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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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 "SRS AIR BAG".
- 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.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never 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 or batteries, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

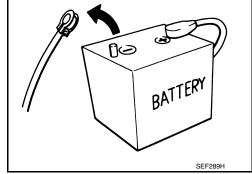
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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine : 20 minutes YS23DDT : 4 minutes
HRA2DDT : 12 minutes YS23DDTT : 4 minutes
K9K engine : 4 minutes ZD30DDTi : 60 seconds
M9R engine : 4 minutes ZD30DDTT : 60 seconds

R9M engine : 4 minutes
V9X engine : 4 minutes
YD25DDTi : 2 minutes



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.
 NOTE:

PRECAUTIONS

< PRECAUTION >

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

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PREPARATION

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PREPARATION

PREPARATION

Commercial Service Tools

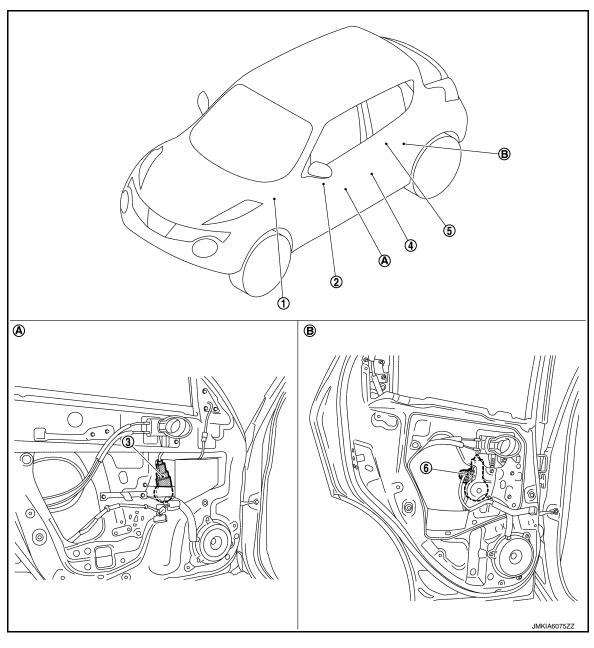
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Tool name		Description	
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips	

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



- BCM
 Refer to BCS-5, "BODY CONTROL
 SYSTEM: Component Parts Location"
- 4. Front door switch (driver side)
- A. View with front door finisher removed B.
- Power window main switch
- 5. Rear power window switch LH
 - View with rear door finisher removed
- 3. Front power window motor (driver side)
- 6. Rear power window motor LH

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component Description

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Component parts	Description	
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 (passenger side)	Controls power window motor of front passenger side door.	
Rear power window switch (LH & RH)	Controls power window motor of rear door (LH & RH).	
Front power window motor (driver side)	 Integrates the encoder and power window motor. Operates 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)	Operates with signals from power window main switch and front power window switch (passenger side).	
Rear power window motor (LH & RH)	Operates with signals from power window main switch and rear power window switch (LH & RH).	
Encoder	Detects condition of the front power window motor (driver side) operation and transmits to power window main switch as pulse signal.	
Front door switch	Detects door open/close condition and transmits to BCM.	

SYSTEM

POWER WINDOW SYSTEM

POWER WINDOW SYSTEM: System Diagram

INFOID:0000000012196897 FRONT POWER WINDOW MOTOR (DRIVER SIDE) MOTOR Encoder signal **ENCODER** D **POWER** Ignition ON signal всм WINDOW Front power MAIN SWITCH window motor FRONT POWER (passenger side) WINDOW MOTOR Е ÜP/DOWN signal (PASSENGER SIDE) FRONT POWER WINDOW SWITCH (PASSENGER SIDE) MOTOR Rear power **REAR POWER** window motor WINDOW MOTOR FRONT DOOR UP/DOWN signal (LH&RH) **SWITCH REAR POWER** WINDOW SWITCH (LH&RH) MOTOR JMKIB3472GB

POWER WINDOW SYSTEM: System Description

- Power window system is activated by power window switch when ignition switch turns ON, or during the retained power operation after ignition switch turns OFF.
- Power window main switch opens/closes all door glass.
- Front and rear power window switch opens/closes the corresponding door glass.
- AUTO UP/DOWN operation can be performed when power window main switch turns to AUTO.
- Power window lock switch can lock all power windows other than driver seat.
- · If door glass receives resistance that is the specified value or more while power window of driver seat is in AUTO-UP operation, power window of driver seat operates in the reverse direction.

POWER WINDOW AUTO-OPERATION (FRONT DRIVER SIDE)

- 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 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 for 45 seconds even when ignition switch is turned OFF.

Retained Power 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 LOCK

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SYSTEM

< SYSTEM DESCRIPTION >

Ground circuit inside power window main switch shuts off when power window lock switch is ON. This inhibits each power window switch operation except the power window main switch.

ANTI-PINCH SYSTEM (FRONT DRIVER SIDE)

- 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) when detected.
- Encoder continues detecting the movement of front power window motor (driver side) and transmits to power window main switch as the encoder 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 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) after it detects encoder 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.

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.		

It changes to condition before initialization and the following functions do not operate when switched to failsafe 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).

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System	Sub system selection item		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 timer	INT LAMP	×	×	×	
Exterior lamp	HEAD LAMP	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER	×	×	×	
Air conditioning system	AIR CONDITONER		×	×*	
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×	
Combination switch	COMB SW		×		
Body control system	ВСМ	×			
NVIS - NATS	IMMU	×	×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door open	TRUNK		×		
Theft warning alarm	THEFT ALM	×	×	×	
RAP	RETAINED PWR		×		
Signal buffer system	SIGNAL BUFFER		×	×	
TPMS	AIR PRESSURE MONITOR	×	×	×	

NOTE:

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

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^{*:} For models with automatic A/C, this diagnosis mode is not used.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power position is "LOCK"*.)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power position is "OFF".)	
	LOCK>ACC		While turning power position from "LOCK"* *to "ACC"	
	ACC>ON		While turning power position from "ACC" to "IGN"	
	RUN>ACC		While turning power position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN	Power position status of the moment a particular DTC is detected	While turning power position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power position from "ACC" to "OFF"	
Vehicle Condition	OFF>LOCK		While turning power position from "OFF" to "LOCK"*	
	OFF>ACC		While turning power position from "OFF" to "ACC"	
	ON>CRANK		While turning power position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power position is "LOCK"*.) to low power consumption mode	
	LOCK		Power position is "LOCK"*	
	OFF		Power position is "OFF" (Ignition switch OFF)	
	ACC		Power position is "ACC" (Ignition switch ACC)	
	ON		Power position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE:

- *: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models and CVT models), and any of the following conditions are met.
- · Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

RETAIND PWR

RETAIND PWR: CONSULT Function (BCM - RETAINED PWR)

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DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

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ECU	Reference	
	BCS-39, "Reference Value"	
BCM	BCS-60, "Fail-safe"	
BCIVI	BCS-61, "DTC Inspection Priority Chart"	
	BCS-62, "DTC Index"	

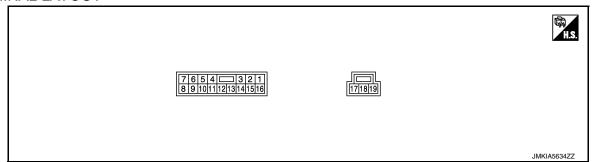
POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

POWER WINDOW MAIN SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	I leccription		Condition	Voltage (V)	
+	-	Signal name	Input/ Output	Condition	voitage (v)	
1 (B)	Ground	Ground	_	_	0 - 1	
2 (SB)	Ground	Front power window motor (passenger side) DOWN signal	Output	When front RH switch in power window main switch is in DOWN operation.	9 – 16	
4 (P)	Ground	Encoder signal 2	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms	
5 (W)	Ground	Encoder signal 1	Input	When front power window motor (driver side) operates.	(V) 6 4 2 0 10 ms	
6 (Y)	Ground	Rear power window motor RH DOWN signal	Output	When rear RH switch in power window main switch is in DOWN operation.	9 – 16	
7 (LG)	Ground	Rear power window motor RH UP signal	Output	When rear RH switch in power window main switch is in UP operation.	9 – 16	
8 (BG)	Ground	Rear power window motor LH DOWN signal	Output	When rear LH switch in power window main switch is in DOWN operation.	9 – 16	
9 (G)	Ground	Rear power window motor LH UP signal	Output	When rear LH switch in power window main switch is in UP operation.	9 – 16	
10	Ground	Ignition switch power supply	Input	Ignition switch ON	9 – 16	
(L)	Siduila	ignition switch power supply	input	Other than above	0 – 1	

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POWER WINDOW MAIN SWITCH

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output	Condition	voltage (v)
12 (LG)	Ground	Encoder ground	_	_	0 – 1
14 (G)	Ground	Encoder power supply	Output	Ignition switch ON	9 – 16
16 (W)	Ground	Front power window motor (passenger side) UP signal	Output	When front RH switch in power window main switch is in UP operation.	9 – 16
17 (R)	Ground	Front power window motor (driver side) UP signal	Output	When front LH switch in power window main switch is in UP operation.	9 – 16
18 (P)	Ground	Battery power supply	Input	Ignition switch OFF	9 – 16
19 (GR)	Ground	Front power window motor (driver side) DOWN signal	Output	When front LH switch in power window main switch is in DOWN operation.	9 – 16

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.

It changes to condition before initialization and the following functions do not operate when switched to failsafe 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).

WIRING DIAGRAM Α POWER WINDOW SYSTEM Wiring Diagram INFOID:0000000012196905 В REAR POWER WINDOW MOTOR LH (D67) REAR POWER WINDOW MOTOR RH D47 FRONT POWER WINDOW MOTOR (PASSENGER SIDE) NWOT AT NMOA DOWN UP Pown \$ С D FRONT POWER WINDOW SWITCH (PASSENGER SIDE) (D10) REAR POWER WINDOW SWITCH LH D63 REAR POWER WINDOW SWITCH RH D43 Е F 4 6 5 9 B17] B16) 4 5 5 15 M18) Н FRONT POWER WINDOW MOTOR (DRIVER SIDE) J **₩** ENCODER DOWN UP \$ M11 8 7 01 6 PWC 022 L REAR RH z M11 D22 14 MODULE ۵ M REAR LH BCM (BODY CONTROL MODULE) (MED), (B10) z POWER WINDOW SYSTEM Ν POWER WINDOW MAIN SWITCH (D35), (D36) PASSENGER SIDE z ۵ 0 LOCK SWITCH E105 (M77) LOCKED BATTERY 2014/09/22 Р JRKWE3752GB

Connector No. B49	Connector Name FRONT DOOR SWITCH (PASSENGER SIDE) Connector Type A03FW	(S)	Terminal Color Of Signal Name [Specification] No. Wire 2 R	Connector No. D2	Connector Name WIRE TO WIRE	Connector Type TH40FW-CS15		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	1.2. Reset of responsibility	ड्सका हड		lar	No. Wire	2 6	>- >- >	13 W	14 SB ·	15 L	╁	H	19 R	25 6 .	. 98 8	+	40 LG .	43 P
	8 R	Connector No. 817 Connector Name WIRETO WIRE Connector Type NSIGNA-CS	43 = 21 1098765		Terminal Color Of Signal Name [Specification] No. Wire	1 v	5 6			-		Connector No. 848	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector Type A03FW		K	THY.	7			Terminal Color Of Signal Name [Specification] No.	Н				
14 P	15 L	Connector No. 810 Connector Name 8CM (80DY CONTROL MODULE) Connector Type FEAGSIB FHA6.SA	H.S. (434445)4647,48149 51 53 54 55	let	No. Wire community and the second sec	I.G RE	45 R PASSENGER DOOR SW 46 LG REAR RH DOOR SW	SB	48 BR REARLH DOOR SW	51 Y BACK DOOR REQ SW	53 GR BK DOOR OPEN OUTPUT 54 P REAR WIPER OLITPLIT	Н		Connector No. B16	Connector Name WIRE TO WIRE	Connector Type NS10FW-CS	đ		H.S. 4 3 12 1	10 9 8 7 6 5			lal		4 88	Н
POWER WINDOW SYSTEM Connector No. B1	Connector Name WIRE TO WIRE Connector Type NS16/WW-CS	H.S. 1 2 3 - 4 5 6 7 8 9 10111213141516	Terminal Cobor Of Signal Name [Specification] 1 P	Н	11 L	13 GR .	+	16 BR .		Connector No. 82	Connector Name WIRE TO WIRE	Connector Type NS16MW-CS		1 0 0 1 1 5 5 7	0 2 2 - 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Terminal Color Of	No. Wire Signal Name [Specification]	1 1.6	2 L	Н	Н	10 V	+	13 R -

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Connector No. Connector Name Resolve Countey window Motors (DRIVES SIDE) Connector Type RESOLVES RESOLV	Treminal Color Of Signal Name Specification Numer Specification 1
Солиесто No. D35 Солиесто Name РОМЕВ WINDOW MAIN SWITCH Солиесто Туре 1 6 5 4	Ferminal Coler Of Signal Name Specification 1
Connector No. D22 Connector Name Write TO Write Connector Type TH40FW.5315 (Signate of the Connector Type T	Ferreinnal Color Cef Signal Name Specification
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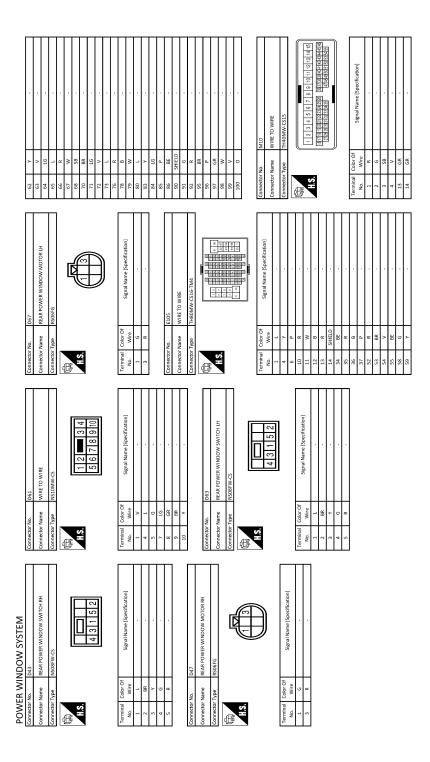
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SB DR DOOF	В	68 L PW PWR SPLY (IGN)	69 P PW PWR SPLY (BAT)	*			Connector No. M77	Τ	Connector Name WIRE TO WIRE	Т	Connector Type TH80FW-CS16-TM4			20 00 00 00 00 00 00 00 00 00 00 00 00 0		7 4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Terminal Color Of	_	t	1 >	> 0		+	+	12 Us	Ť	7	+	+	9 90	3/ 4		23 25	+		+	+	+	+		65 GR .		·		H	71 B	Ŧ		4
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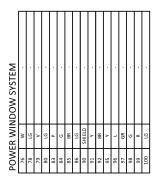
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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORK FLOW WorkFlow INFOID:0000000012196906 **DETAILED FLOW** ${f 1}$. 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. D >> GO TO 2. 2.REPRODUCE THE MALFUNCTION INFORMATION Е Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. F >> GO TO 3. ${f 3.}$ 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. Н >> GO TO 4. $oldsymbol{4}.$ IDENTIFY THE MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS" Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system. >> GO TO 5. J 5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. **PWC** >> 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? M YES >> INSPECTION END NO >> GO TO 3. N

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description INFOID:0000000012196907

When the battery negative terminal is disconnected, the initialization is necessary for normal operation of power window system. Refer to PWC-24, "Work Procedure".

CAUTION:

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

- Auto-up operation
- Anti-pinch function

Work Procedure

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to PWC-26, "Description".

>> GO TO 2.

2. CHECK ANTI-PINCH FUNCTION

Check anti-pinch function. Refer to PWC-27, "Description".

>> END

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION > ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	
Description INFOID:000	0000012196909
When the control unit replaced, the initialization in necessary for normal operation of power window Refer to PWC-25 . "Work Procedure". CAUTION: The following specified operations cannot be performed under the non-initialized condition. • Auto-up operation • Anti-pinch function	system. E
Work Procedure	0000012196910
1.SYSTEM INITIALIZATION	
Perform system initialization. Refer to PWC-26 , "Description".	
>> GO TO 2. 2.CHECK ANTI-PINCH FUNCTION	F
Check anti-pinch function. Refer to PWC-27, "Description".	
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PWC-25 Revision: November 2015 2016 JUKE

SYSTEM INITIALIZATION

< BASIC INSPECTION >

SYSTEM INITIALIZATION

Description INFOID:0000000012196911

- Disconnection and connection of battery cable from negative terminal.
- · When power window main switch replaced.
- Electric power supply to power window main switch or power window motor (driver side) is interrupted by blown fuse or disconnection and connection of the negative terminal of battery, etc.
- · Disconnection and connection of power window main switch harness connector.
- · Removal of power window motor (driver side) from regulator assembly.
- Operation of regulator assembly as an independent unit.
- · Removal and installation of glass.
- · Removal and installation of door glass run.

CAUTION:

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

- Auto-up operation
- Anti-pinch function

Work Procedure

INFOID:0000000012196912

1.STEP 1

- 1. Close the door.
- 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 2 seconds or more.
- 5. Check that AUTO-UP function operates normally.

>> GO TO 2.

2.STEP 2

Check anti-pinch function. Refer to PWC-27, "Description".

>> END

CHECK ANTI-PINCH FUNCTION

< BASIC INSPECTION >

CHECK ANTI-PINCH FUNCTION

Description INFOID:000000012196913

If any of the following operations are performed, the initialization is necessary for normal operation of antipinch function. Refer to <u>PWC-27</u>, "Work <u>Procedure"</u>.

- Disconnection and connection of battery cable from negative terminal.
- · When power window main switch replaced.
- Electric power supply to power window main switch or power window motor (driver side) is interrupted by blown fuse or disconnection and connection of the negative terminal of battery, etc.
- Disconnection and connection of power window main switch harness connector.
- Removal of power window motor (driver side) from regulator assembly.
- Operation of regulator assembly as an independent unit.
- · Removal and installation of glass.
- Removal and installation of door glass run.

Work Procedure

INFOID:0000000012196914

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1. CHECK ANTI-PINCH FUNCTION

- Close the door.
- 2. Fully open the door window.
- 3. Place a piece of wood near fully closed position.
- 4. Close door glass completely with AUTO-UP.
- 5. Check the following conditions.
- Check that glass lowers for approximately 150 mm (5.9 in) without pinching piece of wood and stops.
- Check that glass does not rise not 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.

>> END

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT POWER WINDOW MAIN SWITCH

POWER WINDOW MAIN SWITCH: Diagnosis Procedure

INFOID:0000000012196915

1.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY

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

	+) w main switch	(-)	Cor	ndition	Voltage (V)
Connector	Terminal				
D35	10	Ground	Ignition switch	ON	9 – 16
D36	18	Giouna	ignition switch	OFF	9 – 10

Is the inspection result normal?

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

2.CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

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

В	CM	Power windo	w main switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M69	68	D35	10	Existed
MO9	69	D36	18	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	68	Giodila	Not existed
WOS	69		Not existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace harness.

3.check power window main switch ground circuit

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

Power window	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D35	1		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE): Diagnosis Procedure

INFOID:0000000012196916

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$1. {\sf CHECK} \ {\sf FRONT} \ {\sf POWER} \ {\sf WINDOW} \ {\sf SWITCH} \ ({\sf PASSENGER} \ {\sf SIDE}) \ {\sf POWER} \ {\sf SUPPLY}$

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

(+)		
Front power window s	witch (passenger side)	(-)	Voltage (V)
Connector	Terminal		
D10	1	Ground	9 – 16

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE) POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector.
- 3. 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
M69	68	D10	1	Existed

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	68		Not existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

>> Repair or replace harness.

REAR POWER WINDOW SWITCH

REAR POWER WINDOW SWITCH: Diagnosis Procedure

INFOID:0000000012196917

1. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY

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

	(+)			
Rear power window switch			(-)	Voltage (V)
Con	nector	Terminal		
LH	D63	1	Ground	9 – 16
RH	D43	, I	Giouria	9 – 10

Is the inspection result normal?

>> INSPECTION END YES

NO >> GO TO 2.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK REAR POWER WINDOW SWITCH POWER SUPPLY CIRCUIT

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

В	СМ	Rear power window switch		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
Meo	M69 68	LH	D63	1	Evisted
MOS		RH	D43	"	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	68		Not existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace harness.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Component Function Check

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-31, "Diagnosis Procedure".

Diagnosis Procedure

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

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

(+)			Condition		Voltage (V)
Front power window switch (passenger side)		(-)			
Connector	Terminal				
	2	Ground	Power window main switch (passenger side switch)	NEUTRAL	0 – 1
D10				UP	9 – 16
DIO	2			NEUTRAL	0 – 1
	3		Switch	DOWN	9 – 16

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

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

Front power window switch (passenger side) Power window r		w main switch	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
D10	2	D35	16	Existed	
טוט	3	D33	2	LAISIEU	

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

Front power window s	witch (passenger side)		Continuity
Connector	Terminal	Ground	Continuity
D10	2	Giodila	Not existed
DIO	3	-	Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-54, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-32, "Component Inspection".

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FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window switch (passenger side). Refer to PWC-54, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000012196920

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

- Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check front power window switch (passenger side) terminals under the following conditions.

- 	Front power window switch (passenger side) Terminal		Continuity
1	5	UP	
3	4	UP UP	
2	5	NEUTRAL NEUTRAL	Existed
3	4	NEOTIVAL	LXISteu
1	4	DOWN	
2	5	BOWN	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side). Refer to PWC-54, "Removal and Installation".

REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER WINDOW SWITCH

Component Function Check

1. CHECK FUNCTION

Check rear power window motor (LH/RH) operation with rear power window switch (LH/RH) and pawer window main switch (rear LH/RH switch).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-33, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK REAR POWER WINDOW SWITCH INPUT SIGNAL

- 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.

Rear	(+) power windo	w switch	(-)	Condition		Voltage (V)
Conr	nector	Terminal				
		2			NEUTRAL	0 – 1
	Dea		Power window main	Power window main switch (rear LH switch)	UP	9 – 16
LH	LH D63 —				NEUTRAL	0 - 1
		3		DOWN	9 – 16	
			Ground	Ground	NEUTRAL	0 - 1
	RH D43 3		Power window main	UP	9 – 16	
RH				switch (rear RH switch)	NEUTRAL	0 - 1
		,	DOWN	9 – 16		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REAR POWER WINDOW SWITCH CIRCUIT

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

R	Rear power window switch			Power window main switch		
Con	Connector Terminal		Connector	Terminal		
LH	D63	2		9		
LH	D03	3	D35	8	Existed	
DU	RH D43	D42	2	D35	7	Existed
КП		3		6		

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

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REAR POWER WINDOW SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Rear power window switch			Continuity
Conr	Connector			Continuity
LH	D63	2	Ground	
LIT	D03	3	Giouna	Not existed
RH	DII DA2	2		Not existed
КП	D43	3		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-54, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK REAR POWER WINDOW SWITCH

Check rear power window switch.

Refer to PWC-34, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear power window switch. Refer to <u>PWC-54</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000012196923

1. CHECK REAR POWER WINDOW SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch connector.
- 3. Check rear power window switch terminals under the following conditions.

Rear power window switch Terminal		- Condition	Continuity
1	5	UP	
3	4	- OF	
2	5	NEUTRAL	Existed
3	4	NEOTIVAL	LXISteu
1	4	DOWN	
2	5	DOWN	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear power window switch. Refer to PWC-54, "Removal and Installation".

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

POWER WINDOW MOTOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

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1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-35, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000012196925

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

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

(+)			(-) Condition		Voltage (V)
Front power window motor (driver side)		(-)			
Connector	Terminal				
D37	2			NEUTRAL	0 - 1
	2	Ground	Power window main switch	UP	9 – 16
	2	Ground	(driver side switch)	NEUTRAL	0 - 1
	3			DOWN	9 – 16

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-20, "Disassembly and Assembly"</u>.

NO >> GO TO 2.

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

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

Front power window motor (driver side)		Power windo	Continuity		
Connector	Terminal	Connector Termina		Continuity	
D37	2	D35	17	Evisted	
D31	3	D33	19	Existed	

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

Front power window	v motor (driver side)		Continuity
Connector	Terminal	Ground	
D37	2	Giodila	Not existed
	3		INOL GAISIEU

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-54, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE: Component Function Check

INFOID:0000000012196926

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-36, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000012196927

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

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

(+) Front power window motor (passenger side)		(-)	Condition		Voltage (V)	
Connector	Terminal					
D16	1	Ground	Front power window switch	NEUTRAL	0 – 1	
				UP	9 – 16	
	3	Giouna	(passenger side)	NEUTRAL	0 – 1	
	3				DOWN	9 – 16

Is the inspection result normal?

YES >> Replace front power window motor (passenger side). Refer to <u>GW-20, "Disassembly and Assembly"</u>.

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.
- 3. Check continuity between front power window motor (passenger side) harness connector and front power window switch (passenger side) harness connector.

Front power window motor (passenger side)		Front power window s	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D16	1	D10	5	Existed
D10	3	D10	4	LAISIEU

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

Front power window	motor (passenger side)		Continuity
Connector	Terminal	Ground	
D16	1	Ground	Not existed
	3		Not existed

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to <u>PWC-54</u>, "Removal and Installation".

NO >> Repair or replace harness.

REAR LH

POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

REAR LH: Component Function Check

INFOID:0000000012196928

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1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-37, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

INFOID:0000000012196929

1. CHECK REAR POWER WINDOW MOTOR LH INPUT SIGNAL

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

(+) Rear power window motor LH			Condition		
		(-)			Voltage (V)
Connector	Terminal				
	D67 3	Ground	Rear power win- dow switch LH	NEUTRAL	0 – 1
D67				DOWN	9 – 16
Dor				NEUTRAL	0 – 1
				UP	9 – 16

Is the inspection result normal?

YES >> Replace rear power window motor LH. Refer to GW-23, "Disassembly and Assembly".

NO >> GO TO 2.

2.CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

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

Rear power wi	indow motor LH	Rear power window switch LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D67	1	D63	4	Existed
D07	3	D03	5	LAISIEU

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

Rear power wi	indow motor LH		Continuity
Connector	Terminal	Ground	Continuity
D67	1	Giouna	Not existed
D67	3	-	Not existed

Is the inspection result normal?

YES >> Replace rear power window switch LH. Refer to PWC-54, "Removal and Installation".

NO >> Repair or replace harness.

REAR RH

REAR RH: Component Function Check

INFOID:0000000012196930

1. CHECK FUNCTION

Revision: November 2015 PWC-37 2016 JUKE

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POWER WINDOW MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Check rear power window motor RH operation with rear power window switch RH and power window main switch (rear RH switch).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-38, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

INFOID:0000000012196931

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.

(+)			Condition		Voltage (V)
Rear power wind	Rear power window motor RH				
Connector	Terminal				
	D47 3	- Ground	Rear power window switch RH	NEUTRAL	0 – 1
D47				DOWN	9 – 16
D47				NEUTRAL	0 - 1
				UP	9 – 16

Is the inspection result normal?

YES >> Replace rear power window motor RH. Refer to GW-23, "Disassembly and Assembly".

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 motor RH harness connector and rear power window switch RH harness connector.

Rear power wi	ndow motor RH	Rear power window switch RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D47	1	D43	4	Existed
D 4 1	3	D43	5	LAISIEU

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

Rear power w	indow motor RH		Continuity
Connector	Terminal	Ground	Continuity
D47	1	Ground	Not existed
D41	3		NOT EXISTED

Is the inspection result normal?

YES >> Replace rear power window switch RH. Refer to PWC-54, "Removal and Installation".

NO >> Repair or replace harness.

ENCODER CIRCUIT

Component Function Check

INFOID:0000000012196932

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1. CHECK FUNCTION

Check that front driver side door glass perform AUTO UP/DOWN operation normally when power window main switch is operated.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to PWC-39, "Diagnosis Procedure".

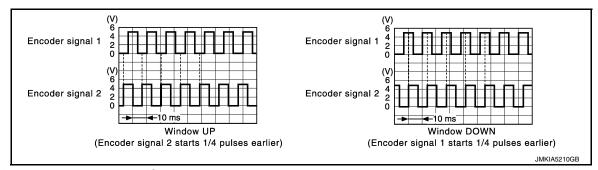
Diagnosis Procedure

INFOID:0000000012196933

1. CHECK ENCODER PULSE SIGNAL

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

(+) Power window main switch		(-)	Signal (Reference value)	
Connector	Terminal		(1.0.0.0.000 10.00)	
D35	4	Ground	Refer to the following signal	
Б33	5	Giouria	Refer to the following signal	



Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-54, "Removal and Installation".

NO >> GO TO 2.

2.CHECK ENCODER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect power window main switch connector and front power window motor (driver side) connector.
- 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
D35	4	D37	5	Existed
D00	5	D31	4	LAISIEU

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

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D35	4	Giodila	Not existed
	5		Not existed

Is the inspection result normal?

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ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK ENCODER POWER SUPPLY

- 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.

(+)		
Front power window	w motor (driver side)	(-)	Voltage (V)
Connector	Connector Terminal		
D37	1	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY 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 motor (driver side) harness connector.

Power window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D35	14	D37	1	Existed

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

Power windo	w main switch		Continuity
 Connector Terminal		Ground	Continuity
 D35	14		Not existed

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-54, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK ENCODER GROUND CIRCUIT 1

- 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 motor (driver side) harness connector.

Power window main switch		Front power window motor (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D35	12	D37	6	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK ENCODER GROUND CIRCUIT 2

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

Power windo	vindow main switch		Continuity
Connector	Terminal	Ground	Continuity
D35	12		Existed

ENCODER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace front power window motor (driver side). Refer to <u>GW-20, "Disassembly and Assembly"</u>.

NO >> Replace power window main switch. Refer to PWC-54, "Removal and Installation".

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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:0000000012196934

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to BCS-87, "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-28, "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-45, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE POWER WINDOW DOES NOT OPERATE

DRIVER SIDE POWER WINDOW DOES NOT OPERATE	
Diagnosis Procedure	INFOID:000000012196935
.CHECK FRONT POWER WINDOW MOTOR (DRIVER SIDE)	
Check front power window motor (driver side). Refer to PWC-35 , "DRIVER SIDE: Component Function Check".	
s the inspection result normal? YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
CONFIRM THE OPERATION	
Confirm the operation again. s the result normal?	
YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".	
NO >> GO TO 1.	

Revision: November 2015 PWC-43 2016 JUKE

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED

WHEN BOTH POWER WINDOW MAIN SWITCH AND FRONT POWER WINDOW SWITCH ARE OPERATED: Diagnosis Procedure

1. CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

Check front power window switch (passenger side).

Refer to PWC-31, "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-36, "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-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED

WHEN FRONT POWER WINDOW SWITCH (PASSENGER SIDE) IS OPERATED :

Diagnosis Procedure

INFOID:0000000012196937

 $1.\mathsf{check}$ 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-29, "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-31, "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-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

Revision: November 2015 PWC-44 2016 JUKE

FRONT PASSENGER SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Proced	
INFO.	ID:0000000012196938
1.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	
Check front power window switch (passenger side).	
Refer to PWC-31, "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-45, "Intermittent Incident".	
NO >> GO TO 1.	

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH SIDE POWER WINDOW DOES NOT OPERATE WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH LH ARE OPERATED: Diagnosis Procedure

1. CHECK REAR POWER WINDOW SWITCH LH

Check rear power window switch LH.

Refer to PWC-33, "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-37, "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-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED

WHEN REAR POWER WINDOW SWITCH LH IS OPERATED: Diagnosis Procedure

INFOID:0000000012196940

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

Check rear power window switch LH power supply and ground circuit.

Refer to PWC-29, "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 LH

Check rear power window switch LH.

Refer to PWC-33, "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-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

REAR LH SIDE POWER WINDOW DOES NOT OPERATE

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REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR RH SIDE POWER WINDOW DOES NOT OPERATE WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH ARE OPERATED

WHEN BOTH POWER WINDOW MAIN SWITCH AND REAR POWER WINDOW SWITCH RH ARE OPERATED: Diagnosis Procedure

1. CHECK REAR POWER WINDOW SWITCH RH

Check rear power window switch RH.

Refer to PWC-33, "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-37, "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-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED

WHEN REAR POWER WINDOW SWITCH RH IS OPERATED: Diagnosis Procedure

INFOID:0000000012196943

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

Check rear power window switch RH power supply and ground circuit.

Refer to PWC-29, "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 RH

Check rear power window switch RH.

Refer to PWC-33, "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-45, "Intermittent Incident".

NO >> GO TO 1.

WHEN POWER WINDOW MAIN SWITCH IS OPERATED

Revision: November 2015 PWC-48 2016 JUKE

REAR RH SIDE POWER WINDOW DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
WHEN POWER WINDOW MAIN SWITCH IS OPERATED: Diagnosis Procedure	
INFOID:000000	00012196944
1.CHECK REAR POWER WINDOW SWITCH RH	
Check rear power window switch RH.	
Refer to PWC-33, "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 <u>GI-45, "Intermittent Incident"</u> . NO >> GO TO 1.	
NO >> GO TO 1.	
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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

INFOID:0000000012196945

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to PWC-26, "Description".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK ENCODER CIRCUIT

Check encoder circuit.

Refer to PWC-39, "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-45, "Intermittent Incident".

NO >> GO TO 1.

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

ANTI-PINCH SYSTEM DOES NOT OPERATE NORMALLY Diagnosis Procedure	INFOID:00000001219694
1. CHECK POWER WINDOW AUTO OPERATION	
Check AUTO operation when anti-pinch function does not operate. Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Refer to PWC-50 , "Diagnosis Procedure". 2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".	
NO >> GO TO 1.	

Revision: November 2015 PWC-51 2016 JUKE

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

POWER WINDOW RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000012196947

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to DLK-77, "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-45. "Intermittent Incident".

NO >> GO TO 1.

POWER WINDOW LOCK SWITCH DOES NOT FUNCTION < SYMPTOM DIAGNOSIS > POWER WINDOW LOCK SWITCH DOES NOT FUNCTION Α Diagnosis Procedure INFOID:0000000012196948 1. REPLACE POWER WINDOW MAIN SWITCH В Replace power window main switch. C >> Refer to PWC-54, "Removal and Installation". D Е F G Н

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POWER WINDOW MAIN SWITCH

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

POWER WINDOW MAIN SWITCH

Removal and Installation

INFOID:0000000012196949

REMOVAL

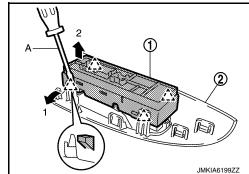
- 1. Remove power window main switch finisher. Refer to INT-13, "Removal and Installation".
- 2. Remove power window main switch (1) from power window main switch finisher (2) using remover tool (A).



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

Note the following, and then install in the reverse order of removal.

NOTE:

If power window main switch is replaced or is removed, it is necessary to perform the initialization procedure. Refer to PWC-26, "Description".