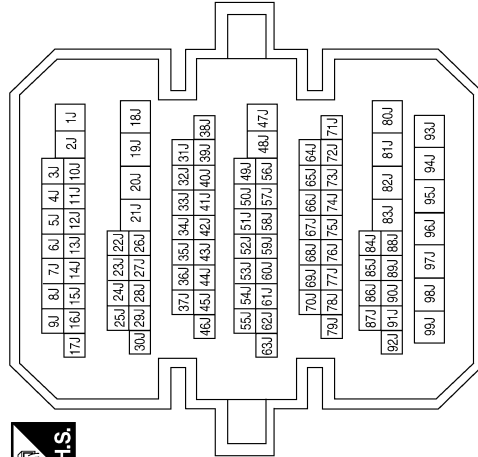
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5N	V/Y	-
7N	Y/R	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17J	SB	-
93J	L/W	-
94J	G/B	-
95J	G/O	-

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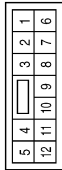
ABKIA2210GB

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN



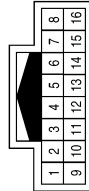
Terminal No.	Color of Wire	Signal Name
1	L/W	-
3	G/R	-
7	G/W	-
10	R/B	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	G/W	-
3	G/B	-
7	R/Y	-
8	B	-
10	G/R	-
11	G/O	-
12	L/W	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	Y/G	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	R/Y	-
5	B	-
8	Y/G	-

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L
2	R/Y	P/W_POWER_SUPPLY_PERM
3	L/W	POWER_WINDOW_POWER_SUPPLY (RAP)

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



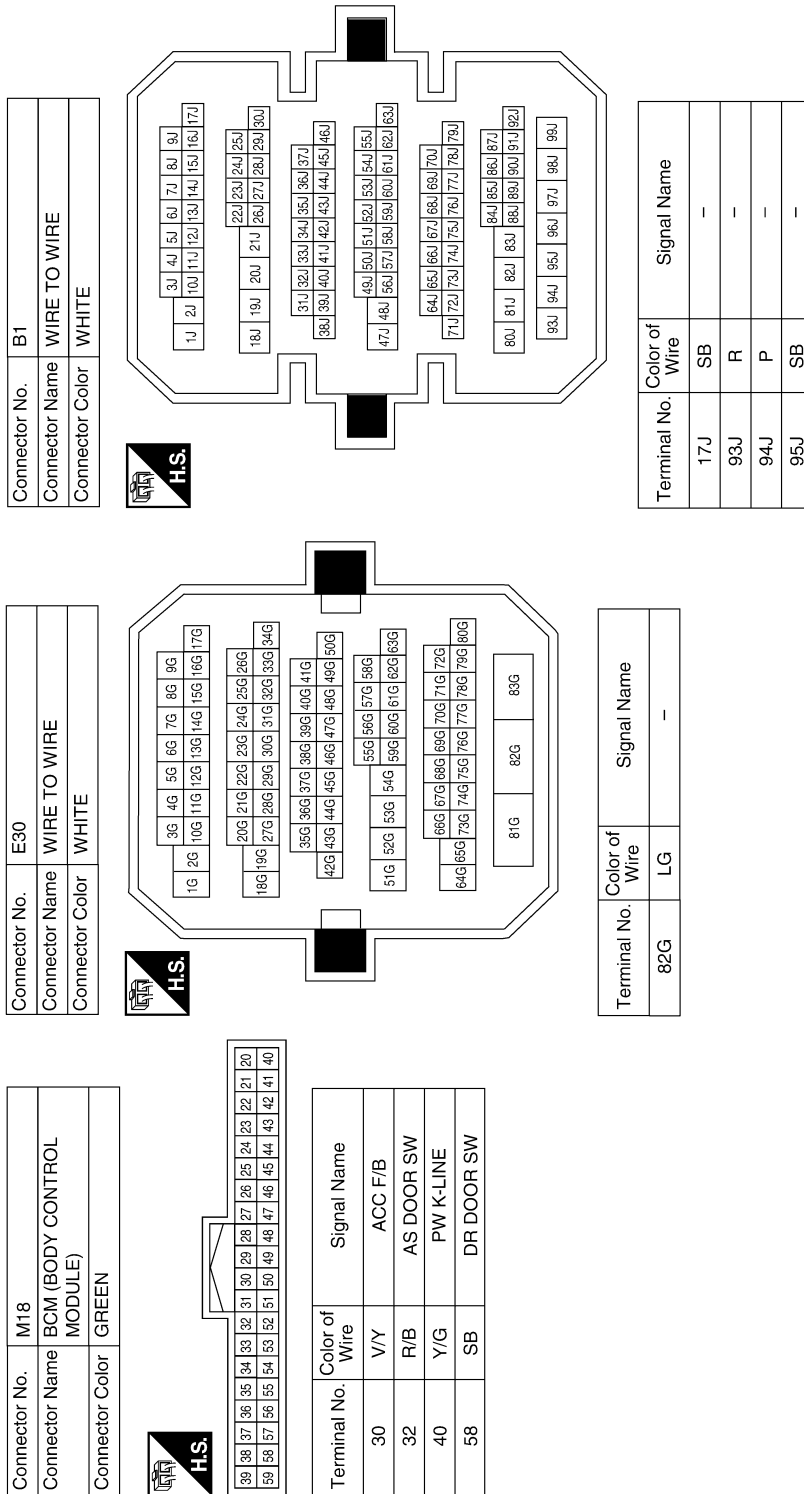
Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT BCM FUSE
13	B	GND1

ABKIA2218GB

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-SEDAN]



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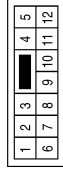
ABKIA2211GB

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R	-
3	SB	-
7	W	-
10	GR	-

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



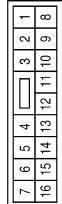
Terminal No.	Color of Wire	Signal Name
2	SB	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	P	-
4	SB	-
6	B	-
8	R	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



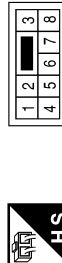
Terminal No.	Color of Wire	Signal Name
2	P	-
3	Y	-
7	W	-
8	B	-
10	SB	-
11	O	-
12	V	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	B106
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	W	-
4	SB	-
6	B/W	-
8	R	-

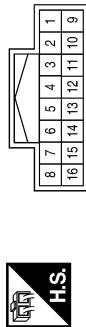
ABKIA2212GB

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

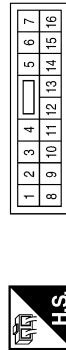
[LH&RH FRONT ANTI-PINCH-SEDAN]

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	BR	-

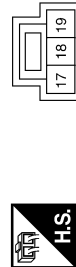
Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (SEDAN WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y	RL UP
2	G	ENCODER GND
3	O	RL DOWN
4	L/B	LOCK
5	SB	RR DOWN

Terminal No.	Color of Wire	Signal Name
6	L/R	UNLOCK
7	P	RR UP
8	R	AS UP
9	W	ENCODER SIG2
10	V	IGN
11	LG	AS DOWN
13	SB	ENCODER SIG1
14	BR	COM
15	GR	ENCODER POWER

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



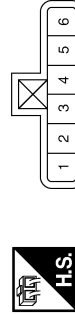
Terminal No.	Color of Wire	Signal Name
17	B	GND
19	W	BAT

Connector No.	D9
Connector Name	FRONT POWER WINDOW MOTOR LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	R	-
3	W	-
4	GR	-
5	SB	-
6	G	-

Connector No.	D10
Connector Name	FRONT DOOR LOCK ASSEMBLY LH (WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)]
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
4	B	GND
5	L/R	DOOR_KEY/C_UNLOCK_SW
6	L/B	DOOR_KEY/C_LOCK_SW

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POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name
4	P	-
5	B	-
8	R	-

Connector No.	D104
Connector Name	FRONT POWER WINDOW MOTOR RH
Connector Color	WHITE



1	2
3	4
5	6

Terminal No.	Color of Wire	Signal Name
1	LG	-
2	L	-
3	G	-
4	BR	-
5	Y	-
6	W	-

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
3	W	GND
4	BR	ENCODER POWER

Terminal No.	Color of Wire	Signal Name
8	L	UP
9	LG	DOWN
10	P	BAT
11	B	GND
12	Y	ENCODER SIG1
15	G	ENCODER SIG2
16	R	COM

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



3	2	1
8	7	6
5	4	

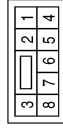
Terminal No.	Color of Wire	Signal Name
2	P	-
4	SB	-
6	B	-
8	R	-

POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH

< WIRING DIAGRAM >

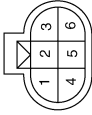
[LH&RH FRONT ANTI-PINCH-SEDAN]

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



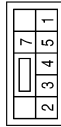
Terminal No.	Color of Wire	Signal Name
2	P	-
4	SB	-
6	B	-
8	R	-

Connector No.	D204
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Color	GREEN



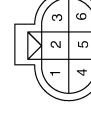
Terminal No.	Color of Wire	Signal Name
1	L	-
3	LG	-

Connector No.	D203
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Color	WHITE



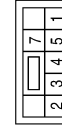
Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	P	UP
3	SB	DOWN
4	LG	DOWN
5	L	UP
7	B	GND

Connector No.	D304
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	L	-
3	LG	-

Connector No.	D303
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	P	UP
3	SB	DOWN
4	LG	DOWN
5	L	UP
7	B	GND

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PRECAUTION

PRECAUTIONS

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

INFOID:000000005789695

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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.

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000005434478

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to [BCS-42, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check power window switch main power supply and ground circuit.

Refer to [PWC-265, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH SERIAL CIRCUIT

Check main power window and door lock/unlock switch serial circuit.

Refer to [PWC-265, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace the malfunctioning parts.

4. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Check main power window and door lock/unlock switch.

Refer to [PWC-265, "POWER WINDOW MAIN SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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PWC

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

DRIVER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434479

1. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to [PWC-275, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

[LH&RH FRONT ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434480

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Check power window and door lock/unlock switch RH.

Refer to [PWC-270, "FRONT POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH SERIAL LINK CIRCUIT

Check power window and door lock/unlock switch RH serial link circuit.

Refer to [PWC-295, "FRONT POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH circuit.

Refer to [PWC-277, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

REAR LH SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434481

1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to [PWC-272, "REAR POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to [PWC-279, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

[LH&RH FRONT ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434482

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to [PWC-272, "REAR POWER WINDOW SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to [PWC-280, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434483

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-283, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (PASSENGER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (PASSENGER SIDE)

Diagnosis Procedure

INFOID:000000005434484

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR WINDOW SLIDING PART

- A foreign material adheres to window glass or glass run rubber.
- Glass run rubber wear or deformation.
- Sash is tilted too much or not enough.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to [PWC-285, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (DRIVER SIDE)

Diagnosis Procedure

INFOID:000000005434485

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-283, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (PASSENGER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY (PASSENGER SIDE)

Diagnosis Procedure

INFOID:000000005434486

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK ENCODER

Check encoder.

Refer to [PWC-285, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:000000005434487

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to [PWC-289, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

DOES NOT OPERATE BY KEY CYLINDER SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

DOES NOT OPERATE BY KEY CYLINDER SWITCH

Diagnosis Procedure

INFOID:000000005434488

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [PWC-257, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH)

Check front door lock assembly LH (key cylinder switch).

Refer to [PWC-291, "Component Function Check"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005434489

1. CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function.

Refer to [DLK-339, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

NO >> Replace BCM. Refer to [BCS-96, "Removal and Installation"](#).

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

[LH&RH FRONT ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:000000005434490

1. REPLACE MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Replace main power window and door lock/unlock switch.

Refer to [PWC-355, "Removal and Installation"](#). After that, [PWC-269, "POWER WINDOW MAIN SWITCH : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection end.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000005434491

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.
2. Check the following parts.
 - Fuse/circuit breaker blown.
 - Poor connection, open or short circuit of harness connector.
 - Battery voltage.

Is the inspection result normal?

- YES >> Inspection End.
NO >> Repair or replace the malfunctioning parts.

POWER WINDOW MAIN SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

POWER WINDOW MAIN SWITCH

Removal and Installation

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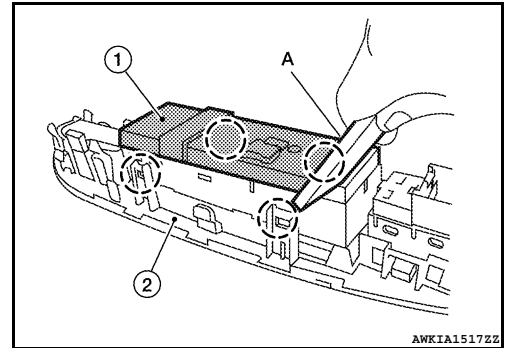
REMOVAL

1. Remove the power window main switch finisher (2) from the door finisher, refer to [INT-30. "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the power window main switch (1) from the switch finisher (2).

⊖; Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

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FRONT POWER WINDOW SWITCH

< ON-VEHICLE REPAIR >

[LH&RH FRONT ANTI-PINCH-SEDAN]

FRONT POWER WINDOW SWITCH

Removal and Installation

INFOID:000000005789706

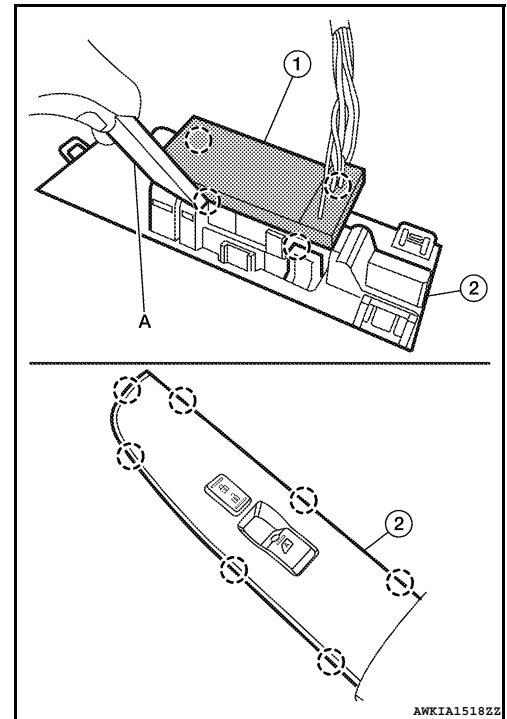
REMOVAL

1. Remove the front power window switch finisher (2) from the front door finisher RH. Refer to [INT-30, "Exploded View"](#).
2. Release the four tabs (two on each side) with a suitable tool (A), then separate the front power window switch (1) from the switch finisher (2).

○: Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

REAR POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< ON-VEHICLE REPAIR >

REAR POWER WINDOW SWITCH

Removal and Installation - Rear Door Switch

INFOID:000000005789707

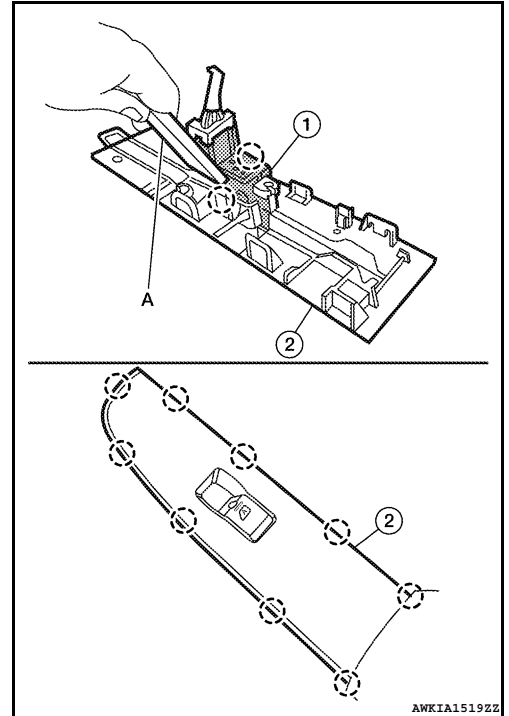
REMOVAL

1. Remove the rear power window switch finisher (2) from the rear door finisher. Refer to [INT-30. "Exploded View"](#).
2. Release the tab (one on each side) with a suitable tool (A), then separate the rear power window switch (1) from the switch finisher (2).

○: Pawl

CAUTION:

Do not fold the pawl of switch finisher.



INSTALLATION

Installation is in the reverse order of removal.

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