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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow (INFOID:0000000004233007

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2. REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000004233008

NOTE:

ANTI-PINCH SYSTEM

If any of the following work has been done Initial setting is necessary.

- Power supply to the power window main switch or power window motor is cut off by the removal of battery terminal or the battery fuse is blown.
- Disconnection and connection of power window main switch harness connector.
- Removal and installation of motor from regulator assembly.
- Operation of regulator assembly as an independent unit.
- Removal and installation of glass.
- Removal and installation of door glass run.

NOTE:

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

- Auto-up operation
- Anti-pinch function

Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

NOTE:

ANTI-PINCH SYSTEM

INITIALIZATION PROCEDURE

- Disconnect battery minus terminal or power window main switch connector. 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 2 seconds or more.
- 5. Initializing procedure is completely.
- 6. 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 (5.9 in) or 2 seconds without pinching piece of wood and
- Check that glass does not rise when operating the power window main switch while lowering.

CAUTION:

- Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
- Check that AUTO-UP operates before inspection when system initialization is performed.
- Do not check with hands and other body parts because they may be pinched. Do not get pinched.
- It may switch to fail-safe mode if open/close operation is performed continuously without full close. Perform initial setting in that situation. Refer to PWC-66, "Fail Safe"

PWC-5

- Finish initial setting. Otherwise, next operation cannot be done.
- 1. Auto-up operation
- 2. Anti-pinch function

Revision: 2008 August

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000004233010

Refer to <u>PWC-5</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

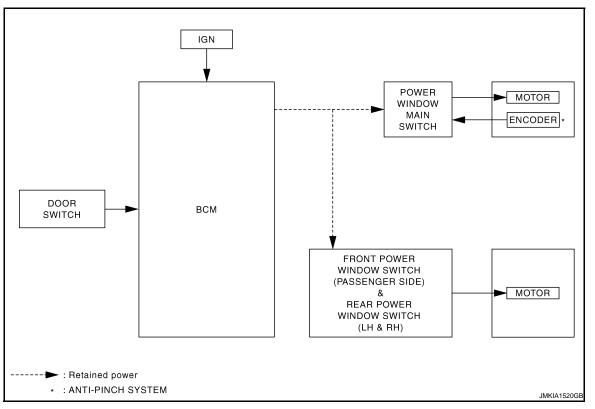
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

Refer to <u>PWC-5</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: <u>Special Repair Requirement</u>" for initialization procedure and check anti-pinch function.

FUNCTION DIAGNOSIS

POWER WINDOW SYSTEM

System Diagram



System Description

INFOID:0000000004233013

POWER WINDOW MAIN SWITCH INPUT/OUTPUT SIGNAL CHART

Item	Input signal to power window main switch	Power window main switch function	Actuator
Encoder	Encoder pulse signal		Front power window motor
Power window main switch	Front power window motor (driver side) UP/DOWN signal		(driver side)
Front power window switch (passenger side)	Front power window motor (passenger side) UP/DOWN signal	Power window control	Front power window motor (passenger side)
Rear power window switch	Rear power window motor UP/DOWN signal		Rear power window motor (LH & RH)
BCM	Retained power signal		Each power window motor

FRONT POWER WINDOW SWITCH (PASSENGER SIDE) & REAR POWER WINDOW SWITCH (LH & RH)

INPUT/OUTPUT SIGNAL CHART

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Item	Input signal to front power window switch (passenger side) & rear power window switch (LH & RH)	Front power window switch (passenger side) & rear power window switch (LH & RH) function	Actuator
Front power window switch (passenger side)	Front power window motor (passenger side) UP/DOWN signal	Power window control	Front power window motor (passenger side)
Rear power window switch (LH & RH)	Rear power window motor (LH & RH) UP/DOWN signal		Rear power window motor (LH & RH)

POWER WINDOW OPERATION

- Power window main switch (driver side) can open/close all windows.
- Front & rear power window switch can open/close the corresponding windows.
- Power window system is operable during the retained power operation timer after turning ignition switch ON and OFF.

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)/WITH ANTI-PINCH SYSTEM

- AUTO UP/DOWN operation can be performed when power window main switch 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 sunroof system to operate for 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 again.
- When timer time passes. (45 seconds)

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)/WITHOUT ANTI-PINCH SYSTEM DOWN operation can be performed when power window main switch turns to AUTO.

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 main switch.

ANTI-PINCH SYSTEM (FRONT DRIVER SIDE)/WITH ANTI-PINCH SYSTEM

- 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 (5.9 in) or 2 seconds when detected.
- Encoder continues detecting the movement of front power window motor (driver side) and transmits to power window main switch as the encoder pulse signal while front power window motor (driver side) is operating.
- Resistance is applied to the front power window motor (driver side) rotation that changes the frequency of encoder pulse signal if foreign material is trapped in the door glass.
- Power window main switch controls to lower the window glass for 150 mm (5.9 in) or 2 seconds after it detects encoder pulse signal frequency change.

OPERATION CONDITION

• When front door glass (driver side) 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:0000000004233014

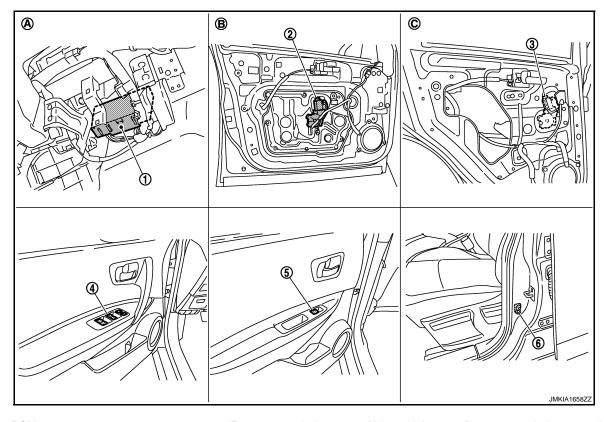
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- 1. BCM M65, M66, M67
- 4. Power window main switch D5, D6
- A. Over the globe box

- 2. Front power window motor (driver side) D7
- 5. Rear power window switch LH D83
- B. View with front door finisher removed.
- Rear power window motor LH D82
- 6. Front door switch (driver side) B34
- C. View with rear door finisher removed.

Component Description

INFOID:0000000004233015

Component	Function
BCM	Supplies power supply to power window switch.Controls retained power.
Power window main switch	 Directly controls all power window motor of all doors. Controls anti-pinch operation of power window.
Front power window switch	Controls power window motor of front passenger side door.
Rear power window switch (LH & RH)	Controls power window motor of rear right and left doors.
Front power window motor (driver side)	 Integrates the encoder and power window motor. Starts operating with signals from power window main switch. Transmits front power window motor (driver side) rotation as a pulse signal to power window main switch.
Front power window motor (passenger side)	Starts operating with signals from power window main switch & front power window switch (passenger side).
Rear power window motor (LH & RH)	Starts operating with signals from power window main switch & rear power window switch (LH & RH).
Front door switch (diver side)	Detects door open/close condition and transmits to BCM.

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000004233016

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-63, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III	Diagnosis mode		
System	sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
_	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
-	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

^{*:} This item is displayed, but is not function.

RETAIND PWR

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

INFOID:0000000004233017

Data monitor

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

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< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000004233018

1. CHECK FUSE AND FUSIBLE LINK

- 1.Turn ignition switch OFF.
- 2. Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
38	Ignition power supply	1 (10A)
57	Battery power supply	10 (10A)
70	Battery power suppry	J (50A)

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connectors.
- 2. Check voltage between BCM harness connector and ground.

(+) BCM		(-)	Condition	Voltage (Approx.)	
Connector	Terminal	1		(, фрюх.)	
M65	38		Ignition switch ON		
M67	57	Ground	Ignition switch OFF	Battery voltage	
	70		ignition switch OFF	Ignition Switch OFF	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M67	67		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness or connector.

POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

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

< COMPONENT DIAGNOSIS >

(+)			Voltage (V)	
Power window main switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		, , ,	
D5	10	Craund	Dottomaseltomo	
D6	19*	Ground	Battery voltage	

^{*:} With ANTI-PINCH SYSTEM

Is the inspection result normal?

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

2.CHECK GROUND CIRCUIT

Turn ignition switch OFF.

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

Power window		Continuity	
Connector	Ground	Continuity	
D6	17		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

3.check harness continuity

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

В	CM	Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M67	68	D5	10	Existed
IVI67	69*	D6	19*	LAISIEU

^{*:} With ANTI-PINCH SYSTEM

4. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector Terminal		Ground	Continuity	
M67	68	Giouna	Not existed	
IVIO7	69*	_	Not existed	

^{*:} With ANTI-PINCH SYSTEM

Is the inspection result normal?

>> Replace BCM. Refer to BCS-67, "Removal and Installation".

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

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

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< COMPONENT DIAGNOSIS >

(+)				Voltage (V) (Approx.)
Front power window s	Front power window switch (passenger side) Connector Terminal		Condition	
Connector				
D45	8	Ground	Ignition switch ON	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- Disconnect BCM connector.
- Check continuity between BCM harness connector and front power window switch (passenger side) harness connector.

В	CM	Front power window s	switch (passenger side)	Continuity
Connector	Terminal	Connector Terminal		Continuity
M67	68	D45	8	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M67	68		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Removal and Installation".

NO >> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH : Diagnosis Procedure

INFOID:0000000004233021

1. CHECK POWER SUPPLY CIRCUIT

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

(+)			(-)		Voltage (V) (Approx.)
Rear power window switch				Condition	
Connector Terminal					
LH	D83	1	Ground	Ignition switch ON	Battery voltage
RH	D103		Ground	Ignition switch ON	Dattery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

< COMPONENT DIAGNOSIS >

В	CM	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
M67	68	LH	D83	1	Existed
IVIO7	68	RH	D103	'	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M67	68		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Removal and Installation".

NO >> Repair or replace harness.

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FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Description INFOID:000000004233022

Front power window motor (passenger side) will be operated if front power window switch (passenger side) is operated.

Component Function Check

INFOID:0000000004233023

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) FUNCTION

Check front power window motor (passenger side) operation with front power window switch (passenger side). <u>Is the inspection result normal?</u>

YES >> Front power window switch (passenger side) is OK.

NO >> Refer to PWC-16, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004233024

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between front power window switch (passenger side) harness connector and ground.

(+) Front power window switch (passenger side)		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(-4)
12				UP	Battery voltage
D45	12	Ground	Power window main switch (passenger side)	DOWN	0
	11			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-17, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO

>> Replace front power window switch (passenger side). Refer to PWC-78, "Removal and Installation".

${f 3.}$ CHECK FRONT WINDOW SWITCH (PASSENGER SIDE) CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- Check continuity between power window main switch harness connector and front power window switch (passenger side) harness connector.

Power windo	w main switch	Front power window s	witch (passenger side)	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
D5	16	D45	12	Existed	
	12	D43	11	Existed	

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

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

Power window	Power window main switch		Continuity
Connector	Terminal	Ground	Continuity
D5	16	Ground	Not existed
Do	12		Not existed

Is the inspection result normal?

YES >> Replace power window main switch.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

- 1. Turn ignition OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check front power window switch (passenger side).

Front power window switch (passenger side)	Terminal		Front power window switch condition	Continuity	
	8	7	UP		
	11	6			
Date	11	6	NEUTRAL	Existed	
D45	12	7 NEUTRAL	Existed		
	8	6	DOWN		
	12	7	DOWN		

Is the inspection result normal?

YES >> INSPECTION END

NO

>> Replace front power window switch (passenger side). Refer to PWC-78, "Removal and Installation".

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REAR POWER WINDOW SWITCH

< COMPONENT DIAGNOSIS >

REAR POWER WINDOW SWITCH

Description INFOID:000000004233026

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

Component Function Check

INFOID:0000000004233027

1. CHECK REAR POWER WINDOW SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Rear power window switch is OK.

NO >> Refer to <u>PWC-18</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004233028

1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

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

	(+) Rear power window switch		Conc	Condition	
Connector	Terminal				
	2		UP	Battery voltage	
LH: D83	2		Power window	DOWN	0
LH. D03	3	Ground	main switch: LH	UP	0
				DOWN	Battery voltage
	2			UP	Battery voltage
	RH: D103		Power window	DOWN	0
RH: D103			main switch: RH	UP	0
	3			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-19, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to PWC-78, "Removal and Installation".

3.check rear power window switch circuit

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

REAR POWER WINDOW SWITCH

< COMPONENT DIAGNOSIS >

Power windo	w main switch	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
	1	LH	D83	2	
D5	3	ЦΠ	LH DO3	3	Existed
D5	5	DLI	D402	3	Existed
7	7	K T	RH D103	2	

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

Power windo	Power window main switch		Continuity
Connector	Terminal		Continuity
	1	Ground	
D5	3	Ground	Not existed
	5		Not existed
	7		

Is the inspection result normal?

YES >> Replace power window main switch.Refer to PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004233029

1. CHECK REAR POWER WINDOW SWITCH

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch connector.
- Check rear power window switch.

Rear power window switch	Terminal		Rear power window switch condition	Continuity	
	1 5 LIB		- UP		
	3	4	Or Or	Existed	
LH:D83	3	4	NEUTRAL		
RH:D103	2	5	NEOTIAL		
	1	4	DOWN		
	2	5	DOWN		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window switch. Refer to PWC-78, "Removal and Installation". **PWC**

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PWC-19 Revision: 2008 August 2009 Rogue

< COMPONENT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004233030

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

DRIVER SIDE: Component Function Check

INFOID:0000000004233031

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) OPERATION

Check front power window motor (driver side) operation with power window main switch.

Is the inspection result normal?

YES >> Front power window motor (driver side) is OK.

NO >> Refer to PWC-20, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004233032

1. CHECK POWER WINDOW MOTOR (DRIVER SIDE) INPUT SIGNAL

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

(+) Power window motor (driver side)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - /
	D7 2		Power window main switch	UP	Battery voltage
D7		Ground		DOWN	0
DI		Ground		UP	0
				DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK POWER WINDOW MOTOR CIRCUIT

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

Power windo	ow main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D5	8	D7	2	Existed
D3	11		1	LXISIEU

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

Power window main switch			Continuity	
Connector	Connector Terminal		Continuity	
D5	8	Ground	Not existed	
D5	11		NOT EXISTED	

Is the inspection result normal?

YES >> Replace power window main switch.Refer to PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

< COMPONENT DIAGNOSIS >

${f 3.}$ CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

Check front power window motor (driver side).

Refer to PWC-21, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power window motor (driver side). Refer to GW-22, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

1. CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)

- Turn ignition switch OFF.
- Disconnect front power window motor (driver side) connector.
- Check motor operate by connecting the battery voltage directly to front power window motor (driver side) connector.

Front power window motor (driver	Terr	minal	Motor condition	
side) connector	(+)	(-)	Wotor condition	
D7	1	2	DOWN	
Di	2	1	UP	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window motor (driver side). Refer to GW-22, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

Door glass moves UP/DOWN by receiving the signal from power window main switch or front power window switch (passenger side).

PASSENGER SIDE: Component Function Check

${f 1}$. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE) OPERATION

Check front power window motor (passenger side) operation with power window main switch or front power window switch (passenger side).

Is the inspection result normal?

YFS >> Power window motor (passenger side) is OK.

NO >> Refer to PWC-21, "PASSENGER SIDE: Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

${f 1.}$ CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE) INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect front power window motor (passenger side) connector.
- Turn ignition switch ON. 3.
- Check voltage between front power window motor (passenger side) harness connector and ground.

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< COMPONENT DIAGNOSIS >

(+) Front power window motor (passenger side) Connector Terminal		(-)	Condition		Voltage (V) (Approx.)
					(лергол.)
	2	Ground	Front power win- dow switch (passenger side)	UP	Battery voltage
D46	2			DOWN	0
D40	4			UP	0
	1			DOWN	Battery voltage

Is the inspection result normal?

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

2.CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE) CIRCUIT

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

Front power window s	switch (passenger side)	Front power window r	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D45	6	D46	1	Existed
D43	7	540	2	LAISIGU

4. Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window switch (passenger side)			Continuity	
Connector	Terminal	Ground	Continuity	
D45	6	Ground	Not existed	
D-13	7		Not Chistod	

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

Check front power window motor (passenger side).

Refer to PWC-22, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004233037

1. CHECK FRONT POWER WINDOW MOTOR (PASSENGER SIDE)

- Turn ignition switch OFF.
- 2. Disconnect front power window motor (passenger side) connector.
- Check motor operate by connecting the battery voltage directly to front power window motor (passenger side) connector.

< COMPONENT DIAGNOSIS >

Front power window motor (passen-	Terminal		Motor condition
ger side) connector	(+)	(-)	iviolor condition
D46	1	2	DOWN
	2	1	UP

Is the inspection result normal?

YES >> INSPECTION END

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

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 OPERATION

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

Is the inspection result normal?

YES >> Rear power window motor LH is OK.

NO >> Refer to PWC-23, "REAR LH : Diagnosis Procedure"

REAR LH: Diagnosis Procedure

1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+) Rear power window motor LH Connector Terminal		(-)	Condition		Voltage (V) (Approx.)	
					()	
	1			UP	Battery voltage	
Dea	1	Cround	Ground Rear pov	Rear power win-	DOWN	0
D62	D82 3	Ground	dow switch LH	UP	0	
				DOWN	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

- Turn ignition switch OFF.
- Disconnect rear power window switch LH connector.
- 3. Check continuity between rear power window switch LH harness connector and rear power window motor LH harness connector.

Rear power wi	ndow switch LH	Rear power wi	ndow motor LH	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
D83	4	D82	3	Existed	
D03	5	D02	1	LAISIEU	

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

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< COMPONENT DIAGNOSIS >

Rear power v	Rear power window switch LH		Continuity
Connector	Terminal	Ground	Continuity
D83	4	Ground	Not existed
D03	5		NOT EXISTED

Is the inspection result normal?

YES >> Replace rear power window switch LH.Refer to PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK REAR POWER WINDOW MOTOR LH

Check rear power window motor LH.

Refer to PWC-24, "REAR LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

REAR LH: Component Inspection

INFOID:0000000004233041

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR LH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor LH connector.
- 3. Check motor operate by connecting the battery voltage directly to rear power window motor LH connector.

Rear power window motor LH con-	Terminal		Motor condition	
nector	(+)	(-)	Wotor Condition	
Dea	3	1	DOWN	
D82	1	3	UP	

Is the inspection result normal?

YES >> INSPECTION END

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

REAR RH

REAR RH: Description

INFOID:0000000004233042

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

REAR RH: Component Function Check

INFOID:0000000004233043

1. CHECK REAR POWER WINDOW MOTOR RH OPERATION

Check rear power window motor RH operation with power window main switch or rear power window switch RH.

Is the inspection result normal?

YES >> Rear power window motor RH is OK.

NO >> Refer to PWC-25, "REAR RH: Diagnosis Procedure".

< COMPONENT DIAGNOSIS >

REAR RH: Diagnosis Procedure

INFOID:0000000004233044

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1.CHECK REAR POWER WINDOW MOTOR RH INPUT SIGNAL

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

(+) Rear power window motor RH		(–)	Con	Condition	
Connector	Terminal				(Approx.)
	4		Rear power window switch RH	UP	Battery voltage
D102	ı	Cround		DOWN	0
D102	2			UP	0
	3			DOWN	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH connector.
- 3. Check continuity between rear power window switch RH harness connector and rear power window motor RH harness connector.

Rear power w	indow switch RH	Rear power wi	ndow motor RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D103	4	D102	3	Existed
D103	5	D102	1	Existed

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

Rear power v	Rear power window switch RH		Continuity
Connector	Terminal	Ground	Continuity
D103	4	Ground	Not existed
D103	5		Not existed

Is the inspection result normal?

YES >> Replace rear power window switch RH.Refer to PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW MOTOR RH

Check rear power window motor RH.

Refer to PWC-26, "REAR RH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

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< COMPONENT DIAGNOSIS >

REAR RH: Component Inspection

INFOID:0000000004233045

COMPONENT INSPECTION

1. CHECK REAR POWER WINDOW MOTOR RH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor RH connector.
- Check motor operation by connecting the battery voltage directly to rear power window motor RH connector.

Rear power window motor RH con-	Terr	minal	Motor condition
nector	(+)	(-)	Wotor condition
D102	3	1	DOWN
	1	3	UP

Is the inspection result normal?

YES >> INSPECTION END

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

DOOR SWITCH

< COMPONENT DIAGNOSIS >

Description INFOID:0000000004233046

Detects door open/closed condition.

Component Function Check

1.check function

(II) With CONSULT-III

Check door switches("DOOR SW-DR", "DOOR SW-AS", ""DOOR SW-RL", "DOOR SW-RR", "BACK DOOR SW") in "Data Monitor" mode with CONSULT-III.

Monitor item	Door condition	Display
DOOR SW-DR		
DOOR SW-AS		
DOOR SW-RL	$CLOSE \to OPEN$	$OFF \to ON$
DOOR SW-RR		
BACK DOOR		

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to PWC-27, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- 3. Check signal between door switch harness connector and ground with oscilloscope.

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Γ	Door switch			
(+)			(-)	Voltage (V) (Approx.)
connector		Terminal	(-)	(11 - /
Front door switch (passenger side)	B27	2		(V) 15 10 5 0 10 ms JPMIA0011GB
Front door switch (driver side)	B34	2	- Ground	(V) 15 10 5 0 JPMIA0011GB
Rear door switch RH	B53	2	- Ground	(V) 15 10 5 0 10 ms JPMIA0011GB
Rear door switch LH	B71	2		(V) 15 10 5 0 10 ms JPMIA0011GB
Back door lock assembly (back door switch)	D190	3		Battery voltage

Is the inspection result normal?

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

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector .
- 2. Check continuity between BCM harness connector and door switch harness connector.

BCM		Door switch		Continuity
connector	Terminal	connector	Terminal	Continuity
M65	12	B27	2	
WOS	13	B53	2	
	43	D190	3	Exists
M66	47	B34	2	
	48	B71	2	

^{3.} Check continuity between BCM harness connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

BCM connector	Terminal		Continuity
M65 M66	12		
	13	Ground	Does not exist
	43	Ground	
	47		
	48		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK DOOR SWITCH

Check door switch.

Refer to PWC-29, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace door switch. Refer to <u>DLK-263</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- 3. Check door switch.

Terminal		Condition	Continuity	
Each door	2	Ground	Door switch pressed	Exists
Each door	2	Giodila	Door switch released	Does not exist
Back door	2	4	Back door open	Exists
Dack door	3	4	Back door close	Does not exist

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Replace Door switch . Refer to <u>DLK-263, "Removal and Installation"</u>.

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ENCODER CIRCUIT

Description INFOID:000000004233050

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

Component Function Check

INFOID:0000000004233051

1. CHECK ENCODER OPERATION

Check front driver side door glass perform AUTO open/close operation normally when power window main switch.

Is the inspection result normal?

YES >> Encoder operation is OK.

NO >> Refer to PWC-30, "Diagnosis Procedure"

Diagnosis Procedure

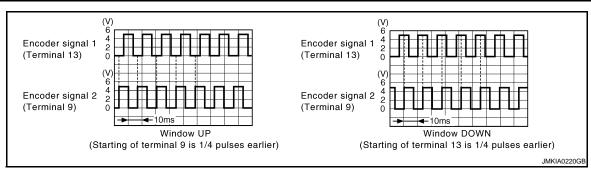
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Encoder Circuit Check

CHECK ENCODER OPERATION

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

(Power windo	+) ow main switch	(-) Signal (Reference value		
Connector	Terminal		(Norononios valus)	
D5	9	- Ground	Refer to following signal	



Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

2. CHECK ENCORDER SIGNAL CIRCUIT

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

Power windo	w main switch	Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D5	9	D7	3	Existed
	13	וט	5	LAISIEU

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

ENCODER CIRCUIT

< COMPONENT DIAGNOSIS >

Power wind	Power window main switch		Continuity	
Connector	Terminal	Ground	Continuity	
D5	9	- Ground	Not existed	
Do	13		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check encorder power supply circuit

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

(+)			Voltage (V)	
Front power window	Front power window motor (driver side)		(Approx.)	
Connector	Terminal		, , ,	
D7	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK GROUND CIRCUIT

Turn ignition switch OFF.

2. Check continuity between front power window motor (driver side) harness connector and ground.

Front power window	Front power window motor (driver side)		Continuity	
Connector	Terminal	Ground	Oblinidity	
D7	6		Existed	

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

CHECK HARNESS CONTINUITY 1

Turn ignition switch OFF.

Check continuity between power window main switch harness connector and front power window motor (driver side) harness connector.

Power windo	w main switch	Front power window motor (driver side) Connector Terminal		Continuity
Connector	Terminal			Continuity
D5	15	D7	4	Existed

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

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D5	15		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK HARNESS CONTINUITY 2

1. Disconnect power window main switch connector.

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ENCODER CIRCUIT

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2. Check continuity between power window main switch harness connector and front power window motor (driver side) harness connector.

Power windo	w main switch	Front power window motor (driver side) Connector Terminal		Continuity
Connector	Terminal			Continuity
D5	2	D7	6	Existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to <u>PWC-78</u>. "Removal and Installation".

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
ODL LINI COX OW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOD CW DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOD CW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD CW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DACK DOOD OW	Back door closed	Off
BACK DOOR SW	Back door opened	On
KEV OWL LK OW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL LINI CW	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
VEVI 500 L 00V	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
KEVI ECC LINII OCK	"UNLOCK" button of key fob is not pressed	Off
KEYLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
2	"LOCK" button of Intelligent Key or door request switch are pressed	On
I NEA TIMEOON	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON CW/	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE CW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LIGHT SW 4ST	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

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< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DVE VEED LINEV	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
21/2 21/	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
IONI OWI CAN	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
	Front wiper switch OFF	Off
R WIPER INT	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
/EHICLE SPEED	While driving	Equivalent to speedometer reading
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
	PANIC button of Intelligent Key is not pressed	Off
KEY PANIC	PANIC button of Intelligent Key is pressed	On
	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On
RUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood NOTE:	Off
	Vehicles of except for Mexico are OFF-fixed	
	Open the hood	On

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< ECU DIAGNOSIS >

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

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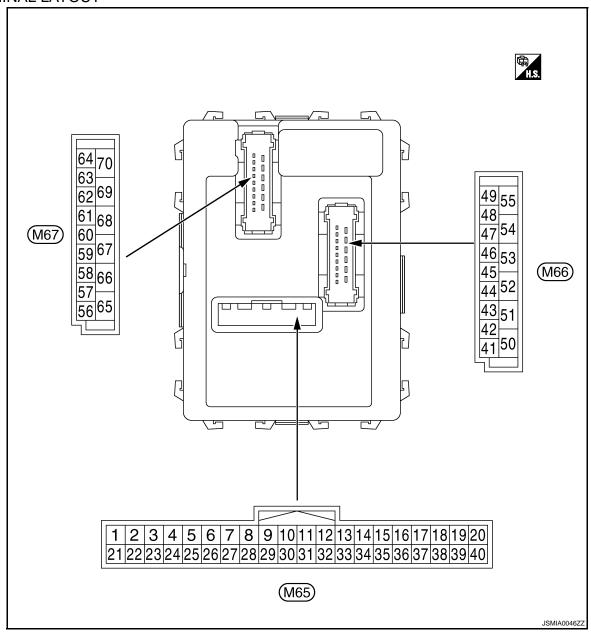
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

 Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.

Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-27, "COMB SW: CONSULT-III Function (BCM - COMB SW)".

• BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

	nal No.	Description		Condition		Value (Approx.)	
(Wire color)		Signal name	Input/				
+	_	Signal flame	Output				
1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage	
(V)	Giodila	mination control	Output	illumination	ON	0 V	

	nal No.	Description	1			Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	0 V
					Turn signal switch RH	
					Lighting switch HI	(V) 15
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 1ST	10 5 0 ++10ms PKIB4959J 1.0 V
					Lighting switch 2ND	(V) 15 10 5 0 ++10ms PKIB4953J
					All audah OFF	2.0 V
					All switch OFF	0 V
					Turn signal switch LH Lighting switch PASS	(V)
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	15 10 5 0 ++10ms PKIB4959J 1.0 V
()				(Wiper intermit- tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 +10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
				Combination	Front wiper switch MIST	(V) 15
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch INT	10 5 0 ++10ms PKIB4959J 1.0 V

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V) 15
					Rear washer ON (Wiper intermittent dial 4)	10
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 + +10ms PKIB4959J
			Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4955J		
					All switch OFF	0.8 V
					(Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5
					Wiper intermittent dial 3 (All switch OFF)	+-+10ms PKIB4959J
						(V)
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1	(V) 15 10 5 0
					Wiper intermittent dial 2	PKIB4952J
						(V) 15
			Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	10 5 0 10ms		
						PKIB4955J 0.8 V

	nal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position UNLOCK position	(V) ₁₅ 10 5 0 + 10ms JPMIA0587GB 8.0 - 8.5 V 0 V
					UNLOCK position	0 0
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 +10ms JPMIA0587GB
					LOCK position	8.0 - 8.5 V 0 V
9		Ground Stop lamp switch Input Stop lamp switch	Ston Jamn	OFF (Brake pedal is not depressed)	0 V	
(R)			Input		ON (Brake pedal is depressed)	Battery voltage
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage
(SB)	Giodila	ger switch	iliput	defogger switch	Pressed	0 V
11	0					~ ` '
(SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V
	Ground	Ignition switch ACC	Input	Ignition switch Of		0 V Battery voltage
12 (P)	Ground	Ignition switch ACC Passenger door switch	Input	_		Battery voltage (V) 15 10 + 10ms JPMIA0586GB
		Passenger door		Ignition switch A0	OFF (When passenger door	Battery voltage (V) 15 10 5 0 ++10ms
		Passenger door		Ignition switch A0	OFF (When passenger door closed) ON (When passenger door	Battery voltage (V) 15 10 5 0 ++10ms JPMIA0586GB 7.5 - 8.0 V

< ECU DIAGNOSIS >

	nal No. e color)	Description			Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	, ,
15 [*] (O)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch O	FF	(V) ₁₅ 10 5 0 ++10ms JPMIA0588GB	B
18 [*] (O)	Ground	Remote keyless en- try receiver ground	Input	Ignition switch O	N	0 V	
				Without Intelligent Key system	At any condition	5 V	E
19 [*] (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	F
					3 seconds or later after ig- nition switch OFF to ON	5 V	G
				Without Intelli- gent Key sys- tem	At any condition	(V) ₁₅ 10 5 0 **2ms JPMIA0589GB	ŀ
						NOTE: The wave form changes according to signal-receiving condition.	J
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	P۱
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) ₁₅ 10 5 0	L
				NOTE: The wave form changes according to signal-receiving condition.	1		
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage	

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	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → 1s JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch OFF		Battery voltage
				Ignition switch OFF		
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) ₁₅ 10 5 0 → 10ms JPMIA0591GB 1.6 V
					A/C switch ON	0 V
				Ignition switch O	FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 → 10ms JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Sistina	azara evitori	put	. ALGIG OWITOIT	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)		switch	·	opener switch	Pressed	0 V

< ECU DIAGNOSIS >

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	Output	t Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON	(V) 15
					(Wiper intermittent dial 4)	10
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	0 +10ms PKIB4956J
					Wiper intermittent dial 6Wiper intermittent dial 7	1.0 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0
33	Ground	Combination switch	Output	Combination		7.2 V
(GR)	Ciouna	OUTPUT 4	Calput	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	10
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 → +10ms PKIB4958J

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	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J
				Combination	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J
35 (B)	Ground	Combination switch OUTPUT 2	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	7.2 V
					Lighting switch PASS	(V) 15
					Front wiper switch INT	10 5 0
					Front wiper switch HI	0 → +10ms PKIB4958J 1.2 V
36	Cround	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
(V)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V)
				cont dial 4)	Turn signal switch LH Front wiper switch LO (Front wiper switch MIST)	15 10 10 10 10 10 10 10 10 10 10 10 10 10
					Front washer switch ON	+10ms PKIB4958J
						1.2 V

< ECU DIAGNOSIS >

	inal No. e color)	Description				Value
+ (vvire	-	Signal name	Input/ Output		Condition	(Approx.)
37	Cround	Key switch	lanut	Insert mechanic	al key into ignition key cylin-	Battery voltage
(LG)	Ground	Key Switch	Input	Remove mechan	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch C	OFF or ACC	0 V
(G)	Oround	ignilion ownon ort	•	Ignition switch C	ON or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 **10ms JPMIA0593GB 9.5 - 10.0 V
			ON (When back door opened)	0 V		
44				Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop	Input	ŎN	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 ********************************
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0591GB
						1.6 V
					UNLOCK position	0 V

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	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49	Ground	Back door lamp con-	Output	Back door lamp switch DOOR	Back door is closed (Back door lamp turns OFF)	Battery voltage
(L)	Ground	trol	Output	position	Back door is opened (Back door lamp turns ON)	0 V
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V
(V)	Ground	Back door open	Output	opener switch	Pressed (Back door actuator is activated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF	0 V
(35)					Rear wiper switch ON interior room lamp battery	Battery voltage
56	Ground	Interior room lamp	Output	saver operation t	time	0 V
(Y)		power supply	·		ter passing the interior room er operation time	Battery voltage
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O		Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Sibulid	LOCK	Output	Dilver door	Other then UNLOCK (Actuator is not activated)	0 V

< ECU DIAGNOSIS >

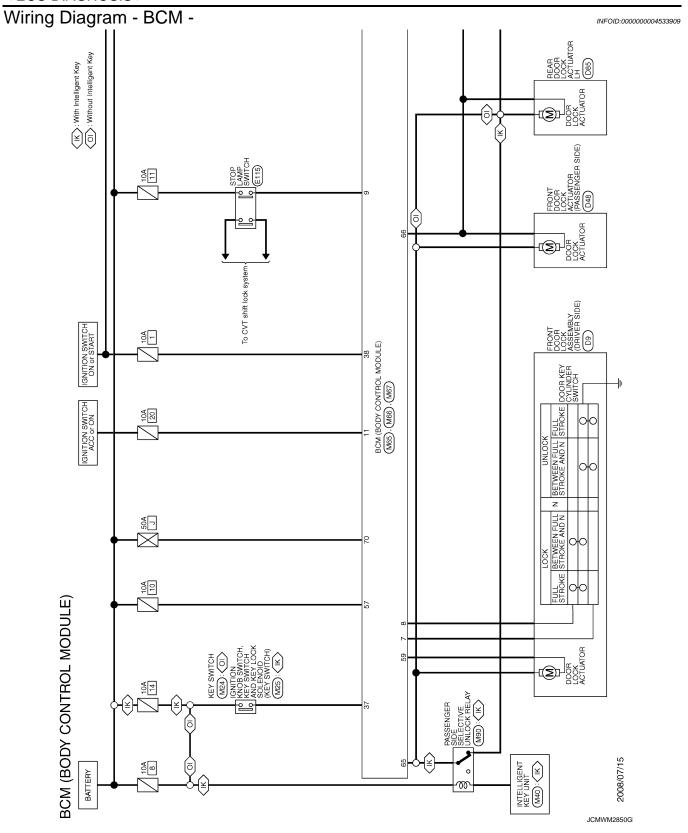
	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(R)	Oround	timer control	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Ground	7 til 40010 20010	Gaipai	7 till doore	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Giodila	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch O	N	Battery voltage
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

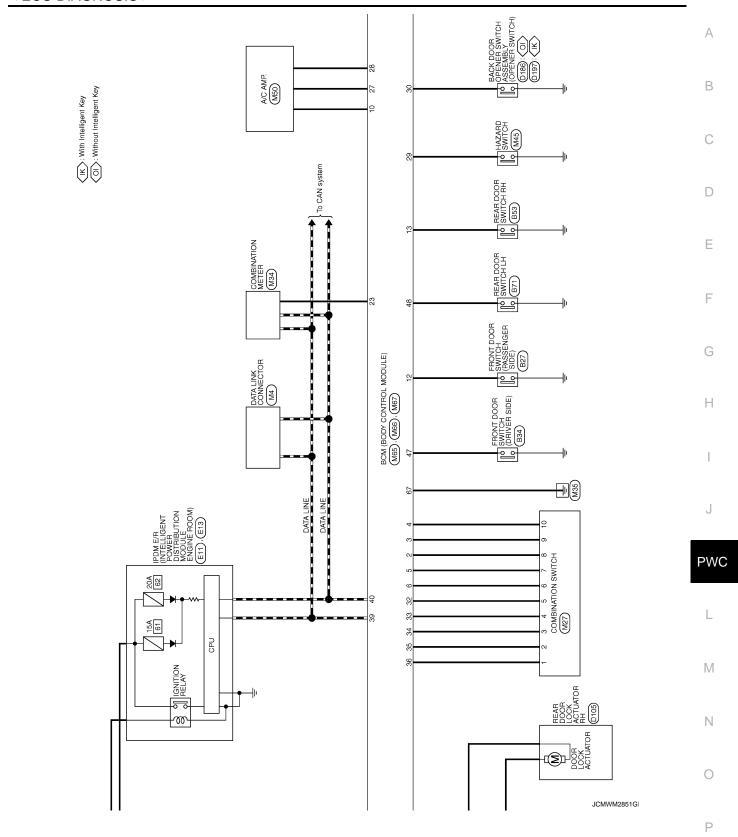
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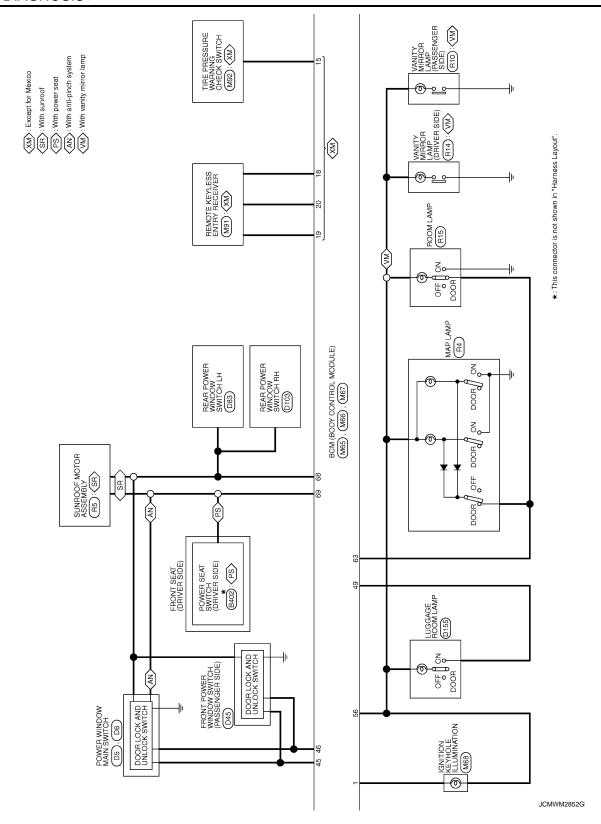
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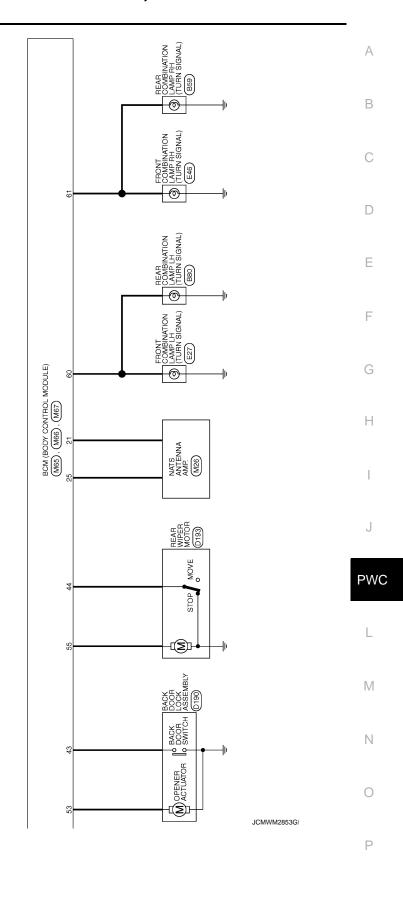
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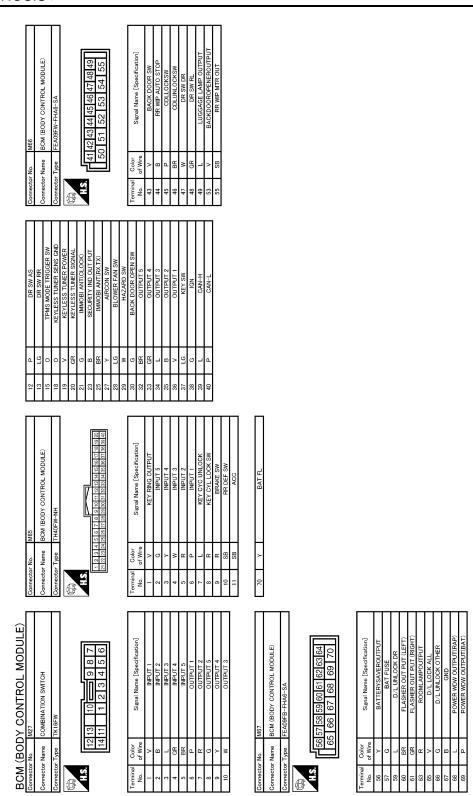
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JCMWM2854G

Fail-safe

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

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< ECU DIAGNOSIS >

- 1. Pass more than 1 minute after the rear wiper stop.
- Turn the rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

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

DTC Inspection Priority Chart

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

Priority	DTC	
1	U1000: CAN COMM CIRCUIT	
2	C1735: IGN CIRCUIT OPEN	
3	 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: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1729: VHCL SPEED SIG ERR 	

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	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35

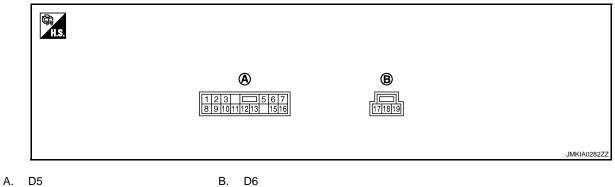
CONSULT display	Tire pressure monitor warning lamp ON	Reference
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	\\\T.45
C1706: LOW PRESSURE RR	×	<u>WT-15</u>
C1707: LOW PRESSURE RL	×	
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	\A/T 4.7
C1710: [NO DATA] RR	×	<u>WT-17</u>
C1711: [NO DATA] RL	×	
C1712: [CHECKSUM ERR] FL	×	
C1713: [CHECKSUM ERR] FR	×	W/T 20
C1714: [CHECKSUM ERR] RR	×	<u>WT-20</u>
C1715: [CHECKSUM ERR] RL	×	
C1716: [PRESS DATA ERR] FL	×	
C1717: [PRESS DATA ERR] FR	×	W/T 22
C1718: [PRESS DATA ERR] RR	×	<u>WT-23</u>
C1719: [PRESS DATA ERR] RL	×	
C1720: [CODE ERR] FL	×	
C1721: [CODE ERR] FR	×	W/T 25
C1722: [CODE ERR] RR	×	<u>WT-25</u>
C1723: [CODE ERR] RL	×	
C1724: [BATT VOLT LOW] FL	_	
C1725: [BATT VOLT LOW] FR	_	WT 20
C1726: [BATT VOLT LOW] RR	_	<u>WT-28</u>
C1727: [BATT VOLT LOW] RL	-	
C1729: VHCL SPEED SIG ERR	×	<u>WT-31</u>
C1735: IGN CIRCUIT OPEN	_	BCS-36

< ECU DIAGNOSIS >

POWER WINDOW MAIN SWITCH

Reference Value INFOID:0000000004233059

TERMINAL LAYOUT



PHYSICAL VALUES

POWER WINDOW MAIN SWITCH

	ninal No. e color)	Description		Condition	Voltage [V] (Approx.)	
+	-	Signal name	Input/ Output	Condition		
1 (R)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is UP at operated.	Battery voltage	
2 (Y)	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 DOWN at operated.	Battery voltage	
5 (Y)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is DOWN at operated.	Battery voltage	
7 (LG)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is UP at operated.	Battery voltage	
8 (BR)	11	Front power window motor (driver side) UP signal	Output	When front LH switch in power window main switch is UP at operated.	Battery voltage	
9 (V)	2	Encoder pulse signal 2*	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms JMKIA0070GB	
10	Ground	Ignition switch power supply	Input	Ignition switch ON	Battery voltage	
(L)		, , , , , ,	'	Other than above	0	
11 (GR)	8	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is DOWN at operated.	Battery voltage	

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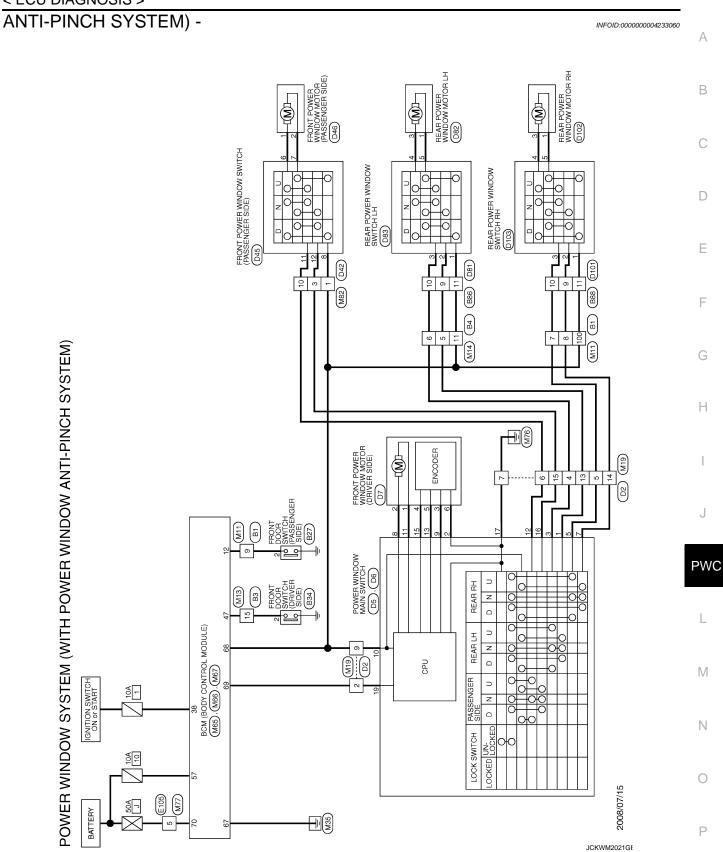
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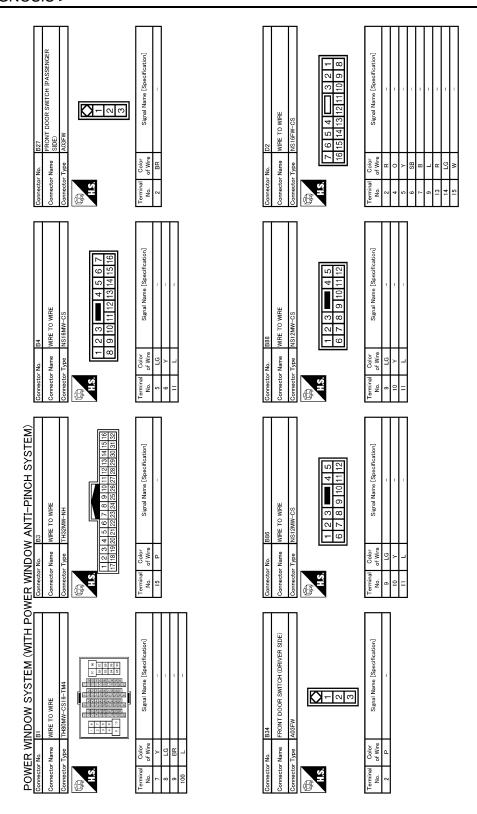
< ECU DIAGNOSIS >

	inal No. e color)	Description	Description		Voltage [V]	
+	-	Signal name	Input/ Output	Condition	(Approx.)	
12 (SB)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front RH switch in power window main switch is DOWN at operated.	Battery voltage	
13 (R)	2	Encoder pulse signal 1*	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms	
15 (G)	Ground	Encoder power supply*	Output	Ignition switch ON.	Battery voltage	
16 (W)	Ground	Front power window motor (passenger side) UP signal	Output	When front RH switch in power window main switch is UP at operated.	Battery voltage	
17 (B)	Ground	Ground	_	_	0	
19 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage	

^{*:} With ANTI-PINCH SYSTEM

Wiring Diagram - POWER WINDOW CONTROL SYSTEM (WHIT POWER WINDOW

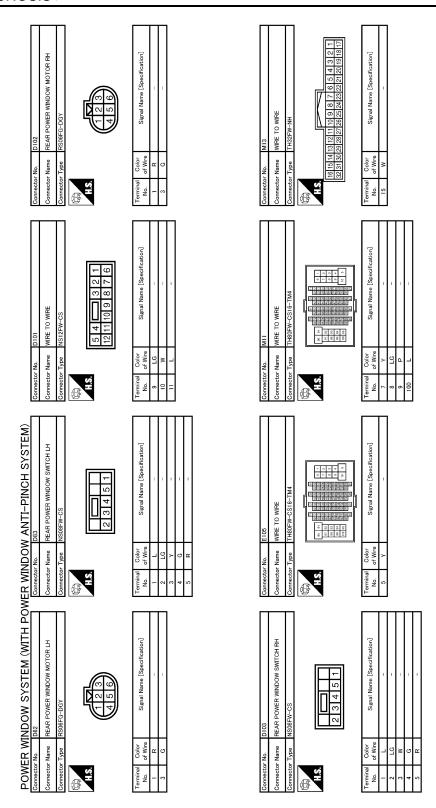




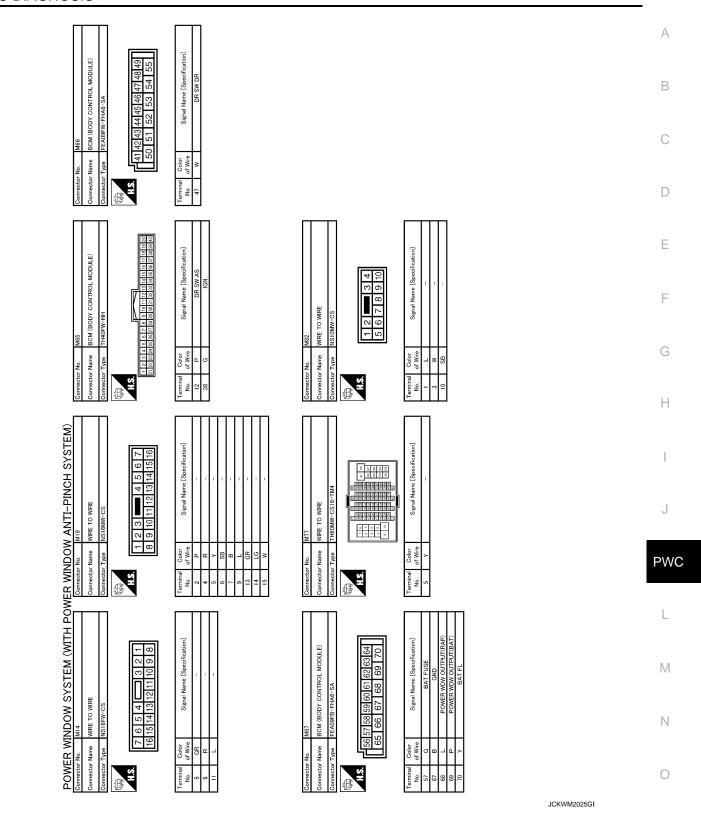
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Connector No. D7 Connector Name SIDE) Connector Type NSOGFW-CS The State of State o	Terminal Color Signal Name Specification Color Col	Connector No. D81 Connector Type NRI2FW-CS H.S. 5 4 3 2 1 12 11 10 9 8 7 6	Terminal Color Signal Name (Specification] Color		A B C
Connector No. D6 Connector Type NSU3PW-CS H.S. 171819	Terminal Color Signal Name [Specification]	Connector No. D46 Connector Name (PASSENGER SIDE) Connector Type NISJ0FW-CS A.S. A	Terminal Golor Signal Name [Specification]		E F G
IER WINDOW ANTI-PINCH SYSTEM) 15 G		Connector No. D45 Connector Name (PASSENGER SIDE) Connector Type NS12FW-CS H.S. 1 2	Terminal Golor No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification] Signal Name [Specif		J PWC
POWER WINDOW SYSTEM (WITH POWER WINDOW ANTI-PINCH SYSTEM) Connector Name DS IS C IS C	Terminal Color No. Color No. Color Color Signal Name [Specification] Color C	Connector No. D42 Connector Name WIRE TO WIRE Connector Type NS10FW-CS H.S. 4 3	Terminal Color Signal Name [Specification] No. of Wire 1 L		M N
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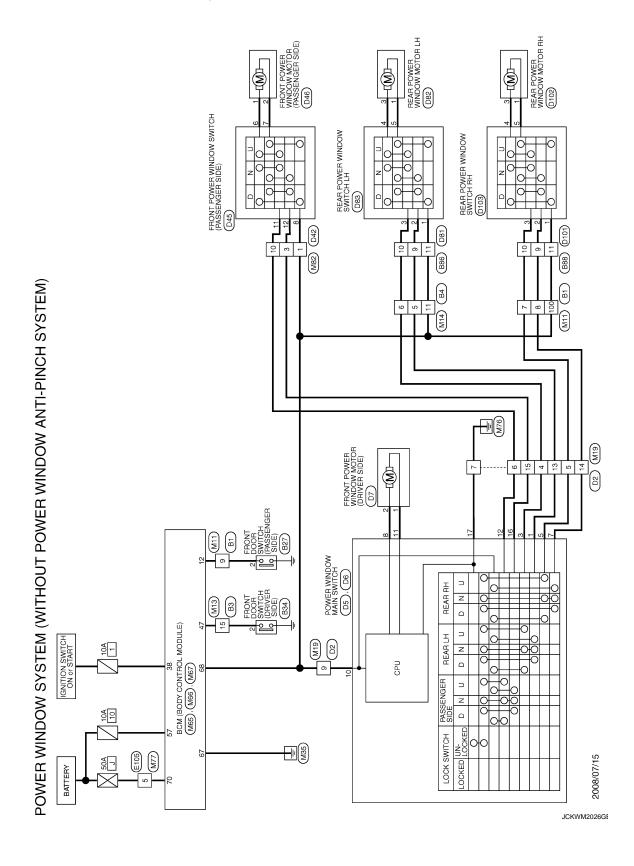
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Wiring Diagram - POWER WINDOW CONTROL SYSTEM (WITHOUT POWER WIN-

DOW ANTI-PINCH SYSTEM) -

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Connector No. B27 Connector Name FRONT DOOR SWITCH (PASSENGER SIDE) Connector Type A03FW	Connector No. D2 Connector Name WIRE TO WIRE Connector Type NSI 6FW-CS H.S. T 6 5 4	A B C
Connector No. B4 Connector Name WIRE TO WIRE	Connector No. B88 Connector Name WIRE TO WIRE	E F G
Connector No. B.3 Connector No. B.3 Connector Name WIRE TO WIRE Connector Type TH32MM-NH	Connector No. B36	J PWC
Connector Name BI Connector Name BI Connector Name WIRE TO WIRE Connector Type TH80AW-CSI6-TM4 TH80AW-	Connector No. B34 Connector Name FRONT DOOR SWITCH (DRIVER SIDE) Connector Type A03FW Connector Type A03FW Terminal Color Signal Name [Specification] 2 PP	L M N
		JCKWM2027GE

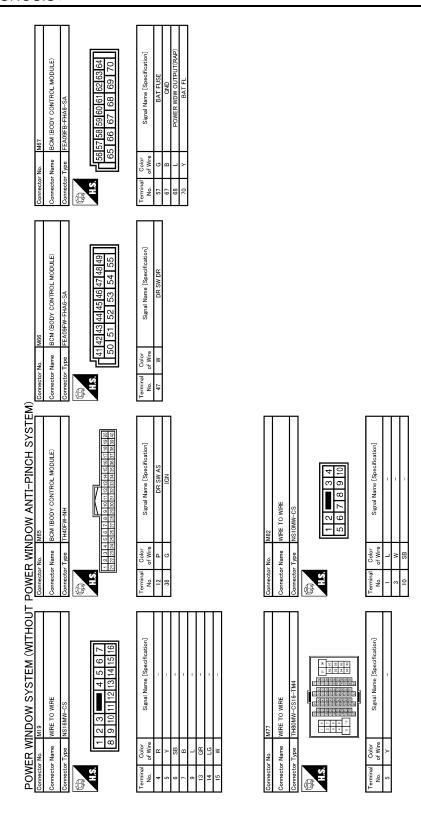
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Connector No. 042 Connector Name WIRE TO WIRE Connector Type NSIGFW-CS H.S. 10 9 8 7 6 5	Terminal Color Signal Name [Specification] No. of Wire 1	Connector No. D82 Connector Name REAR POWER WINDOW MOTOR LH Connector Type RS08FG-DGV	Terminal Color No. of Wire Signal Name (Specification)
Connector No. D7 Connector Name SIDE) Connector Type NSOFFW-CS H.S.	Terminal Color Signal Name [Specification] 1 GR -	Connector No. D81 Connector Name WIRE TO WIRE Connector Type INSIZEW-CS H.S. 5 4	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 9 LG 10 11 L 11
POWER WINDOW ANTI-PINCH SYSTEM) Connector No. 06 Connector Type NS03FW-CS WAS A STATE OF THE TIBE TIBE TIBE TIBE TIBE TIBE TIBE TIB	Terminal Golor Signal Name [Specification]	Connector No. D46 Connector Name (PRONT POWER WINDOW MOTOR Connector Type NSOGEW-CS WHA 1	Terminal Color Signal Name [Specification] 1
POWER WINDOW SYSTEM (WITHOUT Connector No. 105 Connector Name POWER WINDOW MAIN SWITCH Connector Type NISTERY-CS A.S. 1 2 3 4	Terminal Color No. 9 Wire Signal Name (Specification) 3 0	Connector No. D45 Connector Name FRONT POWER WINDOW SWITCH Connector Type NS12FW-CS M.S. 1 2	Terminal Color No. of Wire Signal Name [Specification] 7

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Commetor No. D103 Commetor Name REAR POWER WINDOW SWITCH RH Commetor Type NSDBFW-CS H.S.	No. Color Signal Name [Specification] Color Color Colo	Comestor No. M14		A B C
Connector No. D102 Connector Name REAR POWER WINDOW MOTOR RH Connector Type RS06FG-D07Y H.S.	Terminal Color No. of Wire 1 R R	Connector No. M13		E F G
Connector No. Di101	Terminal Color Signal Name [Specification] No. Of Wire 9 L.G -	Connector No. M11		J PWC
POWER WINDOW SYSTEM (WITHOUT Commector No. D83 Commector Name REAR POWER WINDOW SWITCH LH Commector Type INSDEPV-CS H.S.	Terminal Color Signal Name [Specification]	Connector No. E105 Connector Type IH80FN-CS16-TM4 Terminal Color Signal Name (Specification) Signal Name (Specification)	JCKWM2029Gŧ	M N
			301/WWI2023GI	Р

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Fail Safe

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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.

< ECU DIAGNOSIS >

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

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

- Auto-up operation
- Anti-pinch function

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 main switch or front power window motor (driver side).

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NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE POWER WINDOWS CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:0000000004233063

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to PWC-12, "BCM: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check power window main switch power supply and ground circuit.

Refer to PWC-12, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >		
DRIVER SIDE POWER WINDOW DOES NOT OPERATE		Α
Diagnosis Procedure	INFOID:0000000004233064	
1.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE) Check power window motor.		В
Refer to PWC-20, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 2.		С
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION		D
Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1.		Е
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FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH

WITH BOTH POWER WINDOW MAIN SWITCH AND FRONT PASSENGER SIDE POWER WINDOW SWITCH: Diagnosis Procedure

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-16, "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 (PASSENGER SIDE)

Check front power window motor (passenger side).

Refer to PWC-21, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

WITH FRONT POWER WINDOW SWITCH ONLY

WITH FRONT POWER WINDOW SWITCH ONLY: Diagnosis Procedure INFOID.00000004233066

1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY AND GROUND CIRCUIT

Check front power window switch (passenger side) power supply and ground circuit.

Refer to PWC-13, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-16, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH В WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH: Diagnosis Procedure INFOID:0000000004233067 1. CHECK REAR POWER WINDOW SWITCH Check rear power window switch. Refer to PWC-18, "Component Function Check". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.CHECK REAR POWER WINDOW MOTOR LH Check rear power window motor LH. F Refer to PWC-23, "REAR LH: Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". >> GO TO 1. NO WITH REAR POWER WINDOW SWITCH LH ONLY WITH REAR POWER WINDOW SWITCH LH ONLY: Diagnosis Procedure INFOID:0000000004233068 ${f 1}$.CHECK REAR POWER WINDOW SWITCH POWER SUPPLY AND GROUND CIRCUIT **PWC** Check rear power window switch power supply and ground circuit. Refer to PWC-14, "REAR POWER WINDOW SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2 .CHECK REAR POWER WINDOW SWITCH M Check rear power window switch. Refer to PWC-18, "Component Function Check". N Is the inspection result normal? YFS >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? Р YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1.

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW DOES NOT OPERATE WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH

WITH BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW

SWITCH RH: Diagnosis Procedure

INFOID:0000000004233069

1. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-18, "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-24, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

WITH REAR POWER WINDOW SWITCH RH ONLY

WITH REAR POWER WINDOW SWITCH RH ONLY: Diagnosis Procedure

INFOID:0000000004233070

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

Check rear power winodw switch power supply and ground circuit.

Refer to PWC-14, "REAR POWER WINDOW SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-18, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >	
ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY (DRIVER SIDE)	,
Diagnosis Procedure	-
1.PERFORM INITIALIZATION PROCEDURE	Е
Initialization procedure is executed and operation is confirmed. Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".	(
Is the inspection result normal? YES >> INSPECTION END NO >> GO TO 2.	
2.CHECK ENCODER CIRCUIT	
Check encoder circuit. Refer to PWC-30, "Component Function Check".	Е
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1.	ŀ
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POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000004233072

1. CHECK DOOR SWITCH

Check door switch.

Refer to PWC-27, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATE NOR-MALLY (DRIVER SIDE)

Diagnosis Procedure

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK ENCODER

Check encoder.

Refer to PWC-30, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

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POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

< SYMPTOM DIAGNOSIS >

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION

Diagnosis Procedure

INFOID:0000000004233074

1.REPLACE POWER WINDOW MAIN SWITCH

Replace power window main switch.

>> Refer to PWC-78, "Removal and Installation".

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS FOR MEXICO

FOR MEXICO: 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. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

FOR USA AND CANADA

FOR USA AND CANADA: 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 "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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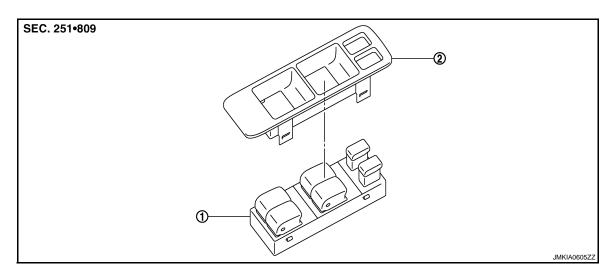
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ON-VEHICLE REPAIR

POWER WINDOW MAIN SWITCH

Exploded View



- 1. Power window main switch
- Power window main switch finisher

NOTE:

The same procedure is also performed for front power window switch (passenger side) and rear power switch (LH & RH).

Refer to removal and installation procedure. Refer to PWC-78, "Removal and Installation".

Removal and Installation

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REMOVAL

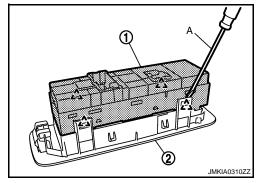
- Remove the power window main switch finisher (2).
 Refer to <u>INT-11</u>, "FRONT DOOR FINISHER: Exploded View" and <u>INT-11</u>, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Power window main switch (1) is removed from power window main switch finisher (2) using flat-head screw driver (A) etc.



CAUTION:

Do not fold the pawl of power window main switch finisher. NOTE:

The same procedure is also performed for front power window switch (passenger side) and rear power window switch (LH & RH).



INSTALLATION

Install in the reverse order of removal.

NOTE:

Power window main switch is exchanged or is detached it is necessary to do the initialization procedure. Refer to PWC-5, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement".