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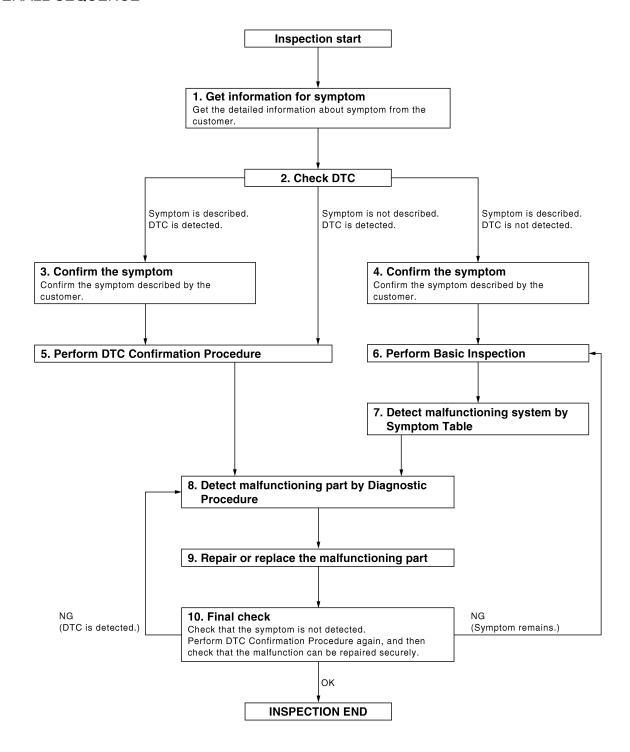
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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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

$\mathbf{2}$. CHECK DTC

- Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT.)
- 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 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 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

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 to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-65, "DTC Inspection Priority Chart"</u> 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-42, "Intermittent Incident".

6. PERFORM BASIC INSPECTION

Perform PWC-8, "Work Flow".

Inspection End>>GO TO 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 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.

<u>Is malfunctioning part detected?</u>

YES >> GO TO 9

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

$oldsymbol{9}.$ REPAIR OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- 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:0000000006393206

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:0000000006393207

INITIALIZATION PROCEDURE

- Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more.
- Turn ignition switch ON. 2.
- 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.
- Place a piece of wood near fully closed position.
- 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-45, "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
- 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

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

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

< BASIC INSPECTION >

[LH ONLY ANTI-PINCH-SEDAN]

- 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:

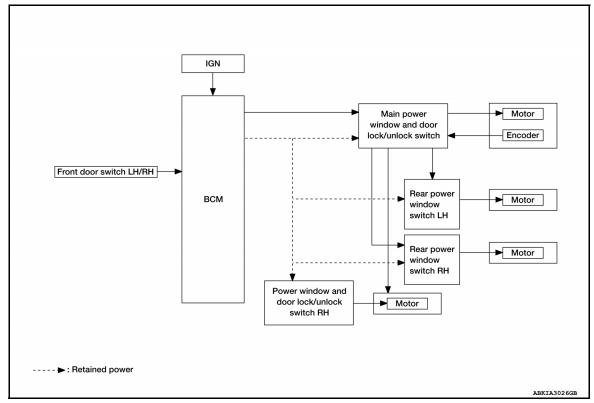
- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-45, "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.

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

FRONT POWER WINDOW LH ANTI-PINCH SYSTEM



System Description

INFOID:0000000006393211

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			
Main power window and door lock/unlock switch	Front power window motor LH UP/ DOWN signal		Front power window motor	
Power window and door lock/unlock switch RH	Front power window motor RH UP/ DOWN signal	Power window control		
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)

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[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

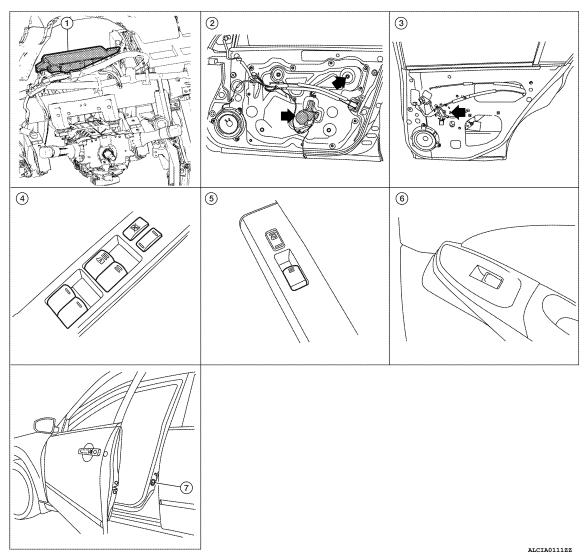
 When door glass AUTO-UP operation is performed (anti-pinch function does not operate just before the door glass closes and is fully closed)

NOTE:

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

Component Parts Location

INFOID:0000000006393212



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- BCM M16, M17, M18 (View with in- 2. strument panel removed)
- 4. Main power window and door lock/ unlock switch D7, D8
- 7. Front door switch LH B8, RH B108
- Front power window motor LH D9, RH D104
- Power window and door lock/unlock 6. switch RH D105
- Rear power window motor LH D204, RH D304
- Rear power window switch LH D203, RH D303

Component Description

INFOID:0000000006393213

FRONT POWER WINDOW LH ANTI-PINCH SYSTEM

Component	Function
BCM	Supplies power supply to power window switch.Controls retained power.
Main power window and door lock/unlock switch	 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	Controls front power window motor RH.
Rear power window switch	Controls rear power window motors LH and RH.

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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[LH ONLY ANTI-PINCH-SEDAN]

Component	Function
Front power window motor LH	 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)

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[LH ONLY ANTI-PINCH-SEDAN]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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ECU IDENTIFICATION

Displays the BCM part No.

SELF-DIAG RESULT

Refer to PWC-73, "DTC Index".

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

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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.

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DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM

BCM: Diagnosis Procedure

INFOID:0000000006919964

Regarding Wiring Diagram information, refer to <u>BCS-70, "Wiring Diagram - Coupe"</u> or <u>BCS-79, "Wiring Diagram - Sedan"</u>.

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	Н
11	Dattery power supply	10

Is the fuse or fusible link blown?

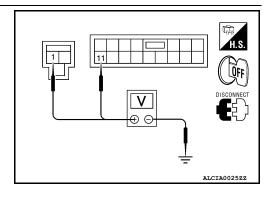
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

$oldsymbol{2}$. CHECK POWER SUPPLY CIRCUIT

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

((+) (-)			
В	ВСМ		(Approx.)	
Connector	Terminal	Ground		
M16	1	Ground	Detterning	
M17	11		Battery voltage	



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

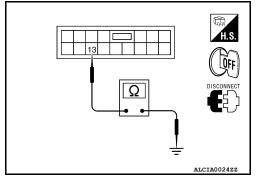
Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

BCM: Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM



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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Initialize control unit. Refer to <u>BCS-3</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

>> Work End.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

· 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

Main Power Window And Door Lock/unlock Switch

 ${f 1}$. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Check power window motor operation with main power window and door lock/unlock switch.

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

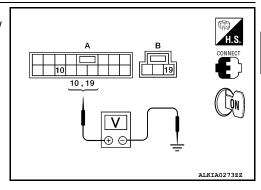
Regarding Wiring Diagram information, refer to <u>PWC-76</u>, "Wiring Diagram - <u>Sedan With Left Front Only Power Window Anti-Pinch System"</u>.

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

1. CHECK POWER SUPPLY CIRCUIT

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

Ter	Voltage (V)		
(+)			
Main power window and door lock/unlock switch connector	Terminal	(–)	(Approx.)
D7 (A)	10	Ground	Battery voltage
D8 (B)	19	Ground	Battery voltage



Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

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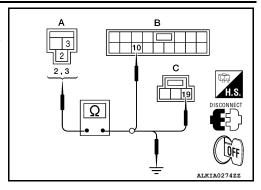
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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM, main power window and door lock/unlock switch, power window and door lock/unlock switch RH, rear power window switch LH and rear power window switch RH.
- 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
WITO (A)	2	D8 (C)	19	162



4. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M16 (A)	3	Ground	No
	2		INU

Is the inspection result normal?

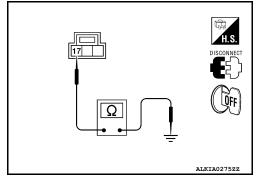
YES >> GO TO 4

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Main power window and door lock/un- lock switch connector	Terminal	Ground	Continuity
D8	17		Yes



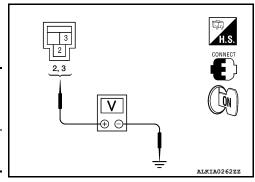
Is the inspection result normal?

- 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
- YES >> Check main power window and door lock/unlock switch output signal (front power window switch LH) GO TO 7
- YES >> Check main power window and door lock/unlock switch output signal (front power window switch RH) GO TO 8
- 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.

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



Is the measurement value within the specification?

- YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
- NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

- **5.** CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POWER WINDOW SWITCH LH)
- 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 switch	Voltage (V)
Main power window and door lock/unlock switch connector	Terminal	(-)	position (rear LH)	(Approx.)
	1	Ground	UP	Battery voltage
D7	'		DOWN	0
	3		UP	0
			DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-97, "Removal and Installation".

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

- 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 switch	Voltage (V)
Main power window and door lock/unlock switch connector	Terminal	(-)	position (rear RH)	(Approx.)
	7	Ground	UP	Battery voltage
D12			DOWN	0
	5		UP	0
			DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace main power window and door lock/unlock switch. Refer to <u>PWC-97</u>, "Removal and Installation".

- 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.

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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Terminal				
(+)			Window switch	Voltage (V)
Main power window and door lock/unlock switch connector	Terminal	(-)	position (front LH)	(Approx.)
	16	Ground	UP	Battery voltage
D7			DOWN	0
DI.	12		UP	0
			DOWN	Battery voltage

Is the measurement value within the specification?

- YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
- NO >> Replace main power window and door lock/unlock switch. Refer to PWC-97, "Removal and Installation".
- 8. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (FRONT POWER WINDOW SWITCH RH)
- 1. Connect main power window and door lock/unlock switch.
- 2. Turn ignition switch ON.

NO

3. Check voltage between main power window and door lock/unlock switch and ground.

Terminal				
(+)			Window switch	Voltage (V)
Main power window and door lock/unlock switch connector	Terminal	(–)	position (front RH)	(Approx.)
	11	Ground	UP	Battery voltage
D7	11		DOWN	0
8	0		UP	0
		DOWN	Battery voltage	

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".

>> Replace main power window and door lock/unlock switch. Refer to PWC-97, "Removal and Installation".

POWER WINDOW MAIN SWITCH: Component Inspection

INFOID:0000000006393220

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

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

[LH ONLY ANTI-PINCH-SEDAN]

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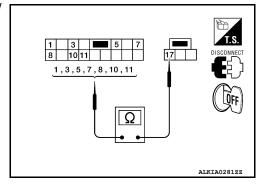
Terr	ninal	Main power window and door lock/unlock switch condition		Continuity
10	1	Rear LH		
10	7	Rear RH	UP	İ
10	8	Front RH		
1	3	Rear LH		
5	7	Rear RH	NEUTRAL	Yes
8	11	Front RH		res
10	3	Rear LH		
10	5	Rear RH	DOWN	
10	11	Front RH		
17	2		-	

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

Terr	Terminal		er window and door lock/unlock switch condition	
3		Rear LH		
5		Rear RH	UP	
11		Front RH	-	
1		Doorlill		
3		Rear LH		
5	17	Door DII	NEUTRAL	No
7	17	Rear RH	NEUTRAL	No
8		Front RH		
11		FIOHERH		
1		Rear LH		
7		Rear RH	DOWN	
8		Front RH		

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

Terr	minal	Main power window and door lock/un- lock switch condition		Continuity
3		Rear LH		
5		Rear RH	UP	
11		Front RH		
1		Rear LH		
3		Real LIT		
5	17	Rear RH	NEUTRAL	Yes
7	17	Real KII	NEOTIVAL	ies
8		Front RH		
11		FIOREKH		
1		Rear LH		
7		Rear RH	DOWN	
8		Front RH		



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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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-97, "Removal and Installation".

POWER WINDOW MAIN SWITCH: Special Repair Requirement

INFOID:0000000006393221

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-11</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: <u>Special</u> Repair Requirement".

Is the inspection result normal?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to <u>PWC-11</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection end.

NO >> Refer to PWC-19, "POWER WINDOW MAIN SWITCH: Component Function Check".

FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH: Description

INFOID:0000000006393222

- 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:0000000006393223

Power Window And Door Lock/unlock Switch RH

1. CHECK POWER WINDOW MOTOR FUNCTION

Check front power window motor operation with power window and door lock/unlock switch RH.

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-24, "FRONT POWER WINDOW SWITCH: Diagnosis Procedure".

FRONT POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000006393224

Regarding Wiring Diagram information, refer to <u>PWC-76</u>, "Wiring Diagram - <u>Sedan With Left Front Only Power Window Anti-Pinch System"</u>.

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

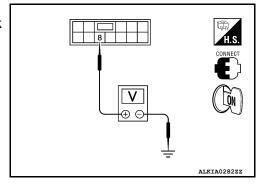
1. CHECK POWER SUPPLY CIRCUIT (POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH)

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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

Ti			
(+)	Voltage (V)		
Power window and door lock/unlock Terminal switch RH connector		(–)	(Approx.)
D105	8	Ground	Battery voltage



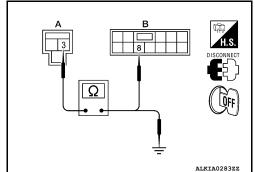
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- Disconnect BCM, power window and door lock/unlock switch RH, rear power window switch LH and rear power window 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	D105 (B)	8	Yes



4. 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 4

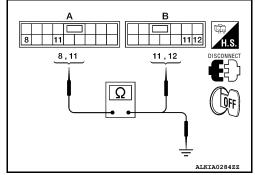
NO >> Repair or replace harness.

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

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 win- dow and door lock/unlock switch connector	Terminal	Power window and door lock/un- lock switch RH connector	Terminal	Continuity
D7 (A)	11	D105 (B)	11	Yes
D7 (A)	8	D 103 (B)	12	165



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		Continuity
D7 (A)	8	Ground	No
DI (A)	11		INO

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< DTC/CIRCUIT DIAGNOSIS > Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

f 4 . CHECK BCM OUTPUT SIGNAL

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

Term	V-H (1)		
(+)	(-)	Voltage (V) (Approx.)	
BCM connector	(-)	, , ,	
M16	3	Ground	Battery voltage

Is the measurement value within the specification?

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". YES

>> Replace BCM. Refer to BCS-92, "Removal and Installation". NO

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

Check power window and door lock/unlock switch RH.

Refer to PWC-26, "FRONT POWER WINDOW SWITCH: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> Replace power window and door lock/unlock switch RH. Refer to PWC-97, "Removal and Installa-NO tion".

FRONT POWER WINDOW SWITCH: Component Inspection

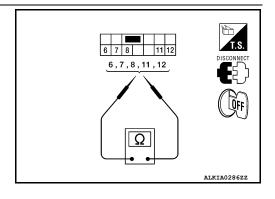
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COMPONENT INSPECTION

${f 1}$. 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	7	UP	
12	6	OI OI	
12	6	NEUTRAL	Yes
7	11	NEOTIVAL	165
8	6	DOWN	
7	11	DOWN	



[LH ONLY ANTI-PINCH-SEDAN]

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-97, "Removal and Installation".

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Description

INFOID:0000000006393226

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

REAR POWER WINDOW SWITCH: Component Function Check

INFOID:0000000006393227

Rear Power Window Switch

${f 1}$. CHECK REAR POWER WINDOW MOTOR FUNCTION

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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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

Is the inspection result normal?

YES >> Rear power window switch power supply and ground circuit are OK.

NO >> Refer to PWC-27, "REAR POWER WINDOW SWITCH : Diagnosis Procedure".

REAR POWER WINDOW SWITCH: Diagnosis Procedure

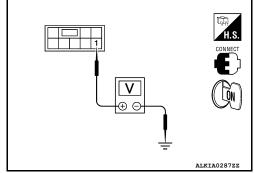
Regarding Wiring Diagram information, refer to PWC-76, "Wiring Diagram - Sedan With Left Front Only Power Window Anti-Pinch System".

Rear Power Window Switch Power Supply Circuit Check

1. CHECK POWER SUPPLY CIRCUIT (REAR POWER WINDOW SWITCH)

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

Terminal					
(+)				Condition	Voltage (V)
•	Rear power window switch connector		(–)		(Approx.)
LH	D203	1	Ground	Ignition switch	Battery
RH	D303	'	Giodila	ON	voltage



Is the measurement value within the specification?

YES >> GO TO 2 (Rear power window switch LH)

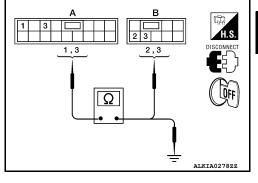
YES >> GO TO 3 (Rear power window switch RH)

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.
- 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 win- dow switch LH connector	Terminal	Continuity
D7 (A)	1	D203 (B)	2	Yes
Dr (A)	3	D203 (B)	3	163



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		No
D7 (A)	3		INO

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

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

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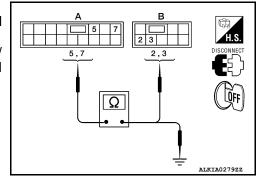
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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

- 1. Turn ignition switch OFF.
- 2. 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
D7 (A)	5	D303 (B)	3	Yes
D7 (A)	7	D303 (B)	2	163



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		No
	7 (A)		110

Is the inspection result normal?

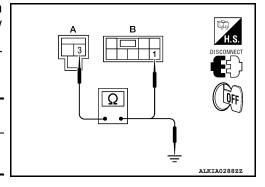
YES >> GO TO 5

NO >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY

- Disconnect BCM, power window and door lock/unlock switch RH, rear power window switch LH and rear power window switch RH.
- 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
MT6 (A) 3		RH	D303 (B)	'	163



Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M16	3	Glound	No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-28, "REAR POWER WINDOW SWITCH: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace rear power window switch. Refer to PWC-97, "Removal and Installation".

REAR POWER WINDOW SWITCH: Component Inspection

INFOID:0000000006393229

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Check rear power window switch.

Terr	Terminal Power window switch condition		Continuity
1	5	UP	
3	4	OF .	
3	4	NEUTRAL	Yes
5	2	NEOTICAL	163
1	4	DOWN	
5	2	DOWN	

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Replace rear power window switch. Refer to PWC-97, "Removal and Installation".

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DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000006393230

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

DRIVER SIDE : Component Function Check

INFOID:0000000006393231

${f 1}$. CHECK FRONT POWER WINDOW MOTOR LH CIRCUIT

Check front power window motor LH operation with the main power window and door lock/unlock switch. <u>Is the inspection result normal?</u>

YES >> Front power window motor LH is OK.

NO >> Refer to PWC-30, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006393232

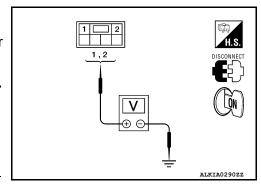
Regarding Wiring Diagram information, refer to <u>PWC-76</u>, "Wiring <u>Diagram - Sedan With Left Front Only Power Window Anti-Pinch System"</u>.

Front Power Window Motor LH Circuit Check

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

- 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 win- dow and door	Voltage (V)
Front power window motor LH connector	Terminal	(–)	lock/unlock switch condition	(Approx.)
	2		UP	Battery voltage
D9	2	Ground	DOWN	0
Da	1	Giouna	UP	0
	I		DOWN	Battery voltage

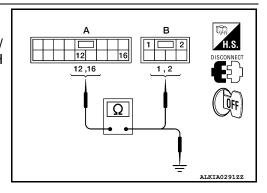


Is the measurement value within the specification?

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).



< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Main power window and door lock/unlock switch connector	Terminal	Front power window motor LH connector	Terminal	Continuity
D7 (A)	16	D9 (B)	2	Yes
<i>D1</i> (A)	12	D9 (B)	1	163

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)	16		No
	12		INO

Is the inspection result normal?

YES >> Refer to PWC-19, "POWER WINDOW MAIN SWITCH: Component Function Check"

NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to PWC-31, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front power window motor LH. Refer to GW-22, "Removal and Installation". After that, refer to PWC-11, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

DRIVER SIDE : Component Inspection

COMPONENT INSPECTION

1.CHECK FRONT POWER WINDOW MOTOR LH

Check motor operation by connecting the battery voltage directly to power window motor.

Terminal		Motor condition	
(+)	(–)	Wiotor 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-22, "Removal and Installation". After that, refer to PWC-11, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

DRIVER SIDE: Special Repair Requirement

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-11, "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-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

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[LH ONLY ANTI-PINCH-SEDAN]

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Check anti-pinch operation.

Refer to <u>PWC-11</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to PWC-30, "DRIVER SIDE : Component Function Check".

PASSENGER SIDE

PASSENGER SIDE: Description

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

${f 1}.$ CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

Check front power window motor RH operation 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-32, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

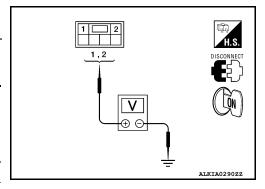
Regarding Wiring Diagram information, refer to <u>PWC-76</u>, "Wiring <u>Diagram - Sedan With Left Front Only Power Window Anti-Pinch System"</u>.

Front Power Window Motor RH Circuit Check

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

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

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



Is the measurement value within the specification?

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

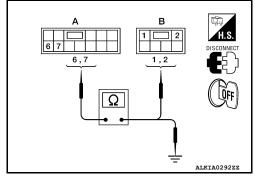
$oldsymbol{2}$. CHECK HARNESS CONTINUITY

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

- 1. Turn ignition switch OFF.
- 2. Disconnect power window and door lock/unlock switch RH.
- 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)	6	D104 (R)	1	Yes
D103 (A)	7	D104 (B)	2	165



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	0	Continuity
D105 (A)	6	Ground	No
	7		INO

Is the inspection result normal?

YES >> Refer to PWC-24, "FRONT POWER WINDOW SWITCH: Component Function Check".

NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.

Refer to PWC-33, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front power window motor RH. Refer to <u>GW-22</u>, "Removal and Installation".

PASSENGER SIDE : Component Inspection

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COMPONENT INSPECTION

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR RH

Check motor operation by connecting the battery voltage directly to front power window motor RH.

Terminal		Motor condition	
(+)	(-)	Wotor 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 <u>GW-22, "Removal and Installation"</u>.

REAR LH

REAR LH: Description

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

1. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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[LH ONLY ANTI-PINCH-SEDAN]

Check rear power window motor LH operation 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-34, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

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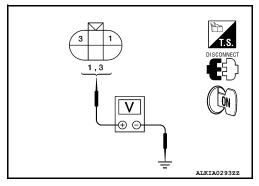
Regarding Wiring Diagram information, refer to PWC-76, "Wiring Diagram - Sedan With Left Front Only Power Window Anti-Pinch System".

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	Voltage (V)	
Rear power window motor LH connector	Terminal	(–)	condition	(Approx.)	
	1 0204 Ground	1	UP	Battery voltage	
D204		Ground	DOWN	0	
D204		Giouna	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
D203 (A)	4	D204 (B)	3	165

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

Α	3 1 1,3	H.S. T.S. DISCONDECT COFF
	_	ALKIA0294ZZ

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

Is the inspection result normal?

YES >> Refer to PWC-26, "REAR POWER WINDOW SWITCH: Component Function Check".

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

$\overline{3}$. CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to PWC-35, "REAR LH: Component Inspection".

Is the inspection result normal?

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace rear power window motor LH. Refer to GW-27, "Removal and Installation".

REAR LH: Component Inspection

COMPONENT INSPECTION

${f 1}$. CHECK REAR POWER WINDOW MOTOR LH

Check motor operation by connecting the battery voltage directly to rear power window motor LH.

Terr	minal	Motor condition
(+)	(-)	Wotor condition
3	1	DOWN
1	3	UP

Is the inspection result normal?

>> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to GW-27, "Removal and Installation".

REAR RH

REAR RH: Description

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

${f 1}$. CHECK POWER WINDOW MOTOR CIRCUIT

Check rear power window motor RH operation 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-35, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

Regarding Wiring Diagram information, refer to PWC-76, "Wiring Diagram - Sedan With Left Front Only Power Window Anti-Pinch System".

Rear Power Window Motor RH Circuit Check

 ${f 1}$. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

Turn ignition switch OFF.

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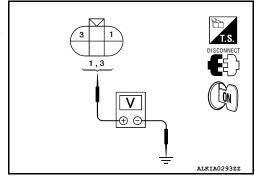
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[LH ONLY ANTI-PINCH-SEDAN]

- 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 windowswitch	Voltage (V)	
Rear power window motor RH connector	Terminal	(–)	RH condition	(Approx.)	
	1		UP	Battery voltage	
D304	'	Ground	DOWN	0	
D304	3	2	Giouna	UP	0
	3		DOWN	Battery voltage	



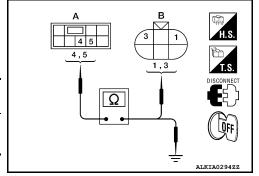
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

- 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
D303 (A)	4	D304 (B)	3	163



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

Rear power window switch RH connector	Terminal	Ground	Continuity
D303 (A)	5		No
D000 (A)	4		140

Is the inspection result normal?

YES >> Refer to PWC-26, "REAR POWER WINDOW SWITCH: Component Function Check".

NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-36, "REAR RH: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace rear power window motor RH. Refer to GW-27, "Removal and Installation".

REAR RH: Component Inspection

INFOID:0000000006393246

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

Check motor operation by connecting the battery voltage directly to rear power window motor RH.

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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

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Is the inspection result normal?

YES >> Power window motor is OK.

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NO >> Replace rear power window motor RH. Refer to <u>GW-27</u>. "Removal and Installation".

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DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000006393247

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:0000000006393248

1. CHECK ENCODER OPERATION

Check 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-38, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006393249

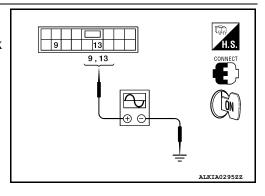
Regarding Wiring Diagram information, refer to <u>PWC-76</u>, "Wiring <u>Diagram - Sedan With Left Front Only Power Window Anti-Pinch System"</u>.

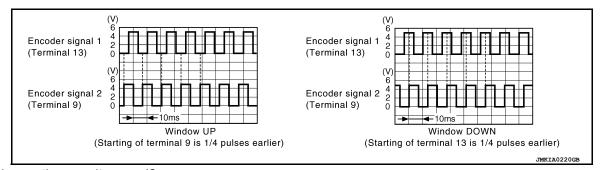
Encoder Circuit Check

1. CHECK ENCODER OPERATION

- 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.

(+)			0.
Main power window and door lock/unlock switch connector	Terminal	(–)	Signal (Reference value)
D7	9	Ground	Refer to following signal





Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 2

2. CHECK FRONT POWER WINDOW MOTOR LH POWER SUPPLY

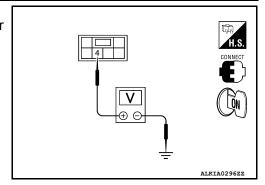
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< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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

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



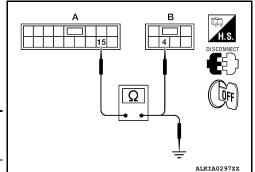
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

- Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch and front power window motor LH.
- 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
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-97, "Removal and Installation".
- 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.

LH connector D9	Terminal 6	Ground	Continuity Yes
			.00

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Is the inspection result normal?

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

CHECK HARNESS CONTINUITY 2

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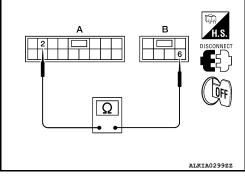
< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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

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

Refer to PWC-22, "POWER WINDOW MAIN SWITCH: Component Inspection".

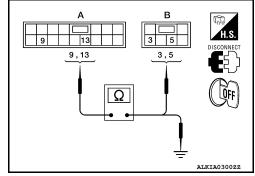
NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

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

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 win- dow motor LH connector	Terminal	Continuity
D7 (A)	9	D9 (B)	3	Yes
D1 (A)	13	D3 (B)	5	163



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		No
D7 (A)	13		140

Is the inspection result normal?

YES >> Replace front power window motor LH. Refer to <u>GW-22</u>, "<u>Removal and Installation</u>". After that, refer to <u>PWC-11</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: <u>Special Repair Requirement</u>".

NO >> Repair or replace harness.

DRIVER SIDE : Special Repair Requirement

INFOID:0000000006393250

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-11</u>, "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-42, "Intermittent Incident".

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

DOOR SWITCH

Description INFOID:0000000000393251

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

Component Function Check

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT. Refer to <u>BCS-30</u>, <u>"RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)"</u>.

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

Is the inspection result normal?

YES >> Front door switch circuit is OK.

NO >> Refer to PWC-41, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>PWC-76</u>, "Wiring Diagram - <u>Sedan With Left Front Only Power Window Anti-Pinch System"</u>.

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

Terminals (+)						
			Door condition		Voltage (V)	
BCM connector	Terminal	(–)			(Approx.)	
	32		Front door	OPEN	0	
M18	02	Ground	RH	CLOSE	Battery voltage	
IVITO	58	Giodila	Front door	OPEN	0	
	36		LH	CLOSE	Battery voltage	

Is the measurement value within the specification?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 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	2	res

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M18	32	Ground	No
WITO	58		INO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

${f 3}.$ CHECK BCM OUTPUT SIGNAL

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

	V-11 A.D			
(+)		(-)	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)		
M18	32	Ground	Rattery voltage	
IVI IO	58	Giouna	Battery voltage	

Is the measurement value within the specification?

YES >> GO TO 4

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

4. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-42, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front door switch.

Component Inspection

INFOID:0000000006393254

1. CHECK FRONT DOOR SWITCH

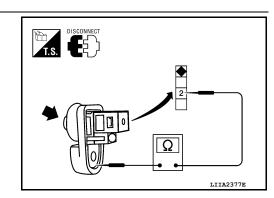
Check front door switches.

Te	erminal	Door switch	Continuity	
Door	switches	Door Switch		
2	Ground part of door	Pressed	No	
switch		Released	Yes	

Is the inspection result normal?

YES >> Front door switch is OK.

NO >> Replace front door switch.



POWER WINDOW LOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

POWER WINDOW LOCK SWITCH Α Description INFOID:0000000006393255 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:0000000006393256 $oldsymbol{1}_{\scriptscriptstyle -}$ CHECK POWER WINDOW LOCK SIGNAL D Exchanges for a normal main power window and door lock/unlock switch, and operation is checked. Does power window lock operate? >> Replace main power window and door lock/unlock switch. Refer to PWC-97, "Removal and Instal-Е lation". After that, refer to PWC-43, "Special Repair Requirement". NO >> Check condition of harness and connector. Special Repair Requirement INFOID:0000000006393257 1. PERFORM INITIALIZATION PROCEDURE Perform initialization procedure. Refer to PWC-11, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement". Is the inspection result normal? Н YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". **PWC**

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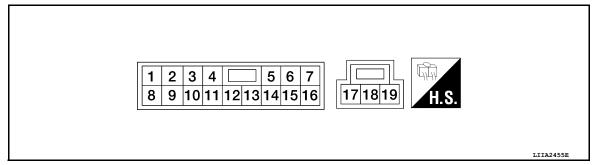
POWER WINDOW MAIN SWITCH

ECU DIAGNOSIS INFORMATION

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

	nal No. color)	Description		Condition	Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
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 motor operates.	(V) 6 4 2 0 10 ms

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

Termir (Wire		Description		Condition	Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
				IGN SW ON	Battery voltage	
10	Ground	RAP signal	Input	Within 45 second after ignition switch is turned to OFF.	Battery voltage	
(V)		Ç	·	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.	(V) 6 4 2 0 10 ms JMKIA0070GB	
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

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).

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

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.

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

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BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000006919949

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	_
ED WIDED III	Other than front wiper switch HI	OFF	С
FR WIPER HI	Front wiper switch HI	ON	
ED MIDED I OM	Other than front wiper switch LO	OFF	
FR WIPER LOW	Front wiper switch LO	ON	_ D
ED WACHED OW	Front washer switch OFF	OFF	_
FR WASHER SW	Front washer switch ON	ON	Е
ED WIDED INT	Other than front wiper switch INT	OFF	_
FR WIPER INT	Front wiper switch INT	ON	_
ED WIDED STOD	Front wiper is not in STOP position	OFF	- -
FR WIPER STOP	Front wiper is in STOP position	ON	_
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 6	Wiper intermittent dial position	G
TUDNI CIONAL D	Other than turn signal switch RH	OFF	_
TURN SIGNAL R	Turn signal switch RH	ON	_
TURN SIGNAL L	Other than turn signal switch LH	OFF	– H
TURN SIGNAL L	Turn signal switch LH	ON	_
TAIL LAMD CW	Other than lighting switch 1ST and 2ND	OFF	_
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON	_ '
LIL DE AM OVA	Other than lighting switch HI	OFF	
HI BEAM SW	Lighting switch HI	ON	J
LIEAD LAMB OW	Other than lighting switch 2ND	OFF	
HEAD LAMP SW 1	Lighting switch 2ND	ON	PW
LIEAD LAMB CW/O	Other than lighting switch 2ND	OFF	
HEAD LAMP SW 2	Lighting switch 2ND	ON	_
DA CCINIC CW	Other than lighting switch PASS	OFF	L
PASSING SW	Lighting switch PASS	ON	_
ALITO LICHT SW	Other than lighting switch AUTO	OFF	1. //
AUTO LIGHT SW	Lighting switch AUTO	ON	- M
ED EOC CW	Front fog lamp switch OFF	OFF	_
FR FOG SW	Front fog lamp switch ON	ON	N
DOOD OW DD	Driver door closed	OFF	_
DOOR SW-DR	Driver door opened	ON	_
DOOD CW AC	Passenger door closed	OFF	- 0
DOOR SW-AS	Passenger door opened	ON	_
DOOD OW DD	Rear RH door closed	OFF	_ Р
DOOR SW-RR	Rear RH door opened	ON	_
DOOD OW D	Rear LH door closed	OFF	
DOOR SW-RL	Rear LH door opened	ON	_
ODL 1 00K 0W	Other than power door lock switch LOCK	OFF	_
CDL LOCK SW	Power door lock switch LOCK	ON	_

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CDL LINII OCK CW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEN CALLK SM	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
KEY CYLLIN CW	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
FAN ON SIG	When AUTO switch or fan switch is pressed	ON
AIR COND SW	When A/C switch is pressed	ON
TD CANCEL CW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN CW	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
TONIC/LIAT MAITO	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
DKE LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DKE TIMI OCK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
DVE TD/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DKE DANIC	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
DKE DW ODEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
DIVE MODE OUG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL OFNICOD	When outside of the vehicle is bright	Close to 5 V
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEC OW DD	When driver door request switch is not pressed	OFF
REQ SW-DR	When driver door request switch is pressed	ON
DEC CW AC	When passenger door request switch is not pressed	OFF
REQ SW-AS	When passenger door request switch is pressed	ON
DEC OW DD/TD	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
DUCH CW	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
ION DIV 57	Ignition switch OFF or ACC	OFF
IGN RLY -F/B	Ignition switch ON	ON
	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

Monitor Item	Condition	Value/Status	Α	
CLUTCH SW	When the clutch pedal is not depressed	OFF		
CLUTCH SW	When the clutch pedal is depressed	ON	=	
	When the brake pedal is not depressed	ON	E	
BRAKE SW 1	When the brake pedal is depressed	OFF	_	
DETEKOANOL OW	When selector lever is in P position	OFF	-	
DETE/CANCL SW	When selector lever is in any position other than P	ON		
OFT DAVALOVA	When selector lever is in any position other than P or N	OFF	_	
SFT PN/N SW	When selector lever is in P or N position	ON	Г	
2/1 1 2 2 1 4	Electronic steering column lock LOCK status	OFF	_	
S/L -LOCK	Electronic steering column lock UNLOCK status	ON	_	
0.11.11.11.00.11	Electronic steering column lock UNLOCK status	OFF	Е	
S/L -UNLOCK	Electronic steering column lock LOCK status	ON	=	
24. 25. 43. 5.	Ignition switch OFF or ACC	OFF		
S/L RELAY-F/B	Ignition switch ON	ON	- -	
	Driver door UNLOCK status	OFF	-	
UNLK SEN-DR	Driver door LOCK status	ON	(
	When engine switch (push switch) is not pressed	OFF		
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON	-	
	Ignition switch OFF or ACC	OFF	- -	
GN RLY1 F/B	Ignition switch ON	ON	-	
	When selector lever is in P position	OFF	-	
DETE SW -IPDM	When selector lever is in any position other than P	ON	- '	
	When selector lever is in any position other than P or N	OFF	=	
SFT PN -IPDM	When selector lever is in P or N position	ON	-	
	When selector lever is in any position other than P	OFF	-	
SFT P -MET	When selector lever is in P position	ON	P۱	
	When selector lever is in any position other than N	OFF		
SFT N -MET	When selector lever is in N position	ON	_	
	Engine stopped	STOP		
	While the engine stalls	STALL	=	
ENGINE STATE	At engine cranking	CRANK		
	Engine running	RUN	_ \	
	Electronic steering column lock LOCK status	OFF	-	
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON	-	
	Electronic steering column lock UNLOCK status	OFF	-	
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON	_	
	Ignition switch OFF or ACC	OFF	- (
S/L RELAY-REQ	Ignition switch ON	ON	=	
/EH SPEED 1	While driving	Equivalent to speedometer reading	- F	
/EH SPEED 2	While driving	Equivalent to speedometer reading	- '	
	Driver door LOCK status	LOCK	-	
OR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY	-	
	Driver door UNLOCK status	UNLK	-	

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Passenger door LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK EL AC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
PRIVIT ENG STAT	When the engine start is permitted	SET
KEY CW CLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
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 DECOT EL 4	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET
ID DECOT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECOT DD4	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET
ID DECCE DI 4	When ID of rear LH tire transmitter is registered	DONE
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET
NAVA DANIANO IL ARAD	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON

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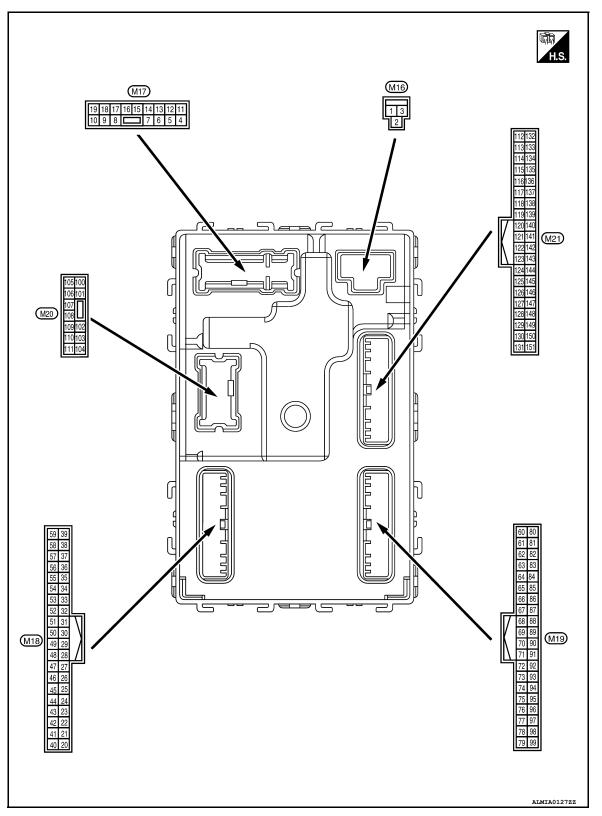
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Terminal Layout



Physical Values

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Craund	Interior room lamp	Outout	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage
5	Cround	Front door RH UN-	Output	Front door DU	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	t Front door RH	Other than UNLOCK (actuator is not activated)	0V
7	Cround	Ston Jama	Output	Ston Jama	ON	OV
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Cround	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output		Other than LOCK (actuator is not activated)	0V
9	0	Front door LH UN-	Output Fr	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V
10 ¹	Craund	Rear door RH and rear door LH UN-	Outout	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0V
					OFF	0V
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description	I		• ""	Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0V
14 ⁸ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms
15	Cround	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	ignition switch	ACC	0V
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)		,		ON	When outside of the vehi- cle is dark	Close to 0V
22 ²	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	ov
(R/Y)	5.54114	switch	put	switch	ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
(O/L)	Cidana	Stop lamp owiton 2	mpat	Stop rainip switch	ON (brake pedal is depressed)	Battery voltage

	inal No.	Description				Value
	e color)	Signal name	Input/ Output		Condition	(Approx.)
(+)	(-)		Output			00
27 (G/W)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB
					UNLOCK status	0V
				When Intelligent K	ey is inserted into key slot	Battery voltage
29 (Y)	Ground	Key slot switch	Input		ey is not inserted into key slot	0V
30					OFF	0
(V/Y)	Ground	ACC feedback signal	Input	Ignition switch	ACC or ON	Battery voltage
31		Rear window defog-		Rear window de-	OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JEMIA0011GB 11.8 V
					ON (when front door RH opens) OFF	0V
33 (SB)	Ground	Compressor ON sig- nal	Input	A/C switch	OFF	9V - 12V 0V
34 ³		Front door lock as-		Front door lock	OFF (neutral)	Battery voltage
(L/R)	Ground	sembly LH (key cylinder switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V
36 ³	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage
(GR)	0.000			switch	Unlock	0V
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
					ON	0V
38		Rear window defog-		Rear window de-	OFF	Battery voltage
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V
39 ³	0	Halada - 905	le e f	Door lock/unlock	Unlock	Battery voltage
(GR/ R)	Ground	Unlock switch signal	Input	switch	Lock	0V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
	e color)	Signal name	Input/		Condition	(Approx.)	Α
(+)	(-)		Output				
40 ⁴ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	С
				Ignition switch OF	F or ACC	0V	
				Engine switch	ON	5.5V	
41 (W)	Ground	Engine switch (push switch) illumination	Output	(push switch) illu-	OFF	0V	Е
-		,		mination	ON	0V	
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage	F
45		Receiver & sensor					
(P)	Ground	ground	Input	Ignition switch ON		0V	G
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	J
(V/W)		power supply output		3 11 1	ACC or ON	5.0V	
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 *** 0.2s	H I J
(G/O)		er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s	PWC
48	0	Selector lever P/N	11	Oalastanla	P or N position	12.0V	IVI
(R/G)	Ground	position signal	Input	Selector lever	Except P and N positions	0V	
					ON	0V	Ν
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB	O P
					OFF	11.3V Battery voltage	
					OFF	Dattery voitage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Val.
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)	•	Output		All switch OFF	0V
						UV
					Lighting switch 1ST	
50		Combination switch OUTPUT 5		Combination switch (Wiper intermit-	Lighting switch high-beam Lighting switch 2ND	15
(LG/	Ground		Output		Lighting Switch 2ND	10 5 0
B)				tent dial 4)		
					Turn signal switch RH	2 ms
						JPMIA0031GB 10.7V
					All switch OFF	0V
					(Wiper intermittent dial 4)	•
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
51		Combination switch		Combination	Any of the conditions below	15
(L/W)	Ground	OUTPUT 1	Output	switch	with all switch OFF	5
					Wiper intermittent dial 1Wiper intermittent dial 2	—
					Wiper intermittent dial 3Wiper intermittent dial 6	2 ms
					Wiper intermittent dial 7	JPMIA0032GB 10.7V
					All switch OFF	0V
					(Wiper intermittent dial 4)	
		Combination switch OUTPUT 2	Output	Combination	Front washer switch ON (Wiper intermittent dial 4)	(V)
52	Ground					15
(G/B)	Giodila			switch	Any of the conditions below with all switch OFF	5 0
					Wiper intermittent dial 1	→
					Wiper intermittent dial 5Wiper intermittent dial 6	2 ms
					,	10.7V
					All switch OFF	0V
					Front wiper switch INT	(V)
53				Combination	Front wiper switch LO	15
(LG/	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit-		5 0
R)				tent dial 4)	Lighting switch AUTO	
						2 ms
						10.7V
					All switch OFF	0V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	switch	Lighting switch flash-to-	10 5
(G/Y)		0017014		(Wiper intermit- tent dial 4)	pass	0
					Turn signal switch LH	2 ms
					Tarri dignar switch Lift	јрміа0035gb 10.7V
 55					ON	Battery voltage
(BR/	Ground	Front blower monitor	Input	Front blower mo- tor switch	OFF	0V
W)					- (1	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
	()	Front door lock as-		Front door lock	OFF (neutral)	Battery voltage	
56 ³ (L/B)	Ground	sembly LH (key cylinder switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	ov .	В
57 (W)	Ground	Tire pressure warning check switch	Input		_	Battery voltage	С
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	D E
					ON (front door LH OPEN)	0V	F
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)	Ground	ger relay	Output	fogger	Not activated	0V	G
60	60	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S MKIA0062GB	Н
(B/R)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	PWC
					When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	M
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	O

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
62	Ground	Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(B/Y)	r) RH a	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
63	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	(V) 15 10 5 0 JMKIA0062GB
(LG)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
64	Ground	Front outside handle LH antenna (-)		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(V)	Ground		Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

inal No.	Description				Value	
e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
0	Front outside handle	Outside	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
Ground	LH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	
	Remote keyless entry		During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
Ground	receiver signal		When operating e	ither button on Intelligent Key	(V) 15 10 5 1 ms JMKIA0065GB	
	e color) (-) Ground Ground	Ground Front outside handle LH antenna (+) Ground NATS antenna amp (built in key slot) Ground Ignition relay-2 control Remote keyless entry	Ground Front outside handle LH antenna (+) Ground NATS antenna amp (built in key slot) Ground NATS antenna amp (built in key slot) Ground Ignition relay-2 control Ground Remote keyless entry Remote keyless entry Input/ Output Input/ Output	Ground Particular Signal name Signal name Input/ Output Signal name Signal Name of the front door LH request switch is operated with ignition switch OFF Ground Nats antenna amp (built in key slot) Output During waiting Output Input/ Output Ignition switch Ground Ignition relay-2 control Output Ignition switch Ground Remote keyless entry receiver signal Input/ Output Output Input/ Output Inp	Ground NATS antenna amp (built in key slot) Ground Ignition relay-2 control Ground Ignition relay-2 control Remote keyless entry Remote keyless entry Input/ Output When Intelligent Key is in the antenna detection area When Intelligent Key is in the antenna detection area When Intelligent Key is not in the antenna detection area When Intelligent Key is not in the antenna detection area Input/ Output During waiting Ignition switch is pressed while inserting the Intelligent Key into the key slot. Output Output During waiting OFF or ACC ON	

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
		Combination switch INPUT 5	Input		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	
75 (R/Y)	Ground			Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description	Value		Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4V
			Input	t Combination switch	Lighting switch high-beam (Wiper intermittent dial 4)	15 10 5 0
76 (R/G)	Ground	Combination switch INPUT 3				1.3V
(R/G)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 0 2 ms
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	1.3V (V) 15 10 2 ms JPMIA0037GB 1.3V
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed Not pressed	0V Battery voltage
78 (P)	Ground	CAN-L	Input/ Output		<u> </u>	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0V
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s
					ON	6.5V
					ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description				.,,
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
81					OFF or ACC	Battery voltage
(LG)	Ground	ON indicator lamp	Output	Ignition switch	ON	0V
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)	Orouna	Acc relay control	Output	igilition switch	ACC or ON	Battery voltage
84 ⁵ (Y/R)	Ground	CVT shift selector	Output		<u> </u>	Battery voltage
85	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	0V
(L/O)	Giodila	No. 1	iliput	ing column lock	Unlock status	Battery voltage
86	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	Battery voltage
(G/R)	Giouna	No. 2	Input	ing column lock	Unlock status	0V
87 ⁵	Ground	Selector lever P posi-	Input	Selector lever	P position	OV
(G/B)	Orouna	tion switch	прис	Ocicotol level	Any position other than P	Battery voltage
		Ground Front door RH request switch		Front door RH request switch	ON (pressed)	0V
88 (P/L) Gr	Ground		Input		OFF (not pressed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0016GB
					ON (pressed)	0V
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0016GB
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V
(Y)	2.34.14	lay control	Carpat		ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94	94	Electronic steering	0	Ignition switch	OFF or ACC	Battery voltage
(G/Y)	Ground	column lock power supply	Output		ON	0V

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[LH ONLY ANTI-PINCH-SEDAN]

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	^
		Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C D
95 (R/W)					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E
	Ground				Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	PWC
					Front washer switch ON	(V) 15 10 5 0 2 ms	M
						1.3V	0

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	
	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0041GB	
96					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	
(P/B)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire (+)	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
		Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	ВС
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F G
97 (R/B)	Ground				Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3V	Н
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J PWC
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	M
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Р

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
		Electronic steering column lock unit communication	P		LOCK status	Battery voltage
99 (L/Y)	Ground			Electronic steer-ing column lock	LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0V
103	Cround	Ground Trunk lid opening O	Output Trunk lid	Tarrela Ed	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Giodila			TTUTIK IIU	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)	Cround	Trank room lamp	Оигриг	Trank room lamp	OFF	Battery voltage
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB
(B)	Giouna	Ground 1 (-) Output 1	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
115 (W) Grou		Trunk room entonna	Output	Ignition switch OFF When	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S JMKIA0062GB	B C
	Clound				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	E F
118	Ground	Rear bumper anten- na (-)	Output	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S JMKIA0062GB	G H I
(L/O)	Gloana		is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 S JMKIA0063GB	J PWC	
119 (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S JMKIA0062GB	M
W)	Glound	na (+)	is operated with ignition switch OFF	ignition switch	(V) 15 10 5 0 1 s JMKIA0063GB	Р	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		Condition		Value	
	e color)	Signal name Input/				(Approx.)	
(+) 127	(-)	_	Output		OFF or ACC	Battery voltage	
(BR/	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch			
W)		Entry control			ON	0V	
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (trunk is open)	0V	
				Ignition switch OFF (M/T vehi-	When the clutch pedal is depressed	Battery voltage	
				cle)	When the clutch pedal is not depressed	0V	
132 (R)	Ground	Starter motor relay control	Output	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	
					ON (pressed)	0V	
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	
144		Request switch buzz-		Request switch	Sounding	0V	
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage	
147	0	Trunk lid opener	les s	Trunk lid opener	Pressed	0V	
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage	
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
					ON (when rear door RH opens)	0V	

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[LH ONLY ANTI-PINCH-SEDAN]

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Terminal No. (Wire color) (+) (-)		Description				Value
		Signal name	Input/ Output	Condition		(Approx.)
	()		- aupur			
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 JPMIA0011GB 11.8V
					ON (when rear door LH opens)	0V

- 1: Sedan only
- 2: M/T only
- 3: With LH front window anti-pinch
- 4: With LH and RH front window anti-pinch.
- 5: CVT only
- 6: With auto lights
- 7: With low tire pressure warning system
- 8: Coupe only

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation	ı
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	1
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	J
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	DIA
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	PW
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC	
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms	L
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal	M
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V	Ν
B2601: SHIFT POSITION	Inhibit electronic steering column lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN) 	0
B2602: SHIFT POSITION	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more 	Р

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Display contents of CONSULT	Fail-safe	Cancellation
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

Display contents of CONSULT	Fail-safe	Cancellation
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power supply output 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 • 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 Status 1 Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When BCM transmits the LOCK request signal to the steering lock unit and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No 1 signal: LOCK (0V) • Steering condition No 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000006919953

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

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Priority		DTC	
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2608: STEERING LOCK UNIT B2609: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: ACC RELAY B2611: ACC RELAY B2615: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2619: SCM B2619: SCM B2619: SITATUS B26E8: CLUTCH SW B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG		
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1725: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1734: CONTROL UNIT		

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

INFOID:0000000006919954

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NOTE:

DTC Index

Details of time display

- 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	D
No DTC is detected. further testing may be required.	_	_	_	_	Е
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32	_
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33	F
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34	=
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-36 (Coupe), SEC-250 (Sedan)	G
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-37 (Coupe), SEC-251 (Sedan)	Н
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe), SEC-281 (Sedan)	
B2191: DIFFERENCE OF KEY	×	_	_	SEC-69 (Coupe), SEC-285 (Sedan)	I
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-70 (Coupe), SEC-286 (Sedan)	J
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-71 (Coupe), SEC-287 (Sedan)	
B2195: ANTI-SCANNING	_	_	_	<u>SEC-72</u>	PW
B2553: IGNITION RELAY	_	_	_	PCS-59	
B2555: STOP LAMP	_	_	_	SEC-73 (Coupe), SEC-289 (Sedan)	L
B2556: PUSH-BTN IGN SW	_	×	_	SEC-78 (Coupe), SEC-294 (Sedan)	
B2557: VEHICLE SPEED	×	×	_	SEC-80 (Coupe), SEC-296 (Sedan)	M
B2560: STARTER CONT RELAY	×	×	_	SEC-81 (Coupe), SEC-297 (Sedan)	N
B2562: LOW VOLTAGE	_	_	_	BCS-35	
B2601: SHIFT POSITION	×	×	_	SEC-82 (Coupe), SEC-298 (Sedan)	0
B2602: SHIFT POSITION	×	×	_	SEC-86 (Coupe), SEC-302 (Sedan)	
B2603: SHIFT POSI STATUS	×	×	_	SEC-89 (Coupe), SEC-305 (Sedan)	Р
B2604: PNP SW	×	×	_	SEC-92 (Coupe), SEC-308 (Sedan)	•
B2605: PNP SW	×	×	_	SEC-94 (Coupe), SEC-310 (Sedan)	•
B2606: S/L RELAY	×	×		SEC-96 (Coupe), SEC-312 (Sedan)	•

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2607: S/L RELAY	×	×	_	SEC-97 (Coupe), SEC-313 (Sedan)
B2608: STARTER RELAY	×	×	_	<u>SEC-99</u> (Coupe), <u>SEC-315</u> (Sedan)
B2609: S/L STATUS	×	×	_	SEC-101 (Coupe), SEC-317 (Sedan)
B260A: IGNITION RELAY	×	×	_	PCS-61
B260B: STEERING LOCK UNIT	_	×	_	SEC-106 (Coupe), SEC-322 (Sedan)
B260C: STEERING LOCK UNIT	_	×	_	SEC-107 (Coupe), SEC-323 (Sedan)
B260D: STEERING LOCK UNIT	_	×	_	SEC-108 (Coupe), SEC-324 (Sedan)
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-109</u> (Coupe), <u>SEC-325</u> (Sedan)
B2611: ACC RELAY	_	_	_	PCS-62
B2612: S/L STATUS	×	×	_	<u>SEC-110</u> (Coupe), <u>SEC-331</u> (Sedan)
B2614: ACC RELAY CIRC	_	×	_	PCS-64
B2615: BLOWER RELAY CIRC	_	×	_	PCS-67
B2616: IGN RELAY CIRC	_	×	_	PCS-70
B2617: STARTER RELAY CIRC	×	×	_	SEC-115 (Coupe), SEC-336 (Sedan)
B2618: BCM	×	×	_	PCS-73
B2619: BCM	×	×	_	<u>SEC-117</u> (Coupe), <u>SEC-338</u> (Sedan)
B261A: PUSH-BTN IGN SW	_	×	_	<u>SEC-118</u> (Coupe), <u>SEC-339</u> (Sedan)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-121
B2622: INSIDE ANTENNA	_	_	_	DLK-279
B2623: INSIDE ANTENNA	_	_	_	DLK-282
B26E1: ENG STATE NO RES	×	×	_	SEC-326
B26E8: CLUTCH SW	×	×	_	<u>SEC-123</u>
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	SEC-125
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-126
C1704: LOW PRESSURE FL	_	_	×	<u>WT-8</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-8</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-8</u>
C1707: LOW PRESSURE RL	_	_	×	WT-8
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR		_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[LH ONLY ANTI-PINCH-SEDAN]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-18</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-19</u>

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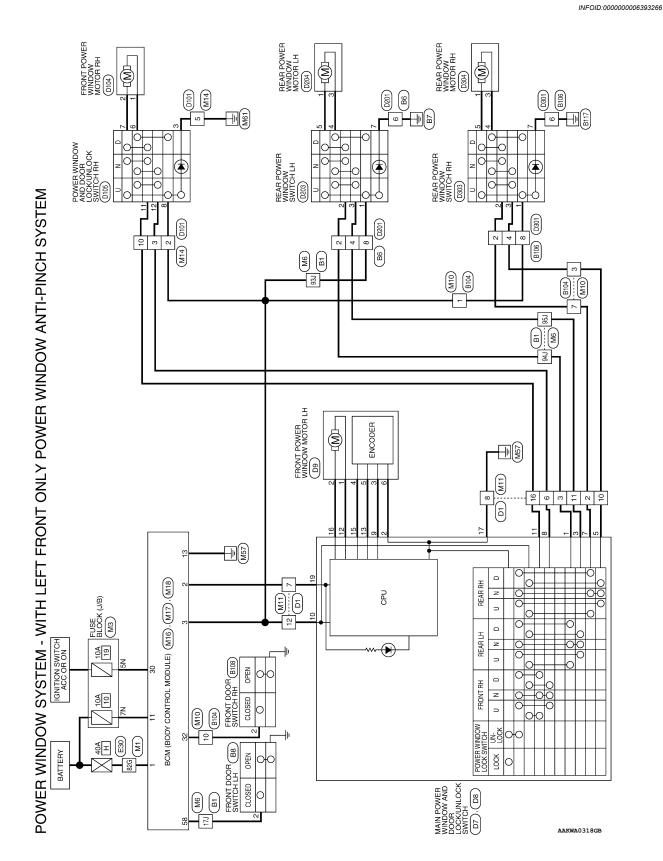
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WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram - Sedan With Left Front Only Power Window Anti-Pinch System



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Connector No. M6 Connector Name WIRE TO WIRE Connector Color WHITE	## 17.0 6.1 5.1 4.1 3.1 1.0 1.	
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Terminal No. Color of Signal Name 5N V/Y - 7N Y/R - 7N Y/R -	
Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	See See See 46 36 16 16 16 16 16 16 1	AAKI

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BAT BCM FUSE Signal Name

Color of Wire Y/R Ш

Terminal No. Ξ 13

GND1

Signal Name	ı	1	1	I	1	ı	I
Color of Wire	R/B	R/Y	В	G/R	0/9	W/l	B/W
Terminal No. Wire	9	2	8	10	11	12	16

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



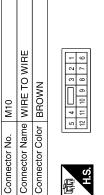
Signal Name

Color of Wire

Terminal No.

G/W G/B

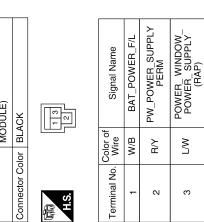
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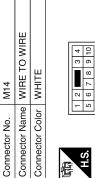


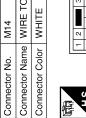
Signal Name	_	_	_	_
Color of Wire	W)	G/R	G/W	R/B
Terminal No.	1	3	7	10

Connector No.	M17
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE
4 TIS	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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







Signal Name	-	I	I	_	
Color of Wire	Γ/W	B/B	В	R/W	
Color of Wire	2	3	5	10	

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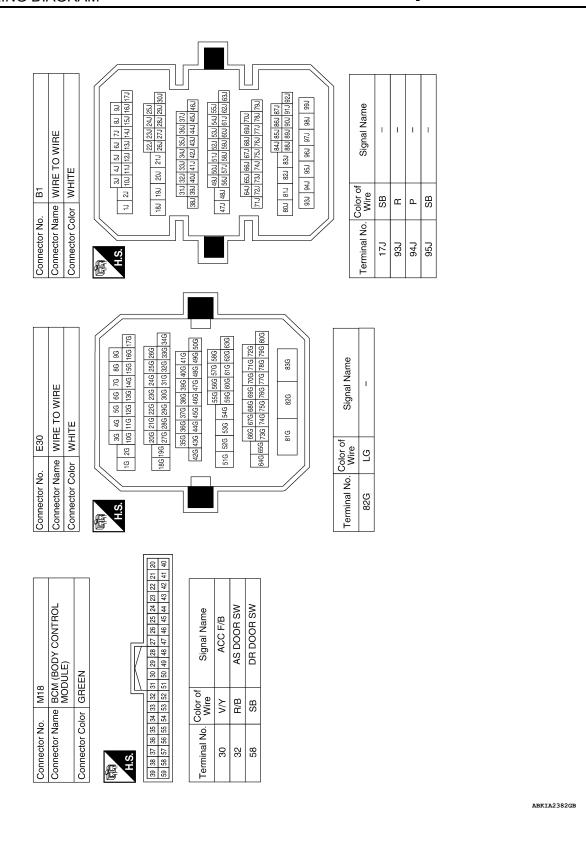
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E TO WIRE WN 4 5 6 11 12 9 10 11 12 9	Signal Name	D1 WHRE TO WIRE Or WHITE 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Signal Name	1	1 1	ı	ı	ı	1	ı
me WIRE TG lor BROWN 1 2 3 mm 1 2 3 mm	Color of Wire SB SB SB SB	D1 WIRE T ON WHITE T T T T T T T T T T T T	Color of Wire	۵	> #	>	В	SB	0	>
Connector No. B104 Connector Name WIRE TO WIRE Connector Color BROWN 1 2 3 4 5 6 7 8 9 10 11 2 6 7 8 9 10 11 2 7 8 9 10 11	Terminal No. 1 1 7 7 7 10	Connector No. Connector Name Connector Color	Terminal No.	2	က ဟ	7	8	10	11	12
HT HOL	ne DR)	CH BH		ne	(AS)					
FRONT DOOR SWITCH LH WHITE	Signal Name DOOR SW (DR)	B108 FRONT DOOR SWITCH RH WHITE	2	of Signal Name						
	Color of Wire SB			o. Color of	GR					
Connector No. Connector Color Market Connector Color H.S.	Terminal No.	Connector No. Connector Color Connector Color		Terminal No.	2					
TTE	Signal Name	E TO WIRE TE	Signal Name	ı	1 1	ı				
me WIRET	Color of Wire SB SB B B	MINE TO WHITE TO WHIT	Color of Wire	8	SB WM	æ				
Connector No. B6 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. 2 4 6 6 8	Connector No. B106 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No.	2	4 0	8				

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	ILOCK			Φ		
	Connector Name AND DOOR LOCK/UNLOCK SWITCH	ш	19	Signal Name	GND	BAT
. D8	main PC me AND DOG SWITCH	lor WHIT	17 18 19	Color of Wire	В	8
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	17	19

Signal Name	RR UP	AS UP	ENCODER SIG2	NÐI	AS DOWN	DR DOWN	ENCODER SIG1	ENCODER POWER	DR UP
Color of Wire	۵	BR	8	>	_	ГG	SB	GR	В
Terminal No. Wire	7	8	6	10	Ξ	12	13	15	16

Connector No.). D7	
Connector Name		MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color WHITE	olor WH	IITE
H.S.	8 9 10	4
Terminal No.	Color of Wire	Signal Name
1	Y	RL UP
2	മ	ENCODER GND
3	0	RL DOWN
5	SB	RR DOWN

Connector No.	D104	4
Connector Name		FRONT POWER WINDOW MOTOR RH
Connector Color	lor WHITE	ТЕ
H.S.	- 8	Z Q
Terminal No.	Color of Wire	Signal Name
1	LG	ı
2	_	I

Connector No.). D101	Н
Connector Name		WIRE TO WIRE
Connector Color	olor WHITE	ПЕ
H.S.	4 01	9 8 L 2 1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1
Terminal No.	Color of Wire	Signal Name
2	SB	1
ဗ	>	1
5	В	ı
10	0	1

Connector No.	D9	
Connector Name		FRONT POWER WINDOW MOTOR LH
Connector Color WHITE	lor WH	31
原面 H.S.	- 8	4 5 6
Terminal No.	Color of Wire	Signal Name
-	FG	I
2	Я	ı
က	×	ı
4	GR	ı
5	SB	ı
9	ŋ	ı

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P203 REAR POWER WINDOW SWITCH LH WHITE	of Signal Name	ı	1	-	I	ı	D303	REAR POWER WINDOW SWITCH RH	WHITE	2 3 4 5 1	of Signal Name	1	ı	-	-	1
Connector Name F	Terminal No. Wire		3 SB	4 LG	5 L	7 B	Connector No.	e e	Connector Color V	Y.S.	Terminal No. Wire	1 R	2 P	3 SB	4 LG	5 L
5 5 5 5 5 F	<u> </u> <u> </u>						ပြ	ijŏ	ŏ		Ľ					
WIRE TO WIRE WHITE	Signal Name	1	ı	ı				E TO WIRE	Щ.	7 6 5 4	Signal Name	-	-	-	-	
	Color of Wire	- SB	В	щ). D301	ame WIR	NOT WHILE	© ®	Color of Wire	Д	SB	В	В	
Connector Name Connector Color H.S.	Terminal No.	1 4	9	8			Connector No.	Connector Name WIRE TO WIRE	Connector Color	是 H.S.	Terminal No.	2	4	9	8	
<u> </u>	J. J.			ı		ı					Signal Name	ı	_			
OWER WINDOW AND SOOR LOCK/UNLOCK SWITCH RH WHITE	Signal Nar						1204	EAR PO	REEN	(c) (a) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d						
WER WI OR LOC ITCH RF	Terminal No. Color of Wire Signal Nam	45	7	SB	0	*	Connector No. D204	ne	Connector Color GREEN	0 0	Terminal No. Color of Wire	Г	LG			

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14	Connector Name REAR POWER WINDOW MOTOR RH	N	2 2 2	Signal Name	_	_
. D304	me RE/	lor GRE	- 4	Color of Wire	7	0
Connector No.	Connector Na	Connector Color GREEN	是 H.S.	Terminal No.	1	8
Conne	Conne	Conne	H.S.	Termir		

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH [LH ONLY ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY **SWITCH**

Diagnosis Procedure

INFOID:0000000006393267

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-18, "BCM: 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

Check main power window and door lock/unlock switch.

Refer to PWC-22, "POWER WINDOW MAIN SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

$oldsymbol{3}.$ 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 >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> Repair or replace the malfunctioning parts. NO

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:0000000006393268

1. CHECK FRONT POWER WINDOW MOTOR LH
Check front power window motor LH.

Refer to PWC-30, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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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:0000000006393269

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

Check power window and door lock/unlock switch RH.

Refer to PWC-24, "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-32, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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:0000000006393270

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1. CHECK REAR POWER WINDOW SWITCH LH
Check rear power window switch LH.

Refer to PWC-26, "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-33, "REAR LH: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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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:0000000006393271

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to PWC-26, "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-35, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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) Α Diagnosis Procedure INFOID:0000000006393272 1. PERFORM INITIALIZATION PROCEDURE В Perform initialization procedure. Refer to PWC-24, "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 D · A foreign material adheres to window glass or glass run rubber. Glass run rubber wear or deformation. Е Sash is tilted too much or not enough. Is the inspection result normal? YES >> GO TO 3 F NO >> Repair or replace the malfunctioning parts. $3.\,$ CHECK ENCODER CIRCUIT Check encoder circuit. Refer to PWC-38, "DRIVER SIDE: Component Function Check". Is the inspection result normal? Н YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> Repair or replace the malfunctioning parts.

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PWC-89 Revision: June 2012 2011 Altima GCC

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

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

Diagnosis Procedure

INFOID:0000000006393273

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-24, "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-38, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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

INFOID:0000000006393274

Diagnosis Procedure

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-41, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[LH ONLY ANTI-PINCH-SEDAN]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000006393275

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

Replace main power window and door lock/unlock switch. Refer to PWC-97, "Removal and Installation".

>> INSPECTION END

PRECAUTIONS

< PRECAUTION >

[LH ONLY ANTI-PINCH-SEDAN]

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONFR"

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
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000006921774

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- Perform the necessary repair operation.

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PRECAUTIONS

< PRECAUTION >

[LH ONLY ANTI-PINCH-SEDAN]

- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- Perform self-diagnosis check of all control units using CONSULT.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- · After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.
- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty area.
 - Then rub with a soft and dry cloth.
- Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

[LH ONLY ANTI-PINCH-SEDAN]

PREPARATION

PREPARATION

Special Service Tool

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
 (J-46534) Trim tool set	AWJIA0483ZZ	For removing trim

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PRE-INSPECTION FOR DIAGNOSTIC

< PERIODIC MAINTENANCE >

[LH ONLY ANTI-PINCH-SEDAN]

PERIODIC MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

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

< REMOVAL AND INSTALLATION >

[LH ONLY ANTI-PINCH-SEDAN]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

REMOVAL

- 1. Remove the front door armrest finisher. Refer to INT-13, "Removal and Installation".
- 2. Using a suitable tool, release the pawls, then lift upward the main power window and door lock/unlock switch and finisher as an assembly.

CAUTION:

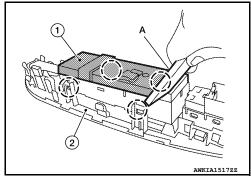
Wrap a cloth around suitable tool to protect components from damage.

- 3. Disconnect the harness connector.
- 4. Remove the main power window and door lock/unlock switch and finisher assembly from the front door finisher.
- 5. Release the four pawls (two on each side) with a suitable tool (A), then separate the main power window and door lock/unlock switch (1) from the switch finisher (2).

(]):Pawl

CAUTION:

Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Perform initialization procedure after switch is connected. Refer to PWC-11, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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FRONT POWER WINDOW SWITCH

[LH ONLY ANTI-PINCH-SEDAN]

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FRONT POWER WINDOW SWITCH

Removal and Installation

REMOVAL

- Remove the front door armrest finisher. Refer to INT-13, "Removal and Installation".
- 2. Using a suitable tool, release the pawls, then lift upward the power window and door lock/unlock switch RH and finisher (2) as an assembly.

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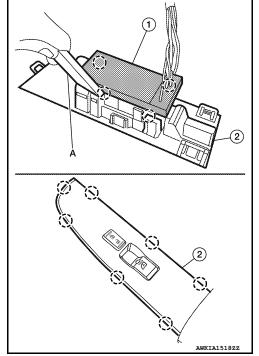
CAUTION:

Wrap a cloth around suitable tool to protect components from damage.

- 3. Disconnect the harness connector.
- 4. Remove the power window and door lock/unlock switch RH and finisher (2) assembly from the front door finisher.
- 5. Release the four pawls (two on each side) with a suitable tool (A), then separate the power window and door lock/unlock switch RH (1) from the switch finisher (2).



Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

[LH ONLY ANTI-PINCH-SEDAN]

REAR POWER WINDOW SWITCH

Removal and Installation

REMOVAL

1. Using a suitable tool, release the pawls, then lift upward the rear power window switch and finisher (2) as an assembly.

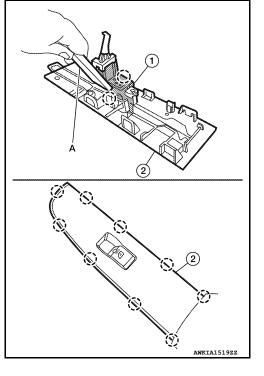
(_):Pawl CAUTION:

Wrap a cloth around suitable tool to protect components from damage.

- 2. Disconnect the harness connector.
- 3. Remove the rear power window switch and finisher (2) assembly from the rear door finisher.
- 4. Release the two pawls (one on each side) with a suitable tool (A), then separate the rear power window switch (1) from the switch finisher (2).



Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

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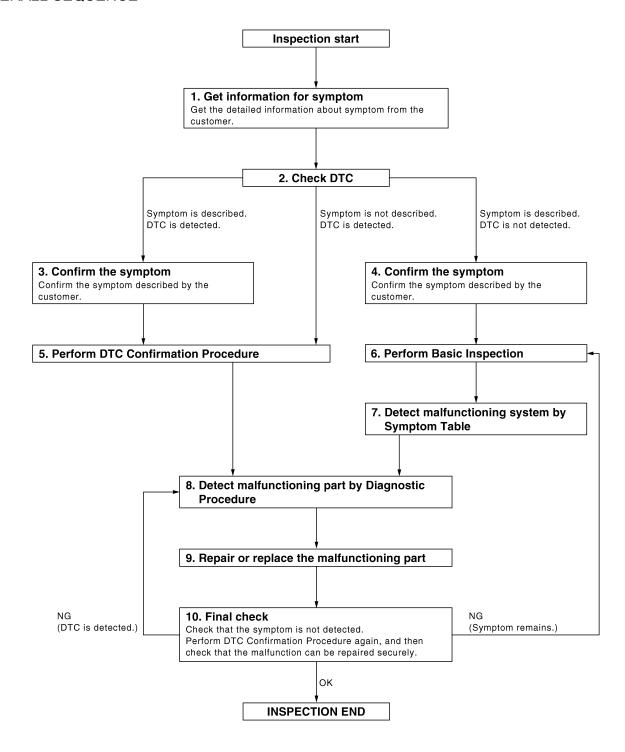
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH&RH FRONT 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

$\mathbf{2}$. CHECK DTC

- Check DTC.
- Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 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 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 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

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 to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to BCS-65, "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-42, "Intermittent Incident".

$oldsymbol{6}$. PERFORM BASIC INSPECTION

Perform PWC-100, "Work Flow".

Inspection End>>GO TO 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-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.

<u>Is malfunctioning part detected?</u>

YES >> GO TO 9

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

$oldsymbol{9}.$ REPAIR OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- 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-COUPE] < BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: De-В scription INFOID:0000000006393283 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 D Retained power operation ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Spe-Е cial Repair Requirement INFOID:0000000006393284 INITIALIZATION PROCEDURE Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more. 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. Н 5. Inspect anti-pinch function. CHECK ANTI-PINCH FUNCTION 1. Fully open the door window. Place a piece of wood near fully closed position. 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-137, "Fail Safe". Perform initial setting when auto-up operation or anti-pinch function does not operate normally. L • Finish initial setting. Otherwise, next operation cannot be done. 1. Auto-up operation 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:0000000006393285

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:0000000006393286

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

< BASIC INSPECTION >

[LH&RH FRONT ANTI-PINCH-COUPE]

- 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:

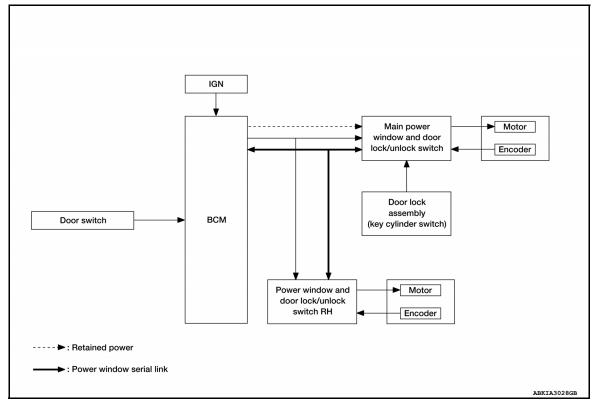
- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-137, "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.

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

POWER WINDOW ANTI-PINCH SYSTEM



System Description

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POWER WINDOW MAIN 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	
Key cylinder switch	LOCK/UNLOCK signal (more than 1.5 seconds over)			
Encoder	Encoder pulse signal			
Main power window and door lock/unlock switch	Power window motor LH UP/DOWN signal	Power window control	Front power window motor	
Power window and door lock/unlock switch RH	Power window motor RH UP/DOWN signal			
ВСМ	RAP signal			

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

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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

< SYSTEM DESCRIPTION >

[LH&RH FRONT ANTI-PINCH-COUPE]

 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:

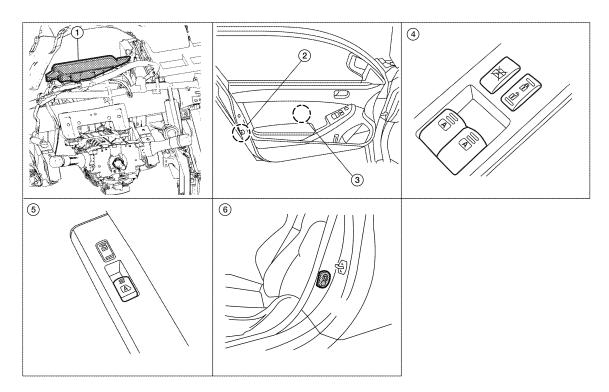
Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUP-PORT". Refer to BCS-16, "COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)".

NOTE:

Use CONSULT to change settings.

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

Component Parts Location



- BCM M16, M17, M18 (view with instrument panel removed)
- Main power window and door lock/ 5. unlock switch D7
- Door lock assembly LH (key cylinder 3. switch) D10
- Power window and door lock/unlock 6. switch RH D105
- Power window motor LH D9, RH D104
- Front door switch LH B8, RH B108

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Component Description

POWER WINDOW ANTI-PINCH SYSTEM

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POWER WINDOW SYSTEM

[LH&RH FRONT ANTI-PINCH-COUPE]

Component	Function
BCM	Supplies power supply to power window switch.Controls retained power.
Main power window and door lock/unlock switch	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	Controls front power window motor RH. Controls anti-pinch operation of power window RH.
Power window motor LH	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	Integrates the ENCODER POWER and WINDOW MOTOR. Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH. Transmits power window motor rotation as a pulse signal to 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)

<	SYS	TEM	DESC	CRIP	ΓΙΟΝ	>

[LH&RH FRONT ANTI-PINCH-COUPE]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000006919933

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ECU IDENTIFICATION

Displays the BCM part No.

SELF-DIAG RESULT

Refer to PWC-73, "DTC Index".

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

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.

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Revision: June 2012 PWC-109 2011 Altima GCC

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000006919966

Regarding Wiring Diagram information, refer to <u>BCS-70, "Wiring Diagram - Coupe"</u> or <u>BCS-79, "Wiring Diagram - Sedan"</u>.

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	Н
11		10

Is the fuse or fusible link blown?

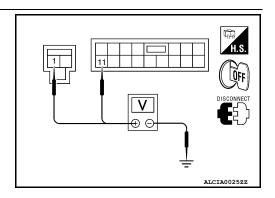
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

$oldsymbol{2}$. CHECK POWER SUPPLY CIRCUIT

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

(+)	(-)	Voltage	
В	CM		(Approx.)	
Connector	Terminal	Ground		
M16	1	Ground	Battery voltage	
M17	11		Battery Voltage	



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

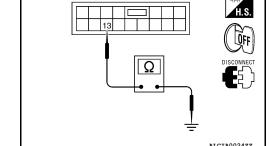
Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M17	M17 13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



BCM: Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

INFOID:0000000006919967

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Initialize control unit. Refer to <u>BCS-3</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

>> Work End.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

- · 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

Main Power Window And Door Lock/Unlock Switch

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

Check power window motor operation with main power window and door lock/unlock switch.

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-111, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

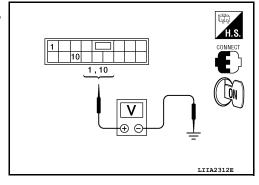
Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

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

1. CHECK POWER SUPPLY CIRCUIT

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

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

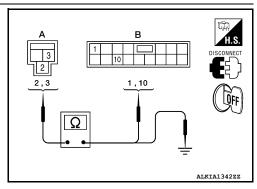


Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- 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).



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Revision: June 2012 PWC-111 2011 Altima GCC

[LH&RH FRONT ANTI-PINCH-COUPE]

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M16 (A)	3	D7 (B)	10	Yes
WHO (A)	2	ы (в)	1	162

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

BCM connector	Terminal		Continuity
M16	3	Ground	No
WITO	2		140

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

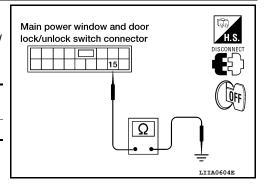
YES >> GO TO 4

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	
D7	15		Yes	



Is the inspection result normal?

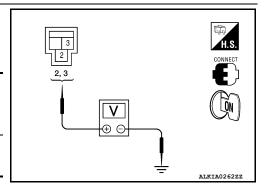
YES >> GO TO 5

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		V-11 0.0	
(+)		(-)	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)		
M16	3	Cround	Pattony voltago	
WHO	2	Ground	Battery voltage	



Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

${f 5}$. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

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

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

INFOID:0000000006393300

	Terminal					
(+) Main power window and door lock/unlock switch connector	Terminal	(-)	Window switch position RH	Voltage (V) (Approx.)		
			UP	Battery voltage		
D.7	8	0	DOWN	0		
D7	11	Ground	UP	0		
	11		DOWN	Battery voltage		
NO >> Rep Inst	ck intermi lace mair allation".	ittent incider n power wir	nt. Refer to <u>GI-42.</u> Indow and door lo	ck/unlock switc	n. Refer to <u>PWC-190, "Removal and</u>	
POWER WI	I WODI	MAIN SW	ITCH : Specia	l Repair Red	quirement INFOID:000000000639329	,
1. PERFORM	NITIAI 174	ATION PRO	CEDURE			
Perform initializa						•
Refer to PWC-1			RVICE WHEN RE	PLACING CON	TROL UNIT: Special Repair Require	
<u>nent"</u> .		10				
s the inspection YES >> GO		rmai?				
	-	ittent incider	nt. Refer to <u>GI-42.</u>	"Intermittent Inc	ident".	
2. CHECK AN	TI-PINCH	OPERATIO	N			
Check anti-pincl Refer to <u>PWC-1</u> ment".			RVICE WHEN RE	PLACING CON	TROL UNIT : Special Repair Require	
s the inspection	result no	rmal?				
YES >> Insp	ection En	ıd.				
			<u>/ER SIDE : Compo</u> SWITCH (PAS			
			,		,	
RONT POV	VER WI	NDOW S	WITCH (PASS	SENGER SI	DE): Description INFOID:00000000639329)
BCM supplies						
		•	•		ock/unlock switch RH is operated.	
	VER WI	NDOW S	WITCH (PASS	SENGER SI	DE) : Component Function	
Check					INFOID:00000000639329	,
Power Window	And Doo	or Lock/Uni	ock Switch RH			
4			OR RH FUNCTION	Al		
					look/uplook owitch DU	
s the inspection		•	auon with power W	indow and door	lock/unlock switch RH.	
•			ock/unlock switch	RH power supp	ly and ground circuit are OK.	
	er to <u>PWC</u> ure".	<u> </u>	NT POWER WINI		<u> PASSENGER SIDE) : Diagnosis Pro</u>	

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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

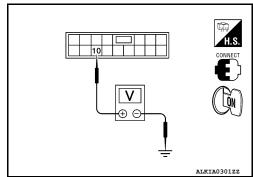
Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

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.

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



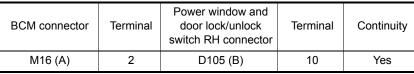
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect BCM and power window and door lock/unlock switch
- 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



Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	2	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

$3.\,$ CHECK GROUND CIRCUIT

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

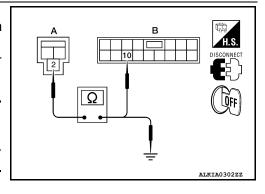
Power window and door lock/unlock switch RH		Ground	Continuity
D105	11		Yes

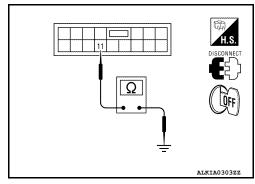
Is the inspection result normal?

>> Check intermittent incident. Refer to GI-42. "Intermittent YES Incident".

NO >> Repair or replace harness.

CHECK BCM OUTPUT SIGNAL



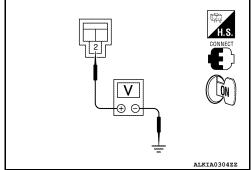


< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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

	V 11 0.0		
(+)		(-)	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	, , , ,
M16	2	Ground	Battery voltage



Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent</u> Incident".

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Special Repair Requirement

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-103</u>, "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-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to <u>PWC-103</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to PWC-122, "PASSENGER SIDE : Component Function Check".

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Revision: June 2012 PWC-115 2011 Altima GCC

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000006393302

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

DRIVER SIDE : Component Function Check

INFOID:0000000006393303

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check power window motor LH operation 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-116, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006393304

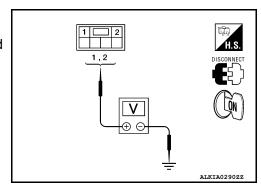
Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

Power Window Motor LH Circuit Check

${f 1}.$ CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

- 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.

Т	erminal				
(+)	(+)		Main power win- dow and door lock/	Voltage (V)	
Power window motor LH con- nector	Terminal	(–)	unlock switch con- dition	(Approx.)	
	2		UP	Battery voltage	
D9	2	Ground	DOWN	0	
D9	1	Giouna	UP	0	
	I		DOWN	Battery voltage	
. (b					



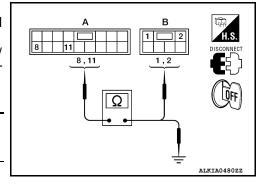
Is the measurement value within the specification?

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.
- 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 mo- tor LH connector	Terminal	Continuity
D7 (A)	8	D9 (B)	2	Yes
<i>DI</i> (A)	11	Б9 (В)	1	165



POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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	Overal	Continuity
D7 (A)	8	Ground	No
DT (A)	11		NO

Is the inspection result normal?

YES >> Refer to PWC-111, "POWER WINDOW MAIN SWITCH: Component Function Check".

NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR

Check power window motor LH.

Refer to PWC-117, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace power window motor LH. Refer to <u>GW-22, "Removal and Installation"</u>. After that, refer to <u>PWC-117, "DRIVER SIDE: Special Repair Requirement"</u>.

DRIVER SIDE: Component Inspection

INFOID:0000000006393305

COMPONENT INSPECTION

${f 1}$. CHECK POWER WINDOW MOTOR LH

Check motor operation by connecting the battery voltage directly to power window motor.

Terr	minal	Motor condition	
(+)	(-)	Wotor 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 <u>GW-22, "Removal and Installation"</u>. After that, refer to <u>PWC-117, "DRIVER SIDE: Special Repair Requirement".</u>

DRIVER SIDE: Special Repair Requirement

INFOID:0000000006393306

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-103, "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-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to <u>PWC-103</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to PWC-120, "DRIVER SIDE : Component Function Check".

PASSENGER SIDE

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PASSENGER SIDE: Description

INFOID:0000000006393307

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:0000000006393308

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check power window motor operation 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-118, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000006393309

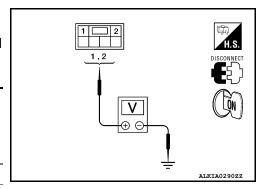
Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

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.

Te	rminal			
(+)			Power window motor RH con-	Voltage (V)
Power window mo- tor RH connector	Terminal	(–)	dition	(Approx.)
	1		UP	Battery voltage
D104		Ground	DOWN	0
D10 4		Giodila	UP	0
	2		DOWN	Battery voltage



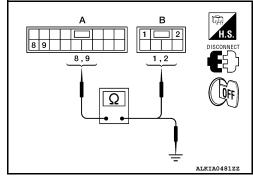
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 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 mo- tor RH connector	Terminal	Continuity
D105 (A)	8	D104 (B)	2	Yes
D103 (A)	9	D104 (B)	1	162



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

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Power window and door				A			
lock/unlock switch RH con- nector	Terminal	Ground	Continuity				
D105 (A)	8 9		No	E			
Is the inspection result r	ormal?						
YES >> Refer to PWC-113 , "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Component Function Check". NO >> Repair or replace harness.							
_ '	•			Γ			
3. CHECK POWER WI	NDOW MOTO)R RH					
Check power window me Refer to PWC-119, "PAS	SSENGER SIE	DE : Compone	ent Inspection".	E			
Is the inspection result r		4. Dafanta Ol	40 Matamaittant Inci	al 411			
NO >> Replace por	wer window m	otor RH. Refe	-42, "Intermittent Incie er to <u>GW-22, "Remove</u> al Repair Reguiremen	al and Installation". After that, refer to			
PASSENGER SIDE	E : Compor	ent Insped	ction	INFOID:000000006393310			
COMPONENT INSPE	CTION			(
1. CHECK POWER WI		R RH					
Check motor operation by	by connecting	the battery vo	oltage directly to power	er window motor RH.			
·		•	,				
Termina	I		Motor condition	-			
(+)	(–)		Wotor condition	_			
1	2		UP	_			
2	1		DOWN	_			
Is the inspection result n				_			
YES >> Power wind NO >> Replace por PWC-119, "	wer window m	otor RH. Refe	er to <u>GW-22, "Remov</u> al Repair Requiremer	al and Installation". After that, refer to nt".			
PASSENGER SIDE	: Special	Repair Re	guirement	INFOID:000000006393311 L			
	•	•	90	## GE:500000000000			
1. PERFORM INITIALI		JEDURE					
Perform initialization pro			N DEDI ACINIC CONT	ا - FROL UNIT : Special Repair Require			
ment".	DITIONAL SL	NVICE WITE	NEFLACING CON	TKOL UNTI : Special Kepali Kequile-			
Is the inspection result r	ormal?			N			
YES >> GO TO 2							
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .							
2. CHECK ANTI-PINCE	H OPERATION	١		C			
Check anti-pinch operat Refer to <u>PWC-103</u> , "ADI ment".		RVICE WHEN	N REPLACING CONT	FROL UNIT : Special Repair Require-			
Is the inspection result n	ormal?						
YES >> Inspection End.							
NO >> Refer to PW		SENIOED OID	E: Component Funct	the Charles III			

ENCODER

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000006393312

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:0000000006393313

1. CHECK ENCODER OPERATION

Check 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-120, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006393314

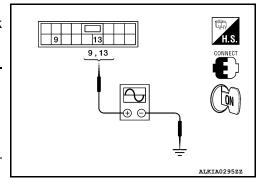
Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

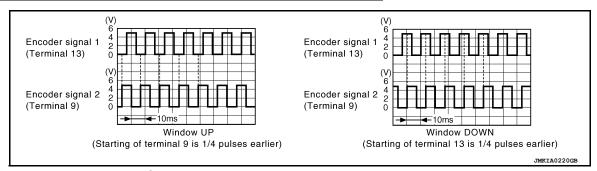
Encoder Circuit Check

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.

Т			
(+)			Signal
Main power window and door lock/unlock switch connector	Terminal	(–)	(Reference value)
D7	9	Ground	Refer to following signal
Di	13	Ground	Trefer to following signal





Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 2

2. CHECK POWER WINDOW MOTOR LH POWER SUPPLY

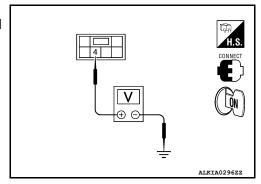
ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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

Terminal			
(+)			Voltage (V)
Power window mo- tor LH connector	Terminal	(–)	(Approx.)
D9	4	Ground	10



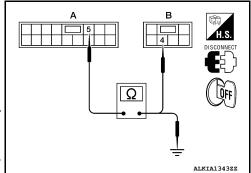
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

- Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch and power window motor LH.
- 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 mo- tor LH connector	Terminal	Continuity
D7 (A)	5	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)	5		No

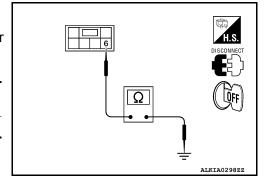
Is the inspection result normal?

- YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and Installation".
- NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

- 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
D9	6		Yes



Is the inspection result normal?

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

$\mathbf{5}$. CHECK HARNESS CONTINUITY 2

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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

- 1. Disconnect main power window and door lock/unlock switch.
- 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 mo- tor LH connector	Terminal	Continuity
D7 (A)	14	D9 (B)	6	Yes

A B DISCONNECT OFF

Is the inspection result normal?

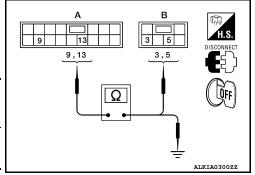
YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and Installation".

NO >> Repair or replace harness.

CHECK HARNESS CONTINUITY 3

- 1. Disconnect main power window and door lock/unlock switch.
- 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 mo- tor LH connector	Terminal	Continuity
D7 (A)	9	D9 (B)	5	Yes
D7 (A)	13	D9 (B)	3	165



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	0 1	Continuity
D7 (A)	9	Ground	No
Dr (A)	13		NO

Is the inspection result normal?

YES >> Replace power window motor LH. Refer to <u>GW-22, "Removal and Installation"</u>. After that, refer to <u>PWC-117, "DRIVER SIDE: Special Repair Requirement"</u>.

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

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

1. CHECK ENCODER OPERATION

Check 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-122, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

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INFOID:0000000006393315

INFOID:0000000006393316

[LH&RH FRONT ANTI-PINCH-COUPE]

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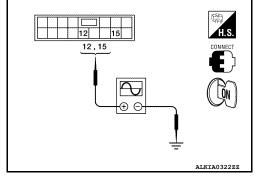
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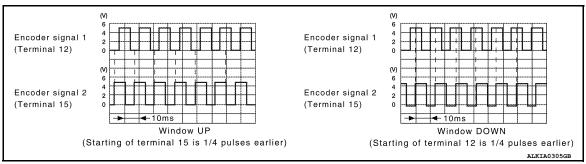
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1. CHECK ENCODER SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between power window and door lock/unlock switch RH connector and ground with oscilloscope.

-			
(+)		Signal	
Power window and door lock/unlock switch RH connector	Terminal	(-)	(Reference value)
D105	12	Ground	Refer to following
	15	Giouna	signal





Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

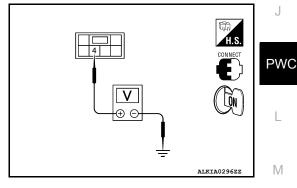
NO >> GO TO 2

2. CHECK POWER WINDOW MOTOR RH POWER SUPPLY

1. Turn ignition switch ON.

Check voltage between power window motor RH connector and ground.

(+)			Voltage (V)
Power window motor RH connector	Terminal	(–)	(Approx.)
D105	4	Ground	10



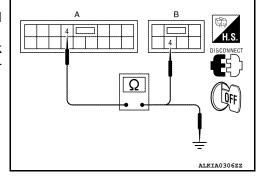
Is the measurement value within the specification?

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

3. CHECK HARNESS CONTINUITY 1

- 1. Turn ignition switch OFF.
- 2. Disconnect power window and door lock/unlock switch RH and power window motor RH.
- 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 mo- tor 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.

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Power window and door lock/ unlock switch RH connector	Terminal	Ground	Continuity
D105 (A)	4		No

Is the inspection result normal?

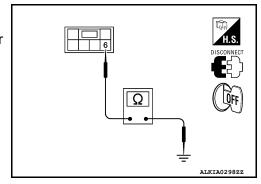
YES >> Replace power window and door lock/unlock switch RH. Refer to PWC-191, "Removal and Installation".

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 con- nector	Terminal	Ground	Continuity
D104	6		Yes



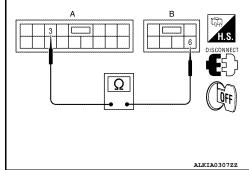
Is the inspection result normal?

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

5. CHECK HARNESS CONTINUITY 2

- 1. Disconnect power window and door lock/unlock switch RH.
- 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 mo- tor RH connector	Terminal	Continuity
D105 (A)	3	D104 (B)	6	Yes



Is the inspection result normal?

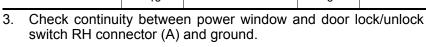
YES >> Replace power window and door lock/unlock switch RH. Refer to PWC-191, "Removal and Installation".

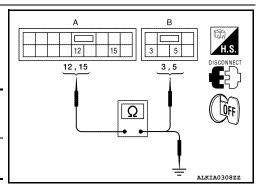
NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

- 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 mo- tor RH connector	Terminal	Continuity
D105 (A)	12	D104 (B)	3	Yes
D 103 (A)	15	(b)	5	163





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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Power window and door lock/unlock switch RH connector	Terminal	Ground	Continuity
D105 (A)	12		No
D103 (A)	15		INO

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Is the inspection result normal?

YES >> Replace power window motor RH. Refer to <u>GW-22, "Removal and Installation"</u>. After that, refer to <u>PWC-119, "PASSENGER SIDE: Special Repair Requirement"</u>.

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NO >> Repair or replace harness.

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[LH&RH FRONT ANTI-PINCH-COUPE]

INFOID:0000000006393320

DOOR SWITCH

Description INFOID:0000000006393318

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

Component Function Check

INFOID:0000000006393319

1. CHECK DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT. Refer to BCS-30, "RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)".

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

Is the inspection result normal?

YES >> Door switch circuit is OK.

>> Refer to PWC-126, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

	Terminals				
(+	·)			Voltage (V)	
BCM connector	Terminal				(Approx.)
	32	Ground	Front door	OPEN	0
M18	58		RH	CLOSE	Battery voltage
IVITO			Front door	OPEN	0
			LH	CLOSE	Battery voltage

Is the measurement value within the specification?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M18	32	RH: B108	2	Yes
WITO	58	LH: B8	2	165

Check continuity between BCM connector and ground.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

BCM connector	Terminal		Continuity
M18	32	Ground	No
IVITO	58		INO

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			V/-11 () ()	
(+)		(-)	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)	, , ,	
M18	32	Ground	Battery voltage	
IVI I O	58	Giodila	Ballery Vollage	

Is the measurement value within the specification?

YES >> GO TO 4

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

4. CHECK DOOR SWITCH

Check door switch.

Refer to PWC-127, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace door switch.

Component Inspection

1. CHECK DOOR SWITCH

Check door switches.

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

Is the inspection result normal?

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

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

DOOR KEY CYLINDER SWITCH

Description INFOID:0000000063933222

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:0000000006393323

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. Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Monitor item	Condition		
KEY CYL LK-SW	Lock	: ON	
RET GTE ER-SW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
RET CIL UN-OW	Neutral / Lock	: OFF	

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Refer to PWC-128, "Diagnosis Procedure".

Diagnosis Procedure

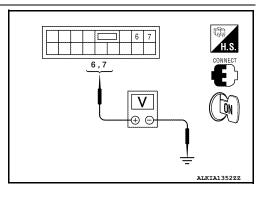
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Regarding Wiring Diagram information, refer to PWC-169. "Wiring Diagram - Coupe".

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					
(+)				Voltage (V)	
Main power window and door lock/unlock switch connector	Terminal	(–)	Key position	(Approx.)	
	6		Lock	0	
D7	O	Ground	Neutral/Unlock	5	
DI .	7	Oround	Unlock	0	
	,		Neutral/Lock	5	



Is the measurement value within the specification?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and lnstallation".

NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

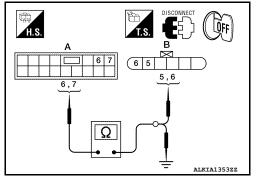
DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and door lock assembly LH (key cylinder switch).
- 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
D7 (A)	6	D10 (B)	6	Yes
D7 (A)	7	Б10 (В)	5	res



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		Continuity
D7 (A)	6	Ground	No
Dr (A)	7		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

${f 3}.$ 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 cyl- inder switch) connector	Terminal	Ground	Continuity
D10	4		Yes

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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-129, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace door lock assembly LH (door key cylinder switch). After that, refer to PWC-130, "Special Repair Requirement".

Component Inspection

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

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PWC-129 Revision: June 2012 2011 Altima GCC

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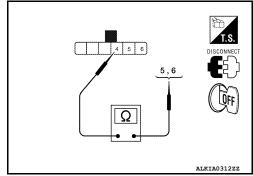
DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Check door lock assembly LH (key cylinder switch).

Term	inal			
Door lock assembly LH (key cylinder switch) connector		Key position	Continuity	
5	_	Unlock	Yes	
3	4	Neutral/Lock	No	
6	4	Lock	Yes	
0		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-130, "Special Requirement".

Special Repair Requirement

INFOID:0000000006393326

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>DLK-11</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement"

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

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

 ${f 1}$. 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 SYS-TEM" with CONSULT. Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Monitor item	(Condition	
CDL LOCK SW	LOCK	: ON	
ODE LOOK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK 3W	UNLOCK	: ON	

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-131, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

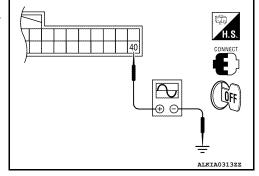
POWER WINDOW MAIN SWITCH: Diagnosis Procedure

Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

Power Window Serial Link Check

${f 1}$. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

- 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".



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	Terminal			
(+)		(_)	Signal (Reference value)	
BCM connector	Terminal	(–)	(
M18	40	Ground	(V) 15 10 5 0 	

Is the inspection result normal?

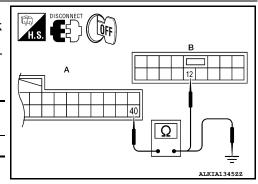
YES >> Power window serial link is OK.

NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM 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
M18 (A)	40	D7 (B)	12	Yes



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

BCM connector	Terminal	Ground	Continuity
M18 (A)	40	Ground	No

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

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

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

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POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-133, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

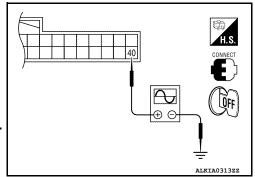
Regarding Wiring Diagram information, refer to PWC-169, "Wiring Diagram - Coupe".

Power Window Serial Link Check

${f 1}$. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

- Remove Intelligent Key, and close the door LH and RH.
- 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 (+)		0: 1	
(+)			Signal (Reference value)	
BCM connector	Terminal	(–)	(**************************************	
M18	40	Ground	(V) 15 10 5 0 10 ms	
Is the inspection result normal?				



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NO >> GO TO 2 2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

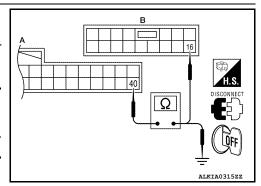
>> Power window serial link is OK.

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.

YES

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 con- nector	Terminal	Continuity
M18 (A)	40	D105 (B)	16	Yes



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POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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

BCM connector	Terminal	Ground	Continuity
M18 (A)	40	Ground	No

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and lnstallation".

NO \Rightarrow Repair or replace harness.

POWER WINDOW LOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

POWER WINDOW LOCK SWITCH

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

1. CHECK POWER WINDOW LOCK SIGNAL

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

<u>Does power window lock operate?</u>
 YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and <a href="Installation".

NO >> Check condition of harness and connector.

Special Repair Requirement

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-103</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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Revision: June 2012 PWC-135 2011 Altima GCC

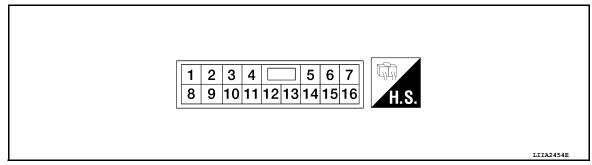
POWER WINDOW MAIN SWITCH

ECU DIAGNOSIS INFORMATION

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Termina	al No.	Description			Voltage [V]	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
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/Unlocked → Locked)	5 → 0	
7 (L/R)	Ground	Door key cylinder switch LH UNLOCK signal	Input	Key position (Neutral/Lock → Un- locked)	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.	(V) 6 4 2 0 10 ms	
				IGN SW ON	Battery voltage	
10 (V)	Ground	RAP signal	Input	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	

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Terminal No.		Description			Voltage [V]	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
12 (BR)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 10 ms	
13 (W)	2	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB	
14 (G)	Ground	Encoder ground	_	_	0	
15 (B)	Ground	Ground	_	_	0	

Fail Safe

FAIL-SAFE CONTROL

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

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 failsafe 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.

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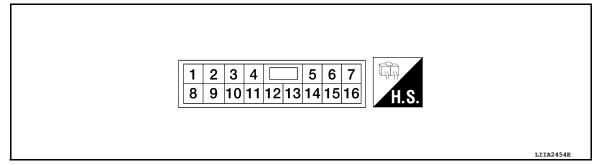
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FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Termi	nal No.	Description			Voltage [V]
+	_	Signal name	Input/ Output	Condition	(Approx.)
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.	(V) 6 4 2 0 10 ms JMKIA0070GB

FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Term	inal No.	Description			Voltage [V]	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
15 (Y)	3	Encoder pulse signal 1	Input	When power window motor operates.	(V) 6 4 2 0 10 ms	
16 (R)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 10 ms	

Fail Safe

FAIL-SAFE CONTROL

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

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 failsafe 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.

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< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW DOOR SW-DR DOOR SW-RR DOOR SW-RR	Other than front wiper switch HI	OFF
TIX WIF LIXTII	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIFER LOW	Front wiper switch LO	ON
ED MASHED SM	Front washer switch OFF	OFF
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP NT VOLUME FURN SIGNAL R FURN SIGNAL L FAIL LAMP SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW DOOR SW-DR	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
TR WIFER STOF	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 6	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TUDNI SICNAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L TAIL LAMP SW HI BEAM SW	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
LI DEAM CW	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 1 HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
Front wiper switch HI Other than front wiper switch LO FR WASHER SW Front washer switch OFF Front washer switch ON Other than front wiper switch IN FR WIPER INT Front washer switch ON Other than front wiper switch IN Front wiper switch INT FR WIPER STOP TOTH Wiper is not in STOP position INT VOLUME TURN SIGNAL R TURN SIGNAL R TURN SIGNAL L Turn signal switch RH Other than lighting switch 1ST Lighting switch 1ST or 2ND Other than lighting switch 1ST Lighting switch 2ND Lighting switch 2ND Under than lighting switch 2ND Lighting switch 2ND Other than lighting switch 2ND Lighting switch PASS Lighting switch PASS Other than lighting switch AUTO FR FOG SW Tother than lighting switch OFF Front fog lamp switch OFF Front fog lamp switch ON Driver door closed Driver door opened Passenger door closed Passenger door closed Passenger door opened Rear RH door opened Rear LH door opened Rear LH door opened Rear LH door opened	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW DOOR SW-DR DOOR SW-AS DOOR SW-RR	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
Front wiper switch HI Other than front wiper switch LO Front wiper switch LO Front washer switch OFF Front washer switch ON Other than front wiper switch INT OTHER WIPER INT Front wiper switch INT ON Front wiper is not in STOP position ON INT VOLUME Wiper intermittent dial is in a dial position 1 - 6 Win TURN SIGNAL R TURN SIGNAL R TURN SIGNAL L TURN SIGNAL R TO SHOULT SWINCH SIGNAL SWITCH SIGNAL	Front fog lamp switch OFF	OFF
	ON	
DOOD SW DD	Driver door closed	OFF
DOOK SW-DK	Driver door opened	ON
DOOD SW AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD SW DD	Rear RH door closed	OFF
DOOK SW-KK	Rear RH door opened	ON
DOOD SW DI	Rear LH door closed	OFF
DOOK SW-KL	Rear LH door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Monitor Item	Condition	Value/Status	_
	Other than power door lock switch UNLOCK	OFF	- A
CDL UNLOCK SW	Power door lock switch UNLOCK	ON	_
VEV CVI LIX CW	Other than driver door key cylinder LOCK position	OFF	<u>-</u> В
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON	_
CEV CVI LIN CW	Other than driver door key cylinder UNLOCK position	OFF	_
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON	С
LIAZADD CVA	When hazard switch is not pressed	OFF	-
HAZARD SW	When hazard switch is pressed	ON	_
REAR DEF SW	When rear window defogger switch is pressed	ON	
FAN ON SIG	When AUTO switch or fan switch is pressed	ON	_
AIR COND SW	When A/C switch is pressed	ON	Е
ED 04110EL 0111	Trunk lid opener cancel switch OFF	OFF	_
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	
	Trunk lid opener switch OFF	OFF	
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON	<u> </u>
	Trunk lid closed	OFF	G
TRNK/HAT MNTR	Trunk lid opened	ON	_
	When LOCK button of Intelligent Key is not pressed	OFF	-
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	- H
21/2 1 1 1 2 2 1 /	When UNLOCK button of Intelligent Key is not pressed	OFF	_
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON	-
21/5 72/22	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	_
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON	_
DICE DANIE	When PANIC button of Intelligent Key is not pressed	OFF	J
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed and held	OFF	PV
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	_ L
RKE-MODE CHG	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	M
OI HOAL SENSOR	When outside of the vehicle is dark	Close to 0 V	_
DEO SW DD	When driver door request switch is not pressed	OFF	- N.1
REQ SW-DR	When driver door request switch is pressed	ON	- N
	When passenger door request switch is not pressed	OFF	_
REQ SW-AS	When passenger door request switch is pressed	ON	0
	When trunk request switch is not pressed	OFF	_
REQ SW-BD/TR	When trunk request switch is pressed	ON	_
DUCH CW	When engine switch (push switch) is not pressed	OFF	P
PUSH SW	When engine switch (push switch) is pressed	ON	_
ON DIV 5/D	Ignition switch OFF or ACC	OFF	_
IGN RLY -F/B	Ignition switch ON	ON	_
	Ignition switch OFF	OFF	_
ACC RLY -F/B	Ignition switch ACC or ON	ON	_

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Monitor Item	Condition	Value/Status
CLUTCH SW	When the clutch pedal is not depressed	OFF
CLOTCITSW	When the clutch pedal is depressed	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
DRAKE SW I	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
CET DN/N CW/	When selector lever is in any position other than P or N	OFF
SFI PIN/IN SVV	When selector lever is in P or N position	ON
S/L LOCK	Electronic steering column lock LOCK status	OFF ON ON OFF OFF ON ON OFF ON OFF ON ON OFF ON OFF ON ON ON ON ON ON ON OFF ON
3/L -LOUR	Electronic steering column lock UNLOCK status	ON
O/L LINILOOK	Electronic steering column lock UNLOCK status	OFF
S/L -UNLOCK	Electronic steering column lock LOCK status	ON
C/I DELAY E/D	Ignition switch OFF or ACC	OFF
5/L RELAY-F/B	Ignition switch ON	ON
LINIUK OEN DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
DUOLLOW IDDM	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
CET DN IDDM	When selector lever is in any position other than P or N	OFF
SELEN -IPDM	When selector lever is in P or N position	ON
SET P -MET	When selector lever is in any position other than P	OFF
SFIP-MEI	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
	When selector lever is in N position	ON
	Engine stopped	STOP
ENOINE OTATE	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
0// 1 00// IDDM	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON
	Electronic steering column lock UNLOCK status	OFF
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON
0# DEL AV DE0	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Monitor Item	Condition	Value/Status	Λ
	Passenger door LOCK status	LOCK	А
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door UNLOCK status	UNLK	В
ID OK FLAG	Ignition switch ACC or ON	RESET	
ID OK FLAG	Ignition switch OFF	SET	
PRMT ENG STAT	When the engine start is prohibited	RESET	С
PRIVIT ENG STAT	When the engine start is permitted	SET	
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF	D
RET SW -SLOT	When Intelligent Key is inserted into key slot	ON	
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire	Е
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire	F
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	G
	When ID of front LH tire transmitter is registered	DONE	
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET	Н
ID DECOT ED4	When ID of front RH tire transmitter is registered	DONE	
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET	
ID DECOT DD4	When ID of rear RH tire transmitter is registered	DONE	I
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET	
ID DECOT DI 4	When ID of rear LH tire transmitter is registered	DONE	J
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET	
	Tire pressure indicator OFF	OFF	D).4
WARNING LAMP	Tire pressure indicator ON	ON	PW

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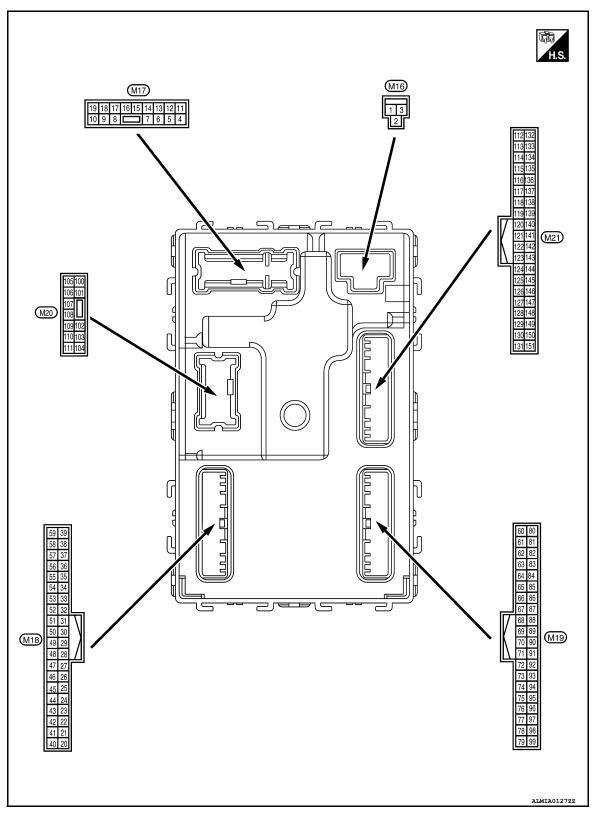
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Terminal Layout



Physical Values

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	1	Battery voltage
4 0	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Giouna	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	Cround	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	(Y) Ground LOCK	Output	T TOTIC GOOT TATE	Other than UNLOCK (actuator is not activated)	0V	
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)	Giouna	Step lattip	Output	эсер іапір	OFF	Battery voltage
8	8 0 1 1 1 1	All doors LOCK	Output	Output All doors –	LOCK (actuator is activated)	Battery voltage
(V) Ground	All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	0V	
9	9	Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Tront door Err	Other than UNLOCK (actuator is not activated)	0V
10 ¹	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Giouna	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON	1	0V
					OFF	0V
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0V
14 ⁸ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Oround	ACC indicator lamp	Output	ignition switch	ACC	OV
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	OV
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)	C. Garia	- Files. Solitor Signal	put	ON	When outside of the vehi- cle is dark	Close to 0V
22 ²	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	ov
(R/Y)	Cround	switch	mpat	switch	ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input			Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
(O/L)	Cround	Stop lamp switch 2	прис	Otop ramp switch	ON (brake pedal is de- pressed)	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					UNLOCK status	0V
29		IK. slate ".	1	When Intelligent K	ley is inserted into key slot	Battery voltage
(Y)	Ground	Key slot switch	Input	When Intelligent K	ey is not inserted into key slot	0V
30	0	A00 for all and a	li 1	Indian	OFF	0
(V/Y)	Ground	ACC feedback signal	Input	Ignition switch	ACC or ON	Battery voltage
31	Craund	Rear window defog-	lnn::4	Rear window de-	OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes) ON (when front door RH	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					opens)	
33 (SB)	Ground	Compressor ON sig- nal	Input	A/C switch	OFF	9V - 12V
(30)					ON	0V
34 ³	Ground	Front door lock as- sembly LH (key cylin-	Input	Front door lock assembly LH (key	OFF (neutral)	Battery voltage
(L/R)		der switch) (unlock)	·	cylinder switch)	ON (unlock)	0V
36 ³	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage
(GR)	Ciouna	200K OWNOT Signal	mpat	switch	Unlock	0V
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
					ON	0V
38		Poor window defec		Poor window do	OFF	Battery voltage
(GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	ON	ov
39 ³ (GR/	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery voltage
R)				CANTON	Lock	0V

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
40 ⁴ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OFI	F or ACC	0V
41	0	Engine switch (push	0	Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V
(R)		-	•	lamp	OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V
(V/W)	Cround	power supply output	Output	igintion switch	ACC or ON	5.0V
47	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state	(V) 6 4 2 0 *** 0.2s
(G/O)					When receiving the signal from the transmitter	(V) 6 4 2 0
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position Except P and N positions	12.0V 0V
		-			ON ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB
					OFF	Battery voltage
						, -5-

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	(-)	Signal name	Input/ Output		Condition	(Approx.)
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND Turn signal switch RH	(V) 15 10 2 ms JPMIA0031GB
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	10.7V 0V (V) 15 10 2 ms JPMIA0032GB
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0V (V) 15 10 5 0 2 ms JPMIA0033GB 10.7V
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Front wiper switch INT Front wiper switch LO Lighting switch AUTO	(V) 15 10 5 0 2 ms JPMIA0034GB
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Front fog lamp switch ON Lighting switch 2ND Lighting switch flash-to- pass Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0035GB 10.7V
55 (BR/ W)	Ground	Front blower monitor	Input	Front blower mo-	ON OFF	Battery voltage 0V

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description					
	e color)		Input/		Condition	Value	
(+)	(-)	Signal name	Output			(Approx.)	
56 ³	Ground	Front door lock as- sembly LH (key cylin-	Input	Front door lock	OFF (neutral)	Battery voltage	
(L/B)	Giouna	der switch) (lock)	input	assembly LH (key cylinder switch)	ON (lock)	0V	
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	Battery voltage	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB	
					ON (front door LH OPEN)	0V	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)	Ground	ger relay	Output	fogger	Not activated	0V	
60		Front console anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S S S S S S S S S	
(B/R)	Ground	na 2 (-)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
62	0	Front outside handle	0.4.4	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/Y)	Ground	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s	
63 (LG) Ground	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	(V) 15 10 5 0 1 s JMKIA0062GB	
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
64 (V)	Ground	Front outside handle LH antenna (-)		When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1	
	Giouna		Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
65	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(P)		LH antenna (+)		switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 10 5 0 1 ms
(L/O)				When operating ei	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Terminal No.		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4V	
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
						1.3V	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	

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< ECU DIAGNOSIS INFORMATION >

Condition Cond		inal No.	Description				Value
All switch OFF (Wiper intermittent dial 4) Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch 2ND (Wiper intermittent dial 4) Anny of the conditions below with all switch OFF (Wiper intermittent dial 4) Anny of the conditions below with all switch OFF (Wiper intermittent dial 1) Wiper intermittent dial 1 (Wiper intermittent dial 2) Wiper intermittent dial 3 Anny of the conditions below with all switch OFF (Wiper intermittent dial 1) Wiper intermittent dial 1 (Wiper intermittent dial 2) Wiper intermittent dial 3 Anny of the conditions below with all switch OFF (Wiper intermittent dial 1) Wiper intermittent dial 3 Anny of the conditions below with all switch OFF (Wiper intermittent dial 4) Wiper intermittent dial 3 Anny of the conditions below with all switch OFF (Wiper intermittent dial 4) Wiper intermittent dial 4) Pressed OV Not pressed Battery voltage Anny of the conditions below with all switch OFF (Wiper intermittent dial 4) Output To OFF OV Anny of the conditions below with all switch OFF (Wiper intermittent dial 4) Output (Viper intermittent dia			Signal name			Condition	Value (Approx.)
Tombination switch (RV/G) Ground Combination switch Input Combination switch Input Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch 1.3V Lighting switch 2ND (Wiper intermittent dial 4) Lighting switch 2ND							15 10 5 0 2 ms
Lighting switch 2ND (Wiper intermittent dial 4) Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 2 Wiper intermittent dial 3 Pressed Not pressed Round (P) Ground CAN-L Input/ Output Faground CAN-H Input/ Output OFF OFF OFF OFF OFF OFF OV PREAD091588 Battery voltage OV SMEAD091588 SMEAD091588 DISTRICTION 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	76 (R/G)	Ground		Input			10 5 0 2 ms
with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 1 Wiper intermittent dial 1 Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 1 Wiper intermittent dial 1 Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 2	(NG)					Lighting switch 2ND (Wiper intermittent dial 4)	15 10 5 0 2 ms
Ground Switch S						with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	10 5 0 2 ms
(P) Ground CAN-L Output — — — — — — — — — — — — — — — — — — —		Ground		Input			
(L) Ground CAN-H Output OFF OV Regional CAN-H Output Figure 15 Temeson 15 Te		Ground	CAN-L			_	_
80 (R/L) Ground Key slot illumination Output Key slot illumination Blinking		Ground	CAN-H	Input/ Output		_	_
80 (R/L) Ground Key slot illumination Output Key slot illumination Blinking						OFF	0V
		Ground	Key slot illumination	Output		Blinking	15 10 5 0 1 s
ON Battery voltage						ON	

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage 0V
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V Battery voltage
84 ⁵ (Y/R)	Ground	CVT shift selector	Output			Battery voltage
85 (L/O)	Ground	Electronic steering column lock condition No. 1	Input	Electronic steer-ing column lock	Lock status Unlock status	0V Battery voltage
86 (G/R)	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status Unlock status	Battery voltage
87 ⁵	Ground	No. 2 Selector lever P position switch	Input	Selector lever	P position	0V
(G/B)		tion switch			Any position other than P ON (pressed)	Battery voltage 0V
88 (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB 1.0V
					ON (pressed)	0V
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB 1.0V
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0V Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94 (G/Y)	Ground	Electronic steering column lock power supply	Output	Ignition switch	OFF or ACC	Battery voltage 0V

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
	· · ·		•		All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	
96	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0038GB 1.3V	
(P/B)	INPUT 4	INPUT 4			switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V		

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	inal No.	Description				Value				
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)				
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V				
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V				
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND (V) 15 10 5 0 2 ms JEMIAO 1.3V	10 5 0 2 ms				
		Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V							
			Front wiper switch HI					Fron	Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V
					Pressed	0 V				
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB				

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

	inal No.	Description				Value	Δ
(Wire color) (+) (-)		Signal name Input		Condition		(Approx.)	
	Ground				LOCK status	Battery voltage	Е
99 (L/Y)		Electronic steering column lock unit communication	Input/ Output		LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB	C
					For 15 seconds after UN- LOCK	Battery voltage	Е
					15 seconds or later after UNLOCK	ov	_
103	0	d Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	F
(V)	Ground				Close (trunk lid opener actuator is not activated)	0V	
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
(V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	OFF	Battery voltage	ŀ
		Trunk room antenna		Quanta Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1	
114 (B)	Ground	1 (-)	Output	OFF			P'
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)
115	Ground	Trunk room antenna 1 (+)	Quitout	Output Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(W)			Cutput		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
118	Ground	Rear bumper antenna (-) Output When the trunk lid request switch is operated with ignition switch OFF When Intelligent Key is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB		
(L/O)	Ciodila			ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
119 (BP/	Ground	ound Rear bumper anten- na (+) Output	Quitout	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(BR/ W)			is operated with ignition switch OFF When Intelligent Key is a	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
127		Ignition relay (IPDM			OFF or ACC	Battery voltage
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (trunk is open)	0V
				Ignition switch	When the clutch pedal is depressed	Battery voltage
		Starter motor relay control		OFF (M/T vehi- cle)	When the clutch pedal is not depressed	0V
132 (R)	Ground		^y Output	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	OV
					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 10 ms Jemia0016GB 1.0V
144	Ground	Request switch buzz-	Output	Request switch	Sounding	0V
(GR)	Giound	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	OV
(L/R)	Cround	switch	mput	switch	Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door RH opens)	0V

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

	inal No.	Description				Value	
(Wire color)		Signal name	Input/ Output	Condition		(Approx.)	
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes) ON (when rear door LH	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB	
					ON (when rear door LH opens)	0V	

- 1: Sedan only
- 2: M/T only
- 3: With LH front window anti-pinch
- 4: With LH and RH front window anti-pinch.
- 5: CVT only
- 6: With auto lights
- 7: With low tire pressure warning system
- 8: Coupe only

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit electronic steering column lock	5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Display contents of CONSULT	Fail-safe	Cancellation
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes

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< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

Display contents of CONSULT	Fail-safe	Cancellation
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power supply output 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 • 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 • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When BCM transmits the LOCK request signal to the steering lock unit and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No 1 signal: LOCK (0V) • Steering condition No 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000006919947

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	Α.
	B2013: ID DISCORD BCM-S/L	A
	B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY	
	B2555: STOP LAMP	В
	B2556: PUSH-BTN IGN SW	D
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY B2660: STARTER C	
	B2601: SHIFT POSITION B2602: SHIFT POSITION	С
	B2603: SHIFT POSITION B2603: SHIFT POSI STATUS	
	• B2604: PNP SW	
	• B2605: PNP SW	D
	B2606: S/L RELAY B2607: O/L RELAY	
	B2607: S/L RELAY B2608: STARTER RELAY	
	B2609: S/L STATUS	E
	B260A: IGNITION RELAY	
	B260B: STEERING LOCK UNIT	
4	B260C: STEERING LOCK UNIT B260D: STEERING UNIT B260D: STEERING UNIT B260D: STEERING UNIT B260	F
	B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST	
	B2611: ACC RELAY	
	• B2612: S/L STATUS	G
	B2614: ACC RELAY CIRC	
	B2615: BLOWER RELAY CIRC B2616: ICAN PELAY CIRC	
	B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC	H
	• B2618: BCM	
	• B2619: BCM	
	B261A: PUSH-BTN IGN SW	1
	B261E: VEHICLE TYPE B26E1: ENG STATE NO RECIV	I
	B26E8: CLUTCH SW	
	B26E9: S/L STATUS	J
	B26EA: KEY REGISTRATION	J
	C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG	
	C1704: LOW PRESSURE FL	PV
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL C1709: INO DATALE!	L
	C1708: [NO DATA] FL C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	C1711: [NO DATA] RL	N
	C1712: [CHECKSUM ERR] FL C1711: [CHECKSUM ERR] FR	
	C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR	
	C1715: [CHECKSUM ERR] RL	
5	C1716: [PRESSDATA ERR] FL	1
	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 C4734: [RATT VOLT LOVALE]	F
	C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] FR Transport C1726: [BATT VOLT LOW] FR	
	C1727: [BATT VOLT LOW] RL	
	C1734: CONTROL UNIT	
		-
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

DTC Index

NOTE:

Details of time display

- 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-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-36 (Coupe), SEC-250 (Sedan)
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-37 (Coupe), SEC-251 (Sedan)
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe), SEC-281 (Sedan)
B2191: DIFFERENCE OF KEY	×	_	_	SEC-69 (Coupe), SEC-285 (Sedan)
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-70 (Coupe), SEC-286 (Sedan)
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-71 (Coupe), SEC-287 (Sedan)
B2195: ANTI-SCANNING	_	_	_	<u>SEC-72</u>
B2553: IGNITION RELAY	_	_	_	PCS-59
B2555: STOP LAMP	_	_	_	SEC-73 (Coupe), SEC-289 (Sedan)
B2556: PUSH-BTN IGN SW	_	×	_	SEC-78 (Coupe), SEC-294 (Sedan)
B2557: VEHICLE SPEED	×	×	_	SEC-80 (Coupe), SEC-296 (Sedan)
B2560: STARTER CONT RELAY	×	×	_	SEC-81 (Coupe), SEC-297 (Sedan)
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-82 (Coupe), SEC-298 (Sedan)
B2602: SHIFT POSITION	×	×	_	SEC-86 (Coupe), SEC-302 (Sedan)
B2603: SHIFT POSI STATUS	×	×	_	SEC-89 (Coupe), SEC-305 (Sedan)
B2604: PNP SW	×	×	_	SEC-92 (Coupe), SEC-308 (Sedan)
B2605: PNP SW	×	×	_	SEC-94 (Coupe), SEC-310 (Sedan)
B2606: S/L RELAY	×	×	_	SEC-96 (Coupe), SEC-312 (Sedan)

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
32607: S/L RELAY	×	×	_	SEC-97 (Coupe), SEC-313 (Sedan)
32608: STARTER RELAY	×	×	_	SEC-99 (Coupe), SEC-315 (Sedan)
32609: S/L STATUS	×	×	_	<u>SEC-101</u> (Coupe), <u>SEC-317</u> (Sedan)
3260A: IGNITION RELAY	×	×	_	PCS-61
3260B: STEERING LOCK UNIT	_	×	_	SEC-106 (Coupe), SEC-322 (Sedan)
3260C: STEERING LOCK UNIT	_	×	_	SEC-107 (Coupe), SEC-323 (Sedan)
3260D: STEERING LOCK UNIT	_	×	_	SEC-108 (Coupe), SEC-324 (Sedan)
3260F: ENG STATE SIG LOST	×	×	_	SEC-109 (Coupe), SEC-325 (Sedan)
32611: ACC RELAY		_	_	PCS-62
32612: S/L STATUS	×	×	_	SEC-110 (Coupe), SEC-331 (Sedan)
32614: ACC RELAY CIRC	_	×	_	PCS-64
32615: BLOWER RELAY CIRC	_	×	_	PCS-67
32616: IGN RELAY CIRC	_	×	_	PCS-70
2617: STARTER RELAY CIRC	×	×	_	SEC-115 (Coupe), SEC-336 (Sedan)
32618: BCM	×	×	_	PCS-73
2619: BCM	×	×	_	SEC-117 (Coupe), SEC-338 (Sedan)
3261A: PUSH-BTN IGN SW	_	×	_	SEC-118 (Coupe), SEC-339 (Sedan)
3261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-121
32622: INSIDE ANTENNA	_	_	_	DLK-279
32623: INSIDE ANTENNA		_		DLK-282
326E1: ENG STATE NO RES	×	×		SEC-326
326E8: CLUTCH SW	×	×	_	<u>SEC-123</u>
326E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	<u>SEC-125</u>
826EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)		<u>SEC-126</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-8</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-8</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-8</u>
21707: LOW PRESSURE RL	_	_	×	<u>WT-8</u>
1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>

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< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-18</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-19</u>

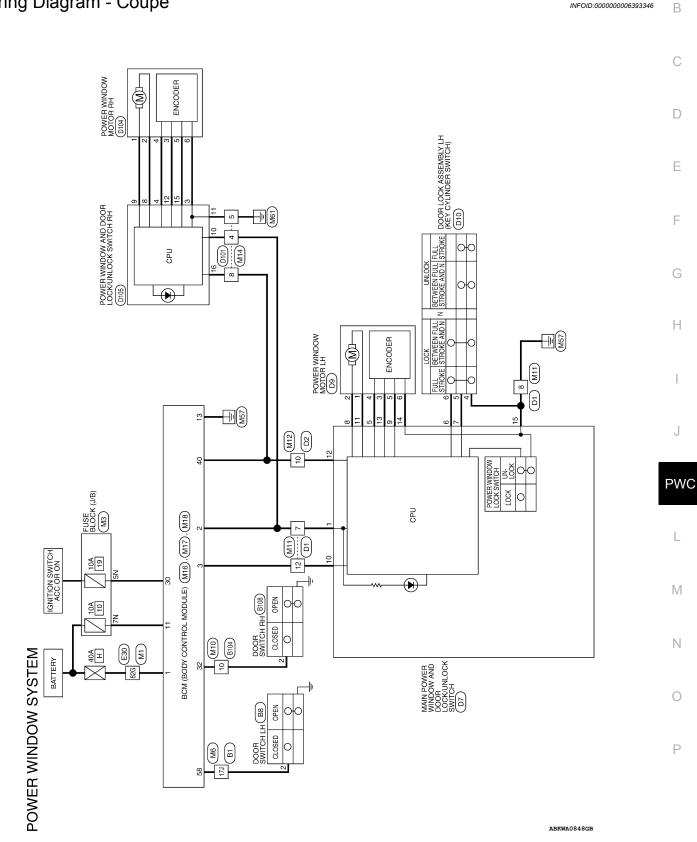
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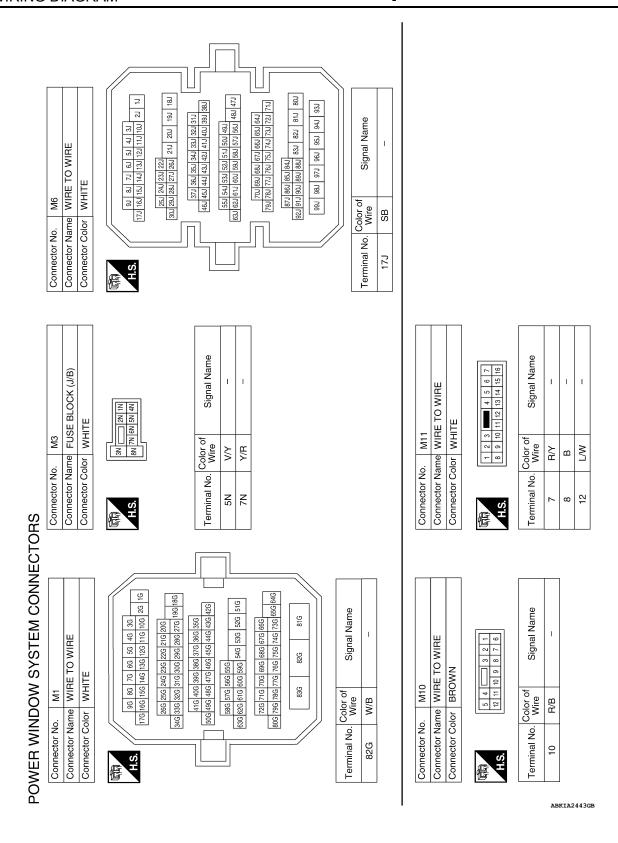
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WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram - Coupe





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1 (BODY CONTRC	MODÙLE)	CK		2 2	Signal Name	BAT POWER F/L	P/W POWER SUPPLY PERM	POWER WINDOW POWER SUPPLY (BAP)
_		or BLACK	<u>נ</u>		Color of Wire	W/B	R/Y	ΓW
Connector Name		Connector Color	 	H.S.	Terminal No.	1	5	က

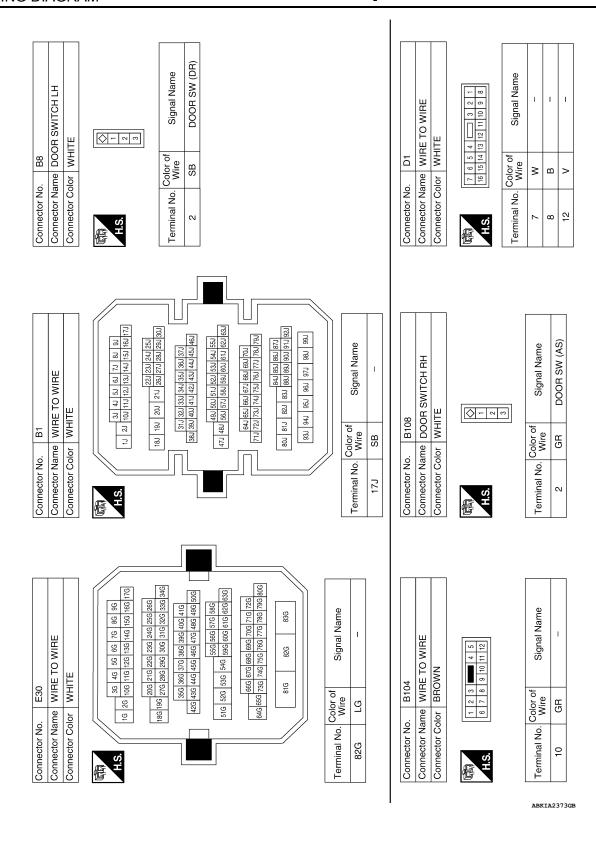
Connect	Connect	(Connec	4	H.S.		Termina	-	c	V	(
4	RE TO WIRE	#TE		e 	7 8 9 10		Signal Name	I	ı	-	
M14	me WIF	or WH		\longrightarrow	2 6		Solor of Wire	R/Υ	В	Y/G	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE		E	H.S.		Terminal No. Wire	4	5	8	
	E TO WIRE	11			4 5 6 7 8 12 13 14 15 16		Signal Name	ı			
M12	e WIR	MHI.			1 2 3 9 10 11		color of Wire	Y/G			
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE		僵	H.S.	_	Terminal No. Wire	-			

				21 20					
8	BCM (BODY CONTROL MODULE)	GREEN		38 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40	Signal Name	ACC F/B	AS DOOR SW	PW K-LINE	DR DOOR SW
. M18	me BCI			34 33 32 54 53 52	Color of Wire	٨/	B/B	Y/G	SB
Connector No.	Connector Name	Connector Color	H.S.	39 38 37 36 35 34 33 32 31 56 55 54 53 52 51	Terminal No. Wire	30	32	40	28

M17 BCM (BODY CONTROL MODULE) WHITE	GND1
	B
Connector No. M17	13

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POWER WINDOW SYSTEM

[LH&RH FRONT ANTI-PINCH-COUPE]

Signal Name

Color of Wire

Terminal No.

Signal Name

Color of Wire

Terminal No.

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DOOR_KEY/C_UNLOCK_SW

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DOOR_KEY/C_ LOCK_SW

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Signal Name	UP	ENCODER SIG1	IGN	DOWN	COM	ENCODER SIG2	ENCODER GND	GND
Color of Wire	œ	SB	>	LG	BR	Μ	g	В
Terminal No.	80	6	10	11	12	13	14	15

Connector No.	D7
Connector Name	Connector Name MAIN POWER WINDOW SWITCH SW
Connector Color WHITE	WHITE





Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE	D2 WIRE TO WIRE WHITE
H.S.	

6 5 4 3 2 1	16 15 14 13 12 11 10 9	Signal Name	1
8 7	16 15 1	Color of Wire	BB
SH		Terminal No.	10

ector No.	D101
nector Name	ector Name WIRE TO WIRE
nector Color WHITE	WHITE

Connector Nam	Connector Colc	

Name DOOR LOCK ASSEMBL'	GRAY	2 3 4 5 6
Name	Color	

D10

Connector No. Connector Name	Connector Color	E
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Connector No.	60
Sonnector Name	Connector Name POWER WINDOW MOTOR
Connector Color WHITE	WHITE





Signal Name	1	1	1	1	_	I
Color of Wire	ГG	В	M	GR	SB	9
Terminal No. Wire	-	2	3	4	2	9

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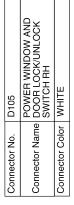
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ENCODER SIG1

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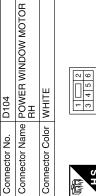
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Signal Name	ı	-	1	ı	I	ı
Color of Wire	LG	٦	Э	BR	٨	M
Terminal No. Wire	-	2	3	4	5	9

ABKIA2375GB

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH [LH&RH FRONT ANTI-PINCH-COUPE]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY **SWITCH**

Diagnosis Procedure

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-110, "BCM: 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-111, "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-131, "POWER WINDOW MAIN SWITCH: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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PWC-175 Revision: June 2012 2011 Altima GCC

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:0000000006393348

1. CHECK POWER WINDOW MOTOR LH

Check power window motor LH.

Refer to PWC-116, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE	
Diagnosis Procedure	
1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH	В
Check power window and door lock/unlock switch RH. Refer to PWC-113, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Component Fundamental Check".	ction
Is the inspection result normal?	
YES >> GO TO 2 NO >> Repair or replace the malfunctioning parts.	D
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-132, "PASSENGER SIDE: Component Function Check".	E
Is the inspection result normal? YES >> GO TO 3 NO >> Repair or replace the malfunctioning parts. 3. CHECK POWER WINDOW MOTOR RH CIRCUIT	F
Check power window motor RH circuit. Refer to PWC-118, "PASSENGER SIDE: Component Function Check".	G
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> Repair or replace the malfunctioning parts.	Н
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Revision: June 2012 PWC-177 2011 Altima GCC

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:0000000006393350

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-103, "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-120, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (PASSENGER SIDE) [LH&RH FRONT ANTI-PINCH-COUPE]

< SYMPTOM DIAGNOSIS >

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

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Diagnosis Procedure

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-103, "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-122, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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PWC-179 Revision: June 2012 2011 Altima GCC

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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

Diagnosis Procedure

INFOID:0000000006393352

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-103</u>, "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-120, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY (PASSENGER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

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

Diagnosis Procedure

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1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-103</u>, "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-122, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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Revision: June 2012 PWC-181 2011 Altima GCC

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:0000000006393354

1. CHECK DOOR SWITCH

Check door switch.

Refer to PWC-126, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

POWER WINDOW DOES NOT OPERATE BY KEY CYLINDER SWITCH [LH&RH FRONT ANTI-PINCH-COUPE]

< SYMPTOM DIAGNOSIS >

POWER WINDOW DOES NOT OPERATE BY KEY CYLINDER SWITCH

Diagnosis Procedure INFOID:0000000006393355

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-103, "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-128, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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PWC-183 Revision: June 2012 2011 Altima GCC

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006393356

1. CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function.

Refer to DLK-22, "INTELLIGENT KEY: System Description".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace BCM. Refer to <u>BCS-92</u>, "Removal and Installation".

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-COUPE]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Diagnosis Procedure

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

Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and Installation".

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PRECAUTION

PRECAUTIONS

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

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

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000006921776

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

[LH&RH FRONT ANTI-PINCH-COUPE]

- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.
- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty area.
 - Then rub with a soft and dry cloth.
- Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

< PREPARATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000006921781

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-46534) Trim tool set	AWJIA0483ZZ	For removing trim

PRE-INSPECTION FOR DIAGNOSTIC

< PERIODIC MAINTENANCE >

[LH&RH FRONT ANTI-PINCH-COUPE]

PERIODIC MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection INFOID:0000000006393360

BASIC INSPECTION

1.INSPECTION START

- 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

< REMOVAL AND INSTALLATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000006393361

REMOVAL

1. Using a suitable tool, release the pawls, then lift upward the main power window and door lock/unlock switch and finisher as an assembly.

CAUTION:

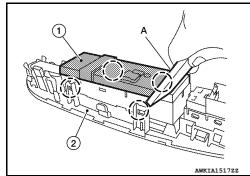
Wrap a cloth around suitable tool to protect components from damage.

- Disconnect the harness connector.
- 3. Remove the main power window and door lock/unlock switch and finisher assembly from the front door finisher.
- 4. Release the four pawls (two on each side) with a suitable tool (A), then separate the main power window and door lock/unlock switch (1) from the switch finisher (2).



CAUTION:

Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Perform initialization procedure after switch is connected. Refer to PWC-103, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

FRONT POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

[LH&RH FRONT ANTI-PINCH-COUPE]

FRONT POWER WINDOW SWITCH

Removal and Installation

REMOVAL

1. Using a suitable tool, release the pawls, then lift upward the power window and door lock/unlock switch RH and finisher (2) as an assembly.

(]):Pawl

CAUTION:

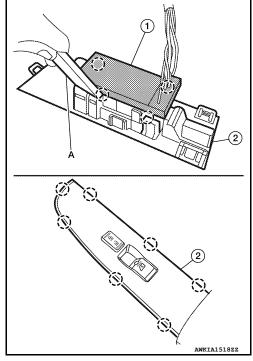
Wrap a cloth around suitable tool to protect components from damage.

- 2. Disconnect the harness connector.
- 3. Remove the power window and door lock/unlock switch RH and finisher (2) assembly from the front door finisher.
- 4. Release the four pawls (two on each side) with a suitable tool (A), then separate the power window and door lock/unlock switch RH (1) from the switch finisher (2).

(_):Pawl

CAUTION:

Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Perform initialization procedure after switch is connected. Refer to PWC-103, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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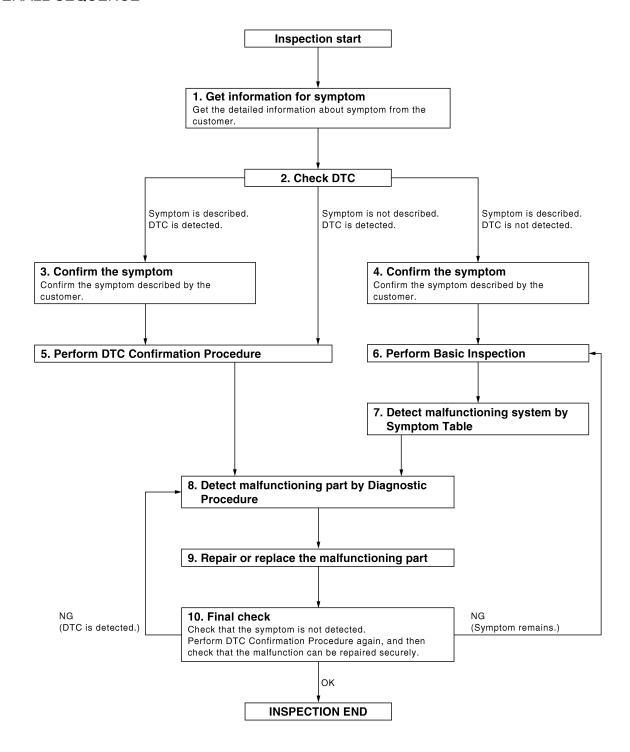
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[LH&RH FRONT 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

$\mathbf{2}$. 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.)
- 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 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 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

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 to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-65, "DTC Inspection Priority Chart"</u> 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-42, "Intermittent Incident".

6. PERFORM BASIC INSPECTION

Perform PWC-192, "Work Flow".

Inspection End>>GO TO 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-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.

<u>Is malfunctioning part detected?</u>

YES >> GO TO 9

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

$oldsymbol{9}.$ REPAIR OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- 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 Α ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: De-В scription INFOID:0000000006393364 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 D Retained power operation ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Spe-Е cial Repair Requirement INFOID:0000000006393365 INITIALIZATION PROCEDURE Disconnect battery minus terminal or power window main switch connector. Reconnect it after a minute or more. Turn ignition switch ON. 2. 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. Н 5. Inspect anti-pinch function. CHECK ANTI-PINCH FUNCTION 1. Fully open the door window. Place a piece of wood near fully closed position. 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-237, "Fail Safe". Perform initial setting when auto-up operation or anti-pinch function does not operate normally. L • Finish initial setting. Otherwise, next operation cannot be done. 1. Auto-up operation 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

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:0000000006393367

INITIALIZATION PROCEDURE

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

PWC-195 Revision: June 2012 2011 Altima GCC **PWC**

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INFOID:0000000006393366

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 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:

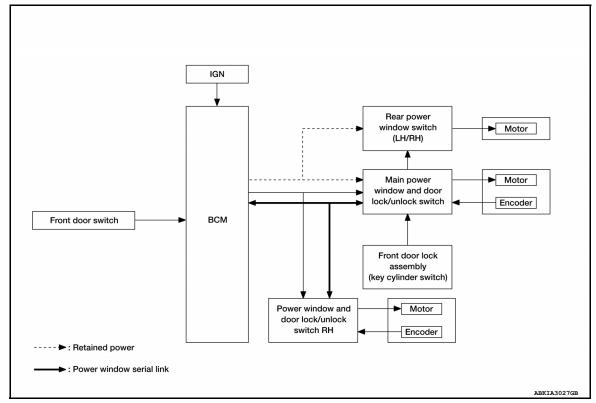
- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to PWC-237, "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.

SYSTEM DESCRIPTION

POWER WINDOW SYSTEM

System Diagram

FRONT WINDOW ANTI-PINCH SYSTEM



System Description

INFOID:0000000006393369

POWER WINDOW MAIN 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
Key cylinder switch	LOCK/UNLOCK signal (more than 1 second over)	1	
Encoder	Encoder pulse signal Front power window motor LH UP/ DOWN signal Power window control		
Main power window and door lock/unlock switch			Front power window motor
Power window and door lock/unlock switch RH	Front power window motor RH UP/ DOWN signal	Power window control	
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

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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

< SYSTEM DESCRIPTION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

 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:

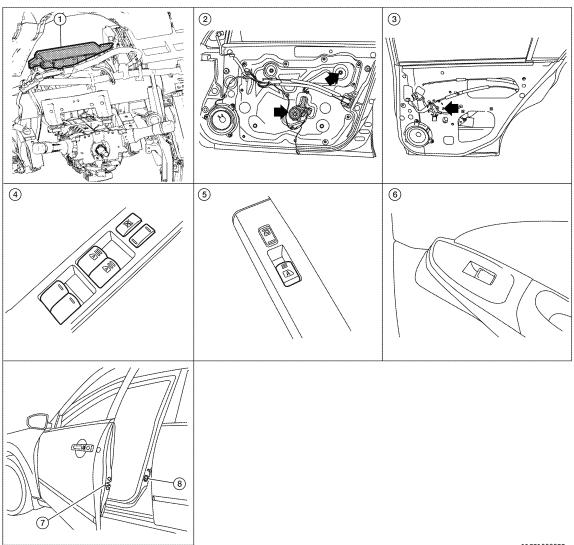
Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUP-PORT". Refer to BCS-23, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

NOTE:

Use CONSULT to change settings.

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

Component Parts Location



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POWER WINDOW SYSTEM

< SYSTEM DESCRIPTION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 1. BCM M16, M17, M18 (view with instrument panel removed)
- Main power window and door lock/ 5. unlock switch D7, D8
- 7. Front door lock assembly LH (key cylinder switch) D10
- 2. Front power window motor LH D9, RH D104
- Power window and door lock/unlock 6. switch RH D105
- B. Front door switch LH B8, RH B108
- 3. Rear power window motor LH D204, RH D304
 - Rear power window switch LH D203, RH D303

Component Description

INFOID:0000000006393371

FRONT WINDOW ANTI-PINCH SYSTEM

Component	Function
BCM	Supplies power supply to power window switch.Controls retained power.
Main power window and door lock/unlock switch	 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	 Controls front power window motor RH. Controls anti-pinch operation of front power window RH.
Rear power window switch	Controls rear power window motors LH and RH.
Front power window motor LH	 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	 Integrates the ENCODER POWER and WINDOW MOTOR. Starts operating with signals from main power window and door lock/unlock switch & power window and door lock/unlock switch RH. Transmits power window motor rotation as a pulse signal to 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)

< SYSTEM DESCRIPTION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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ECU IDENTIFICATION

Displays the BCM part No.

SELF-DIAG RESULT

Refer to PWC-73, "DTC Index".

RETAINED PWR

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

DATA MONITOR

INFOID:0000000006919935

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.

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DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

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Regarding Wiring Diagram information, refer to <u>BCS-70, "Wiring Diagram - Coupe"</u> or <u>BCS-79, "Wiring Diagram - Sedan"</u>.

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	Н
11	battery power supply	10

Is the fuse or fusible link blown?

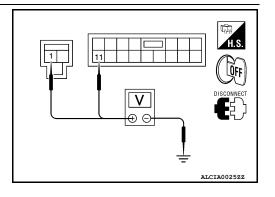
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

$oldsymbol{2}$. CHECK POWER SUPPLY CIRCUIT

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

	Voltage		
(
ВСМ			(Approx.)
Connector	Terminal	Ground	
M16	1	Ground	Battery voltage
M17	11		ballery voltage



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

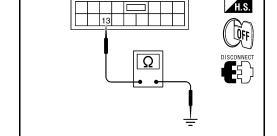
Check continuity between BCM harness connector and ground.

В	BCM		Continuity	
Connector Terminal		Ground	Continuity	
M17	13		Yes	

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



BCM: Special Repair Requirement

 ${f 1}$. REQUIRED WORK WHEN REPLACING BCM

INFOID:0000000006919969

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Initialize control unit. Refer to <u>BCS-3</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

>> Work End.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

· 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

Main Power Window And Door Lock/unlock Switch

${f 1}$. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH FUNCTION

Check power window motor operation with main power window and door lock/unlock switch.

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-203. "POWER WINDOW MAIN SWITCH : Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

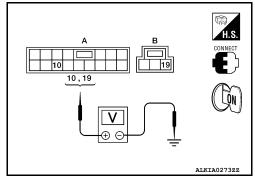
Regarding Wiring Diagram information, refer to <u>PWC-270</u>, "Wiring <u>Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System"</u>.

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

1. CHECK POWER SUPPLY CIRCUIT

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

(+)		Voltage (V)	
Main power window and door lock/unlock switch connector		(-)	(Approx.)
D7 (A)	10	Ground	Battery voltage
D8 (B)	19	Glound	Battery voltage



Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

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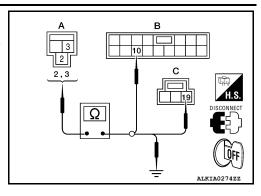
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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM, main power window and door lock/unlock switch, power window and door lock/unlock switch RH, rear power window switch LH and rear power window switch RH.
- 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
WTO (A)	2	D8 (C)	19	165



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

BCM connector	Terminal		Continuity
M16 (A)	3	Ground	No
	2		INO

Is the inspection result normal?

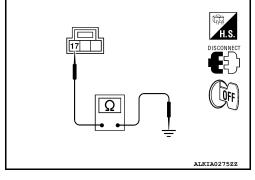
YES >> GO TO 4

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

- 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		Yes



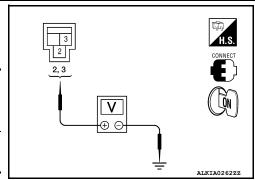
Is the inspection result normal?

- 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
- YES >> Check main power window and door lock/unlock switch output signal (front power window switch LH) GO TO 7
- NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

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

	V V 40		
(+)		(-)	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	
M16	3	Ground	Battery voltage
WHO	2	Giodila	Dattery voltage



Is the measurement value within the specification?

- YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
- NO >> Replace BCM. Refer to <u>BCS-92</u>, "Removal and Installation".
- 5. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (REAR POW-

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

ER 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 connector and ground.

Terminal				
(+)			Window switch	Voltage (V)
Main power window and door lock/unlock switch connector	Terminal	(–)	position (rear LH)	(Approx.)
	1	1 Ground	UP	Battery voltage
D7	'		DOWN	0
Di	3		UP	0
			DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

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.
- Turn ignition switch ON.
- Check voltage between main power window and door lock/unlock switch connector and ground.

Terminal				
(+)	(+)			
Main power win- dow and door lock/unlock switch connector	Terminal	(–)	Window switch position (rear RH)	Voltage (V) (Approx.)
	7	7 Ground	UP	Battery voltage
D7	,		DOWN	0
D1	F		UP	0
	3		DOWN	Battery voltage

Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

7. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL (FRONT 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 connector and ground.

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[LH&RH FRONT ANTI-PINCH-SEDAN]

Terminal				
(+)	(+)		14 6 1 76 1	
Main power win- dow and door lock/unlock switch connector	Terminal	(–)	Window switch position (front LH)	Voltage (V) (Approx.)
	8	UP	Battery voltage	
D7	O	Ground	DOWN	0
D1	11		UP	0
	11		DOWN	Battery voltage

Is the measurement value within the specification?

- YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
- NO >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

POWER WINDOW MAIN SWITCH: Component Inspection

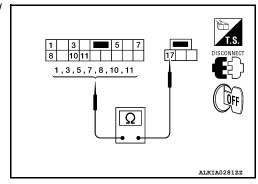
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- 1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
- 1. Check main power window and door lock/unlock switch.

Terr	minal	Main power window and door lock/un- lock switch condition		The state of the s		Continuity
10	1	Rear LH	- UP			
10	7	Rear RH	OF .			
1	3	Rear LH	NEUTRAL			
5	7	Rear RH	NEOTIVAL	Yes		
10	3	Rear LH	DOWN			
10	5	Rear RH				
17	2		-			

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

Tern	ninal	Main power window and door lock/unlock switch condition		The state of the s		Continuity
3		Rear LH	UP			
5		Rear RH	OF .			
1		Rear LH				
3	17	Real LH	NEUTRAL	No		
5	17	Rear RH	NEOTIVE	140		
7		ixeai ixii				
1		Rear LH	DOWN	1		
7		Rear RH	DOWN			

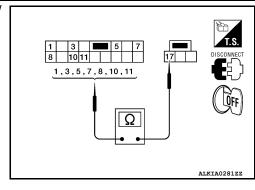


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[LH&RH FRONT ANTI-PINCH-SEDAN]

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

Terr	minal	Main power window and door lock/unlock switch condition		Continuity
3		Rear LH	UP	
5		Rear RH	OI .	
1		Rear LH		
3	17	Near Lit	NEUTRAL	Yes
5	17	Rear RH	NEOTIVE	
7		ixeai ixii		
1		Rear LH	DOWN	
7		Rear 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-97, "Removal and Installation".

POWER WINDOW MAIN SWITCH: Special Repair Requirement

${f 1}$. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure

Refer to PWC-195, "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-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to PWC-195, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

Revision: June 2012

>> Refer to PWC-220, "DRIVER SIDE: Component Function Check". NO

FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH: Description

 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

Power Window And Door Lock/unlock Switch RH

${f 1}$. CHECK FRONT POWER WINDOW MOTOR RH FUNCTION

Check front power window motor RH operation with power window and door lock/unlock switch RH. Is the inspection result normal?

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

PWC-207

NO >> Refer to PWC-207, "FRONT POWER WINDOW SWITCH: Diagnosis Procedure".

FRONT POWER WINDOW SWITCH: Diagnosis Procedure

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[LH&RH FRONT ANTI-PINCH-SEDAN]

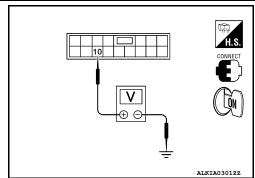
Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

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.

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



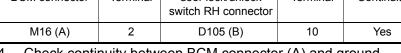
Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- 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



Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M16 (A)	2	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

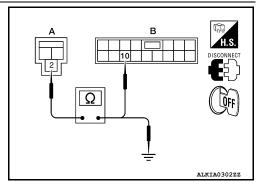
Power window and door lock/unlock switch RH	Terminal	Ground	Continuity
D105	11		Yes

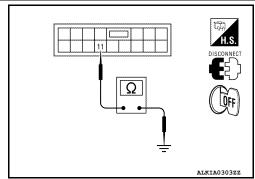
Is the inspection result normal?

>> Check intermittent incident. Refer to GI-42, "Intermittent YES Incident".

NO >> Repair or replace harness.

CHECK BCM OUTPUT SIGNAL



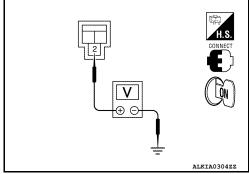


< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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

	V 11 0 0		
(+)		(-)	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	, , , ,
M16	2	Ground	Battery voltage



Is the measurement value within the specification?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> Replace BCM. Refer to BCS-92, "Removal and Installation". NO

FRONT POWER WINDOW SWITCH: Special Repair Requirement

$oldsymbol{1}$. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-195, "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-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to PWC-195, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

>> Refer to PWC-222, "PASSENGER SIDE: Component Function Check". NO

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Description

· BCM supplies power.

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

REAR POWER WINDOW SWITCH: Component Function Check

Rear Power Window Switch

${f 1}$. CHECK REAR POWER WINDOW MOTOR FUNCTION

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

Is the inspection result normal?

YES >> Rear power window switch power supply and ground circuit are OK.

>> Refer to PWC-209, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". NO

REAR POWER WINDOW SWITCH : Diagnosis Procedure

Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

Rear Power Window Switch Power Supply Circuit Check

${f 1}$. CHECK POWER SUPPLY CIRCUIT

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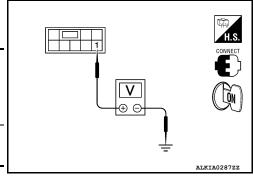
PWC-209 Revision: June 2012 2011 Altima GCC

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Check voltage between rear power window switch connector and ground.

	Terminal				
(+)			Condition	Voltage (V)	
•	ver window connector	Terminal	(–)		(Approx.)
LH	D203	1	Ground	Ignition switch	Battery voltage
RH	D303	.	Ground	ON	battery voltage



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)

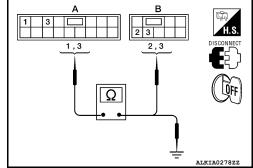
NO >> GO TO 4

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.
- 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
Dr (A)	3	D203 (B)	3	103



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

Main power window and door lock/un- lock switch connector	Terminal		Continuity
D7 (A)	1	Ground	No
Dr (A)	3		INO

Is the inspection result normal?

YES >> GO TO 5

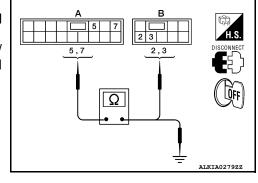
NO >> Repair or replace harness.

$\bf 3.$ 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.
- 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 connec- tor	Terminal	Continuity
D7 (A)	5	D303 (B)	3	Yes
D1 (A)	7	D303 (B)	2	163



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

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Main power window and door lock/unlock switch connector	Terminal	0	Continuity
D7 (A)	5	Ground	No
Dr (A)	7		NO

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

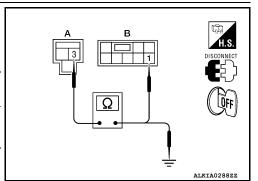
4. CHECK HARNESS CONTINUITY

- 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
WITO (A)	3	RH	D303 (B)	'	162

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 >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-211, "REAR POWER WINDOW SWITCH: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace rear power window switch. Refer to PWC-97, "Removal and Installation".

REAR POWER WINDOW SWITCH: Component Inspection

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Terr	minal	Power window switch condition	Continuity	
1	5	UP		
3	4	OI		
3	4	NEUTRAL	Yes	
5	2	NEOTIVAL	163	
1	4	DOWN		
5	2	DOWN		

2 3 4 5 1 1,2,3,4,5 DISCONNECT Ω ALKIA0289ZZ

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Replace rear power window switch. Refer to PWC-97, "Removal and Installation".

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[LH&RH FRONT ANTI-PINCH-SEDAN]

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Component Function Check

INFOID:0000000006393389

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check front power window motor LH operation 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-212, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID-0000000006393390

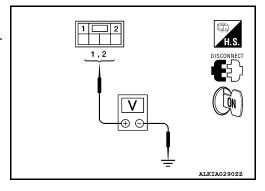
Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

Front Power Window Motor LH Circuit Check

${f 1}.$ 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.

7	Terminal				
(+)			Main power win- dow and door lock/	Voltage (V)	
Power window motor LH con- nector	Terminal	(–)	unlock switch con- dition	(Approx.)	
	2		UP	Battery voltage	
D9	2	2	Ground	DOWN	0
Da	1	Giouna	UP	0	
	1		DOWN	Battery voltage	



Is the measurement value within the specification?

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

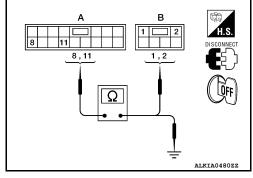
2. CHECK HARNESS CONTINUITY

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch and 2. front power window motor LH.
- 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 win- dow motor LH con- nector	Terminal	Continuity
D7 (A)	8	D9 (B)	2	Yes
DI (A)	11	D9 (B)	1	103



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	Out and	Continuity
D7 (A)	8	Ground	No
DT (A)	11		NO

Is the inspection result normal?

YES >> Refer to PWC-203, "POWER WINDOW MAIN SWITCH: Component Function Check".

NO >> Repair or replace harness.

3. CHECK POWER WINDOW MOTOR

Check front power window motor LH.

Refer to PWC-213, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace power window motor LH. Refer to GW-22, "Removal and Installation". After that, refer to PWC-213, "DRIVER SIDE: Special Repair Requirement".

DRIVER SIDE : Component Inspection

INFOID:0000000006393391

COMPONENT INSPECTION

1. CHECK FRONT POWER WINDOW MOTOR LH

Check motor operation by connecting the battery voltage directly to power window motor.

Terr	minal	Motor condition
(+)	(-)	Wotor Condition
1	2	DOWN
2	1	UP

Is the inspection result normal?

YES >> Front power window motor LH is OK.

> >> Replace front power window motor LH. Refer to GW-22, "Removal and Installation". After that, refer to PWC-213, "DRIVER SIDE: Special Repair Requirement".

DRIVER SIDE : Special Repair Requirement

${f 1}$. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-195, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> GO TO 2

NO

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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to <u>PWC-195</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to PWC-220, "DRIVER SIDE : Component Function Check".

PASSENGER SIDE

PASSENGER SIDE: Description

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

1. CHECK POWER WINDOW MOTOR CIRCUIT

Check power window motor operation 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-214, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

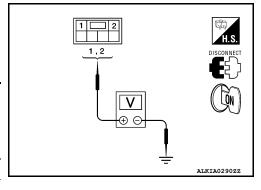
Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

Front Power Window Motor RH Circuit Check

1. CHECK FRONT POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

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



Is the measurement value within the specification?

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

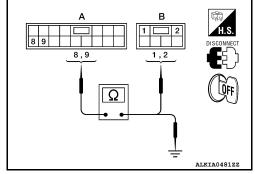
2. CHECK HARNESS CONTINUITY

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- Turn ignition switch OFF.
- Disconnect power window and door lock/unlock switch RH.
- 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	D 104 (D)	1	103	



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)	8		No
	9		

Is the inspection result normal?

YES >> Refer to PWC-207, "FRONT POWER WINDOW SWITCH: Component Function Check".

NO >> Repair or replace harness.

3. CHECK FRONT POWER WINDOW MOTOR RH

Check front power window motor RH.

Refer to PWC-215, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front power window motor RH. Refer to PWC-97, "Removal and Installation". After that, refer to PWC-215, "PASSENGER SIDE: Special Repair Requirement".

PASSENGER SIDE : Component Inspection

INFOID:0000000006393396

COMPONENT INSPECTION

CHECK FRONT POWER WINDOW MOTOR RH

Check motor operation by connecting the battery voltage directly to front power window motor RH.

Terminal		Motor condition	
(+)	(-)	Wotor 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-22, "Removal and Installation". After that, refer to PWC-215, "PASSENGER SIDE: Special Repair Requirement".

PASSENGER SIDE: Special Repair Requirement

$oldsymbol{1}$. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-195, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> GO TO 2

PWC-215 Revision: June 2012 2011 Altima GCC **PWC**

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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to <u>PWC-195</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to PWC-222, "PASSENGER SIDE : Component Function Check".

REAR LH

REAR LH: Description

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

1. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

Check rear power window motor LH operation 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-216, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

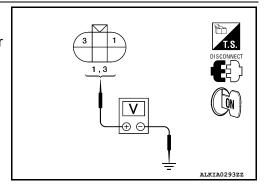
Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

Power Window Motor Circuit Check

1. CHECK REAR POWER WINDOW SWITCH OUTPUT SIGNAL

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

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



Is the measurement value within the specification?

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

2. CHECK HARNESS CONTINUITY

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POWER WINDOW MOTOR

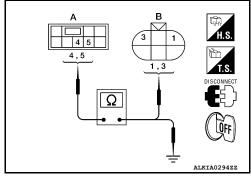
< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- Turn ignition switch OFF.
- Disconnect rear power window switch LH.
- 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	
D203 (A) 4		D204 (B)	3	162	

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



Rear power window switch LH connector	Terminal		Continuity
D203 (A)	5	Ground	No
D203 (A)	4		140

Is the inspection result normal?

YES >> Refer to PWC-209, "REAR POWER WINDOW SWITCH: Component Function Check",

NO >> Repair or replace harness.

${f 3}.$ CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to PWC-217, "REAR LH: Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> Replace rear power window motor LH. Refer to GW-27, "Removal and Installation". NO

REAR LH: Component Inspection

INFOID:0000000006393401

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR LH

Check motor operation by connecting the battery voltage directly to rear power window motor LH.

Term	inal	Motor condition	
(+)	(-)	Motor condition	
3	1	DOWN	
1	3	UP	

<u>ction result normal?</u>

YES >> Rear power window motor LH is OK.

NO >> Replace rear power window motor LH. Refer to GW-27, "Removal and Installation".

REAR RH

REAR RH: Description

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

1. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

Check rear power window motor RH operation with operating main power window and door lock/unlock switch or rear power window switch RH.

Is the inspection result normal?

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PWC-217 Revision: June 2012 2011 Altima GCC

< DTC/CIRCUIT DIAGNOSIS >

YES >> Rear power window motor RH is OK.

NO >> Refer to PWC-218, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

INFOID:0000000006393404

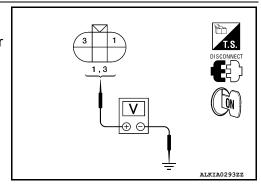
Regarding Wiring Diagram information, refer to <u>PWC-270</u>, "Wiring Diagram - <u>Sedan With Left And Right Front Power Window Anti-Pinch System"</u>.

Rear Power Window Motor RH Circuit Check

1. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

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

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



Is the measurement value within the specification?

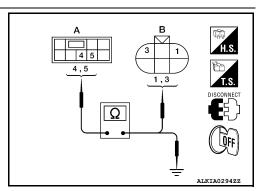
YES >> GO TO 3 NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

- 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
D303 (A)	4	D30 4 (B)	3	103

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



Rear power window switch RH connector	Terminal		Continuity
D303 (A)	5	Ground	No
D000 (A)	4		

Is the inspection result normal?

YES >> Refer to PWC-209, "REAR POWER WINDOW SWITCH: Component Function Check".

NO >> Repair or replace harness.

$3.\,$ CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-219, "REAR RH: Component Inspection".

Is the inspection result normal?

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace rear power window motor RH. Refer to <u>GW-27</u>, "Removal and Installation".

REAR RH: Component Inspection

INFOID:0000000006393405

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

Check motor operation by connecting the battery voltage directly to rear power window motor RH.

Terminal		Motor condition	
(+)	(-)	Wotor 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 <u>GW-27</u>, "Removal and Installation".

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DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000006393406

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:0000000006393407

1. CHECK ENCODER OPERATION

Check 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-220, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006393408

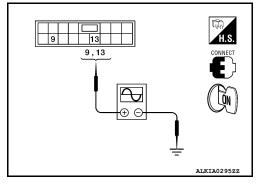
Regarding Wiring Diagram information, refer to <u>PWC-270</u>, "Wiring Diagram - <u>Sedan With Left And Right Front Power Window Anti-Pinch System"</u>.

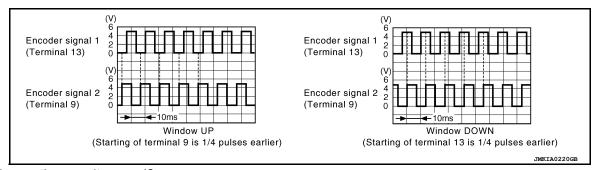
Encoder Circuit Check

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.

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





Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 2

2. CHECK FRONT POWER WINDOW MOTOR LH POWER SUPPLY

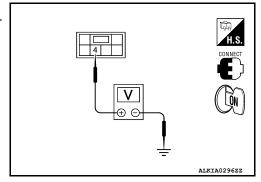
ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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

(+)			Voltage (V)	
Front power win- dow motor LH con- nector	Terminal	(–)	(Approx.)	
D9	4	Ground	10	



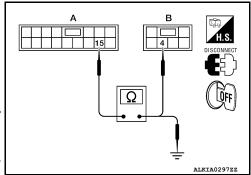
Is the measurement value within the specification?

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?

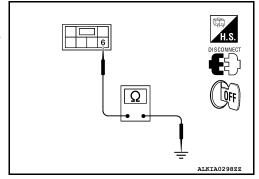
YES >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect front power window motor LH.
- 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

$oldsymbol{5}$. CHECK HARNESS CONTINUITY 2

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[LH&RH FRONT ANTI-PINCH-SEDAN]

- 1. Disconnect main power window and door lock/unlock switch.
- 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 win- dow motor LH con- nector	Terminal	Continuity
D7 (A)	2	D9 (B)	6	Yes

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Is the inspection result normal?

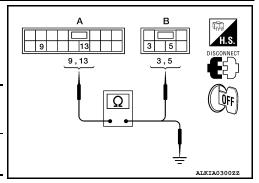
YES >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

NO >> Repair or replace harness.

CHECK HARNESS CONTINUITY 3

- 1. Disconnect main power window and door lock/unlock switch.
- 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
D1 (A)	13	D9 (B)	5	165



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		Continuity
D7 (A)	9	Ground	No
	13		INO

Is the inspection result normal?

YES >> Replace front power window motor LH. Refer to <u>GW-22, "Removal and Installation"</u>. After that, refer to <u>PWC-213, "DRIVER SIDE: Special Repair Requirement"</u>.

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

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

1.CHECK ENCODER OPERATION

Check 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-222, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

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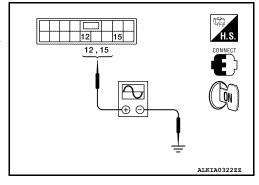
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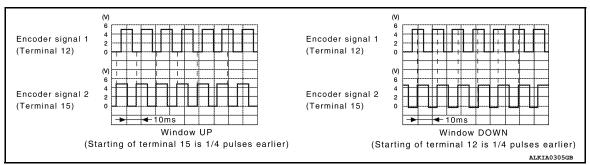
Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

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.

-			
(+)			Signal
Power window and door lock/unlock switch RH connector	Terminal	(–)	(Reference value)
D105	12	Ground	Refer to following
D103	15	Ground	signal





Is the inspection result normal?

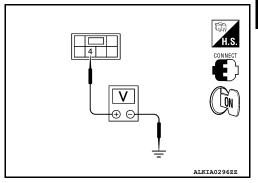
YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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.

(+)			Voltage (V)	
Front power window motor RH connector	Terminal	(–)	(Approx.)	
D105	4	Ground	10	



Is the measurement value within the specification?

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

$3.\,$ CHECK HARNESS CONTINUITY 1

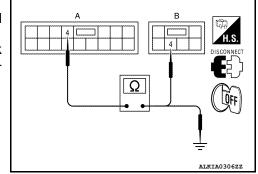
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Revision: June 2012 PWC-223 2011 Altima GCC

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 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?

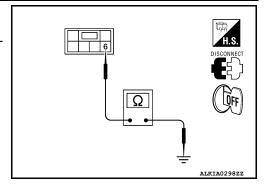
YES >> Replace power window and door lock/unlock switch RH. Refer to PWC-296, "Removal and Installation".

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



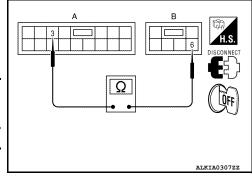
Is the inspection result normal?

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-296, "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 3

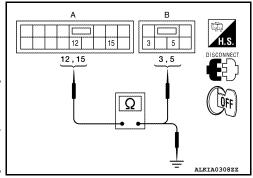
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< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 1. Disconnect power window and door lock/unlock switch RH.
- 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
D103 (A)	15	D 104 (B)	3	163



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		No
D 103 (A)	15		NO

Is the inspection result normal?

YES >> Replace front power window motor RH. Refer to <u>GW-22</u>, "<u>Removal and Installation</u>". After that, refer to <u>PWC-215</u>, "<u>PASSENGER SIDE</u>: <u>Special Repair Requirement</u>".

NO >> Repair or replace harness.

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[LH&RH FRONT ANTI-PINCH-SEDAN]

DOOR SWITCH

Description INFOID:000000006393412

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

Component Function Check

INFOID:0000000006393413

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

Check ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT. Refer to <u>BCS-30</u>, "RETAINED PWR: CONSULT 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-226, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006393414

Regarding Wiring Diagram information, refer to <u>PWC-270</u>, "Wiring <u>Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System"</u>.

1. CHECK HARNESS CONTINUITY

Check voltage between BCM connector and ground.

Terminals				_		
(+)			Door condition		Voltage (V)	
BCM connector	Terminal	(–)			(Approx.)	
	32	Front door		OPEN	0	
M18		32	Ground	RH	CLOSE	Battery voltage
IVITO	58	Giodila	Front door LH		0	
	36				Battery voltage	

Is the measurement value within the specification?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. 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
IVITO	58	LH: B8	2	165

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

4. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M18	32	Ground	No
	58		NO

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.

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

Is the measurement value within the specification?

YES >> GO TO 4

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

4. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-227, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front door switch.

Component Inspection

INFOID:0000000006393415

1. CHECK FRONT DOOR SWITCH

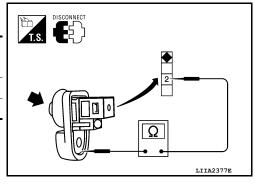
Check front door switches.

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

Is the inspection result normal?

YES >> Front door switch is OK.

NO >> Replace front door switch.



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DOOR KEY CYLINDER SWITCH

Description INFOID:000000006393416

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:0000000006393417

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. Refer to <u>BCS-17</u>, "DOOR LOCK: <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)".

Monitor item	Condition		
KEY CYL LK-SW	Lock	: ON	
RET GTE ER-SW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
RET CIL UN-OW	Neutral / Lock	: OFF	

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Refer to PWC-228, "Diagnosis Procedure".

Diagnosis Procedure

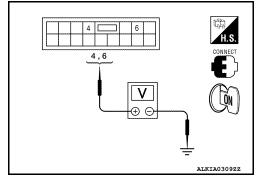
INFOID:0000000006393418

Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

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.

To	erminals				
(+)				Voltage (V) (Approx.)	
Main power window and door lock/unlock switch connector	Terminal	(-)	Key position		
	4	4 Ground	Lock	0	
D7			Neutral/Unlock	5	
D,	6		Unlock	0	
			Neutral/Lock	5	



Is the measurement value within the specification?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-190, "Removal and Installation".

NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

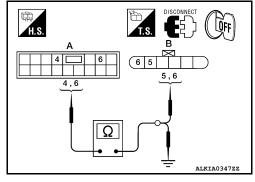
DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 1. Turn ignition switch OFF.
- 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 as- sembly LH (key cylin- der switch) connector	Terminal	Continuity
D7 (A)	4	D10 (B)	6	Yes
Dr (A)	6	Б10 (В)	5	162



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		Continuity
D7 (A)	4	Ground	No
DI (A)	6		140

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		Yes

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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-229, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front door lock assembly LH (door key cylinder switch). After that, refer to PWC-230. "Special Repair Requirement".

Component Inspection

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

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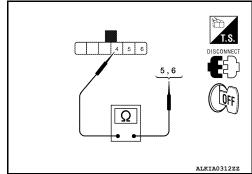
DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Check front door lock assembly LH (key cylinder switch).

Term	inal		
Front door lock assembly LH (key cylinder switch) connector		Key position	Continuity
5	5	Unlock	Yes
5		Neutral/Lock	No
6	4	Lock	Yes
0		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-230, "Special Repair Requirement".

Special Repair Requirement

INFOID:0000000006393420

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>DLK-230</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

POWER WINDOW SERIAL LINK POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Description

INFOID:0000000006393421

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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:0000000006393422

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYS-TEM" with CONSULT. Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Monitor item	Condition	
CDL LOCK SW	LOCK	: ON
GDE LOCK GW	UNLOCK	: OFF
CDL UNLOCK SW	LOCK	: OFF
ODL UNLOCK SW	UNLOCK	: ON

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-231, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

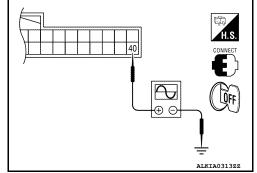
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Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

Power Window Serial Link Check

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 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".



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	Terminal		0: 1
(+)		(-)	Signal (Reference value)
BCM connector	Terminal	(-)	,
M18	40	Ground	(V) 15 10 5 0

Is the inspection result normal?

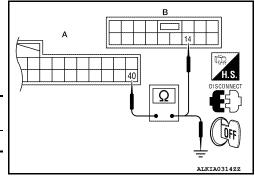
YES >> Power window serial link is OK.

NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 1. Turn ignition switch OFF.
- 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
M18 (A)	40	D7 (B)	14	Yes



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Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	40	Ground	No

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH

FRONT POWER WINDOW SWITCH: Description

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

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

POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Check ("CDL LOCK SW", "CDL UNLOCK SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> Refer to PWC-233, "FRONT POWER WINDOW SWITCH: Diagnosis Procedure".

FRONT POWER WINDOW SWITCH: Diagnosis Procedure

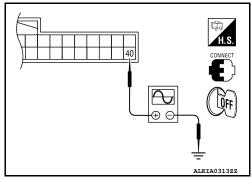
Regarding Wiring Diagram information, refer to PWC-270, "Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System".

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.
- 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".

BCM connector Terminal (-) (Reference value) M18 40 Ground		Terminal	O'const.		
M18 40 Ground (V)	(+)		()	Signal (Reference value)	
M18 40 Ground 0	BCM connector	Terminal	(-)	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	M18	40	Ground	15 10 5 0	



Is the inspection result normal?

YES >> Power window serial link is OK.

NO >> GO TO 2

2. CHECK POWER WINDOW SERIAL LINK CIRCUIT

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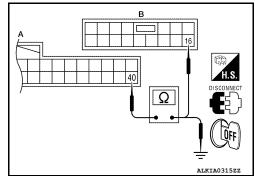
POWER WINDOW SERIAL LINK

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 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



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

BCM connector	Terminal	Ground	Continuity
M18 (A)	40	Ground	No

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and lnstallation".

NO >> Repair or replace harness.

POWER WINDOW LOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

POWER WINDOW LOCK SWITCH

Description INFOID:0000000006393427

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

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-295, "Removal and lnstallation".

NO >> Check condition of harness and connector.

Special Repair Requirement

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-195</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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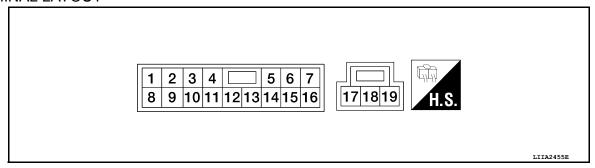
POWER WINDOW MAIN SWITCH

ECU DIAGNOSIS INFORMATION

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

Termin	al No.	Description			Voltage [V]
+	-	Signal name	Input/ Output	Condition	(Approx.)
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/Unlocked → 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/Locked → 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 motor 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 motor operates.	(V) 6 4 2 0 10 ms

POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Termina	al No.	Description			Voltago IVI
+	-	Signal name	Input/ Output	Condition	Voltage [V] (Approx.)
				IGN SW ON	Battery voltage
10 (V)	Ground	RAP signal	Input	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.	(V) 6 4 2 0 10 ms
14 (BR)	Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 10 ms 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

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.

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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 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.

FRONT POWER WINDOW SWITCH

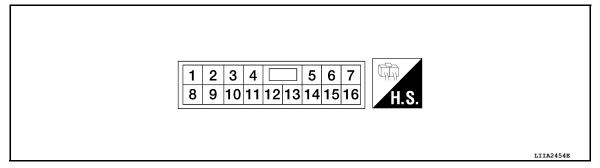
< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

FRONT POWER WINDOW SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

Termi	nal No.	Description			Voltage IVI
+	-	Signal name	Input/ Output	Condition	Voltage [V] (Approx.)
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.	(V) 6 4 2 0 10 ms JMKIA0070GB

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FRONT POWER WINDOW SWITCH

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Т	ermin	al No.	Description			Voltage [V]
+		-	Signal name	Input/ Output	Condition	(Approx.)
15 (G		3	Encoder pulse signal 2	Input	When power window motor operates.	(V) 6 4 2 0 10 ms JMKIA0070GB
16 (R		Ground	Power window serial link	Input/ Output	IGN SW ON or power window timer operating.	(V) 15 10 5 0 10 ms

Fail Safe

FAIL-SAFE CONTROL

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

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 failsafe 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.

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000006919936

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
ED WIDED HI	Other than front wiper switch HI	OFF	С
FR WIPER HI	Front wiper switch HI	r than front wiper switch HI OFF wiper switch HI ON OFF wiper switch LO OFF wiper switch LO OFF washer switch OFF washer switch OFF washer switch OFF off washer switch INT OFF wiper switch INT OFF wiper switch INT OFF wiper switch INT OFF wiper in a dial position OFF wiper in a dial position OFF wiper in a dial position OFF wiper switch RH OFF r than turn signal switch RH OFF r than turn signal switch LH signal switch INT ON r than lighting switch 1ST and 2ND OFF ing switch 1ST or 2ND ON r than lighting switch PND OFF ing switch 2ND OFF ing switch 2ND OFF ing switch 2ND OFF ing switch 2ND OFF ing switch PASS OFF ing switch PASS OFF ing switch AUTO OFF fog lamp switch OFF fog lamp switch ON r door closed OFF RH door opened ON RH door opened ON LH door opened ON r than power door lock switch LOCK OFF LH door opened LH door opened r than power door lock switch LOCK OFF	
ED WIDED LOW	Other than front wiper switch LO	OFF	
FR WIPER LOW	Front wiper switch LO	ON	
THE PROPERTY OF THE PROPERTY O	Front washer switch OFF	OFF	_
FR WASHER SW	Front washer switch ON	ON	Е
ED WIDED INT	Other than front wiper switch INT	OFF	_
FR WIPER INT	Front wiper switch INT	ON	_
ED WIDED STOD	Front wiper is not in STOP position	OFF	_ -
FR WIPER STOP	Front wiper is in STOP position	ON	_
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 6	Wiper intermittent dial position	G
TUDN SIGNAL D	Other than turn signal switch RH	OFF	_
TURN SIGNAL R	Turn signal switch RH	ON	_
TUDNI CIONALI	Other than turn signal switch LH	OFF	Н
TURN SIGNAL L	Turn signal switch LH	ON	_
TAIL LAMD CVV	Other than lighting switch 1ST and 2ND	OFF	
TAIL LAWIP SW	Lighting switch 1ST or 2ND	of front wiper switch HI OFF of switch HI ON of front wiper switch LO OFF or switch LO ON her switch OFF OFF her switch ON ON of front wiper switch INT OFF or switch INT ON or switch INT ON or is not in STOP position OFF or is in STOP position ON or in in signal switch RH OFF of is in signal switch RH OFF of is witch RH OFF of is witch LH OFF of is witch 1ST and 2ND OFF of is witch 1ST and 2ND OFF of is witch 1ST or 2ND ON of is biliphing switch 2ND OFF of is witch 2ND OFF of is witch 2ND ON of is witch PASS ON of is witch PASS	
LILDEAM CW	Other than lighting switch HI	OFF	_
HEAD LAMP SW 2	Lighting switch HI	ON	J
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF	
HEAD LAIMP SW 1	Lighting switch 2ND	ON	PWC
LIEAD LAMB CM/2	Other than lighting switch 2ND	OFF	1 770
HEAD LAIMP SW 2	Lighting switch 2ND	ON	_
DACCING CW	Other than lighting switch PASS	OFF	L
PASSING SW	Lighting switch PASS	ON	_
ALITO LICLIT CW	Other than lighting switch AUTO	OFF	N. //
AUTO LIGHT SW	Lighting switch AUTO	ON	M
ED EOC SW	Front fog lamp switch OFF	OFF	_
FR FUG SW	Front fog lamp switch ON	ON	N
DOOD CW DD	Driver door closed	OFF	_
DOOR SW-DR	Driver door opened	ON	
DOOD CW AC	Passenger door closed	OFF	0
DOOR SW-AS	Passenger door opened	ON	_
DOOD CW DD	Rear RH door closed	OFF	P
DOOK SW-KK	Rear RH door opened	ON	
PASSING SW AUTO LIGHT SW FR FOG SW DOOR SW-DR DOOR SW-AS DOOR SW-RR DOOR SW-RL CDL LOCK SW	Rear LH door closed	OFF	
	Rear LH door opened	ON	
CDL LOCK CW	Other than power door lock switch LOCK	OFF	
CDL LOCK SW	Power door lock switch LOCK	ON	
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Monitor Item	Condition	Value/Status
CDL LINII OCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEA CALLK 6/W	Other than driver door key cylinder LOCK position	OFF
RET CTL LR-SW	Driver door key cylinder LOCK position	ON
KEA CALTINI 6/W	Other than driver door key cylinder UNLOCK position	OFF
RET CTL UN-SW	Driver door key cylinder UNLOCK position	ON
HAZADD CM	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
FAN ON SIG	When AUTO switch or fan switch is pressed	ON
AIR COND SW	When A/C switch is pressed	ON
CDL UNLOCK SW CEY CYL LK-SW CEY CYL UN-SW CEAR DEF SW CAN ON SIG CIR COND SW CR CANCEL SW CR/BD OPEN SW	Trunk lid opener cancel switch OFF	OFF
	Trunk lid opener cancel switch ON	ON
TD/DD ODEN OW	Trunk lid opener switch OFF	OFF
IK/BD OPEN 2W	While the trunk lid opener switch is turned ON	ON
TONIC/LIAT MAITO	Trunk lid closed	OFF
IRINMAI WINTR	Trunk lid opened	ON
DKE LOOK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LUCK	When LOCK button of Intelligent Key is pressed	ON
DKE TIMI OCK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
KKE-IR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DIE DANIC	When PANIC button of Intelligent Key is not pressed	OFF
RNE-PAINIC	When PANIC button of Intelligent Key is pressed	ON
DIZE DAM ODEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
DIVE MODE CHO	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
REAR DEF SW FAN ON SIG AIR COND SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-TR/BD RKE-PANIC RKE-PANIC RKE-P/W OPEN RKE-MODE CHG OPTICAL SENSOR REQ SW-DR REQ SW-AS REQ SW-BD/TR PUSH SW	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OFFICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEO CW DD	When driver door request switch is not pressed	OFF
REQ 5W-DR	When driver door request switch is pressed	ON
DEO SW AS	When passenger door request switch is not pressed	OFF
REQ SW-AS	When TRUNK OPEN button of Intelligent Key is pressed When PANIC button of Intelligent Key is not pressed OFF When PANIC button of Intelligent Key is pressed ON When UNLOCK button of Intelligent Key is not pressed and held When UNLOCK button of Intelligent Key is pressed and held When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously When outside of the vehicle is bright Close to 5 V When outside of the vehicle is dark When outside of the vehicle is dark OFF When driver door request switch is not pressed ON When passenger door request switch is not pressed OFF When passenger door request switch is pressed ON	ON
DEO CW DD/TD	When trunk request switch is not pressed	OFF
KEQ SW-BD/TK	When trunk request switch is pressed	ON
DUCH CW	When engine switch (push switch) is not pressed	OFF
FUON 0VV	When engine switch (push switch) is pressed	ON
ION DIV 5/D	Ignition switch OFF or ACC	OFF
IGN RLY -F/B	Ignition switch ON	ON
400 PD/ 5/2	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

Monitor Item	Condition	Value/Status	Α
CLUTCH SW	When the clutch pedal is not depressed	OFF	
CLUTCH SW	When the clutch pedal is depressed	ON	=
	When the brake pedal is not depressed	ON	E
BRAKE SW 1	When the brake pedal is depressed	OFF	_
DETEKOANOL OW	When selector lever is in P position	OFF	-
DETE/CANCL SW	When selector lever is in any position other than P	ON	
OFT DAVALOUA	When selector lever is in any position other than P or N	OFF	_
SFT PN/N SW	When selector lever is in P or N position	ON	Г
2/1 1 2 2 1 4	Electronic steering column lock LOCK status	OFF	_
S/L -LOCK	Electronic steering column lock UNLOCK status	ON	_
0.11.11.11.00.11	Electronic steering column lock UNLOCK status	OFF	Е
S/L -UNLOCK	Electronic steering column lock LOCK status	ON	=
24. 25. 43. 5.	Ignition switch OFF or ACC	OFF	
S/L RELAY-F/B	Ignition switch ON	ON	- -
	Driver door UNLOCK status	OFF	-
UNLK SEN-DR	Driver door LOCK status	ON	(
	When engine switch (push switch) is not pressed	OFF	-
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON	-
	Ignition switch OFF or ACC	OFF	- -
GN RLY1 F/B	Ignition switch ON	ON	-
	When selector lever is in P position	OFF	-
DETE SW -IPDM	When selector lever is in any position other than P	ON	- '
	When selector lever is in any position other than P or N	OFF	=
SFT PN -IPDM	When selector lever is in P or N position	ON	-
	When selector lever is in any position other than P	OFF	-
SFT P -MET	When selector lever is in P position	ON	P۱
	When selector lever is in any position other than N	OFF	
SFT N -MET	When selector lever is in N position	ON	_
	Engine stopped	STOP	
	While the engine stalls	STALL	=
ENGINE STATE	At engine cranking	CRANK	- p
	Engine running	RUN	_ \
	Electronic steering column lock LOCK status	OFF	-
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON	-
	Electronic steering column lock UNLOCK status	OFF	-
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON	_
	Ignition switch OFF or ACC	OFF	- (
S/L RELAY-REQ	Ignition switch ON	ON	=
/EH SPEED 1	While driving	Equivalent to speedometer reading	- F
/EH SPEED 2	While driving	Equivalent to speedometer reading	- '
	Driver door LOCK status	LOCK	-
OR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY	-
	Driver door UNLOCK status	UNLK	-

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Monitor Item	Condition	Value/Status
	Passenger door LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	LOCK K operation (5 seconds) READY Status UNLK RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited RESET SET Chibited COFF Chical Correction frequency of Intelligent Key Coperation frequency of Intelligent Key Coperation frequency of Intelligent Key Air pressure of front LH tire Air pressure of front RH tire Air pressure of rear RH tire Air pressure of rear LH tire Air pressure of rear LH tire Chibited Consmitter is registered Consmitter is not registered Consmitter is not registered Consmitter is not registered Consmitter is not registered
ID OK FLAG	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
PRIVIT ENG STAT	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KET SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
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 DECOT EL 4	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET
ID DECOT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECOT DD4	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	is permitted in not inserted into key slot inserted into key slot inserted into key slot ON Intelligent Key y when the signal from the transmitter is re- y when the signal from the transmitter is re- y when the signal from the transmitter is re- y when the signal from the transmitter is re- y when the signal from the transmitter is re- y when the signal from the transmitter is re- y when the signal from the transmitter is re- y when the signal from the transmitter is re- e transmitter is registered pone e transmitter is not registered pone e transmitter is not registered pone e transmitter is registered pone
ID DECCT DL 1	When ID of rear LH tire transmitter is registered	DONE
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET
MADNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON

Α

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PWC

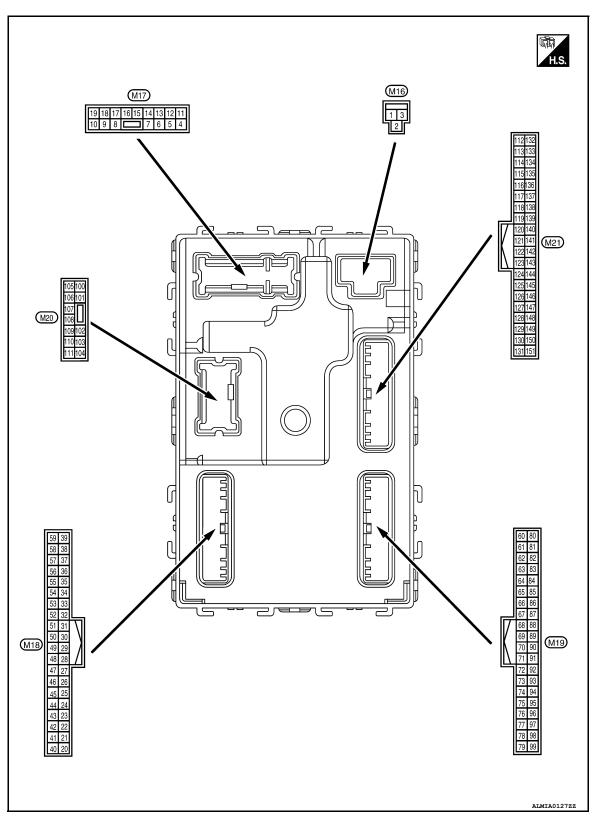
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Ν

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Р

Terminal Layout



Physical Values

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)
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	Craund	Interior room lamp	Outout	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage
5	Cround	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	G/Y) Ground	LOCK	Output	FIOR GOOFKH	Other than UNLOCK (actuator is not activated)	0V
7	Cround	Ston Jama	Output	Ston Jama	ON	OV
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	8 Cround	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Ground	7 III 40010 E0010			Other than LOCK (actuator is not activated)	0V
9	0	Front door LH UN-	Outract	Output Step lamp Coutput All doors Cutput All doors Cutput Front door LH Cutput Rear door RH and rear door LH Cutput Rear door LH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output		Other than UNLOCK (actuator is not activated)	0V
10 ¹	Craund	Rear door RH and rear door LH UN-	Outout	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	Rear door RH and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0V
					OFF	0V
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		0 111		Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					OFF	OV NOTE: When the illumination brightening/dimming level is in the neutral	
14 ⁸ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	position (V) 10 0 2 ms JSNIA0010GB	
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage	
(Y/L)	Ground	ACC indicator lamp	Output	igintion switch	ACC	OV	
					Turn signal switch OFF	0V	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s	
					Turn signal switch OFF	6.5 V	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19		Room lamp timer		Interior room	OFF	Battery voltage	
(Y)	Ground	control	Output	lamp	ON	0V	
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)		_		ON	When outside of the vehi- cle is dark	Close to 0V	
22 ²	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	0V	
(R/Y)	Sidding	switch	put	switch	ON (clutch pedal is de- pressed)	Battery voltage	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V	
(O/L)		· · · · · · · · · · · · · · · · · · ·		, , ,	ON (brake pedal is depressed)	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status UNLOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
29				When Intelligent K	ey is inserted into key slot	Battery voltage
(Y)	Ground	Key slot switch	Input		ey is not inserted into key slot	0V
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF ACC or ON	0 Battery voltage
31 (C)	Ground	Rear window defog-	Input	Rear window de-	OFF	0V
(G)		ger feedback signal		logger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
				When Intelligent Ignition switch Rear window defogger switch Front door RH switch A/C switch Front door lock assembly LH (key cylinder switch)	ON (when front door RH opens)	0V
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF ON	9V - 12V 0V
34 ³ (L/R)	Ground	Front door lock as- sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key	OFF (neutral) ON (unlock)	Battery voltage 0V
36 ³ (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock Unlock	Battery voltage 0V
37 (O)	Ground	Trunk lid opener can- cel switch	Input		CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
					ON	0V
38		Rear window defog-		Rear window de-	OFF	Battery voltage
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V
39 ³	Ground	Unlock switch signal	Input	Door lock/unlock	Unlock	Battery voltage
(GR/ R)	Giound	Officer Switch Signal	Input	switch	Lock	OV

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	А					
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)						
40 ⁴ (Y/G)	Ground	nd Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0	В					
						јрміа0013gb 10.2V	D					
				Ignition switch OF	T	0V						
41	Ground	Engine switch (push	Output	Engine switch (push switch) illu-	ON	5.5V	Е					
(W)	Oround	switch) illumination	Output	mination	OFF	0V						
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V	F					
(R)	0.000		Сигрис	lamp	OFF	Battery voltage						
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V						
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	G					
(V/W)	Ground	power supply output	Output	ignition switch	ACC or ON	5.0V						
47	Ground	Tire pressure receiver signal	Tire pressure receiv-					Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s	H I J
(G/O)			Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PWC					
48	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V	141					
(R/G)	Ground	position signal	iliput	Selector level	Except P and N positions	OV						
					ON	0V	Ν					
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s	O P					
						11.3V						
					OFF	Battery voltage						

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description					
	e color)	Signal name	Input/		Condition	Value (Approx.)	
(+)	(-)		Output		All auditals OFF	0.7	
					All switch OFF	0V	
					Lighting switch 1ST	(V)	
50				Combination	Lighting switch high-beam	15	
(LG/	Ground	Combination switch OUTPUT 5	Output	switch (Wiper intermit-	Lighting switch 2ND	5 0	
B)				tent dial 4)		—	
					Turn signal switch RH	2 ms	
						JPMIA0031GB 10.7V	
					All switch OFF	0V	
					(Wiper intermittent dial 4)	OV	
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	
51		Combination switch	_	Combination	Any of the conditions below	15	
(L/W)	Ground	OUTPUT 1	Output	switch	with all switch OFF	5	
					Wiper intermittent dial 1Wiper intermittent dial 2		
					Wiper intermittent dial 3Wiper intermittent dial 6	2 ms	
					Wiper intermittent dial 7	10.7V	
					All switch OFF	0V	
					(Wiper intermittent dial 4)		
	Ground	Combination switch OUTPUT 2	Output	Combination switch	Front washer switch ON (Wiper intermittent dial 4)	(V)	
52						15	
(G/B)					Any of the conditions below with all switch OFF	5 0	
					Wiper intermittent dial 1	→	
					Wlper intermittent dial 5Wiper intermittent dial 6	2 ms	
					'	10.7V	
					All switch OFF	0V	
					Front wiper switch INT	(V)	
53				Combination	Front wiper switch LO	15	
(LG/	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit-		5	
R)				tent dial 4)	Lighting switch AUTO		
					Lighting Switch ACTO	2 ms	
					All switch OFF	0V	
					Front fog lamp switch ON		
				Combination	Lighting switch 2ND	(V) 15	
54	Ground	Combination switch	Output	switch	Lighting switch flash-to-	10	
(G/Y)		OUTPUT 4		(Wiper intermit- tent dial 4)	pass	O I I	
				tent diai 4)	Turn signal switch I H	2 ms	
					Turn signal switch LH	JPMIA0035GB 10.7V	
55					ON	Battery voltage	
(BR/	Ground	Front blower monitor	Input	Front blower mo- tor switch	OFF	0V	
W)					OI F	OV.	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
	()	Front door lock as-		Front door lock	OFF (neutral)	Battery voltage	
56 ³ (L/B)	Ground	sembly LH (key cylinder switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	ov .	В
57 (W)	Ground	Tire pressure warning check switch	Input		_	Battery voltage	С
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	D E
				ON (front door LH OPEN)	0V	F	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)	Ground	ger relay	Output	fogger	Not activated	0V	G
60		Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S MKIA0062GB	Н
(B/R)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	PWC
		Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	M
61 (W/R)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	O

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value
(Wire color) (+) (-)		Signal name	Input/ Output	Condition		(Approx.)
62 (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	(V) 15 10 1
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
63 (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	(V) 15 10 1
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
64 (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	(V) 15 10 5 11 1
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

inal No. e color)	Description		O - a diki - a		Value	
(-)	Signal name	Input/ Output		Condition	(Approx.)	
Onned	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
Ground	LH antenna (+)	Output	switch is operated with ignition switch OFF Win ar During waiting with geself and self-self-self-self-self-self-self-self-	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	
		Input/	During waiting		15 10 5 0 1 ms	
Giourid		Output	When operating e	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB	
	e color) (-) Ground Ground	Ground Front outside handle LH antenna (+) Ground NATS antenna amp (built in key slot) Ground Ignition relay-2 control Ground Remote keyless entry	Ground Front outside handle LH antenna (+) Ground NATS antenna amp (built in key slot) Ground Ignition relay-2 control Ground Remote keyless entry Remote keyless entry Input/ Output Ground Pront outside handle LH antenna (+) Ground NATS antenna amp (built in key slot) Ground Ignition relay-2 control Ground Remote keyless entry receiver signal Input/ Output When the front door LH request switch is operated with ignition switch OFF Unique Pront Pront door LH request switch is operated with ignition switch OFF Unique Pront Pront door LH request switch is operated with ignition switch Output During waiting During waiting During waiting	Ground Signal name Output Signal name Output Signal name Output Output Signal name Output Output Signal name Name Name Name Name Name Name Name N		

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	
			Input	Combination switch	Lighting switch high-beam (Wiper intermittent dial 4)	15 10 5 0	
76 (R/G)		Combination switch INPUT 3				леміа0036GB 1.3V	
()					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	1.3V (V) 15 10 2 ms JPMIA0040GB 1.3V	
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed Not pressed	0V Battery voltage	
78 (P)	Ground	CAN-L	Input/ Output		_	_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
					OFF	0V	
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 1 1 S JPMIA0015GB	
					ON	6.5V	
					ON	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0 1111	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
(LG)	Ground	ON malcator lamp	Output	igilition switch	ON	0V
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)				3 11 1 11	ACC or ON	Battery voltage
84 ⁵ (Y/R)	Ground	CVT shift selector	Output		-	Battery voltage
85	Ground	Electronic steering column lock condition	Innut	Electronic steer-	Lock status	0V
(L/O)	Ground	No. 1	Input	ing column lock	Unlock status	Battery voltage
86	Cround	Electronic steering	Innut	Electronic steer-	Lock status	Battery voltage
(G/R)	Ground	column lock condition No. 2	Input	ing column lock	Unlock status	0V
87 ⁵	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Ground	tion switch	IIIput	Selector level	Any position other than P	Battery voltage
			Input	Front door RH request switch	ON (pressed)	0V
88 (P/L)	Ground	Front door RH request switch			OFF (not pressed)	(V) 15 10 10 ms 10 ms JPMIA0016GB
					ON (pressed)	0V
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0V Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94		Electronic steering	.		OFF or ACC	Battery voltage
(G/Y)	Ground	column lock power supply	Output	Ignition switch	ON	0V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	ВС
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB	G H I
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	PWC
					Front washer switch ON	(V) 15 10 5 0 2 ms	M
						1.3V	0

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
		Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4V	
96 (P/P)	Ground				Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	
(P/B)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value A	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
		Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	В С
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms 1.3V	E F
97 (R/B)	Ground				Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB	PWC
					Front wiper switch HI	2 ms	M
					Pressed	1.3V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Р

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	Battery voltage
99 (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer- ing column lock	LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0V
103	Cround	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V) G	Ground				Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)	Oround	Trank room lamp	Output	Trunk room lamp	OFF	Battery voltage
114	Ground	Fround Trunk room antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(B)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
115	Canada	Trunk room antenna	Outout	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(W) Ground	1 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	
118 (L/O) Ground	Crowned	Rear bumper anten-		When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
	Ground	na (-)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s
119 (BR/ Ground W)	Ground	d Rear bumper anten- na (+)		When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1
	Giodila		Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description				.,.
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)	Oignai name	Output			
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
W)	Ground	E/R) control	Output	igination ownton	ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
 					ON (trunk is open)	0V
			Output	Ignition switch OFF (M/T vehi- cle)	When the clutch pedal is depressed	Battery voltage
		Starter motor relay control			When the clutch pedal is not depressed	0V
132 (R)	Ground			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
					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
144	Cround	Request switch buzz-	Output	Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)	Signia	switch	put	switch	Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 10 10 ms JPMIA0011GB 11.8V
					ON (when rear door RH opens)	0V

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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	·		Description			Value
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door LH opens)	0V

- 1: Sedan only
- 2: M/T only
- 3: With LH front window anti-pinch
- 4: With LH and RH front window anti-pinch.
- 5: CVT only
- 6: With auto lights
- 7: With low tire pressure warning system
- 8: Coupe only

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation	1
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	ı
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	J
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	DV
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	PW
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC	
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms	L
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal	M
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V	N
B2601: SHIFT POSITION	Inhibit electronic steering column lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN) 	0
B2602: SHIFT POSITION	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more 	Р

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< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal

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[LH&RH FRONT ANTI-PINCH-SEDAN]

Display contents of CONSULT	Fail-safe	Cancellation
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output 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 • 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 • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When BCM transmits the LOCK request signal to the steering lock unit and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No 1 signal: LOCK (0V) • Steering condition No 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000006919940

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

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Priority		DTC
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: ACC RELAY B2611: ACC RELAY B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2619: SCM B2619: SCM B2616: FNG STATE NO RECIV B26E8: CLUTCH SW B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG	
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RL C1734: CONTROL UNIT 	

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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DTC Index

NOTE:

Details of time display

- 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	D
No DTC is detected. further testing may be required.	_	_	_	_	Е
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32	_
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33	F
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34	=
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-36 (Coupe), SEC-250 (Sedan)	G
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-37 (Coupe), SEC-251 (Sedan)	Н
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe), SEC-281 (Sedan)	
B2191: DIFFERENCE OF KEY	×	_	_	SEC-69 (Coupe), SEC-285 (Sedan)	I
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-70 (Coupe), SEC-286 (Sedan)	J
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-71 (Coupe), SEC-287 (Sedan)	
B2195: ANTI-SCANNING	_	_	_	<u>SEC-72</u>	PΜ
B2553: IGNITION RELAY	_	_	_	PCS-59	
B2555: STOP LAMP	_	_	_	SEC-73 (Coupe), SEC-289 (Sedan)	L
B2556: PUSH-BTN IGN SW	_	×	_	SEC-78 (Coupe), SEC-294 (Sedan)	
B2557: VEHICLE SPEED	×	×	_	SEC-80 (Coupe), SEC-296 (Sedan)	M
B2560: STARTER CONT RELAY	×	×	_	SEC-81 (Coupe), SEC-297 (Sedan)	N
B2562: LOW VOLTAGE	_	_	_	BCS-35	_
B2601: SHIFT POSITION	×	×	_	SEC-82 (Coupe), SEC-298 (Sedan)	0
B2602: SHIFT POSITION	×	×	_	SEC-86 (Coupe), SEC-302 (Sedan)	
B2603: SHIFT POSI STATUS	×	×	_	SEC-89 (Coupe), SEC-305 (Sedan)	Р
B2604: PNP SW	×	×	_	SEC-92 (Coupe), SEC-308 (Sedan)	-
B2605: PNP SW	×	×	_	SEC-94 (Coupe), SEC-310 (Sedan)	-
B2606: S/L RELAY	×	×	_	SEC-96 (Coupe), SEC-312 (Sedan)	-

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2607: S/L RELAY	×	×	_	SEC-97 (Coupe), SEC-313 (Sedan)
B2608: STARTER RELAY	×	×	_	SEC-99 (Coupe), SEC-315 (Sedan)
B2609: S/L STATUS	×	×	_	<u>SEC-101</u> (Coupe), <u>SEC-317</u> (Sedan)
B260A: IGNITION RELAY	×	×	_	PCS-61
B260B: STEERING LOCK UNIT	_	×	_	SEC-106 (Coupe), SEC-322 (Sedan)
B260C: STEERING LOCK UNIT	_	×	_	SEC-107 (Coupe), SEC-323 (Sedan)
B260D: STEERING LOCK UNIT	_	×	_	SEC-108 (Coupe), SEC-324 (Sedan)
B260F: ENG STATE SIG LOST	×	×	_	SEC-109 (Coupe), SEC-325 (Sedan)
B2611: ACC RELAY	_	_	_	PCS-62
B2612: S/L STATUS	×	×	_	<u>SEC-110</u> (Coupe), <u>SEC-331</u> (Sedan)
B2614: ACC RELAY CIRC	_	×	_	PCS-64
B2615: BLOWER RELAY CIRC	_	×	_	PCS-67
B2616: IGN RELAY CIRC	_	×	_	PCS-70
B2617: STARTER RELAY CIRC	×	×	_	SEC-115 (Coupe), SEC-336 (Sedan)
B2618: BCM	×	×	_	PCS-73
B2619: BCM	×	×	_	<u>SEC-117</u> (Coupe), <u>SEC-338</u> (Sedan)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-118 (Coupe), SEC-339 (Sedan)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-121
B2622: INSIDE ANTENNA	_	_	_	DLK-279
B2623: INSIDE ANTENNA	_	_	_	DLK-282
B26E1: ENG STATE NO RES	×	×	_	SEC-326
B26E8: CLUTCH SW	×	×	_	<u>SEC-123</u>
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	SEC-125
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-126
C1704: LOW PRESSURE FL	_	_	×	<u>WT-8</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-8</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-8</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-8</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>

< ECU DIAGNOSIS INFORMATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-18</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-19</u>

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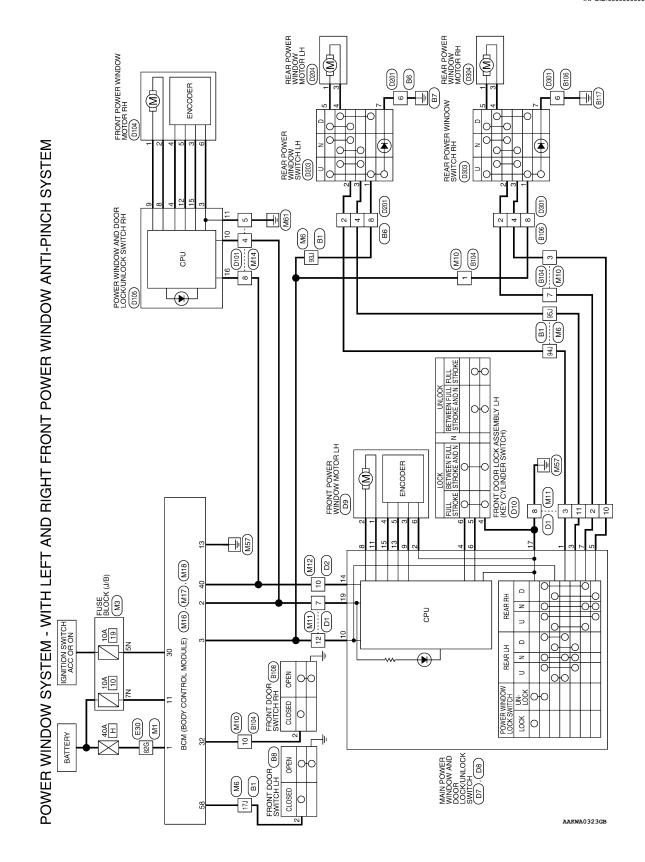
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WIRING DIAGRAM

POWER WINDOW SYSTEM

Wiring Diagram - Sedan With Left And Right Front Power Window Anti-Pinch System



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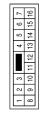
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POWER WINDOW SYSTEM CONNECTORS - WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM Connector No. M1	Salar Sala	
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Terminal No. Oolor of Signal Name 5N V/Y 7N Y/R -	
POWER WINDOW SYSTEM CONNEC Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	##\$ 176 166 156 146 136 126 116 106 26 16 176 166 156 146 136 126 116 106 26 16 266 266 246 256 246 256 276 196 186 346 356 326 316 306 286 276 376 386 336 356 356 356 356 356 356 556 446 456 446 456 446 456 446 556 456 456 456 456 456 456 656 556 576 576 566 566 566 806 776 776 786 756 746 736 656 807 776 776 786 756 746 736 656 807 776 776 776 786 776 776 776 776 826 W/B	aakia0635gb

ne					
Signal Name	I	I	Ţ	I	
Color of Wire	R∕Y	В	G/R	G/O	, , , ,
Terminal No. Wire	7	8	10	11	

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



Signal Name

Color of Wire G/W

Terminal No. Ø က



Г	
Connector No.	M10
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color BROWN	BROWN
5 F	4 3 2 1
12	12 11 10 9 8 7 6

Signal Name	I	-	I	1
Color of Wire	L/W	G/R	G/W	R/B
Terminal No. Wire	٦	3	7	10

M16	or Name BCM (BODY CONTROL	MODULE)	3LACK	
ا≥ّا	m	≥	В	
or No.	or Name		or Color BLACK	

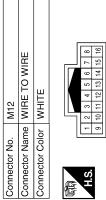






M14





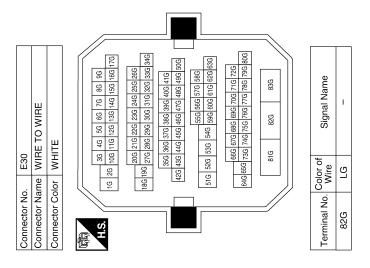


Signal Name	BAT_POWER_F/L	PW_POWER_SUPPLY PERM	POWER_WINDOW_ POWER_SUPPLY (RAP)
Color of Wire	M/B	R/Y	N
Terminal No. Wire	-	2	3

Signal Name	ı	-	_
Color of Wire	R/Υ	В	Y/G
Terminal No.	4	5	8

Signal Name	1	
Color of Wire	Y/G	
Terminal No.	10	

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				21 20 41 40					
	BCM (BODY CONTROL MODULE)	GREEN		30 29 28 27 26 25 24 23 22 50 48 48 47 46 45 44 43 42	Signal Name	ACC F/B	AS DOOR SW	PW K-LINE	DR DOOR SW
. M18		_		34 33 32 3 54 53 52 8	Color of Wire	Λ/Y	R/B	Y/G	SB
Connector No.	Connector Name	Connector Color	师 H.S.	39 38 37 36 35 34 33 32 31 59 58 57 56 55 54 53 52 51	Terminal No.	30	32	40	58

Connector No.	M17
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE
4	5 6 7 3 8 9 10
H.S.	11 12 13 14 15 16 17 18 19

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

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E TO WIRE TE	Signal Name	B106 WIRE TO WIRE WHITE 2
MHITE TO WHITE TO WHITE TO WHITE TO	Color of Wire SB SB B B	
Connector No. B6 Connector Name WIRE TO WIRE Connector Color WHITE	Tal No.	Connector No. Connector Color H.S. Terminal No. Color 2 W. 4 S W. 6 B/ 8 F
	1	
Signal Name		TO WIRE WN 10 11 12 10 11
Color of Wire SB R R		Color of Wire SB 98 Wire SB SB WM GR
Terminal No. 17J 93J 94J 95J		Connector No. B104 Connector Name WIRE TO WIRE Connector Color BROWN 1 2 3
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE	1, 2, 10, 11, 12, 13, 14, 12, 13, 14, 13, 14, 13, 14, 13, 14, 13, 14, 13, 14, 13, 14, 13, 14, 13, 14,	Connector No. B8 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE LAS Signal Name S SB DOOR SW (DR)
		ABKIA2377GB

[LH&RH FRONT ANTI-PINCH-SEDAN]

	Ę.		2 0 0	Signal Name							
D2	Connector Name WIRE TO WIRE	r WHITE	8 7 6 5 4 3 2 16 15 14 13 12 11 11		BR	-					
Connector No.	Connector Nam	Connector Color WHITE	明. H.S.	Terminal No. Wire	10						
	TO WIRE	щ	12 11 10 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	ı	ı	1	1	I	ı	ı
	me WIRE	lor WHIT	7 6 5 4 16 15 14 13	Color of Wire	۵	>	M	В	SB	0	>
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	2	င	7	8	10	F	12
	FRONT DOOR SWITCH RH	ш		Signal Name	DOOR SW (AS)						
. B108		or WHITE	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Color of Wire	GR						
Connector No.	Connector Name	Connector Color	H.S.	Terminal No. Wire	2						

Connector No.	. D8	
Connector Na	me AND SWII	Connector Name AND DOOR LOCK/UNLOCK SWITCH
Connector Color WHITE	lor WHI	TE
赋 H.S.	14	61 81 71
Terminal No.	Color of Wire	Signal Name
17	В	GND
19	M	BAT

Terminal No.	Color of Wire	Signal Name
4	L/B	LOCK
5	SB	RR DOWN
9	L/R	UNLOCK
7	Ь	RR UP
8	ш	AS UP
6	8	ENCODER SIG2
10	۸	IGN
11	ГG	AS DOWN
13	SB	ENCODER SIG1
14	BR	COM
15	GR	ENCODER POWER

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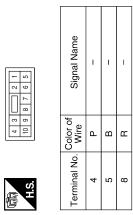
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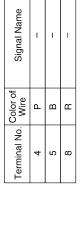
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[LH&RH FRONT ANTI-PINCH-SEDAN]

< WIRING DIAGRAM >



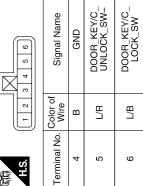




Connector No. D201	Connector Name WIRE TO WIRE	Connector Color WHITE	3 7 6 5 4 18
Connect	Connect	Connect	H.S.

8 / 6 5 4	Signal Name	ı	-	ı	ı
	Color of Wire	Ь	SB	В	æ
H.S.	Terminal No. Wire	2	4	9	8

4o. D10	Connector Name FRONT DOOR LOCK ASSEMBLY LH	Connector Color GRAY	
Connector No.	Connector Na	Connector Co	

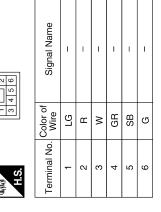


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connector No.	o.		5	S						
Connector Name	ame		888	≥ōĘ	LE 구성	POWER WIN DOOR LOCK SWITCH RH	□목돗ェ	85	≥₹	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color WHITE	흕		₹		ш					
偃	E	2	8	4	$ \sqcup $	ΙП	2	9	7	
SH	8	9	10	11	12	8 9 10 11 12 13 14 15 16	14	15	16	

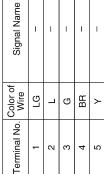
Signal Name	GND	ENCODER POWER	UP	DOWN	BAT	GND	ENCODER SIG1	ENCODER SIG2	COM
Color of Wire	8	BR	Г	LG	Ь	В	У	Э	Œ
Terminal No.	က	4	8	6	10	11	12	15	16

60	Sonnector Name FRONT POWER WINDOW MOTOR LH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



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





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[LH&RH FRONT ANTI-PINCH-SEDAN]

< WIRING DIAGRAM >

COLLINECTOR INC.). D301	
Connector Name WIRE TO WIRE	ame WIF	RE TO WIRE
Connector Color WHITE	olor WH	ПЕ
S H	8 3	7 6 5 4
Terminal No. Wire	Color of Wire	Signal Name
2	۵	I
4	SB	I
9	В	I
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4	Connector Name REAR POWER WINDOW MOTOR LH	EEN	2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	_	=
D204	me RE⊿ MO	ilor GRE	4	Color of Wire	٦	FG
Connector No.	Connector Na	Connector Color GREEN	雨 H.S.	Terminal No.	1	8

3	Connector Name REAR POWER WINDOW SWITCH LH	ITE	3 4 5 1	Signal Name	_	_	ı	_	_	-
. D203	me RE/ SW	lor WHITE	[2]	Color of Wire	æ	Ь	SB	ГG	٦	В
Connector No.	Connector Na	Connector Color	画 H.S.	Terminal No.	-	2	ဇ	4	9	2

Connector No.). D304	04
Connector Na	ame RE	Connector Name REAR POWER WINDOW MOTOR RH
Connector Color		GREEN
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Terminal No. Wire	Color o	Signal Name
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8	REAR POWER WINDOW SWITCH RH	TE TE	6 4 1	Signal Name	ı	_	I	_	_	1
. D303		lor WHITE		Color of Wire	н	Ь	SB	FG	٦	В
Connector No.	Connector Name	Connector Color	明.S.	Terminal No.	-	7	3	4	9	2

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NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH [LH&RH FRONT ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:0000000006393441

$oldsymbol{1}$. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-202, "BCM: 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

Check main power window and door lock/unlock switch.

Refer to PWC-206, "POWER WINDOW MAIN SWITCH: Component Inspection".

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 power supply and GROUND CIRCUIT

Check power window switch main power supply and ground circuit.

Refer to PWC-203, "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 SERIAL CIRCUIT

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

Refer to PWC-231, "POWER WINDOW MAIN SWITCH: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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 1. CHECK FRONT POWER WINDOW MOTOR LH

Check front power window motor LH.

Refer to PWC-212, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

FRONT PASSENGER SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006393443

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

Check power window and door lock/unlock switch RH.

Refer to PWC-207, "FRONT POWER WINDOW SWITCH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

$oldsymbol{2}.$ 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-232, "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-214, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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 Α Diagnosis Procedure INFOID:0000000006393444 1. CHECK REAR POWER WINDOW SWITCH LH В Check rear power window switch LH. Refer to PWC-209, "REAR POWER WINDOW SWITCH: Component Function Check". C Is the inspection result normal? YES >> GO TO 2 NO >> Repair or replace the malfunctioning parts. D 2. CHECK REAR POWER WINDOW MOTOR LH Check rear power window motor LH. Refer to PWC-216, "REAR LH: Component Function Check". Е Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". >> Repair or replace the malfunctioning parts. NO F Н J L

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REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

REAR RH SIDE POWER WINDOW ALONE DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006393445

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to PWC-209, "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-217, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE) [LH&RH FRONT ANTI-PINCH-SEDAN]

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure INFOID:0000000006393446

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to PWC-195, "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.

$oldsymbol{3}$. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to PWC-220, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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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

NFOID:0000000006393447

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-195</u>, "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-222, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY (DRIVER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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

Diagnosis Procedure

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1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-195</u>, "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-220, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMAL-LY (PASSENGER SIDE)

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

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

Diagnosis Procedure

INFOID:0000000006393449

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-195</u>, "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-222, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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

INFOID:0000000006393450

Diagnosis Procedure

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to PWC-226, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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POWER WINDOW DOES NOT OPERATE BY KEY CYLINDER SWITCH

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

POWER WINDOW DOES NOT OPERATE BY KEY CYLINDER SWITCH

Diagnosis Procedure

INFOID:0000000006393451

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to <u>PWC-195</u>, "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.

 $2.\,{\sf CHECK\,FRONT\,DOOR\,LOCK\,ASSEMBLY\,LH\,(KEY\,CYLINDER\,SWITCH)}$

Check front door lock assembly LH (key cylinder switch).

Refer to PWC-228, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

KEYLESS POWER WINDOW DOWN DOES NOT OPERATE

Diagnosis Procedure

1. CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function.

Refer to DLK-300, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace BCM. Refer to <u>BCS-92</u>, "Removal and Installation".

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

[LH&RH FRONT ANTI-PINCH-SEDAN]

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000006393453

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

Replace main power window and door lock/unlock switch. Refer to PWC-295, "Removal and Installation".

>> INSPECTION END

PRECAUTIONS

< PRECAUTION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

ual.

- 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.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000006921778

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.

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PRECAUTIONS

< PRECAUTION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- Perform self-diagnosis check of all control units using CONSULT.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- · After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.
- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty area.
 - Then rub with a soft and dry cloth.
- Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

PREPARATION

PREPARATION

Special Service Tool

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
 (J-46534) Trim tool set	For removing trim

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PRE-INSPECTION FOR DIAGNOSTIC

< PERIODIC MAINTENANCE >

[LH&RH FRONT ANTI-PINCH-SEDAN]

PERIODIC MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

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

< REMOVAL AND INSTALLATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

REMOVAL

- Remove the front door armrest finisher. Refer to INT-13, "Removal and Installation".
- 2. Using a suitable tool, release the pawls, then lift upward the main power window and door lock/unlock switch and finisher as an assembly.

CAUTION:

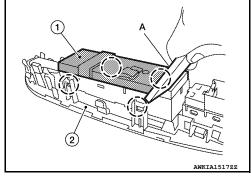
Wrap a cloth around suitable tool to protect components from damage.

- 3. Disconnect the harness connector.
- 4. Remove the main power window and door lock/unlock switch and finisher assembly from the front door finisher.
- 5. Release the four pawls (two on each side) with a suitable tool (A), then separate the main power window and door lock/unlock switch (1) from the switch finisher (2).

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CAUTION:

Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Perform initialization procedure after switch is connected. Refer to PWC-195, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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FRONT POWER WINDOW SWITCH

[LH&RH FRONT ANTI-PINCH-SEDAN]

< REMOVAL AND INSTALLATION >

FRONT POWER WINDOW SWITCH

Removal and Installation

INFOID:0000000006393458

REMOVAL

- Remove the front door armrest finisher. Refer to INT-13, "Removal and Installation".
- 2. Using a suitable tool, release the pawls, then lift upward the power window and door lock/unlock switch RH and finisher (2) as an assembly.

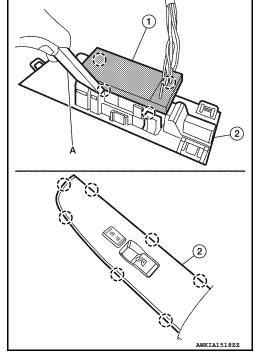


Wrap a cloth around suitable tool to protect components from damage.

- 3. Disconnect the harness connector.
- 4. Remove the power window and door lock/unlock switch RH and finisher (2) assembly from the front door finisher.
- 5. Release the four pawls (two on each side) with a suitable tool (A), then separate the power window and door lock/unlock switch RH (1) from the switch finisher (2).



Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Perform initialization procedure after switch is connected. Refer to PWC-195, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

REAR POWER WINDOW SWITCH

< REMOVAL AND INSTALLATION >

[LH&RH FRONT ANTI-PINCH-SEDAN]

REAR POWER WINDOW SWITCH

Removal and Installation

REMOVAL

1. Using a suitable tool, release the pawls, then lift upward the rear power window switch and finisher (2) as an assembly.

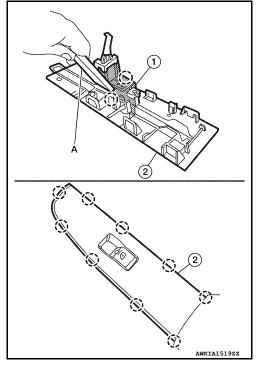
(_):Pawl CAUTION:

Wrap a cloth around suitable tool to protect components from damage.

- 2. Disconnect the harness connector.
- 3. Remove the rear power window switch and finisher (2) assembly from the rear door finisher.
- 4. Release the two pawls (one on each side) with a suitable tool (A), then separate the rear power window switch (1) from the switch finisher (2).



Do not bend back the pawls of the switch finisher too far or breakage will occur.



INSTALLATION

Installation is in the reverse order of removal.

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