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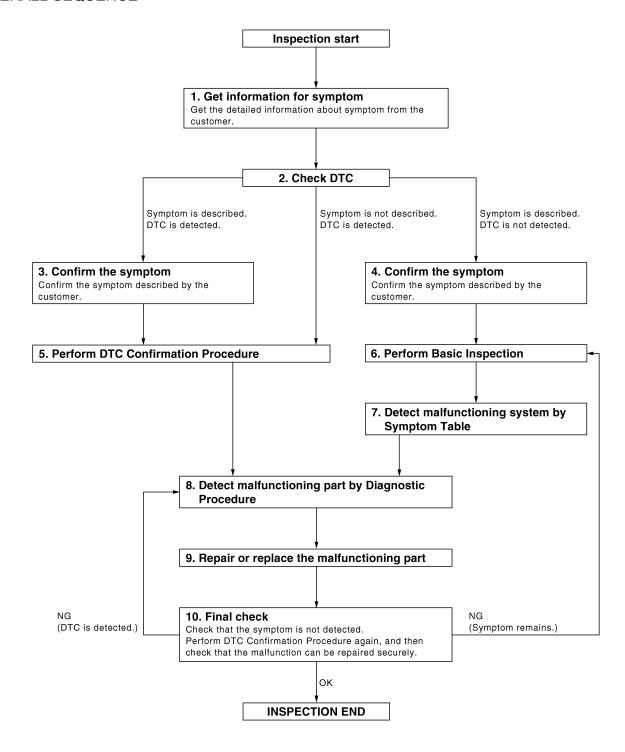
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH SINGLE PANEL SUNROOF]

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2

$\mathbf{2}$. CHECK DTC

- Check DTC.
- Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data.
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3

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

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

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

>> GO TO 5

f 4 . CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

>> GO TO 6

PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to BCS-79, "DTC Inspection Priority Chart" and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 8

NO >> Refer to GI-39, "Intermittent Incident".

$oldsymbol{6}$. PERFORM BASIC INSPECTION

Perform RF-7. "BASIC INSPECTION: Special Repair Requirement".

Inspection End>>GO TO 7

/ . DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

>> GO TO 8

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH SINGLE PANEL SUNROOF]

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

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

YES >> GO TO 9

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

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

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

>> GO TO 10

10. FINAL CHECK

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

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8

YES (Symptom remains)>>GO TO 6

NO >> Inspection End.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH SINGLE PANEL SUNROOF]

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000005461804

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MEMORY RESET PROCEDURE

1. Please observe the following instructions at confirming the sunroof operation.

NOTE:

Do not disconnect the electronic power while the sunroof is operating or within 5 seconds after the sunroof stops (to wipe-out the memory of lid position and operating friction).

- 2. Initialization of system should be conducted after the following conditions.
 - When the sunroof motor is changed.
 - When the sunroof does not operate normally (incomplete initialization conditions).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:000000005461805

INITIALIZATION PROCEDURE

If the sunroof does not open or close automatically, use the following procedure to return sunroof operation to normal.

NOTE:

If the sunroof switch is released at any time during step 4, the procedure must be started over again. Leave the ignition switch ON for at least 2 seconds after this procedure.

1. Push the ignition switch to the ON position.

- 2. Hold the sunroof switch in the tilt up position. Release the switch when the sunroof has reached the full tilt
- 3. Hold the sunroof switch in the tilt up position again. After a delay, the sunroof will back up. Release the
- Within 5 seconds of releasing the switch in step 3, hold the sunroof switch in the tilt up position again. The sunroof will move from the full tilt up position, to the open position and back to the close position. Release the switch only when the sunroof has reached the full closed position.

ANTI-PINCH FUNCTION

- 1. Full open the sunroof.
- 2. Place a piece of wood near fully closed position.
- 3. Close the sunroof completely with auto-slide close.

Check that sunroof lowers for approximately 150mm (5.91 in) or 2 seconds without pinching a piece of wood and stops.

CAUTION:

- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Depending on environment and driving conditions, if a similar impact or load is applied to the sunroof it may lower.
- Check that auto-slide operates before inspection when system initialization is performed.
- Perform initial setting when auto-slide operation or anti-pinch function does not operate normally. BASIC INSPECTION

BASIC INSPECTION: Special Repair Requirement

INFOID:0000000005461806

BASIC INSPECTION

1.INSPECTION START

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

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH SINGLE PANEL SUNROOF]

· Battery voltage.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace the malfunctioning parts.

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INFOID:000000005461808

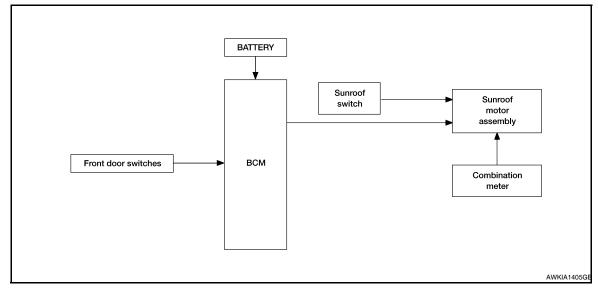
FUNCTION DIAGNOSIS

SUNROOF SYSTEM

System Diagram

INFOID:0000000005461807

SUNROOF



System Description

SUNROOF SYSTEM INPUT/OUTPUT SIGNAL CHART

Item	Input signal to sunroof motor assembly	Sunroof motor function	Actuator	
Suproof quitab	Sunroof switch signal (tilt down or slide open)		Sunroof motor	
Sunroof switch	Sunroof switch signal (tilt up or slide close)	Sunroof control		
Combination meter		-		
BCM	RAP signal			

SUNROOF OPERATION

- · Sunroof motor assembly operates with the power supply that is output from BCM while ignition switch is ON or retained power is operating.
- Tilt up/ down & slide open/ close signals from sunroof switch enable sunroof motor to move arbitrarily.
- Sunroof motor assembly receives a vehicle speed signal from combination meter and controls the sunroof motor torque of tilt down at the time of high speed operation.

AUTO OPERATION

Sunroof AUTO feature makes it possible to slide open and slide close or tilt up and tilt down the sunroof without holding the sunroof switch in the slide open/tilt down or slide close/tilt up position.

RETAINED POWER OPERATION

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

Retained power function cancel conditions

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

ANTI-PINCH FUNCTION

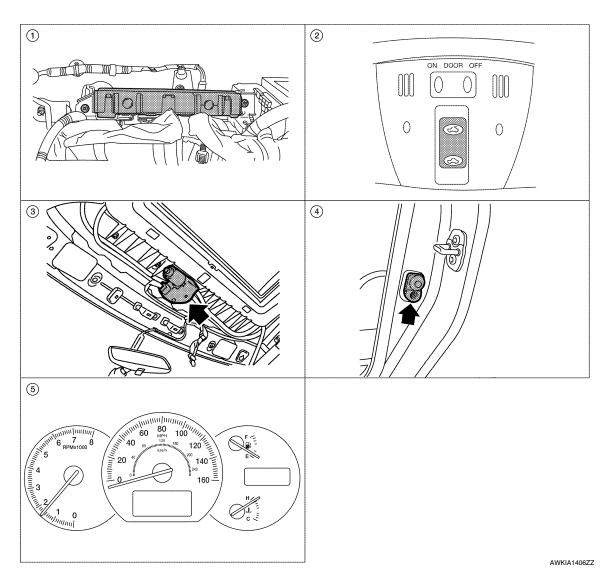
The CPU of sunroof motor assembly monitors the sunroof motor operation and the sunroof position (fully-closed or other) by the signals from sunroof motor.

When sunroof motor detects an interruption during the following slide close and tilt down operation, sunroof switch controls the motor for open and the sunroof will operate until full up position (when tilt down operates) or 150 mm (5.91 in) or more in an open direction (when slide close operates):

• close operation and tilt down when ignition switch is in the "ON" position

Component Parts Location

INFOID:0000000005461809



- BCM M16, M17, M18
 (view with instrument panel removed)
- 4. Front door switch LH B8, RH B108
- 2. Sunroof switch R6
 - Combination meter M24
- 3. Sunroof motor assembly R5

Component Description

INFOID:000000005461810

Component	Function
BCM	Supplies the power supply to sunroof motor assembly.
Sunroof switch	Transmits tilt up/down & slides open/close operation signal to sunroof motor assembly.
Sunroof motor assembly	It is sunroof motor and CPU integrated type that enables tilt up/down & slide open/close by sunroof switch operation

SUNROOF SYSTEM

< FUNCTION DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

Component	Function
Front door switch	Detects door open/close condition and transmits to BCM.
Combination meter	Transmits vehicle speed signal to sunroof motor assembly.

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[WITH SINGLE PANEL SUNROOF]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: Diagnosis Description

INFOID:0000000005511856

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
WORK SUPPORT	Changes the setting for each system function.		
SELF DIAGNOSTIC RESULT	Displays the diagnosis results judged by BCM.		
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.		
DATA MONITOR	The BCM input/output signals are displayed.		
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.		
ECU IDENTIFICATION	The BCM part number is displayed.		
CONFIGURATION	 Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing BCM. 		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

System	Sub system selection item	Diagnosis mode		
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	HEADLAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

COMMON ITEM: CONSULT-III Function

INFOID:0000000005511857

ECU IDENTIFICATION Displays the BCM part No.

SELF-DIAG RESULT

Refer to RF-141, "DTC Index".

RETAINED PWR

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

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

INFOID:0000000005511858

Data monitor

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

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< COMPONENT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT SUNROOF MOTOR ASSEMBLY

SUNROOF MOTOR ASSEMBLY: Description

INFOID:0000000005461814

- BCM supplies power.
- · CPU is integrated in sunroof motor assembly.
- Tilts up/down & slides open/close by sunroof switch operation.
- In order to close sunroof lid certainly with the signal from combination meter at the time of high speed run, the sunroof motor torque at the time of tilt-down operation is controlled.

SUNROOF MOTOR ASSEMBLY : Component Function Check

INFOID:0000000005461815

1. CHECK SUNROOF MOTOR FUNCTION

Do tilt up/down & slide open/close functions operate normally with sunroof switch? Is the inspection result normal?

YES >> Sunroof motor assembly is OK.

NO >> Refer to RF-14, "SUNROOF MOTOR ASSEMBLY: Diagnosis Procedure".

SUNROOF MOTOR ASSEMBLY: Diagnosis Procedure

INFOID:0000000005461816

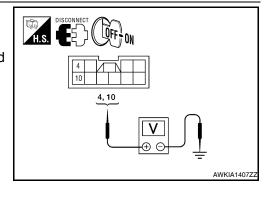
Regarding Wiring Diagram information, refer to RF-60, "Wiring Diagram".

SUNROOF MOTOR ASSEMBLY

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof motor assembly.
- 3. Turn ignition switch ON.
- Check voltage between sunroof motor assembly connector and ground.

Ter			
(+)			Voltage (V)
Sunroof motor assembly connector	Terminal (–)		(Approx.)
R5	4	Ground	Battery voltage
	19	Ground	Battery Voltage



Is the measurement value within the specification?

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

$2.\,$ CHECK GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- Turn ignition switch OFF.
- Check continuity between sunroof motor assembly connector and ground.

Sunroof motor assembly connector	Terminal	Ground	Continuity
R5	8		Yes

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Is the inspection result normal?

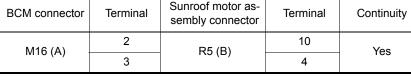
YES >> GO TO 5

NO >> Repair or replace harness.

${f 3}.$ CHECK SUNROOF MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- Check continuity between BCM connector (A) and sunroof motor assembly connector (B).

BCM connector	Terminal	Sunroof motor as- sembly connector	Terminal	Continuity
M16 (A)	2	R5 (B)	10	Yes
WHO (71)	3	No (B)	4	103



Check continuity between BCM connector (A) and ground.

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

Is the inspection result normal?

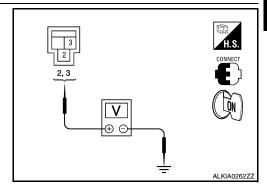
YES >> GO TO 4

NO >> Repair or replace harness.

CHECK BCM OUTPUT SIGNAL

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

	V 14 0.0		
	(+)	(-)	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	(
M16	2	Ground	Battery voltage
	3	Giouna	Ballery Vollage



Is the measurement value within the specification?

YES >> Check condition of harness and connector.

NO >> Replace BCM. Refer to BCS-87, "Removal and Installation".

$oldsymbol{5}$. CHECK SUNROOF SWITCH INPUT SIGNAL

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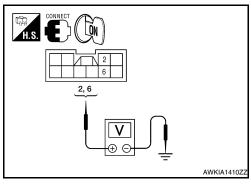
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< COMPONENT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- Connect sunroof motor assembly.
- 2. Turn ignition switch ON.
- 3. Check voltage between sunroof motor assembly connector and ground.

Sunroof mo-	Tern	ninals	0 111	Voltage (V)	
tor assembly connector	(+)	(-)	Condition	(Approx.)	
	6		Sunroof switch is operated TILT DOWN or SLIDE OPEN	0	
R5	R5 Ground	Ground	Other than above	Battery voltage	
2		Sunroof switch is operated TILT UP or SLIDE CLOSE	0		
			Other than above	Battery voltage	



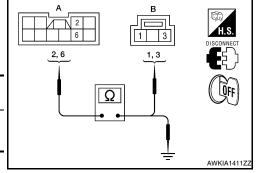
Is the measurement value within the specification?

YES >> GO TO 8 NO >> GO TO 6

6. CHECK SUNROOF SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof motor assembly and sunroof switch.
- 3. Check continuity between sunroof motor assembly connector (A) and sunroof switch connector (B).

Sunroof motor as- sembly connector	Terminal	Sunroof switch connector	Terminal	Continuity
R5 (A)	6	R6 (B)	1	Yes
110 (A)	2	1(0 (D)	3	163



 Check continuity between sunroof motor assembly connector (A) and ground.

Sunroof motor assembly connector	Terminal	Out and	Continuity
D5 (A)	6	Ground	No
R5 (A)	2		INO

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness.

7. CHECK SUNROOF SWITCH GROUND CIRCUIT

Connect sunroof motor assembly.

2. Check continuity between sunroof switch connector and ground.

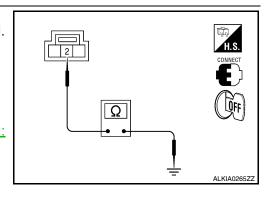
Sunroof switch connector	Terminal	Ground	Continuity
R6	2	Giodila	Yes

Is the inspection result normal?

YES >> Refer to <u>RF-17</u>, "<u>SUNROOF MOTOR ASSEMBLY</u>: <u>Component Inspection</u>".

NO >> Repair or replace harness.

8. CHECK COMBINATION METER SIGNAL

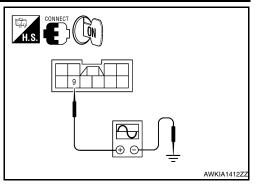


< COMPONENT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- 1. Connect sunroof motor assembly.
- 2. Turn ignition switch ON.
- 3. Check signal between sunroof motor assembly connector and ground with oscilloscope.

	Terminals			
(+)	(-)		
Sunroof motor as- sembly connector	Terminal		Condition	Signal (Reference value)
R5	9	Ground	Speedome- ter operated [When vehi- cle speed is ap- prox.40km/h (25MPH)]	(V) 6 4 2 0



Is the inspection result normal?

YES >> Replace sunroof motor assembly. Refer to <u>RF-84, "Removal and Installation"</u>. After that, refer to <u>RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".</u>

NO >> GO TO 9

9. CHECK COMBINATION METER CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter.
- 3. Check continuity between combination meter connector (A) and sunroof motor assembly connector (B).

Combination meter connector	Terminal	Sunroof motor as- sembly connector	Terminal	Continuity
M24 (A)	30	R5 (B)	9	Yes

Check continuity between combination meter connector (A) and ground.

H.S. DISCONNECT OFF
Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ

Combination meter connector	Terminal	Ground	Continuity
M24 (A)	30		No

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-140, "Removal and Installation".

NO >> Repair or replace harness.

SUNROOF MOTOR ASSEMBLY: Component Inspection

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SUNROOF SWITCH

1. CHECK SUNROOF SWITCH

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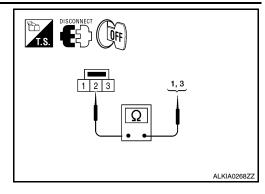
INFOID:0000000005461817

< COMPONENT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof switch.
- 3. Check continuity between sunroof switch terminals.

Terminals		Condition	Continuity
1		Sunroof switch is operated TILT DOWN or SLIDE OPEN	Yes
	2	Other than above	No
3	Sunroof switch	Sunroof switch is operated TILT UP or SLIDE CLOSE	Yes
		Other than above	No



Is the inspection result normal?

YES >> Sunroof switch is OK.

NO >> Replace sunroof switch (map lamp assembly). Refer to INL-97, "Removal and Installation".

SUNROOF MOTOR ASSEMBLY: Special Repair Requirement

INFOID:0000000005461818

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

>> GO TO 2

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Check fitting adjustment. Refer to RF-80, "Inspection".

DOOR SWITCH

Description INFOID:0000000005461819

Detects door open/close condition.

Component Function Check

INFOID:0000000005461820

INFOID:0000000005461821

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1. CHECK FUNCTION

(I) With CONSULT-III

Check door switches DOOR SW-DR, DOOR SW-AS in Data Monitor mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Door switch is OK.

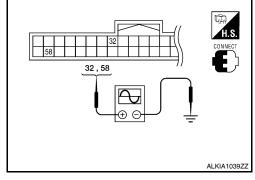
NO >> Refer to RF-19, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to RF-60. "Wiring Diagram".

1. CHECK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



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Terminals						
(+)			Door co	ndition	Voltage (V)	
BCM connector	Terminal	(–)			(Approx.)	
				OPEN	0	
A: M18	58	- Ground	Driver side	CLOSE	(V) 15 10 5 0 JPMIA0011GB	
74. W110			Passenger side	OPEN	0	
	32			CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

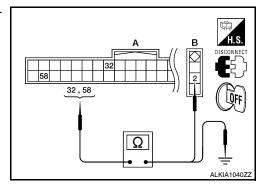
2. CHECK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between BCM connector and door switch connector.

BCM connector Terminal		Door switch connector	Terminal	Continuity
A: M18	58	C: B8 (Driver side)	2	Yes
A. W10	32	C: B108 (Passenger side)	2	165

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58	Ground	No
A. WTO	32		INO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Refer to RF-21, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

>> Inspection End.

Component Inspection

INFOID:0000000005461822

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1. CHECK DOOR SWITCH

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

Terr	ninal	Door switch condition	Continuity	
Door	switch	Door switch condition		
2	Ground part of	Pressed	No	
2	door switch	Released	Yes	

DISCONNECT ALKIA0747ZZ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
ED MIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED WACHED OW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
FR WIPER IN	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDN CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONALI	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LUDEAMOW	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CW/4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAIVIP SVV Z	Lighting switch 2ND	ON
DA COINIC CIAI	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC CW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD SW AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD CW DD	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD SW DI	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

< ECU DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

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Monitor Item	Condition	Value/Status
CDL LOCK SW	Other than power door lock switch LOCK	OFF
SDE LOOK SW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
ODE UNLOCK SW	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
NET CTL LK-SW	Driver door key cylinder LOCK position	ON
CEV CVI LINI CVI	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
IAZADD CVA	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
	Trunk lid opener switch OFF	OFF
FR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
	Trunk lid closed	OFF
RNK/HAT MNTR	Trunk lid opened	ON
	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
DIVE MODE ONO	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OF HUAL SENSUR	When outside of the vehicle is dark	Close to 0 V
DEO SW DD	When front door request switch is not pressed (driver side)	OFF
REQ SW-DR	When front door request switch is pressed (driver side)	ON
DEO SW AS	When front door request switch is not pressed (passenger side)	OFF
REQ SW-AS	When front door request switch is pressed (passenger side)	ON
DEO SW DI	When rear door request switch is not pressed (driver side)	OFF
REQ SW-RL	When rear door request switch is pressed (driver side)	ON
DEO SW DD	When rear door request switch is not pressed (passenger side)	OFF
REQ SW-RR	When rear door request switch is pressed (passenger side)	ON
250 OW PD (75	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON

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< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
IGN RLY 2-F/B	Ignition switch OFF or ACC	OFF
ION INEL 2-17D	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
ACC NEI-17B	Ignition switch ACC or ON	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
DIVARL SW 1	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCE SW	When selector lever is in any position other than P	ON
OFT DAI/ALOVA/	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
0" 100'*	Electronic steering column lock LOCK status	OFF
S/L-LOCK [*]	Electronic steering column lock UNLOCK status	ON
0.4.1.1.1.0.01.4*	Electronic steering column lock UNLOCK status	OFF
S/L-UNLOCK*	Electronic steering column lock LOCK status	ON
*	Ignition switch OFF or ACC	OFF
S/L RELAY-F/B*	Ignition switch ON	ON
1 IN II 14 OEN DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON
1011 511/4 515	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM*	Electronic steering column lock UNLOCK status	ON
	Electronic steering column lock UNLOCK status	OFF
S/L UNLK-IPDM*	Electronic steering column lock LOCK status	ON
	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ*	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK EL AO	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DOME THE COURT	When the engine start is prohibited	RESET
PRMT ENG STRT	When the engine start is permitted	SET
1/5/ 0/M OLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFIDATE	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONTINUID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CON INWIDO	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
OOM INWIDE	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONTINUIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TD 4	The ID of fourth key is not registered to BCM	YET
TP 4	The ID of fourth key is registered to BCM	DONE
TD 2	The ID of third key is not registered to BCM	YET
ΓP 3	The ID of third key is registered to BCM	DONE
TD 0	The ID of second key is not registered to BCM	YET
TP 2	The ID of second key is registered to BCM	DONE
	The ID of first key is not registered to BCM	YET
TP 1	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID REGOT FLT	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGGI FRI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID REGOT KRT	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGOT KLT	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAWF	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
DUZZEK	Tire pressure warning alarm is sounding	ON

^{*:} With electronic steering column lock

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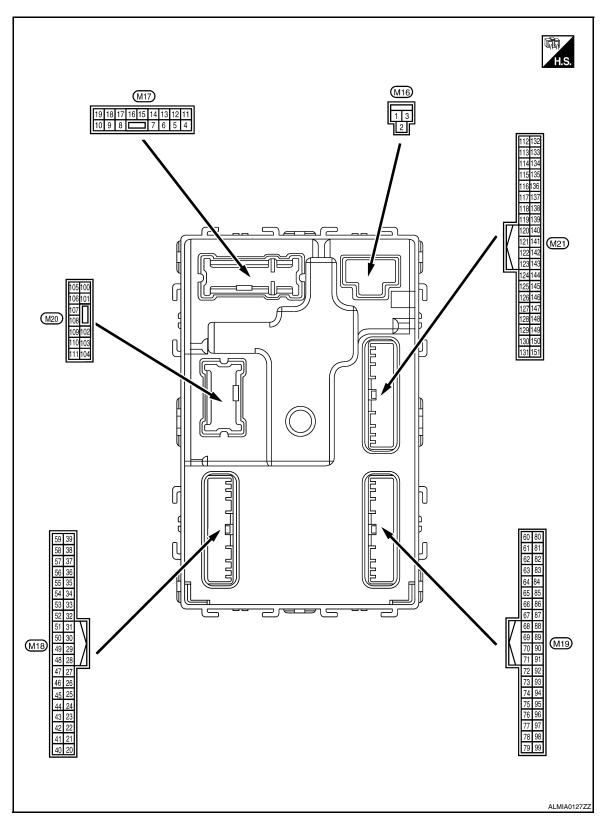
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Terminal Layout



Physical Values

	inal No.	Description				Value							
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)							
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage							
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage							
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage							
4	Cround	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V							
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage							
5	0	Front door RH UN-	0 1 1	For all days BUI	UNLOCK (actuator is activated)	Battery voltage							
(G)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V							
7	0	Oten Inner	0	Otan Iaman	ON	0V							
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage							
8	O	All de see LOCK	Outro	All dage	LOCK (actuator is activated)	Battery voltage							
(V)	Ground	All doors LOCK	Output	utput All doors	Other than LOCK (actuator is not activated)	0V							
9	0	Front door LH UN-	Front door LH UN-	Front door LH UN-	Front door LH UN-	Front door LH UN-	Front door LH UN-	Front door LH UN-	Front door LH UN-	0 1 1	: Front door LH	UNLOCK (actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	Output	at Front door Err	Other than UNLOCK (actuator is not activated)	0V						
10	Ground	Rear door RH and	0 1- 1	Rear door RH	UNLOCK (actuator is activated)	Battery voltage							
(G)		rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V							
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage							
13 (B)	Ground	Ground	_	Ignition switch ON		ov							
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB							
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage							
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V							

< ECU DIAGNOSIS >

Terminal No.		Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					Turn signal switch OFF	0V	В
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0	С
						PKID0926E 6.5 V	D
					Turn signal switch OFF	0V	Е
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0	F
						1 s PKID0926E 6.5 V	G
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage	Н
		CONTROL		ιαπρ	ON When outside of the vehi-	OV	
21	Ground	Optical sensor signal	Input	Ignition switch	cle is bright	Close to 5V	
(P/B)	Cround	Option scrisor signal	input	ON	When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	J
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is released)	0V	RF
(O/L)	Ground	Stop ramp switch 2	прис	Otop lamp switch	ON (brake pedal is depressed)	Battery voltage	
27		Front door lock as-			LOCK status	(V) 15 10 5 0	L
(O)	Ground	sembly LH (unlock sensor)	Input	Front door LH		10 ms JPMIA0011GB	Ν
					UNLOCK status	0V	
29	Granad	Key clot owitch	Innut	When Intelligent K	ley is inserted into key slot	Battery voltage	0
(Y)	Ground	Key slot switch	Input	When Intelligent K	ey is not inserted into key slot	0V	
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0	Р
(V/Y)		-	'	_	ACC or ON	Battery voltage	1
31 (G)	Ground	Rear window defog- ger feedback signal	Input	Rear window de- fogger switch	OFF ON	OV Battery voltage	
(0)		ger reeuback signal		JJ	OI4	Dattery Voltage	

	inal No. e color)	Description		Condition		Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 0 10 ms JPMIA0011GB
					ON (when front door RH opens)	0V
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	OV
38 (GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF ON	5V 0V
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF	F or ACC	0V
41		Engine switch (push		Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	OV
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V
(R)		-		lamp	OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V
(V/W)		power supply output	Jacpac		ACC or ON	5.0V

< ECU DIAGNOSIS >

Terminal No.		Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
47 ¹	Cround	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 • • 0.2s OCC3681D	B
(G/O)		er signal	Output	ÖN	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E
48 (R/G)	Ground	Selector lever trans- mission range switch	Input	Selector lever	P or N position Except P and N positions	12.0V 0V	G
		signal			ON ON	0V	Н
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB	J
					OFF	Battery voltage	RF
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND Turn signal switch RH	0V (V) 15 10 2 ms JPMIA0031GB 10.7V	L M
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	0V (V) 15 10 2 ms JPMIA0032GB 10.7V	O

< ECU DIAGNOSIS >

	inal No.	Description				Value	
	e color)	Signal name	Input/	Condition		Value (Approx.)	
(+)	(-)	-	Output		All switch OFF (Wiper intermittent dial 4)	0V	
					Front washer switch ON (Wiper intermittent dial 4)	(V)	
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB 10.7V	
					All switch OFF	0V	
					Front wiper switch INT	0.0	
F2				Combination	Front wiper switch LO	(V)	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB	
						10.7V	
					All switch OFF	0V	
					Front fog lamp switch ON	(V)	
				Combination	Lighting switch 2ND	15	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit-	Lighting switch flash-to- pass	5 0	
` '				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
57 ¹ (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (front door LH OPEN)	0V	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)		ger relay	,	fogger	Not activated	0V	

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	Λ
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
60	Crowned	Front console anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	С
(B/R)	Ground	na 2 (-)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	E
61	Ground	Center console an-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	G H
(W/R)	Glound	tenna 2 (+)	Gupu	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J RE
62	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(V)	Glound	RH antenna (-)	Sulput	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	P

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

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	
71	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(L/O)	Clound	receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 1 ms JMKIA0065GB	
75 (R/Y)		Combination switch INPUT 5	Input		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	
	Ground			Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
		Combination switch INPUT 3	Input		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
76 (R/G)	Ground			Combination switch	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0036GB	
` ,					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms 1.3V	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	
77 ² (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed Not pressed	0V Battery voltage	
78 (P)	Ground	CAN-L	Input/ Output		_	_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
					OFF	0V	
80 (R/L)	Ground	Key slot illumination Outpu	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					ON	6.5V Battery voltage	
					OIN	Ballery Vollage	

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	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
(LG)	Ground	Ort malcator lamp	Output	ignition switch	ON	Battery voltage
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)		,			ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85 ³	Cround	Electronic steering	Innut	Electronic steer-	Lock status	0V
(L/O)	Ground	column lock condition No. 1	Input	ing column lock	Unlock status	Battery voltage
86 ³	Cround	Electronic steering	Innut	Electronic steer-	Lock status	Battery voltage
(G/R)	Ground	column lock condition No. 2	Input	ing column lock	Unlock status	0V
87	Ground	Selector lever P posi-	Input	Selector lever	P position	OV
(G/B)	Ground	tion switch	прис	Ocicotol level	Any position other than P	Battery voltage
					ON (pressed)	0V
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0V
					ON (pressed)	OV
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	OV
(Y)	Sibulia	lay control	Output	igilition switch	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94 ³	Ground	Steering wheel lock	Output	Ignition switch	OFF or ACC	Battery voltage
(G/Y)	Ground	unit power supply	Output	igililion switch	ON	OV

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

< ECU DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

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

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
	.,				All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB

< ECU DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

	inal No. e color)	Description				Value	А
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
					LOCK status	Battery voltage	В
99 ³ (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer- ing column lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB	C
					For 15 seconds after UN- LOCK	Battery voltage	Е
					15 seconds or later after UNLOCK	OV	
103	0	To call lid an arian	O. dan d	Tarrell lid	Open (trunk lid opener actuator is activated)	Battery voltage	F
(V)	Ground	Trunk lid opening.	Output	Trunk lid	Close (trunk lid opener actuator is not activated)	0V	G
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	OV	
(V/W)	Ground	Trank room lamp	Catput	Traint room lamp	OFF	Battery voltage	Н
444					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	J
114 (B)	Ground	Trunk room antenna 1 (-)	Output	Ignition switch OFF			
\-/					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	RF L

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

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
`W)		E/R) control		_	ON	OV
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (trunk is open)	0V
132	Ground	Starter motor relay	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage
(R)	Glound	control	Output	ON	When selector lever is in P or N position and the brake is not depressed	0V
140 ⁴	Craund	Engine switch (push	lan. it	Engine switch	Pressed	0V
(L/R)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (BR)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB
					0 "	1.0V
144 (GR)	Ground	Request switch buzz- er	Output	Request switch buzzer	Sounding	0V
					Not sounding	Battery voltage 0V
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed Not pressed	Battery voltage
\-··/					Not pressed	Dattery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 10 ms JPMIA0011GB
					ON (when rear door RH opens)	11.8V 0V

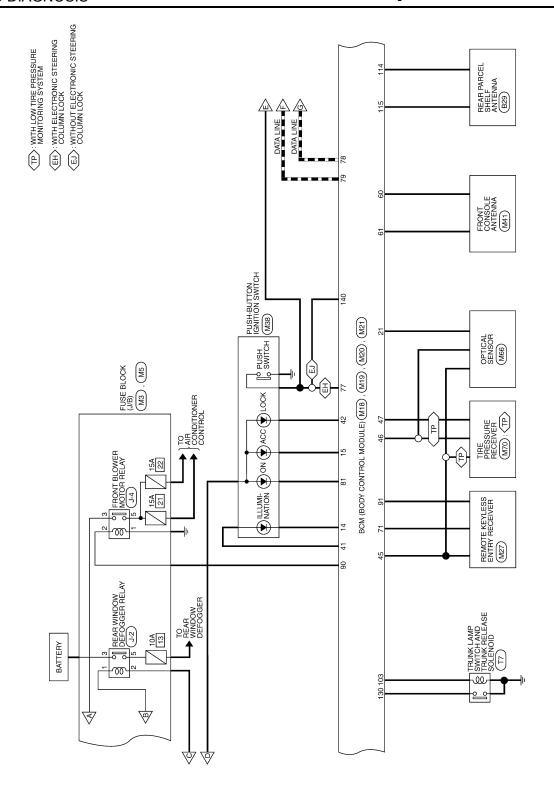
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	inal No.	Description				Value		
(VVire	e color)	Cianal name	Input/		(Approx.)			
(+)	(-)	Signal name	Output			(дриох.)		
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB		
					ON (when rear door LH opens)	0V		

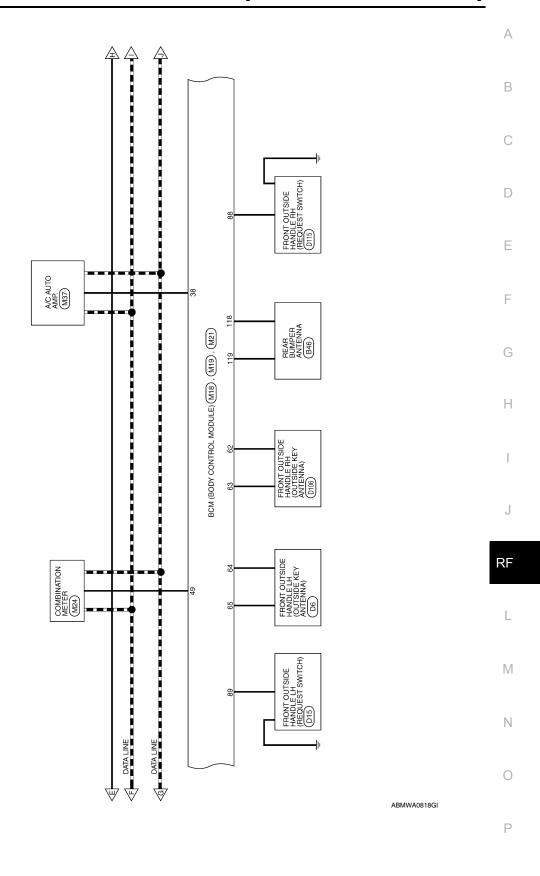
- 1 : With low tire pressure monitoring system
- 2 : With electronic steering column lock
- 3 : Early production
- 4 : Without electronic steering column lock

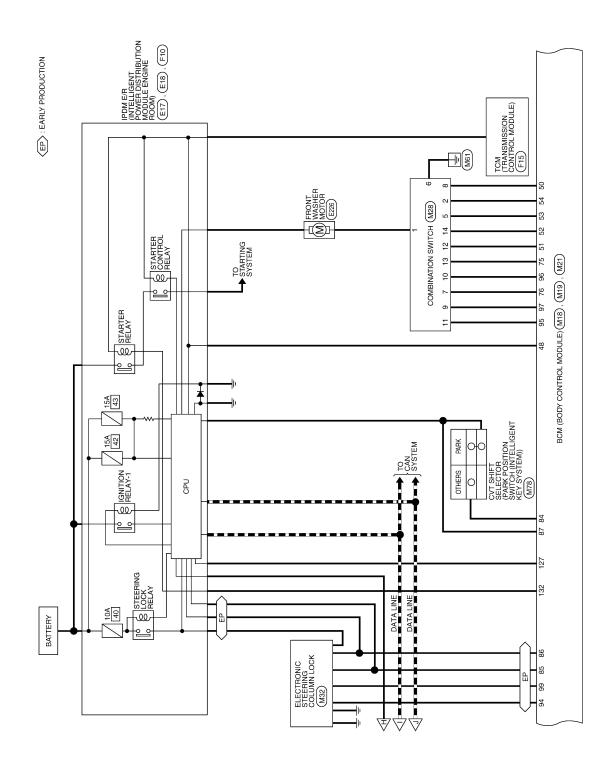
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Wiring Diagram INFOID:0000000005511862 Α В M5 M M 5 FUSE BLOCK (J/B) (M3) (M4) С \triangle D IGNITION SWITCH ON OR START Е H F TRUNK LID OPENER SWITCH (M75) 300 M21 G 뜽 (M19) 10A M18 Н REAR DOOR SWITCH RH (B116) OPEN M17) KEY SLOT (M40) BCM (BODY CONTROL MODULE) (M16), CLOSED 10A J SWITCH LH B18 CLOSED RF 10A L BCM (BODY CONTROL MODULE) DEPRESSED STOP LAMP SWITCH (E38) CLOSED M RELEASED FRONT DOOR B8 OPEN Ν CLOSED 10A 0 40**A** BATTERY Р



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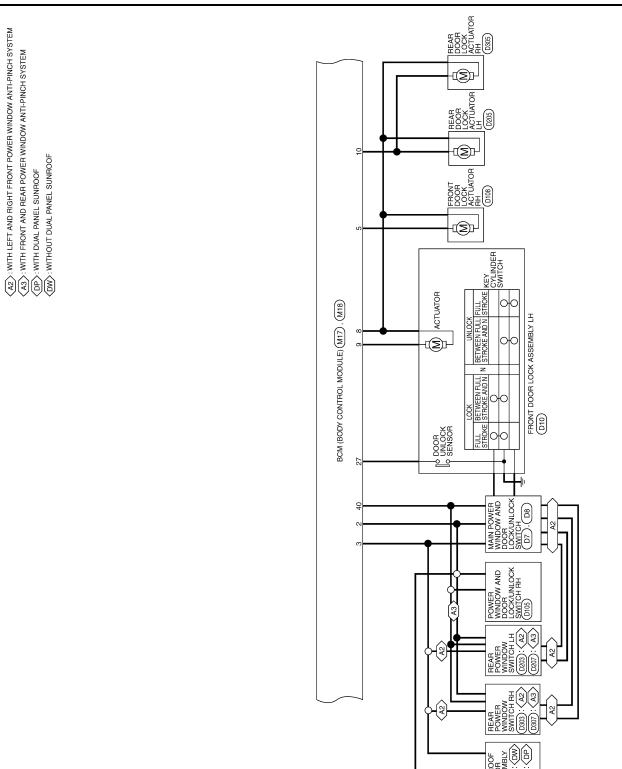
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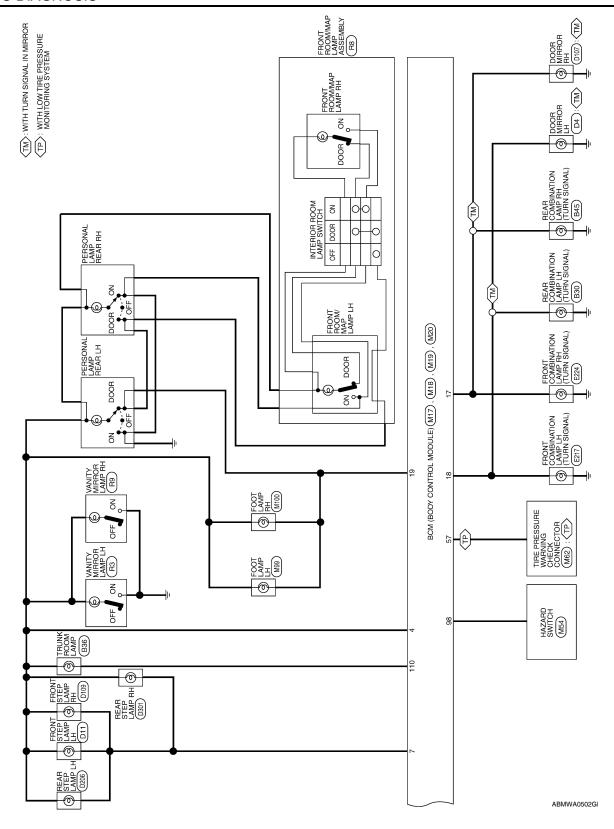
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Terminal No. Wire	Color of Wire	Signal Name
10	g	DOOR UNLOCK OUTPUT (RR/RL)
-	Y/R	BAT BCM FUSE
12	ı	-
13	В	GND1
14	GR/W	LOW SIDE PUSH LED
15	J//	ACC LED
16	_	_
17	G/B	FR FLASHER
18	G/Y	FL FLASHER
19	Y	ROOM LAMP CONT

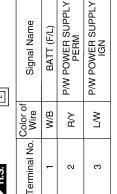
Signal Name	GND RF2 A/L	A/L POWER SUPPLY 5V	RF2 TUNER SIGNAL	SHIFT N/P/ NEUTRAL SW	IMMO LED (SECURITY INDICATOR)	OUTPUT 5	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT4	-	I	TPMS MODE	DR DOOR SW	REAR DEFOGGER
Color of Wire	۵	W/N	G/O	R/G	9	LG/B	N/	G/B	LG/R	G/Y	1	1	8	SB	G/R
erminal No.	45	46	47	48	49	50	51	52	53	54	22	56	22	58	29

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

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Terminal No. Wire	Color of Wire	Signal Name
4	M/d	R/L POWER SUPP
5	ŋ	DOOR UNLOCK OUTPUT AS
9	_	_
7	R/W	STEP LAMP CON
8	^	DOOR LOCK OUTPUT ALL
6	L	DOOR UNLOCK OUTPUT (DR/FL)

Signal Name	DOOR LOCK STATUS DR	1	FOB IN SW 1	ACC F/B	IGN F/B	AS DOOR SW 1	ı	ı	-	1	TRUNK CANCEL SW	REAR DEFOGGER SW	-	PW K-LINE	RING LED	S/L LOCK LED	1	-
Color of Wire	0	ı	>	λ/\	ŋ	B/B	ı	ı	Ι	ı	0	GR/W	ı	Y/G	Μ	ш	1	1
Terminal No.	27	28	59	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44

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



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

			1								
	1 20	41 40									
	24 23 22 21	4	l								
	22	42				-					
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	27			l ig		6			וַּ		BRAKE SW2
- 117	28	52 51 50 49 48 47		Signal Name		A/L SIGNAL TYPE 1			BRAKE SW1		BF
- 17		49				7					
- 11	31 30 29	20				⋖					
- 11\	<u></u>	15									
	8	25		ō 0					>		٠.
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ιń	37	58 57		-⊆	8	2	22	23	24	25	26
H.S.	38	28		Terminal No. Wire							
7	39	59		l e							

ABMIA1331GB

BCM (BODY CONTROL MODULE) CONNECTORS

Revision: November 2009

Signal Name	AT DEVICE OUT	S/L CONDITION 1	S/L CONDITION 2	SHIFT P/ASCD CANCEL SW	AS REQUEST SW	DR REQUEST SW	BLOWER FAN RELAY	RF POWER SUPPLY 12V	I	1	S/L POWER SUPPLY 12V	INPUT 1	INPUT 4	INPUT 2	HAZARD SW	S/L K-LINE
Color of Wire	Y/R	9	G/R	G/B	ш	æ	>	L/R	I	ı	G/Y	W/A	P/B	B/B	G/0	ځا
Terminal No.	84	85	98	28	88	68	06	91	92	93	94	98	96	26	86	66

Signal Name	1	FOB READER CLOCK	FOB READER DATA	IGN REL OUTPUT 2	RF1 TUNER SIGNAL	1	-	1	INPUT 5	INPUT 3	ENG START SW	CAN-L	CAN-H	FOB SLOT ILLUMINATION	IGN ON LED	ı	ACC CONT
Color of Wire	1	0/9	0	B/B	9	_	_	1	R/Y	B/G	BR	Ь	Т	R/L	ГG	_	٦
Terminal No.	29	89	69	70	71	72	73	74	75	9/	77	78	79	80	81	82	83

Connector No. M19	Ĕ	e S	ō	ž			Ξ	S											
Connector Name BCM (BODY CONTROL MODULE)	Ĕ	ect	ō	Ž	Ĕ	0	88	ΝĒ	BCM (BOE MODULE)		≿	8	Ż	Ĕ	占				
Connector Color BLACK	ב"	ect	ō	ပြ	<u>ö</u>	H	ᅵద	18	×									_	
 優	H.S.								l IN	I IV	l 117								
79	79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60	77	9/	75	74	73	72	71	20	69	89	29	99	65	64	83	62	61	99
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	99	98		Z	A	A	Ä	<u>ښ</u>	Ж	Ä	1
	29	87		Signal Name	ROOM ANT 2 B	ROOM ANT 2 A	AS DOOR ANT B	AS DOOR ANT A	DR DOOR ANT B	DR DOOR ANT A	
T	89	88) jg	2	2	Õ	Ď			
/	69	88		",	Ж	Ä	AS	AS	DH	Н	
	20	90					1	1	_	_	
\	71	91									
Ì	72	92		٥٥	~	æ					
	73	93		Color of Wire	B/R	W/R	>	□	>	Ф	ı
	74	95									
	75	95		o.							
	9/	96		Z							
ıl	77	97		Terminal No.	09	61	62	63	64	65	99
	78	98			_	_	_	-	_	_	_
	79	66		e e							
l			J					_			

Signal Name	ı	ı	1	1	I	1	TRUNK LAMP CONT	ı
Color of Wire	1	1	ı	1	ı	1	M/N	1
Terminal No. Wire	104	105	106	107	108	109	110	111

M20	Connector Name BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

102 103 104	Signal Name	I	-	-	CDL BACK TRUNK
100 101	Color of Wire	I	1	ı	>
S. H	rminal No.	100	101	102	103

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Signal Name	ı	1	Î	Î	ENG START SW W/O ESCL	TRUNK REQUEST SW	ı	l	BUZZER	ı	I	BACK TRUNK OPENER	RR DOOR SW	RL DOOR SW	l	ı
Color of Wire	ı	ı	ı	1	BR	BB	ı	1	GR	ı	1	L'R	B/W	B/B	1	1
Terminal No.	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151

Signal Name	BACK DOOR ANT A	ı	ı	1	ı	ı	1	1	IGN RELAY OUTPUT	ı	I	TRUNK SW	ı	ST RELAY OUTPUT	I	I	1
Color of Wire	BR/W	-	ı	1	ı	ı	1	1	BR/W	ı	1	>	1	Œ	1	1	1
Terminal No.	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Connector No.	M21	Ξ.												
Connector Name BCM (BODY CONTROL MODULE)	BC	ΝÖ	BCM (BOE MODULE)		<u>></u>	8	Ż	ΙΉ	7					
Connector Color GRAY	GF	Ϋ́	,											
H.S.				l I/	l 17							1		
131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112	5 124	123	ᄗ	121	130	9	8	11	116	35	7	113	22	_
151 150 149 148 147 146 14	145 144	143	142 141	14	5	139 138	88	137	138	135	134	\$3	132	
														-
		-										_		

Signal Name	1	ı	TRUNK ANT 1 B	TRUNK ANT 1 A	ı	ı	BACK DOOR ANT B	
Color of Wire	1	1	В	*	ı	ı	0/1	
Terminal No. Wire	112	113	114	115	116	117	118	

Signal Name	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	B/B	W/A	ΓW	R/Y	G/B
Terminal No. Color of Wire	10	1	12	13	14

	COMBINATION SWITCH	ПЕ	10 11 12 13 14	Signal Name	I	OUTPUT 4	OUTPUT 3	-	INPUT 3	OUTPUT 5	INPUT 2
T	me COI	lor WHITE	1 2 8	Color of Wire	R/L	G/Y	LG/R	В	B/G	LG/B	B/B
Connector No.	Connector Name	Connector Color	明.S.	Terminal No.	1	2	5	9	7	8	6

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L*	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM*	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC

Revision: November 2009 RF-53 2010 Maxima

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Display contents of CONSULT	Fail-safe	Cancellation
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2557: VEHICLE SPEED*	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	 Inhibit engine cranking Inhibit electronic steering column lock* 	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION*	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION*	Inhibit electronic steering column lock	5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h or more
B2603: SHIFT POSI STATUS*	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever transmission range switch signal: Except P and N positions (0 V)
B2604: TRANSMISSION RANGE SWITCH [*]	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled Status 1 Ignition switch is in the ON position Selector lever transmission range switch signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever transmission range switch signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: TRANSMISSION RANGE SWITCH*	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever transmission range switch signal: Except P and N positions (0 V) - Transmission range switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever transmission range switch signal: P or N position (battery voltage) - Transmission range switch signal (CAN): ON
B2606: S/L RELAY*	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)

< ECU DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY*	Inhibit engine cranking	 500 ms after the following CAN signal communication status has become consistent Electronic steering column lock relay signal (Request signal) Electronic steering column lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS*	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS [*]	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM*	Inhibit engine cranking	1 second after the electronic steering column lock unit power supply output control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)

^{*:} With electronic steering column lock

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	Ν
1	B2562: LO VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	0
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM	Р

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INFOID:0000000005511864

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Priority	DTC
4	B2013: ID DISCORD BCM-S/L* B2014: CHAIN OF S/L-BCM* B2555: GINTION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2603: SHIFT POSITION B2604: TRANSMISSION RANGE SWITCH B2605: TRANSMISSION RANGE SWITCH B2606: S/L RELAY* B2606: S/L RELAY* B2607: S/L RELAY* B2608: STARTER RELAY B2609: S/L STATUS* B2609: S/L STATUS* B2609: STEERING LOCK UNIT* B2600: STEERING LOCK UNIT* B2600: STEERING LOCK UNIT* B2601: SATE SIG LOST B2612: S/L STATUS* B2611: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM* B2611: PUSH-BTN IGN SW B2661: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U00415: VEHICLE SPEED SIG
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RL C1711: [OHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [POESSDATA ERR] RR C1712: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1723: [CONTROL UNIT
	B2622: INSIDE ANTENNA

^{*:} With electronic steering column lock

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DTC Index

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-36
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-37
U0415: VEHICLE SPEED SIG	_	_	_	BCS-38
B2013: ID DISCORD BCM-S/L*	×	_	_	SEC-39
B2014: CHAIN OF S/L-BCM*	×	_	_	<u>SEC-40</u>
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-43</u>
B2191: DIFFERENCE OF KEY	×	_	_	SEC-46
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-47
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-48
B2553: IGNITION RELAY	_	_	_	PCS-55
B2555: STOP LAMP	_	_	_	SEC-49
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-52</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-54</u>
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-55</u>
B2562: LOW VOLTAGE	_	_	_	BCS-39
B2601: SHIFT POSITION	×	×	_	<u>SEC-56</u>
B2602: SHIFT POSITION	×	×	_	<u>SEC-59</u>
B2603: SHIFT POSI STATUS	×	×	_	SEC-62
B2604: TRANSMISSION RANGE SWITCH	×	×	_	SEC-65
B2605: TRANSMISSION RANGE SWITCH	×	×	_	SEC-67
B2606: S/L RELAY*	×	×	_	SEC-69
B2607: S/L RELAY*	×	×	_	SEC-70
B2608: STARTER RELAY	×	×	_	SEC-72
B2609: S/L STATUS [*]	×	×	_	<u>SEC-74</u>
B260A: IGNITION RELAY	×	×	_	PCS-57
B260B: STEERING LOCK UNIT*	_	×	_	SEC-78
B260C: STEERING LOCK UNIT*	_	×	_	SEC-79
B260D: STEERING LOCK UNIT*	_	×	_	SEC-80
B260F: ENG STATE SIG LOST	×	×	_	SEC-81
B2612: S/L STATUS*	×	×	_	SEC-83
B2614: ACC RELAY CIRC	_	×	_	PCS-59

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2615: BLOWER RELAY CIRC	_	×	_	PCS-62
B2616: IGN RELAY CIRC	_	×	_	PCS-65
B2617: STARTER RELAY CIRC	×	×	_	PCS-65
B2618: BCM	×	×	_	PCS-68
B2619: BCM*	×	×	_	SEC-89
B261A: PUSH-BTN IGN SW	_	×	_	SEC-90
B2622: INSIDE ANTENNA	_	_	_	DLK-60
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	_	<u>SEC-82</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-48</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-48</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-48</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-48</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-14</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-14</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-14</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-16</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-16</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-16</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-18</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-16</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-16</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-16</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR		_	×	<u>WT-20</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-21</u>

^{*:} With electronic steering column lock

SUNROOF SYSTEM

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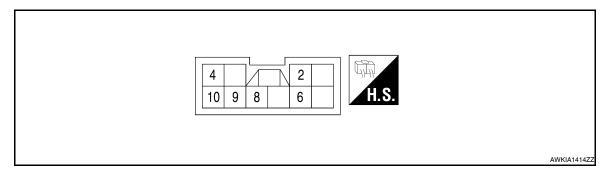
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SUNROOF SYSTEM

Reference Value

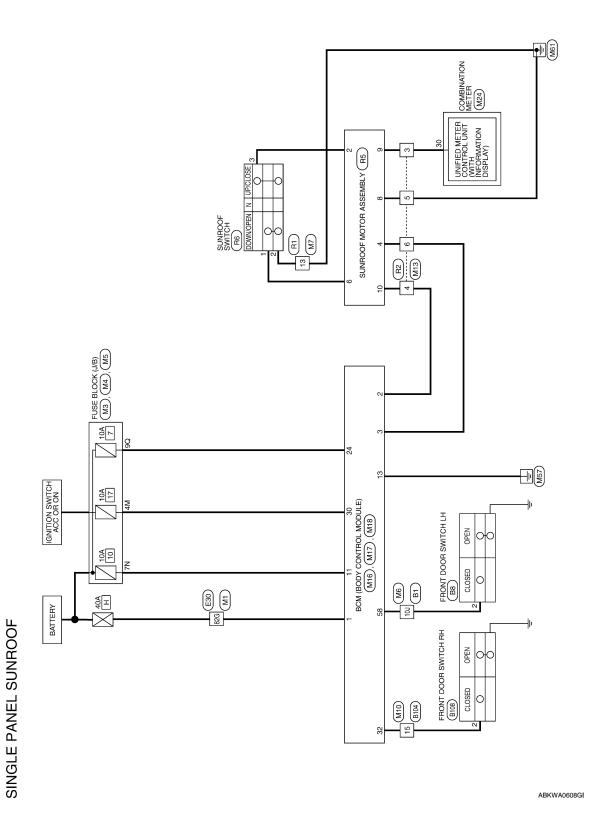
TERMINAL LAYOUT



PHYSICAL VALUES

	Terminal No. (Wire color) Description			Condition	Voltage (V)	
+	-	Signal name	Input/ Output	Condition	voltage (v)	
2 (LG)	Ground	Sunroof close switch (BIT 1) signal	Input	Sunroof switch in following position TILT UP SLIDE CLOSE	0	
				Other than above	Battery voltage	
				Ignition switch ON	Battery voltage	
4	Ground	RAP signal	Input	Within 45 seconds after ignition switch is turned to OFF.	Battery voltage	
(L/W)	0.000	TV U Signal		When driver side or passenger side door is opened during retained power operation.	0	
6 (Y)	Ground	Sunroof open switch (BIT 0) signal	Input	Sunroof switch in following position TILT DOWN SLIDE OPEN	0	
				Other than above	Battery voltage	
8 (B)	Ground	Ground	_	_	0	
9 (L/B)	Ground	Vehicle speed signal (2-pulse)	Input	Speedometer operated [When vehicle speed is approx.40km/ h (25MPH)]	(V) 6 4 2 0 +-50ms ELF1080D	
10 (R/Y)	Ground	Sunroof power supply	Input	_	Battery voltage	

Wiring Diagram



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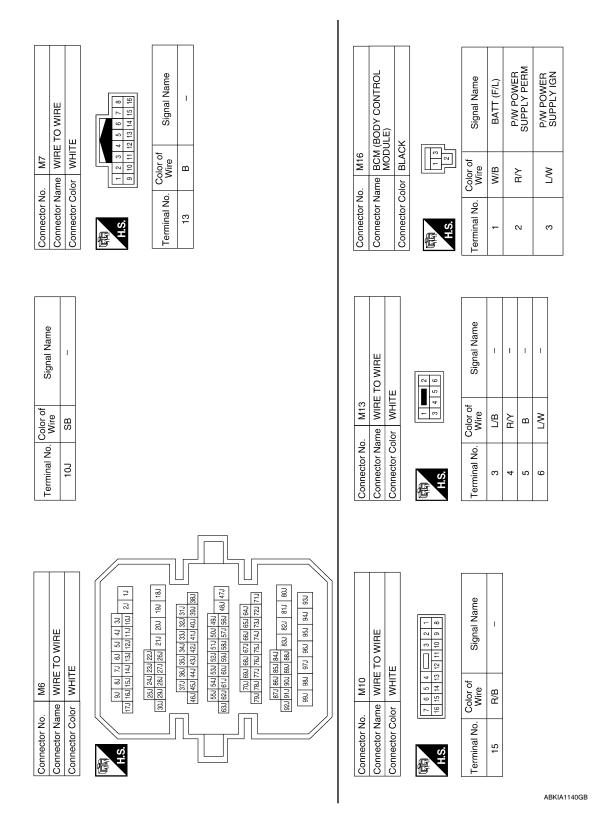
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	Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Terminal No. Wire Signal Name 7N Y/R -
	Terminal No. Wire Signal Name 82G W/B –	
SINGLE PANEL SUNROOF CONNECTORS	Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	96 86 76 66 56 46 36 16 16 16 16 16 16 16 16 16 16 16 16 16

	BLOCK (J/B)		40 30 20 10 100 90 80 70 60 50	Signal Name	1	
Ψ	e FUSE	r WHITE	40 30 L	Color of Wire	B/W	
Connector No.	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	E.S.	Terminal No.	06	
	SE BLOCK (J/B)	ТЕ	10M 9M 8M 7M 6M	Signal Name	1	
M2	me FUSE	or WHI	5M 4M	Color of Wire		
Connector No.	Connector Name	Connector Color WHIT	师 H.S.	Terminal No. Wire	Μ4	

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	19 20	98 40		1				
M24 COMBINATION METER WHITE	13 14 15 16 17 18	36 36 36 36 36 36 36 36	2P/R OUT					
M24 COMBINATI WHITE	8 9 9 10 11 12 2 2 2 2 3 2 3 2 3 2 3 2 3 3 3 3 3	000						
r Name C	4 5 6 7 8 9 7 9 8 9 7 9 8 9 7 9 8 9 7 9 8 9 7 9 8 9 7 9 8 9 7 9 9 9 9		Wire L/B					
Connector Name	H.S.	ସା ଥ	30					
	22 21 20	42 41 40						
BCM (BODY CONTROL MODULE) GREEN	30 29 28 27 28 25 24 23	56 55 54 53 52 51 50 48 47 46 45 44 43 42 41 40 40 41 40 40 40 40	BRAKE SW 1	AS DOOR SW 1	DR DOOR SW	Signal Name		
-	33 32 31 31	54 53 52 51 t	Wire R/W	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SB	Color of Wire		
Connector Name	(成) H.S.	58 57	24 24	30	288	Terminal No.		
BCM (BODY CONTROL MODULE)	9 10	Signal Name BAT BCM FUSE	GND1			IRE	36 46 56 76 86 96 77 86 96 77 86 96 77 86 96 77 86 96 77 86 96 77 96 96 77 96 96 77 96 96	•
BCM (BODY MODULE) WHITE	11 12 13 14 15 16 17 18 19					E30 WIRE TO WIRE WHITE	16 20 106 116 136 146 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156	
	4 5 6 11 12 13 13 14 15 13 15 15 15 15 15 15 15 15 15 15 15 15 15	No. Color of Wire Y/R	В				16 26 106 200 200 200 200 200 200 200 200 200 2	
Connector Name	H.S.	Terminal No.	13			Connector No. Connector Name Connector Color	S.H	
							ABKIA1783GB	

Connector No. B8 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE LAS. Color of Signal Name 2 SB -	Connector No. R1 Connector Name WIRE TO WIRE Connector Color WHITE H.S. R	Terminal No. Color of Signal Name
Terminal No. Wire Signal Name 10J SB –	Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	Terminal No. Wire Signal Name
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE 1.1 24 104 114 124 134 144 151 161 177 184 194 20 21 21 224 234 254 254 254 254 254 254 254 254 254 25	Connector No. B104 Connector Name WIRE TO WIRE Connector Color WHITE Image: All the color of the	Terminal No. Color of Signal Name 15 GR –

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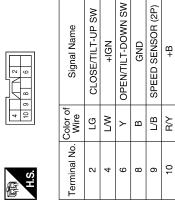
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Connector No.	R6
Connector Name	Connector Name (WITHOUT DUAL PANEL SUNROOF)
Connector Color WHITE	WHITE



Connector No.	R5
Connector Name	SUNROOF MOTOR ASSEMBLY (WITHOUT DUAL PANEL SUNROOF)
Connector Color WHITE	WHITE

Connector No.







Signal Name	ı	ı	ı	I
Color of Wire	L/B	₽/Y	В	MΠ
Terminal No. Wire	3	4	5	9



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SUNROOF DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

SYMPTOM DIAGNOSIS

SUNROOF DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000005461832

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-40, "Diagnosis Procedure".

>> GO TO 2

2. CHECK SUNROOF MOTOR ASSEMBLY POWER SUPPLY AND GROUND CIRCUIT

Check sunroof motor assembly power supply and ground circuit.

Refer to RF-14, "SUNROOF MOTOR ASSEMBLY: Component Function Check".

>> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

AUTO OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

AUTO OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005461833

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

>> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

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DOES NOT STOP FULLY-OPEN OR FULLY-CLOSED POSITION

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

DOES NOT STOP FULLY-OPEN OR FULLY-CLOSED POSITION

Diagnosis Procedure

INFOID:000000005461834

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement". Is the inspection result normal?

>> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

Diagnosis Procedure

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to DLK-68, "Component Function Check".

Is the inspection result normal?

>> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

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SUNROOF DOES NOT OPERATE ANTI-PINCH FUNCTION

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

SUNROOF DOES NOT OPERATE ANTI-PINCH FUNCTION

Diagnosis Procedure

INFOID:0000000005461836

1. PERFORM INITIALIZATION PROCEDURE

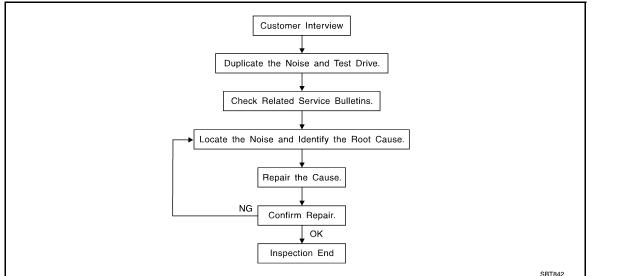
Perform initialization procedure.

Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement". Is the inspection result normal?

>> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow
INFOID:000000005485376



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to IP-6, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed descriptions or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak—(Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity
- dent on materials/often brought on by activity.
 Rattle—(Like shaking a baby rattle)
 Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing
- Knock —(Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
 Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

clip or fastener/incorrect clearance.

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (with brakes applied, place CVT shift selector in drive position).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
 noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.

Refer to RF-73, "Generic Squeak and Rattle Troubleshooting".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-

71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 \times 50 mm (1.18 \times 1.97in)

FELT CLOTH TAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: $15 \times 25 \text{ mm}$ (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH SINGLE PANEL SUNROOF] < SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. В **DUCT TAPE** Use to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Generic Squeak and Rattle Troubleshooting D INFOID:000000005485377 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. Acrylic lens and combination meter housing Instrument panel to front pillar finishers Instrument panel to windshield 4. Instrument panel mounting pins Wiring harnesses behind the combination meter A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION: Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair. CENTER CONSOLE Components to pay attention to include: 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher Wiring harnesses tapping N Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise. TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

- Trunk lid bumpers out of adjustment
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

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Revision: November 2009 RF-73 2010 Maxima

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition, look for:

- 1. Loose harness or harness connectors.
- Front console map/reading lamp lens loose.
- 3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- Headrest rods and holder
- A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

Diagnostic Worksheet

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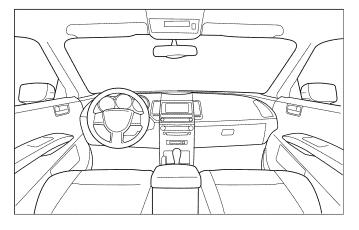
Dear Customer:

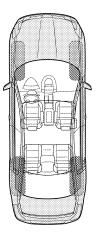
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

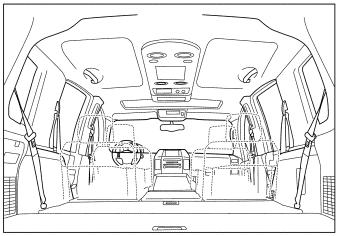
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

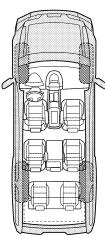
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.









Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

Briefly describe the location where the noise	e occ	urs:		
II. WHEN DOES IT OCCUR? (please chec		boxes that app After sitting ou When it is rain	t in the ra	
☐ 1st time in the morning☐ Only when it is cold outside☐ Only when it is hot outside		Dry or dusty co		
Through driveways Over rough roads Over speed bumps Only about mph On acceleration Coming to a stop On turns: left, right or either (circle) With passengers or cargo Other: After driving miles or minut TO BE COMPLETED BY DEALERSHIP PE Test Drive Notes:	es	Creak (like wa Rattle (like sha Knock (like a k Tick (like a clo Thump (heavy Buzz (like a bu	ennis shoe Iking on ar Iking a bal nock at th ck seconc muffled kr	es on a clean floor) n old wooden floor) by rattle) le door) I hand) nock noise)
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	repai	 		
VIN: W.O.#				

This form must be attached to Work Order

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions INFOID:000000005461841

- After removing and installing any opening/closing parts, make sure to perform all adjustments for proper operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may
 get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- · If a clip is deformed or damaged, replace it.
- If a non-reuseable part is removed, replace it with a new one.
- Tighten bolts and nuts firmly to the specified torque.
- After re-assembly has been completed, make sure each part functions correctly.
- Remove stains in the following manner:

Water-Soluble stains	Oil stains		
Dip a cloth in warm water, and squeeze tightly. After wiping the stain, wipe with a soft dry cloth.	Dissolve a synthetic detergent in warm water (density of 2 to 3% or less), dip the cloth, then clean off the stain with the cloth. Next, dip the cloth in fresh water, then squeeze tightly. Clean off detergent completely, then wipe entire area with a soft dry cloth.		
Do not use any organic solvent, such as a thinner or benzine to remove stains			

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect (Early

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PRECAUTIONS

< PRECAUTION >

[WITH SINGLE PANEL SUNROOF]

Production, With Electronic Steering Column Lock)

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NOTE:

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

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

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

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

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

PREPARATION

< PREPARATION >

[WITH SINGLE PANEL SUNROOF]

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PREPARATION

PREPARATION

Special Service Tools

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

Tool number (Kent-Moore No.)		Description	
Tool name (J-39570) Chassis ear	A A A A A A	Locating the noise	
(J-43980)	SIIA0993E	Repairing the cause of noise	
NISSAN Squeak and Rattle Kit			
	SIIA0994E		

Commercial Service Tools

Tool name Description (Kent-Moore No.) Engine ear Locating the noise (J-39565)

SIIA0995E Power tools

Loosening bolts, nuts and screws

PIIB1407E

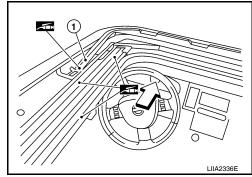
ON-VEHICLE REPAIR

SUNROOF UNIT ASSEMBLY

Inspection INFOID:000000005461845

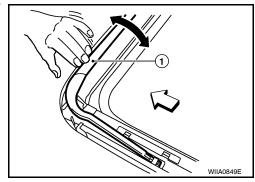
WIND DEFLECTOR

- 1. Open glass lid assembly fully.
- 2. Visually check for proper installation, damaged/deteriorated components, or foreign objects within mechanism. Correct as required for smooth operation.
- Check for grease at the wind deflector arm (1) and pivot areas. If necessary, apply a sufficient amount of grease for non-binding operation.
 - ⟨□: Vehicle front



4. Check that the wind deflector (1) moves freely within the sunroof unit assembly while manually pressing down and releasing. If a malfunction is detected, remove the sunroof unit assembly and visually inspect. If damage is found, replace either wind deflector (1) or sunroof unit assembly as required.





LINK AND WIRE ASSEMBLY

NOTE:

Before replacing a suspect part, make sure it is the source of noise being experienced.

- 1. Check link to determine if coating film has peeled off excessively enough that substrate is visible. Check also to determine if link is the source of noise. Replace as necessary.
- 2. Visually check to determine if a sufficient amount of grease has been applied to wire or rail groove. If not, add grease as required.
- 3. Check wire for any damage or deterioration. If any damage is found, replace sunroof unit assembly.

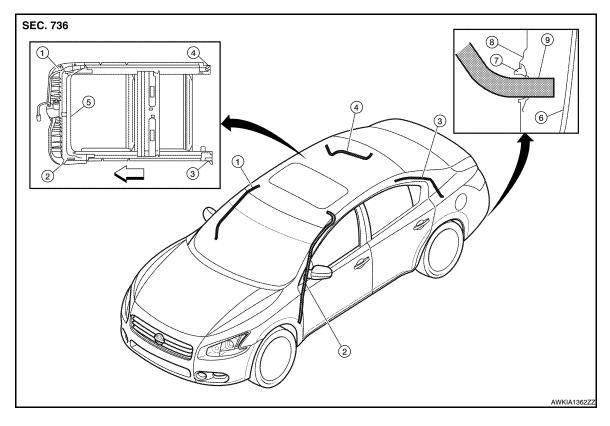
WEATHERSTRIP

- 1. Visually check weatherstrip for damage, deterioration, or deformation.
 - Open glass lid assembly partially to inspect front edge of weatherstrip.
 - Tilt up glass lid assembly fully to inspect sides and rear edge of weatherstrip.

If any area of the weatherstrip is found to be damaged, replace the glass lid assembly. Refer to <u>RF-84</u>, "Removal and Installation".

- 2. Check for leakage around glass lid assembly.
 - Close glass lid assembly.
 - Pour water around surface to determine area of concern.
 - For gaps or misalignment, adjust glass lid assembly to specifications. Refer to ADJUSTMENT in this section.
 - For damaged sealing surfaces, either replace glass lid assembly <u>RF-84, "Removal and Installation"</u>, or repair the panel.

DRAIN HOSES



- Drain hose front RH
- 4. Drain hose rear RH
- 7. Seal

- Drain hose front LH
- 5. Sunroof unit assembly
- 8. Fender

- Drain hose rear LH
- 6. Fascia
- Drain hose
- 1. Remove the headlining. Refer to INT-32, "Removal and Installation".
- 2. Visually check drain hoses for:
 - Proper connection at sunroof unit assembly drain hose connector(s).
 - · Damage, pinch, cracks, deterioration.
 - Proper fastening and routing on body panels.
- Pour water through drain hoses to determine watertight performance.If damaged or leaking portions in any drain hose is found, replace entire drain hose as necessary.

ADJUSTMENT

CAUTION:

- Always work with a helper.
- Handle glass lid assembly with care to prevent damage.

NOTE

- · For easier and more accurate installation, always mark each point before removal.
- · After any adjustment, check sunroof operation and glass lid assembly alignment.

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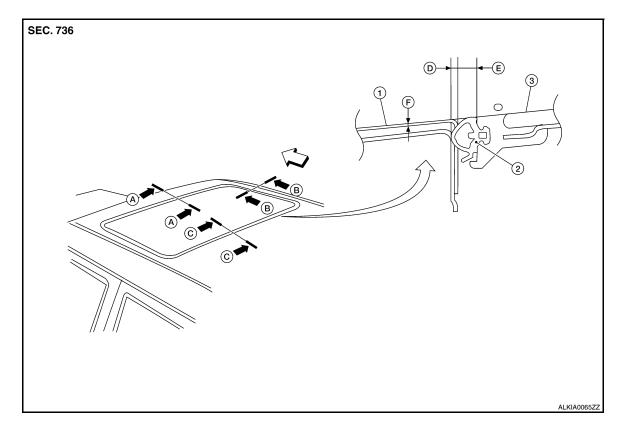
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- Roof
- Front edge specifications A.
- Weatherstrip overlap tolerance
- Weatherstrip
- B. Side edge specifications
- Weatherstrip width dimension
- Glass lid assembly
- C. Rear edge specifications
- Surface flushness tolerance (Glass lid below roof line)

Vehicle front

Unit: mm (in)

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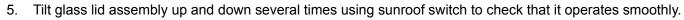
	A-A	В-В	C-C
D.	$1.4 \pm 0.45 \; (0.06 \pm 0.02)$	$1.4 \pm 0.45 \ (0.06 \pm 0.02)$	$1.4 \pm 0.45 \; (0.06 \pm 0.02)$
E.	5.8 ± (0.23)	5.8 ± (0.23)	5.8 ± (0.23)
F.	-0.8 ± 1.5 (-0.03 ± 0.06)	-0.8 ± 1.5 (-0.03 ± 0.06)	-0.8 ± 1.5 (-0.03 ± 0.06)

Gap adjustment (A-A, C-C)

- Open sunshade assembly (1).
 - ∀
 □: Vehicle front
- Tilt glass lid assembly up, then release side trim cover (2) and set aside.
- Loosen glass lid assembly bolts (A) (2 each on left and right sides), then tilt glass lid assembly down.
- Manually adjust glass lid assembly from outside of vehicle so gaps A-A and C-C are within specifications.

NOTE:

Temporarily snug glass lid assembly bolts to prevent movement between each adjustment.



Tilt glass lid assembly up and tighten bolts to specification.

NOTE:

First tighten left front bolt, then right rear bolt on glass lid assembly to prevent uneven torque while tight-

SUNROOF UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITH SINGLE PANEL SUNROOF]

7. Attach side trim cover, then tilt glass lid assembly down.

Gap Adjustment (B-B)

- 1. Remove headlining. Refer to INT-32, "Removal and Installation".
- 2. Loosen sunroof unit assembly and sunroof side bracket bolts.
- Carefully slide sunroof unit assembly side to side or add shims until gap is within specifications.NOTE:

Temporarily snug sunroof unit assembly bolts to prevent movement between each adjustment.

- 4. Tilt glass lid assembly up and down several times using sunroof switch to check that it operates smoothly.
- 5. Tighten sunroof unit assembly and sunroof side bracket bolts.

NOTE:

First tighten left front sunroof unit assembly bolt, then right rear to prevent uneven torque while tightening remaining bolts.

6. Install headlining. Refer to INT-32, "Removal and Installation".

Height Adjustment

- 1. Tilt glass lid assembly up and down several times using sunroof switch to check that it operates smoothly.
- Check height difference between roof surface and glass lid assembly surface, then compare to specifications.
- 3. If necessary, adjust height difference by using the following procedure.
 - Loosen glass lid assembly bolts.
 - Manually raise/lower glass lid assembly until height difference is within specification.

NOTE:

If necessary, shims may be added between sunroof unit assembly and roof to increase adjustment range. Refer to RF-80, "Inspection".

Temporarily snug sunroof unit assembly bolts to prevent movement between each adjustment.

- Tilt glass lid assembly up and down several times using sunroof switch to check that it operates smoothly.
- Tighten glass lid assembly and sunroof side bracket bolts.

NŎTE:

First tighten left front bolt, then right rear bolt on glass lid assembly to prevent uneven torque while tightening remaining bolts.

After any adjustment, check sunroof operation and glass lid assembly alignment.

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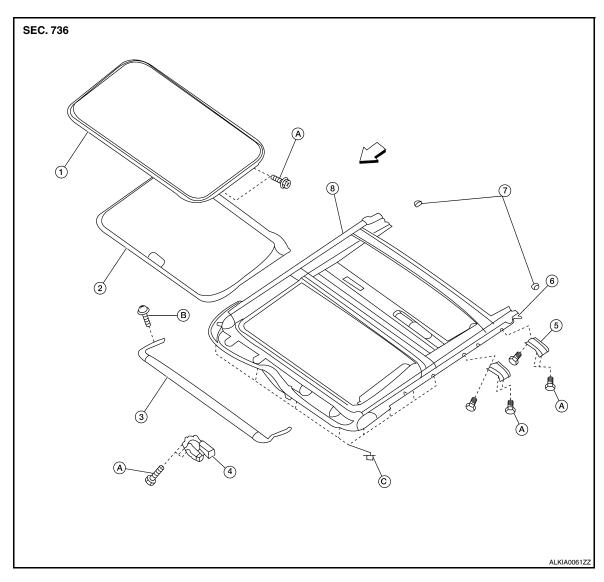
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Revision: November 2009 RF-83 2010 Maxima

Exploded View



- 1. Glass lid assembly
- 4. Sunroof motor assembly
- 7. Sunshade stopper
- B. Screw

- 2. Sunshade
- 5. Sunroof side bracket
- 8. Sunroof unit assembly
- C. Nut

- Wind deflector
- 6. Drain hose connector

INFOID:0000000005461847

- A. Bolt
- Vehicle front

Removal and Installation

CAUTION:

- After installing either sunroof unit assembly or glass lid assembly, check gap/height adjustments and operation to make sure there is no malfunction.
- Always work with a helper.
- · Handle glass lid assembly with care to prevent damage.
- · When taking sunroof unit out, use shop cloths to protect the seats and trim from damage.

SUNROOF UNIT ASSEMBLY

Removal

- Close glass lid assembly.
- Remove headlining. Refer to <u>INT-32</u>, "Removal and Installation".
- 3. Disconnect drain hoses.

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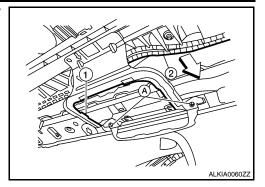
SUNROOF UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

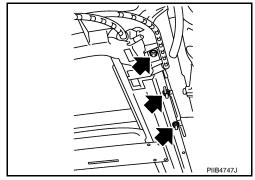
[WITH SINGLE PANEL SUNROOF]

Remove screws (A), then pull sunroof switch bracket (1) away from sunroof unit assembly (2).

- Vehicle front
- 5. Disconnect sunroof motor harness connector.



- 6. Remove bolts on the front end and side rails of the sunroof unit assembly.
- Remove front sunroof side bracket bolts.
- 8. Remove rear sunroof side bracket bolts and remove sunroof unit assembly from roof panel.
- 9. Remove sunroof unit assembly through the passenger compartment while being careful not to damage the seats and trim.



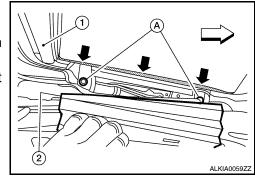
Installation

- 1. Loosely tighten the rear sunroof side bracket bolts to the sunroof unit assembly side rails.
- Bring sunroof unit into passenger compartment and loosely tighten rear sunroof side bracket bolts to roof panel while supporting front.
- 3. Align the sunroof unit assembly front end rail and side rails with the locator pins, then loosely tighten the bolts.
- Install remaining sunroof side brackets and loosely tighten bolts.
- 5. Tighten the sunroof unit assembly front end and side rail bolts diagonally to the specified torque.
- 6. Tighten the front sunroof side bracket bolts at the vehicle side first, then at the side rail end.
- Tighten the rear sunroof side bracket bolts at the vehicle side first, then at the side rail end.
- 8. Connect sunroof motor harness connector.
- Install sunroof switch bracket.
- 10. Connect drain hoses.
- 11. Install headlining. Refer to INT-32, "Removal and Installation".

GLASS LID ASSEMBLY

Removal

- Open sunshade (1), then close glass lid assembly. ∀ Vehicle front
- 2. Slide the side trim covers (2) RH/LH inward, then release them from the glass lid assembly inside edge and set aside.
- 3. Remove the bolts (A) and glass lid assembly from sunroof unit assembly.



Installation

- Position glass lid assembly to sunroof unit assembly.
- Tighten glass lid assembly bolts to specification. NOTE:

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< ON-VEHICLE REPAIR >

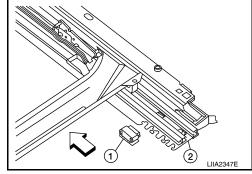
First tighten left front bolt, then right rear bolt on glass lid assembly to prevent uneven torque while tightening remaining bolts.

- Slide side trim covers onto inside edge of glass lid assembly.
- 4. After installation, check sunroof operation and glass lid assembly alignment. Refer to RF-80, "Inspection".

SUNSHADE

Removal

- 1. Remove sunroof unit assembly. Refer to RF-84, "Exploded View".
- Remove glass lid assembly. Refer to <u>RF-84</u>, "Removal and Installation".
- 3. Remove the sunshade stoppers (1) RH/LH from the sunroof unit assembly side rails (2).
 - Vehicle front
- 4. Slide sunshade rearward past sunroof unit assembly side rail ends to remove.



Installation

Installation is in the reverse order of removal.

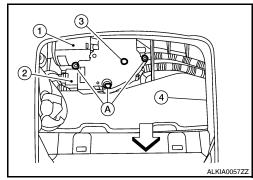
SUNROOF MOTOR

Removal

- Close glass lid assembly.
- 2. Disconnect the negative and positive battery cables.
- 3. Remove front room/map lamp assembly from headliner (4). Refer to INL-97, "Removal and Installation".
 - ∀ Vehicle front
- 4. Remove sunroof motor screws (A).
- Disconnect harness connector (2) and remove sunroof motor (1) from sunroof unit assembly front end rail.

CAUTION:

Never run the removed sunroof motor as a single unit.



Installation

Move sunroof motor laterally little by little so that the gear is completely engaged into the wire on the sunroof unit assembly, and the mounting surfaces become parallel. Install the sunroof motor screws, and tighten to the specified torque.

CAUTION:

Before installing the motor, be sure to place the link and wire assembly in the symmetrical and fully closed position.

NOTE:

If necessary, insert a suitable tool into the drive key (3) and rotate right or left slightly to assist in complete sunroof motor gear alignment.

Remainder of installation is in the reverse order of removal.

- 2. Connect battery positive and negative terminals.
- Synchronize sunroof motor with sunroof unit assembly. Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

DIAGNOSIS AND REPAIR WORKFLOW

[WITH DUAL PANEL SUNROOF]

< BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW WorkFlow INFOID:0000000005461848 **DETAILED FLOW** 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 "COMPONENT DIAGNOSIS"

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

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

>> GO TO 5.

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. RF

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RF-87 Revision: November 2009 2010 Maxima

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH DUAL PANEL SUNROOF]

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000005461849

Initialization of system should be conducted after the following conditions.

- · When the sunroof motor or sunshade motor is changed.
- When the sunroof of sunshade does not operate normally (incomplete initialization conditions).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

INITIALIZATION PROCEDURE

If the sunroof or sunshade does not close or open automatically, use the following procedure to return sunroof or sunshade operation to normal.

- 1. Close the sunroof and sunshade, then release the sunroof switch once.
- 2. Press and hold the sunroof switch CLOSE (1st or 2nd) again (for approx. 10 seconds), then sunroof will move to forward and it will be stopped mechanically.
- Release the sunroof switch, and press and hold the sunroof switch CLOSE (1st or 2nd) again, then sunroof and sunshade will automatically move to fully closed⇒fully open⇒fully closed.
- 4. Release sunroof switch, after the sunroof is fully closed.
- 5. Check sunroof and sunshade operation.

CHECK ANTI-PINCH FUNCTION

- 1. Full open the sunroof.
- 2. Place a piece of wood near fully closed position.
- 3. Close the sunroof completely with auto-slide close.
- 4. Check that sunroof lowers for approximately 150 mm (5.91 in) or 2 seconds without pinching a piece of wood and stop.
- 5. Full open the sunshade.
- 6. Place a piece of wood near fully closed position.
- 7. Close the sunroof completely with auto-slide close.
- 8. Check that sunroof lowers for approximately 150 mm (5.91 in) or 2 seconds without pinching a piece of wood and stop.

CAUTION:

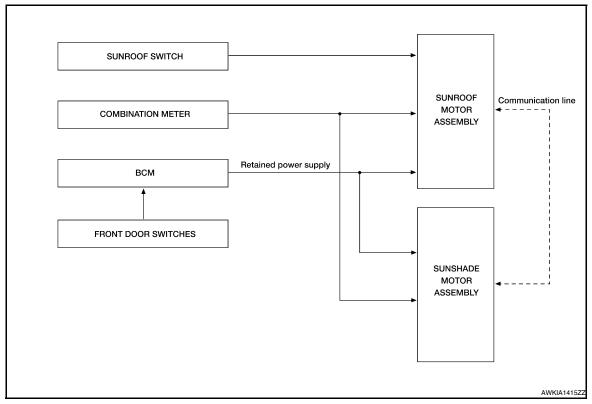
- Do not check with hands and other part of body because they may be pinched. Do not get pinched.
- Depending on environment and driving conditions, if a similar impact or load is applied to the sunroof it may lower.
- Check that auto-slide operates before inspection when system initialization is performed.
- Perform initial setting when auto-slide operation or anti-pinch function does not operate normally.

FUNCTION DIAGNOSIS

SUNROOF SYSTEM

System Diagram

SUNROOF

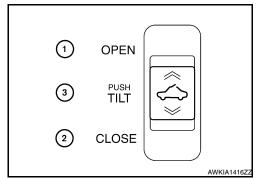


System Description

INFOID:0000000005461852

DESCRIPTION

- Sunroof motor assembly and sunshade motor assembly operate with the power supplied from BCM while ignition switch is ON or retained power is operating.
- Sunroof motor assembly receives an operation signal from sunroof switch, and sends the signal to sunshade motor by communication line.
- Sunroof motor assembly and sunshade motor assembly receive a vehicle speed signal from combination meter and controls the sunroof motor and sunshade motor torque at the time of high speed operation.
- The sunroof switch can be operated in the directions of push/tilt, open (1st, 2nd) and close (1st, 2nd). It can operate the sunroof and sunshade by one switch.
 - (1) OPEN
 - (2) CLOSE
 - (3) PUSH/TILT



OPERATION DESCRIPTION

The sunroof and sunshade operate to the following condition by the sunroof switch operation.

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[WITH DUAL PANEL SUNROOF]

Before Operation	Switch condition	Roof and sunshade operation	After Operation
	OPEN: 1st	Open the shade	JMKIA1884ZZ
JMKIA1885ZZ	OPEN: 2nd	Open the glass and shade (AUTO)	JMKIA1887ZZ
	PUSH	Tilt up and open the shade at the same time	JMKIA1886ZZ
	PUSH		
***************************************	CLOSE: 1st	- Tilt down	JMKIA1884ZZ
JMKIA1886ZZ	CLOSE: 2nd	Tilt down and close the shade at the same time (AUTO)	JMKIA 1885ZZ

Before Operation	Switch condition	Roof and sunshade operation	After Operation	Λ
	PUSH	Tilt up	JMKIA1886ZZ	A B
JMKIA1887ZZ	CLOSE: 1st	Close the glass	JMKIA1884ZZ	D E
				F
	CLOSE: 2nd	Close the glass and shade at the same time (AUTO)		G
			JMKIA1885ZZ	Н

AUTO OPERATION

The sunroof or sunshade operate automatically to the fully-open or fully-close position by operating the sunroof switch to the OPEN (2nd) or CLOSE (2nd) position.

RETAINED POWER OPERATION

Retained power operation is an additional power supply function that enables the sunroof system to operate for 45 seconds after ignition switch is turned OFF.

Retained power function cancel conditions

- Front door CLOSE (door switch OFF)→OPEN (door switch ON)
- Ignition switch is ON again.
- Timer passed (45 seconds)

ANTI-PINCH FUNCTION

CAUTION:

There are some small distances immediately before the closed position which cannot be detected.

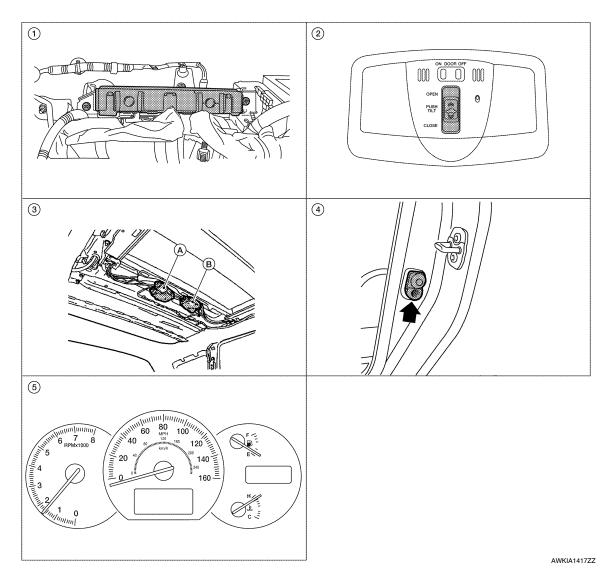
- The CPU of sunroof motor assembly monitors the sunroof condition by the signals from sunroof motor. When sunroof motor assembly detects an interruption during auto operation (close or tilt down operation), sunroof motor will tilt up or open [150 mm (5.91 in) or more] sunroof.
- The CPU of sunshade motor assembly monitors the sunshade condition by the signals from sunshade motor. When sunshade motor assembly detects an interruption during auto close operation, sunroof motor will open [150 mm (5.91 in) or more] sunshade.

Component Parts Location

INFOID:000000005461853

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- BCM M16, M17, M18 (view with instrument panel removed)
- 4. Front door switch LH B8, RH B108
- Sunroof switch R14
- 5. Combination meter M24
- A: Sunroof motor assembly R101
 B: Sunshade motor assembly R102 (view with headlining removed)

Component Description

INFOID:000000005461854

Component	Function
BCM	Supplies power to sunroof motor assembly and sunshade motor assembly.
Combination meter	Transmits vehicle speed signal to sunroof motor assembly and sunshade motor assembly.
Sunroof motor assembly	It is sunroof motor and CPU integrated type that enables tilt up/down & slide open/close sunroof by sunroof switch operation. And sends sunroof switch operation signal to sunshade motor assembly via communication line.
Sunshade motor assembly	It is sunshade motor and CPU integrated type that enables open/close sunshade by sunroof switch operation.
Sunroof switch	Transmits switch operation signal to sunroof motor assembly.
Front door switches	Detects door open/close condition and transmits to BCM.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: Diagnosis Description

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BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
WORK SUPPORT	Changes the setting for each system function.	
SELF DIAGNOSTIC RESULT	Displays the diagnosis results judged by BCM.	
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.	
DATA MONITOR	The BCM input/output signals are displayed.	
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.	
ECU IDENTIFICATION	The BCM part number is displayed.	
CONFIGURATION	 Enables to read and save the vehicle specification. Enables to 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.

Cyatam	Sub system coloction 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	HEADLAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
всм	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

COMMON ITEM: CONSULT-III Function

INFOID:0000000005511867

ECU IDENTIFICATION

Displays the BCM part No.

SELF-DIAG RESULT

Refer to RF-141, "DTC Index".

RETAINED PWR

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

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

INFOID:0000000005511868

Data monitor

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

< COMPONENT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000005530304

Regarding Wiring Diagram information, refer to BCS-69, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1		Н
11	Battery power supply	10
24		7

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

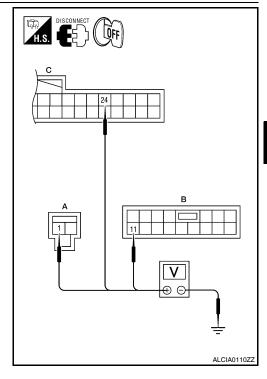
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

Terminals			
(+) (-)			Voltage
BCM			(Approx.)
Connector	Terminal		
M16 (A)	1	Ground	
M17 (B)	11		Battery voltage
M18 (C)	24		

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.



3. CHECK GROUND CIRCUIT

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< COMPONENT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

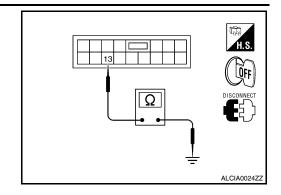
Check continuity between BCM harness connector and ground.

В	BCM		Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



SUNROOF MOTOR ASSEMBLY

SUNROOF MOTOR ASSEMBLY: Diagnosis Procedure

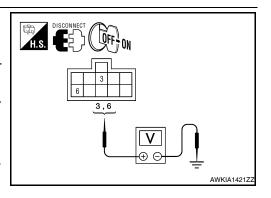
INFOID:0000000005461860

Regarding Wiring Diagram information, refer to RF-145, "Wiring Diagram".

1. CHECK POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof motor assembly connector.
- Turn ignition switch ON.
- Check voltage between sunroof motor assembly harness connector and ground.

(+)		Valta a a (V)	
Sunroof motor assembly		(-)	Voltage (V) (Approx.)	
Connector	Terminal		, , ,	
R101	3	Ground	Battery voltage	
	6	Ground	Dattery Voltage	



Is the inspection result normal?

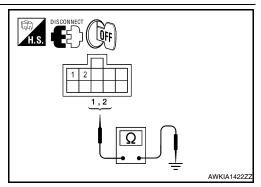
YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between sunroof motor assembly harness connector and ground.

Sunroof motor assembly			Continuity
Connector	Terminal	Ground	Continuity
R101	1	Glound	Yes
K101	2		162



Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness.

3. CHECK SUNROOF MOTOR CIRCUIT

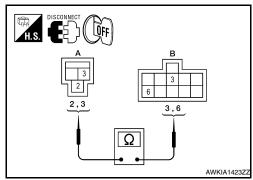
< COMPONENT DIAGNOSIS >

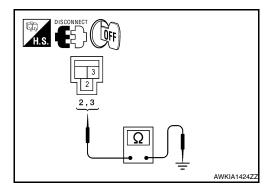
[WITH DUAL PANEL SUNROOF]

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM harness connector (A) and sunroof motor assembly harness connector (B).

ВСМ	(A)	Sunroof motor assembly (B)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M118	2	R101	6	Yes
WITIO	3	101	3	163

4. Check continuity between BCM harness connector and ground.





BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M118	2	Ground	No	
IVITIO	3		INO	

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-87, "Removal and Installation".

NO >> Repair or replace the harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> Inspection End.

SUNSHADE MOTOR ASSEMBLY

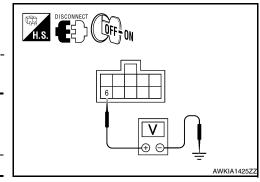
SUNSHADE MOTOR ASSEMBLY: Diagnosis Procedure

Regarding Wiring Diagram information, refer to RF-153, "Wiring Diagram".

1. CHECK POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect sunshade motor assembly connector.
- Turn ignition switch ON.
- Check voltage between sunshade motor assembly harness connector and ground.

	(+) de motor assembly (-) Voltage (V) (Approx.)		Voltage (V) (Approx.)
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,
R102	6	Ground	Battery voltage



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INFOID:0000000005461861

< COMPONENT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

Is the inspection result normal?

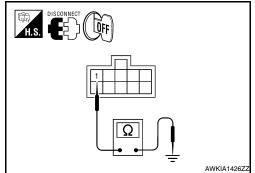
YES >> GO TO 2. NO >> GO TO 3.

2. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between sunshade motor assembly harness connector and ground.

Sunshade mo	tor assembly		Continuity
Connector	Terminal	Ground	Continuity
R102	1		Yes



Is the inspection result normal?

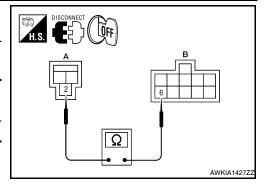
YES >> GO TO 4.

NO >> Repair or replace the harness.

3.CHECK SUNSHADE MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM harness connector (A) and sunshade motor assembly harness connector (B).

BCM (A)		Sunshade motor assembly (B)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M118	2	R102	6	Yes



4. Check continuity between BCM harness connector and ground.

всм			Continuity	
Connector	Terminal	Ground	Continuity	
M118	2		No	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-87</u>, "Removal and Installation".

NO >> Repair or replace the harness.

DISCONNECT OFF

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> Inspection End.

COMMUNICATION SIGNAL CIRCUIT

Description INFOID:000000005461862

Detects door open/close condition.

Diagnosis Procedure

INFOID:0000000005461863

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Regarding Wiring Diagram information, refer to RF-145, "Wiring Diagram".

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sunshade motor assembly connector.
- 3. Turn ignition switch ON.
- 4. Check signal between sunshade motor assembly harness connector and ground with oscilloscope.

	(+) Sunshade motor assembly		Voltage (V) (Approx.)
Connector	Terminal		(44.5)
R102	7	Ground	(V) 15 10 5 0 1s JMKIA1869ZZ

Is the inspection result normal?

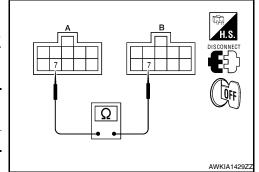
YES >> Inspection End.

NO >> GO TO 2.

2. CHECK COMMUNICATION SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof motor assembly connector.
- 3. Check continuity between sunshade motor assembly harness connector (A) and sunroof motor assembly harness connector (B).

Sunshade motor assembly (A)		Sunroof motor assembly (B)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
R102	7	R101	7	Yes



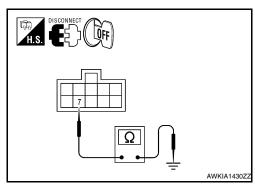
4. Check continuity between sunshade motor assembly harness connector and ground.

Sunshade motor assembly			Continuity
Connector	Terminal	Ground	No
R102	7		NO

Is the inspection result normal?

YES >> Replace sunshade motor assembly. Refer to <u>RF-177.</u>

NO >> Repair or replace harness.



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SUNROOF SWITCH

Description INFOID:000000005461864

Transmits switch operation signal to sunroof motor assembly.

Diagnosis Procedure

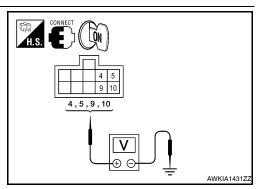
INFOID:0000000005461865

Regarding Wiring Diagram information, refer to RF-145, "Wiring Diagram".

1. CHECK SUNROOF SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- Check voltage between sunroof motor assembly harness connector and ground.

(+) Sunroof motor assembly		(-)	Condition	Voltage (V)
Connector	Terminals			
	4		Sunroof switch is operated PUSH	0
			Other than above	Battery voltage
	5		Sunroof switch is operated OPEN (1st or 2nd)	0
		Ground	Other than above	Battery voltage
R101	9		Sunroof switch is operated OPEN (2nd) or CLOSE (2nd)	0
			Other than above	Battery voltage
	10		Sunroof switch is operated CLOSE (1st or 2nd)	0
			Other than above	Battery voltage



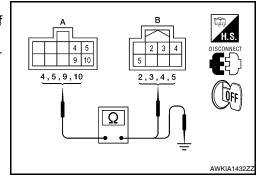
Is the inspection result normal?

YES >> Replace sunroof motor. Refer to RF-176, "Removal and Installation".

NO >> GO TO 2.

$2. \mathsf{CHECK}$ SUNROOF SWITCH CIRCUIT

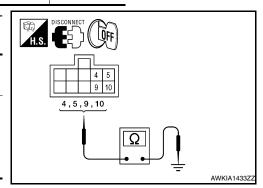
- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof motor assembly connector and sunroof switch connector.
- 3. Check continuity between sunroof motor assembly harness connector (A) and sunroof switch harness connector (B).



Sunroof motor assembly (A)		Sunroof switch (B)		Continuity
Connector	Terminal	Connector Terminal		Continuity
	4		5	
R101	5	R14	3	Yes
	9		2	res
	10		4	

 Check continuity between sunroof motor assembly harness connector and ground.

Sunroof mo	tor assembly		Continuity
Connector	Terminal		Continuity
R101	4	Ground	No
	5	Ground	
	9		
	10		



Is the inspection result normal?

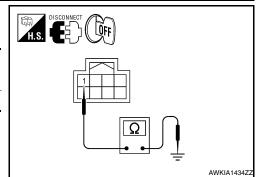
YES >> GO TO 3.

NO >> Repair or the replace harness.

3. CHECK SUNROOF SWITCH GROUND CIRCUIT

Check continuity between sunroof switch harness connector and ground.

Sunroof	switch		Continuity
Connector	Terminal	Ground	Continuity
R14	1		Yes



Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness.

4. CHECK SUNROOF SWITCH

Check sunroof switch.

Refer to RF-101, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sunroof switch. Refer to RF-195, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> Inspection End.

Component Inspection

SUNROOF SWITCH

1. CHECK SUNROOF SWITCH

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Revision: November 2009 RF-101 2010 Maxima

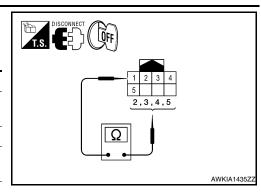
SUNROOF SWITCH

< COMPONENT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof switch connector.
- 3. Check continuity sunroof switch terminals.

Terminals		Condition	Continuity
2		Sunroof switch is operated OPEN (2nd) or CLOSE (2nd)	Yes
		Other than above	No
3		Sunroof switch is operated OPEN (1st) or OPEN (2nd)	Yes
	1	Other than above	No
4	·	Sunroof switch is operated CLOSE (1st) or CLOSE (2nd)	Yes
		Other than above	No
5		Sunroof switch is operated PUSH	Yes
		Other than above	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace sunroof switch. Refer to RF-195, "Removal and Installation".

DOOR SWITCH

Description INFOID.000000005461867

Detects door open/close condition.

Component Function Check

1. CHECK FUNCTION

(I) With CONSULT-III

Check door switches DOOR SW-DR, DOOR SW-AS in Data Monitor mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Door switch is OK.

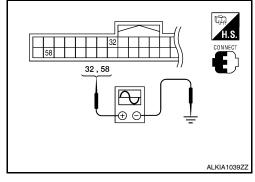
NO >> Refer to RF-103, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to RF-145, "Wiring Diagram".

1. CHECK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



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	Terminals					
(+)		Door		ndition	Voltage (V)	
BCM connector	Terminal	(–)			(Approx.)	
				OPEN	0	
A: M18	58	Ground	Driver side	CLOSE	(V) 15 10 5 0 JPMIA0011GB	
A. WHO		Oround		OPEN	0	
	32		Passenger side	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

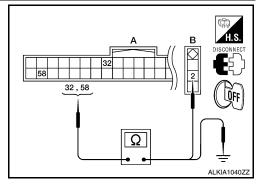
2. CHECK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
A: M18	58	C: B8 (Driver side)	2	Yes
A. W10	32	C: B108 (Passenger side)	2	163

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58 Ground		No
A. WITO	32		NO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Refer to RF-105, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

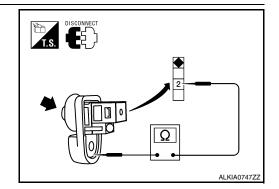
>> Inspection End.

Component Inspection

1. CHECK DOOR SWITCH

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

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



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
ED MIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED WACHED OW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
FR WIPER IN	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDN CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONALI	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LUDEAMOW	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CW/4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMB OW	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
DA COINIC CIAI	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC CW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD SW AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD CW DD	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD SW DI	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

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Monitor Item	Condition	Value/Status
CDL LOCK SW	Other than power door lock switch LOCK	OFF
ODE LOOK SW	Power door lock switch LOCK	ON
CDL LINI OCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
NET CTL LK-SW	Driver door key cylinder LOCK position	ON
ZEV CVI LINI CW	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
JA7ADD 6\M	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
ED CANCEL CW	Trunk lid opener cancel switch OFF	OFF
FR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN SW	Trunk lid opener switch OFF	OFF
FR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
DKE LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
NE LINI COL	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
NE TO IDD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DIVE DANIO	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
N/E DAM ODEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
DIVE MODE ONO	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OF HOAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEO CW DD	When front door request switch is not pressed (driver side)	OFF
REQ SW-DR	When front door request switch is pressed (driver side)	ON
DEO SW AS	When front door request switch is not pressed (passenger side)	OFF
REQ SW-AS	When front door request switch is pressed (passenger side)	ON
DEO CW DI	When rear door request switch is not pressed (driver side)	OFF
REQ SW-RL	When rear door request switch is pressed (driver side)	ON
DEO SW DD	When rear door request switch is not pressed (passenger side)	OFF
REQ SW-RR	When rear door request switch is pressed (passenger side)	ON
250 014 55 75	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON

Revision: November 2009 RF-107 2010 Maxima

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

Monitor Item	Condition	Value/Status
IGN RLY 2-F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
	Ignition switch ACC or ON	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN/N SW	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
S/L-LOCK [*]	Electronic steering column lock LOCK status	OFF
	Electronic steering column lock UNLOCK status	ON
S/L-UNLOCK*	Electronic steering column lock UNLOCK status	OFF
	Electronic steering column lock LOCK status	ON
S/L RELAY-F/B*	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
UNLK SEN-DR	Driver door UNLOCK status	OFF
	Driver door LOCK status	ON
PUSH SW-IPDM	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
DETE SW -IPDM	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
SFT P-MET	When selector lever is in any position other than P	OFF
	When selector lever is in P position	ON
SFT N-MET	When selector lever is in any position other than N	OFF
	When selector lever is in N position	ON
ENGINE STATE	Engine stopped	STOP
	While the engine stalls	STALL
	At engine cranking	CRANK
	Engine running	RUN
S/L LOCK-IPDM*	Electronic steering column lock LOCK status	OFF
	Electronic steering column lock UNLOCK status	ON
S/L UNLK-IPDM*	Electronic steering column lock UNLOCK status	OFF
	Electronic steering column lock LOCK status	ON
S/L RELAY-REQ*	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

< ECU DIAGNOSIS >

Driver door UNLOCK status Passenger door LOCK status DOOR STAT-AS Wat with selective UNLOCK operation (5 seconds) Passenger door UNLOCK status DOK FLAG Ignition switch ACC or ON Ignition switch ACF PRMT ENG STRT When the engine start is permitted When Intelligent Key is not inserted into key slot OFF When Intelligent Key is inserted into key slot When Intelligent Key is inserted into key slot When Intelligent Key is inserted into key slot The key ID that the key slot receives does not accord with any key ID registered to BCM. The key ID that the key slot receives does not accord with the fourth key ID registered to BCM. The key ID that the key slot receives accords with the fourth key ID registered to BCM. The key ID that the key slot receives accords with the fourth key ID registered to BCM. The key ID that the key slot receives does not accord with the third key ID registered to BCM. The key ID that the key slot receives does not accord with the second key ID registered to BCM. The key ID that the key slot receives does not accord with the second key ID registered to BCM. The key ID that the key slot receives does not accord with the second key ID registered to BCM. The key ID that the key slot receives does not accord with the first key ID registered to BCM. The key ID that the key slot receives does not accord with the first key ID registered to BCM. The key ID that the key slot receives does not accord with the first key ID registered to BCM. The key ID that the key is not registered to BCM. The key ID that the key is not registered to BCM. The ID of fourth key is registered to BCM. The ID of fourth key is registered to BCM. The ID of fourth key is registered to BCM. The ID of fourth key is registered to BCM. The ID of first key is not registered to BCM. The ID o	Monitor Item	Condition	Value/Status
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SET		Passenger door UNLOCK status	UNLK
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When intelligent Key is inserted into key slot ON OPERION ON Intelligent Key is inserted into key slot ON OPERION	PRIVIT ENG STRT	When the engine start is permitted	SET
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Key ID registered to BCM. The key ID that the key slot receives accords with the fourth key ID DONE	CONFRIM ID ALL		DONE
The key ID that the key slot receives accords with the fourth key ID registered to BCM. The key ID that the key slot receives does not accord with the third key ID registered to BCM. The key ID that the key slot receives accords with the third key ID pone. The key ID that the key slot receives accords with the third key ID pone. The key ID that the key slot receives does not accord with the second key ID registered to BCM. The key ID that the key slot receives accords with the second key ID registered to BCM. The key ID that the key slot receives accords with the first key ID registered to BCM. The key ID that the key slot receives does not accord with the first key ID registered to BCM. The key ID that the key slot receives accords with the first key ID pone. The key ID that the key slot receives accords with the first key ID pone. The ID of fourth key is not registered to BCM. The ID of fourth key is not registered to BCM. The ID of fourth key is registered to BCM. The ID of third key is not registered to BCM. The ID of third key is not registered to BCM. The ID of third key is registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of first key is not registered to BCM. The ID of second key is registered to BCM. The ID of first key is not registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The ID of second key is registered to BCM. The	CONFIDM ID4		YET
Rey ID registered to BCM. The key ID that the key slot receives accords with the third key ID DONE	CONFIRM ID4		DONE
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ONFIRM ID2 ond key ID registered to BCM. The key ID that the key slot receives accords with the second key ID registered to BCM. The key ID that the key slot receives does not accord with the first key ID registered to BCM. The key ID that the key slot receives accords with the first key ID pone. The key ID that the key slot receives accords with the first key ID pone. The key ID that the key slot receives accords with the first key ID pone. The ID of fourth key is not registered to BCM The ID of fourth key is registered to BCM The ID of third key is registered to BCM The ID of third key is registered to BCM The ID of second key is not registered to BCM The ID of second key is not registered to BCM The ID of second key is registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received)	CONFIRM ID3		DONE
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The ID of third key is registered to BCM The ID of second key is not registered to BCM The ID of second key is registered to BCM The ID of second key is registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is registered to BCM The ID of first key is registered to BCM DONE AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FR Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received) Ignition switch ON (only when the signal from the transmitter is received)	IF 4	The ID of fourth key is registered to BCM	DONE
The ID of third key is registered to BCM The ID of second key is not registered to BCM The ID of second key is registered to BCM The ID of first key is registered to BCM The ID of first key is not registered to BCM The ID of first key is registered to BCM The ID of first key is registered to BCM AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) Air pressure of rear I H tire	TD 0	The ID of third key is not registered to BCM	YET
The ID of second key is registered to BCM The ID of first key is not registered to BCM The ID of first key is registered to BCM The ID of first key is registered to BCM The ID of first key is registered to BCM AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received)	IP 3	The ID of third key is registered to BCM	DONE
The ID of second key is registered to BCM The ID of first key is not registered to BCM The ID of first key is not registered to BCM The ID of first key is registered to BCM DONE AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) Air pressure of rear I H tire		The ID of second key is not registered to BCM	YET
The ID of first key is registered to BCM AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received)	IP2	The ID of second key is registered to BCM	DONE
The ID of first key is registered to BCM Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FL Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received)		The ID of first key is not registered to BCM	YET
Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS FR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is received)	ΓP 1		
AIR PRESS FR ceived) AIR PRESS RR Ignition switch ON (only when the signal from the transmitter is received) AIR PRESS RI Ignition switch ON (only when the signal from the transmitter is relative pressure of rear I H tire) Air pressure of rear I H tire	AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is re-	Air pressure of front LH tire
ceived) All pressure of real RH tire All pressure of real LH tire All pressure of real LH tire	AIR PRESS FR		Air pressure of front RH tire
AIR PRESS RI AII DIESCUIE OLIENTI EL IIIE	AIR PRESS RR		Air pressure of rear RH tire
	AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is re-	Air pressure of rear LH tire

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID REGGITET	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGST FRT	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID REGST RRT	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGST RET	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WARINING LAWP	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

^{*:} With electronic steering column lock

[WITH DUAL PANEL SUNROOF]

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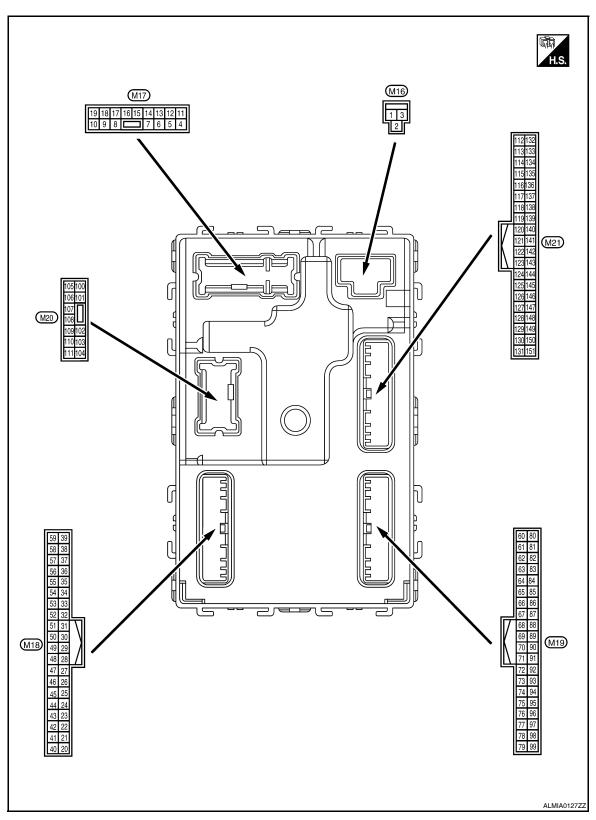
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Р

Terminal Layout INFOID:0000000005511870



Physical Values INFOID:0000000005511871

Termi	inal No.	Description				.,,
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	1	Battery voltage
4	Cround	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	O	Front door RH UN-	0	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	TION GOOF KIT	Other than UNLOCK (actuator is not activated)	0V
7	Craund	Cton lawn	Outout	Cton lower	ON	0V
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Craund	All doors LOCK	Output	output All doors -	LOCK (actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output		Other than LOCK (actuator is not activated)	ov
9	Ground	Front door LH UN-		UNLOCK (actuator is activated)	Battery voltage	
(L)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	ov
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Giouna	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0V
					OFF	OV
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB
15	0	A00 : - 1: - 1	0	1	OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V

< ECU DIAGNOSIS >

	inal No.	Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	OV	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0	
					Turn signal switch OFF	0V	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0	
						1 s PKID0926E	
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage	
(Y)	0.00.10	control	Опіриі	lamp	ON	0V	
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)	Ordana	option concor agrical	mpat	ON	When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
26	Cravind	Cton lamp quitab 2	lmm.it	Cton lamp quitab	OFF (brake pedal is released)	0V	R
(O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	ON (brake pedal is depressed)	Battery voltage	
						(V)	
27 (O)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	15 10 5 0	
						JPMIA0011GB 11.8V	
					UNLOCK status	0V	
29	0	Kan alat amitab	lant	When Intelligent K	ey is inserted into key slot	Battery voltage	
(Y)	Ground	Key slot switch	Input	When Intelligent K	ey is not inserted into key slot	0V	
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0	
(V/Y)	Ground	7.00 ICEUDACK SIGNAL	mput	iginuon switch	ACC or ON	Battery voltage	
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V	
(G)		ger feedback signal		fogger switch	ON	Battery voltage	

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when front door RH opens)	OV
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0V
38 (GR/	Ground	Rear window defog-	Input	Rear window de-	OFF	5V
(W)	3.34.14	ger ON signal		fogger switch	ON	0V
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF	F or ACC	0V
41		Engine switch (push		Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0V
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON	OFF	Battery voltage 0V
46	Ground	Receiver & sensor	Outout	Ignition switch	OFF	0V
(V/W)	Giouria	power supply output	Output	Igrillion switch	ACC or ON	5.0V

< ECU DIAGNOSIS >

	inal No.	Description				Value	Λ
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
47 ¹		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s	B C
(G/O)	Ground	er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 	E
48		Selector lever trans-			P or N position	12.0V	G
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V	
					ON	0V	Н
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB 11.3V	J
					OFF	Battery voltage	RF
-					All switch OFF	0V	
50 (LG/	Ground	Combination switch	Output	Combination switch	Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND	(V) 15 10 5	L
B)	Giodila	OUTPUT 5	σαιραί	(Wiper intermit- tent dial 4)	Turn signal switch RH	0 2 ms JPMIA0031GB	M
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	10.7V 0V (V) 15 10 2 ms JPMIA0032GB	O P

Term	inal No.	Description				
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)		Output		All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	(V)
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB
					All switch OFF	OV
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB
					All suitab OFF	10.7V
					All switch OFF	0V
					Front fog lamp switch ON Lighting switch 2ND	(V)
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit-	Lighting switch flash-to- pass	15
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
57 ¹ (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)		ger relay	•	fogger	Not activated	0V

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
60	Ground	Front console anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(B/R)	Glound	na 2 (-)	Cutput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
61		Center console an-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s
(W/R)	Ground	tenna 2 (+)	Output	in	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
62	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
63	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(P)	Glodina	RH antenna (+)	Cuput	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
64	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Gloane	LH antenna (-)	Сигри	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
65	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(P)	Cround	LH antenna (+)	Cutput	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(L/O)	Glound	receiver signal	Output	When operating ei	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
75 (R/Y)		Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
			•		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0041GB	
76	Ground	Combination switch	Input Combination switch			Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
(R/G)		INPUT 3		switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	
77 ²	Ground	Engine switch (push	Input	Engine switch	Pressed	0V	
(BR) 78		switch)	Input/	(push switch)	Not pressed	Battery voltage	
(P)	Ground	CAN-L	Output		_	_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
					OFF	0V	
80 (R/L)	Ground	Ground Key slot illumination Ou	Output	Output Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					ON	6.5V Battery voltage	
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	inal No. e color)	Description	T		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V Battery voltage
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85 ³ (L/O)	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status Unlock status	0V Battery voltage
86 ³	Ground	No. 1 Electronic steering column lock condition	Input	Electronic steer-	Lock status	Battery voltage
(G/R)	Giound	No. 2	Input	ing column lock	Unlock status	0V
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Cidana	tion switch	pat	23.33.31	Any position other than P ON (pressed)	Battery voltage
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed) ON (pressed)	(V) 15 10 5 10 ms JPMIA0016GE 1.0V
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 10 ms JPMIA0016GB
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0V Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	=	Battery voltage
94 ³		Steering wheel lock	Output	Ignition switch	OFF or ACC	Battery voltage

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

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[WITH DUAL PANEL SUNROOF]

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

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

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[WITH DUAL PANEL SUNROOF]

	inal No. e color)	Description			Condition	Value				
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	,			
					LOCK status	Battery voltage				
99 ³ (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer-ing column lock	LOCK or UNLOCK	(V) 15 10 50 MKIA0066GB				
					For 15 seconds after UN- LOCK	Battery voltage				
					15 seconds or later after UNLOCK	0V				
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage				
(V)	Giodila		Output	Trunk iid	Close (trunk lid opener actuator is not activated)	0V				
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V				
(V/VV)				-	OFF	Battery voltage				
114		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB				
(B)	Ground	1 (-)	Output	OFF			F			
(B)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB				

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

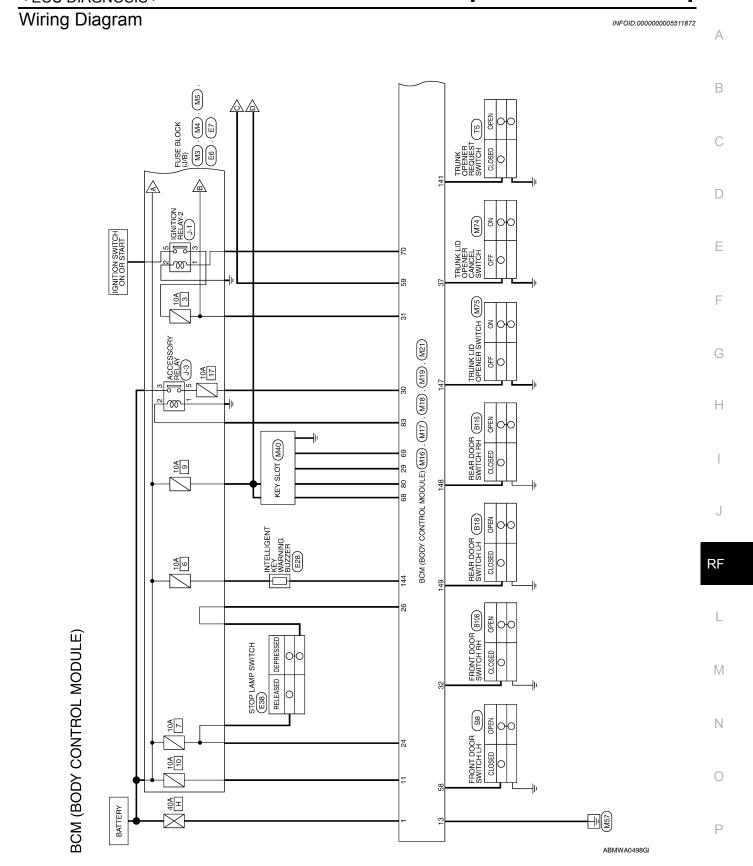
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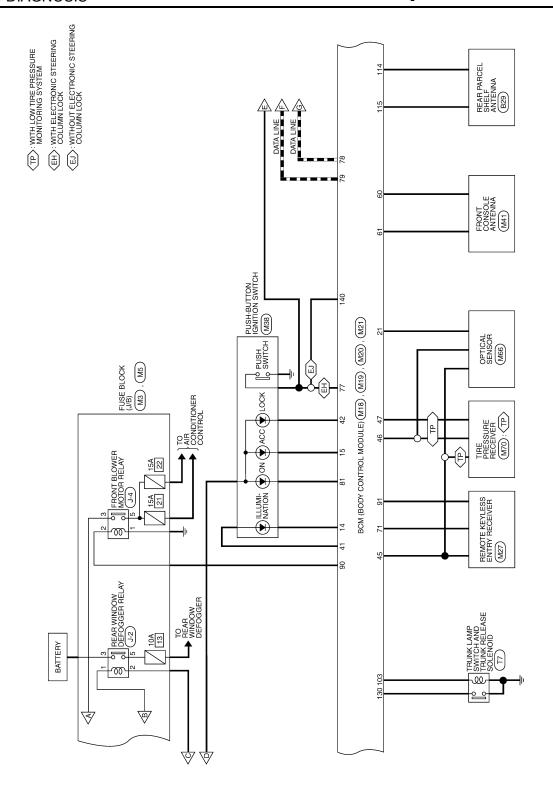
	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
127		Ignition relay (IPDM	0 1: 1	192	OFF or ACC	Battery voltage
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (trunk is open)	0V
132	Constitution	Starter motor relay	Outract	When selector lever is or N position and the b is depressed		Battery voltage
(R)	Ground	control	Output	ŎN	When selector lever is in P or N position and the brake is not depressed	ov
140 ⁴	0	Engine switch (push	1. 1	Engine switch	Pressed	OV
(L/R)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (BR)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB 1.0V
144		Request switch buzz-		Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147		Trunk lid opener		Trunk lid opener	Pressed	0V
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door RH opens)	11.8V 0V

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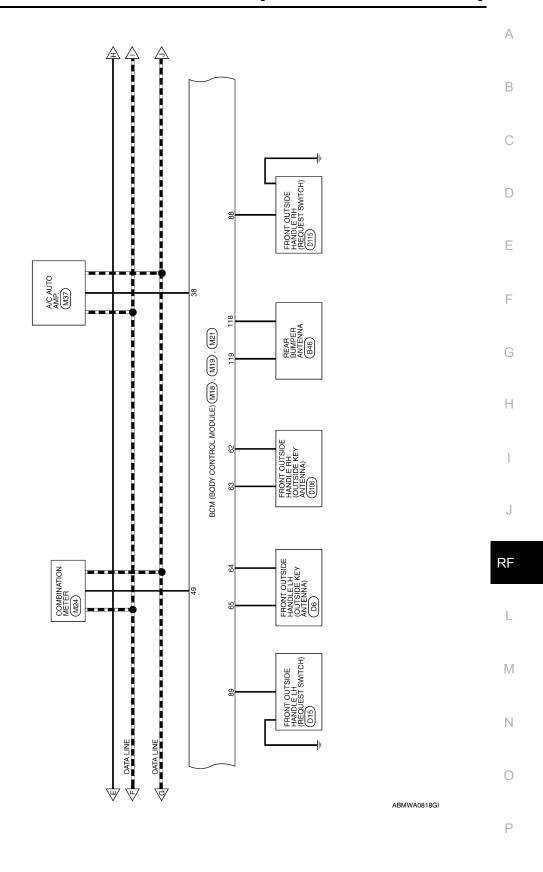
	inal No.	Description				Value
(VVire	e color)	Signal name	Input/		Condition	(Approx.)
(+)	(-)	Signal name	Output			(* 155. 57.1)
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door LH opens)	0V

- 1 : With low tire pressure monitoring system
- 2: With electronic steering column lock
- 3 : Early production
- 4 : Without electronic steering column lock

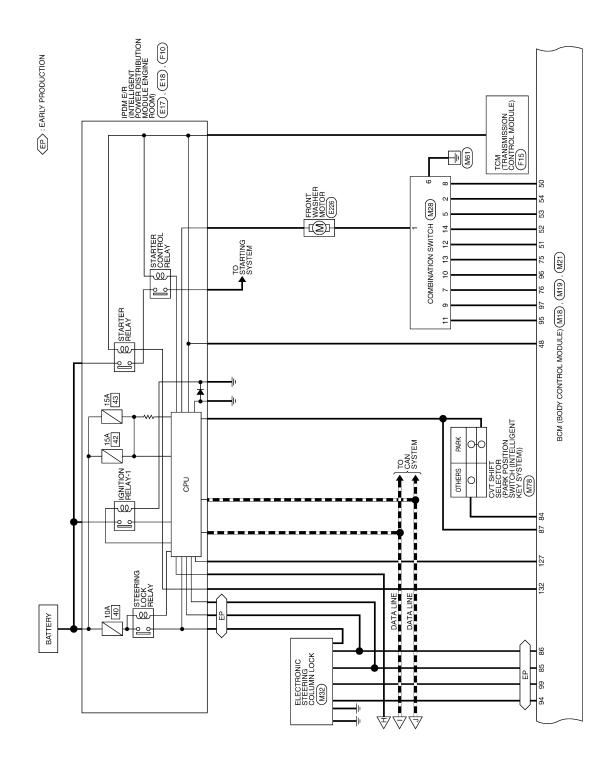




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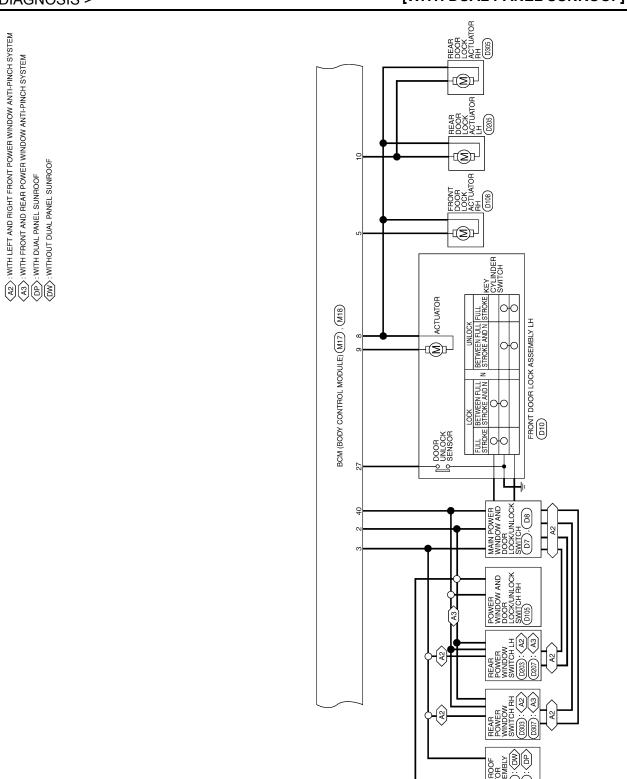
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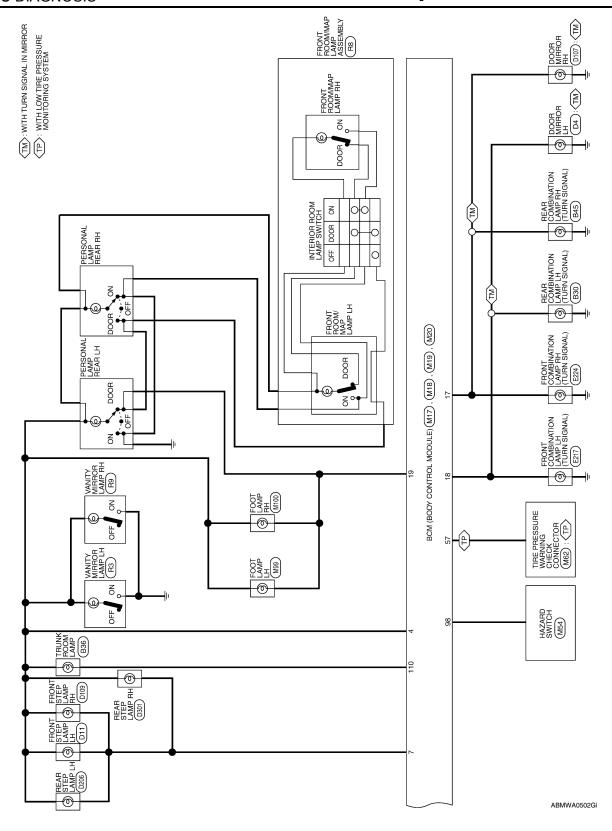
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	Signal Name	GND RF2 A/L	A/L POWER SUPPLY 5V	RF2 TUNER SIGNAL	SHIFT N/P/ NEUTRAL SW	IMMO LED (SECURITY INDICATOR)	OUTPUT 5	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT4	_	I	TPMS MODE	WS ROOD RO	REAR DEFOGGER
	Color of Wire	۵	W/A	9/0	R/G	9	LG/B	MΠ	G/B	LG/R	G/Y	1	ı	Μ	SB	G/R
	Terminal No.	45	46	47	48	49	50	51	52	53	54	55	56	25	58	29

Signal Name	R/L POWER SUPPI	DOOR UNLOCK OUTPUT AS	_	STEP LAMP CON	DOOR LOCK OUTPUT ALL	DOOR UNLOCK OUTPUT (DR/FL)
Color of Wire	P/W	ŋ	_	R/W	>	٦
Terminal No. Wire	4	5	9	7	8	6

Signal Name	DOOR LOCK STATUS DR	ı	FOB IN SW 1	ACC F/B	IGN F/B	AS DOOR SW 1	ı	ı	1	1	TRUNK CANCEL SW	REAR DEFOGGER SW	_	PW K-LINE	RING LED	S/L LOCK LED	I	_
Color of Wire	0	ı	>		g	B/B	ı	ı	ı	I	0	GR/W	1	Y/G	Μ	В	ı	1
Terminal No.	27	28	59	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44

Connector Nam	Connector Colo	



]	Signal Name	BATT (F/L)	P/W POWER SUPPLY PERM	P/W POWER SUPPLY IGN	
J	Color of Wire	M/B	R/Y	N/J	
	Terminal No. Wire	1	2	3	

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



Signal Name	-	A/L SIGNAL TYPE 1	_	-	BRAKE SW1	_	BRAKE SW2
Color of Wire	ı	B/B	1	ı	B/W	Ι	O/L
Terminal No. Wire	20	21	22	23	24	25	26

ABMIA1331GB

BCM (BODY CONTROL MODULE) CONNECTORS

Connector Name BCM (BODY CONTROL MODULE)

M16

Connector No.

BLACK

Connector Color

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Signal Name	AT DEVICE OUT	S/L CONDITION 1	S/L CONDITION 2	SHIFT P/ASCD CANCEL SW	AS REQUEST SW	DR REQUEST SW	BLOWER FAN RELAY	RF POWER SUPPLY 12V	ı	ı	S/L POWER SUPPLY 12V	INPUT 1	INPUT 4	INPUT 2	HAZARD SW	S/L K-LINE
Color of Wire	Y/R	0/1	G/R	G/B	Œ	æ	>	5	ı	1	G/Y	₩.	P/B	R/B	9/0	\sim
Terminal No.	84	85	98	87	88	68	06	91	92	93	94	92	96	97	86	66

Signal Name	-	FOB READER CLOCK	FOB READER DATA	IGN REL OUTPUT 2	RF1 TUNER SIGNAL	_	_	ı	INPUT 5	INPUT 3	ENG START SW	CAN-L	CAN-H	FOB SLOT ILLUMINATION	IGN ON LED	_	ACC CONT
Color of Wire	1	0/9	0	B/B	L/O	ı	_	1	R/Y	B/G	BR	Ь	Т	R/L	ГG	_	Г
Terminal No.	29	89	69	70	71	72	73	74	75	92	77	78	79	80	81	82	83

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_			ı	61	81
				62	82 81
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e 5	60	6	46	11	26
E	Ε.	Ē	H.S.	78	86
Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color BLACK	慢	79	66
		_			

Signal Name	ROOM ANT 2 B	ROOM ANT 2 A	AS DOOR ANT B	AS DOOR ANT A	DR DOOR ANT B	DR DOOR ANT A	ı
Color of Wire	B/R	W/R	>	۵	۸	Ь	ı
Terminal No.	09	61	62	63	64	9	99

Signal Name	I	I	I	I	I	I	TRUNK LAMP CONT	I
Color of Wire	1	1	ı	1	ı	1	W/V	1
Terminal No. Wire	104	105	106	107	108	109	110	111

M20	Connector Name BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

106 107 108 109 110 111	Signal Name	1	ı	-	CDL BACK TRUNK
105 106 1	Color of Wire	1	ı	-	>
H.S.	Terminal No. Wire	100	101	102	103

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Signal Name	ı	-	I	ı	ENG START SW W/O ESCL	TRUNK REQUEST SW	1	1	BUZZER	ı	_	BACK TRUNK OPENER	RR DOOR SW	RL DOOR SW	-	-
Color of Wire	ı	ı	ı	ı	BR	BB	1	1	GR	1	1	L/R	B/W	B/B	1	1
Terminal No.	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151

Signal Name	BACK DOOR ANT A	ı	ı	1	ı	ı	ı	1	IGN RELAY OUTPUT	ı	I	TRUNK SW	ı	ST RELAY OUTPUT	I	I	1
Color of Wire	BR/W	-	1	1	ı	ı	1	1	BR/W	ı	1	>	1	۳	-	1	1
Terminal No.	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Connector Name Connector Name Connector Color H.S. (3) (3) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	M21 M21 MODU MODU MODU GRAY MODU GRAY MODU MO	M21 Sonnector Name BCM (BODY CONTROL MODULE) Sonnector Color GRAY	[2] [3]
112	ſ	ı	
113	1	ı	
114	α	TRIINK ANT 1 B	

	Signal Name	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
-	Color of Wire	B/B	B/W	L/W	R/Y	G/B
	Terminal No. Color of Wire	10	11	12	13	14

	COMBINATION SWITCH	11	10 11 12 13 14	Signal Name	ı	OUTPUT 4	OUTPUT 3	ı	INPUT 3	OUTPUT 5	INPUT 2
. M28		lor WH	- L L	Color of Wire	R/L	G/Y	LG/R	В	R/G	LG/B	B/B
Connector No.	Connector Name	Connector Color WHITE	原 H.S.	Terminal No.	1	2	5	9	7	8	6

ABMIA2102GB

Fail Safe

BACK DOOR ANT B

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TRUNK ANT 1 A

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115

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L*	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM*	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC

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Display contents of CONSULT	Fail-safe	Cancellation
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2557: VEHICLE SPEED*	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	 Inhibit engine cranking Inhibit electronic steering column lock* 	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION*	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION*	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h or more
B2603: SHIFT POSI STATUS*	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever transmission range switch signal: Except P and N positions (0 V)
B2604: TRANSMISSION RANGE SWITCH*	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Status 1 Ignition switch is in the ON position Selector lever transmission range switch signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever transmission range switch signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: TRANSMISSION RANGE SWITCH*	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever transmission range switch signal: Except P and N positions (0 V) - Transmission range switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever transmission range switch signal: P or N position (battery voltage) - Transmission range switch signal (CAN): ON
B2606: S/L RELAY*	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)

< ECU DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

Display contents of CONSULT	Fail-safe	Cancellation			
B2607: S/L RELAY*	Inhibit engine cranking	 500 ms after the following CAN signal communication status has become consistent Electronic steering column lock relay signal (Request signal) Electronic steering column lock relay signal (Condition signal) 			
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)			
B2609: S/L STATUS*	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status			
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) 			
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)			
B2612: S/L STATUS [*]	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)			
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal			
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM be comes normal			
B2619: BCM*	Inhibit engine cranking	1 second after the electronic steering column lock unit power supply output control inside BCM becomes normal			
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled Power position changes to ACC Receives engine status signal (CAN)			

^{* :} With electronic steering column lock

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	B2562: LO VOLTAGE	_
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM	- F

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INFOID:0000000005511874

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^{* :} With electronic steering column lock

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DTC Index

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-36
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-37
U0415: VEHICLE SPEED SIG	_	_	_	BCS-38
B2013: ID DISCORD BCM-S/L*	×	_	_	SEC-39
B2014: CHAIN OF S/L-BCM*	×	_	_	<u>SEC-40</u>
B2190: NATS ANTENNA AMP	×	_	_	SEC-43
B2191: DIFFERENCE OF KEY	×	_	_	SEC-46
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-47</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-48</u>
B2553: IGNITION RELAY	_	_	_	PCS-55
B2555: STOP LAMP	_	_	_	SEC-49
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-52</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-54</u>
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-55</u>
B2562: LOW VOLTAGE	_	_	_	BCS-39
B2601: SHIFT POSITION	×	×	_	<u>SEC-56</u>
B2602: SHIFT POSITION	×	×	_	<u>SEC-59</u>
B2603: SHIFT POSI STATUS	×	×	_	<u>SEC-62</u>
B2604: TRANSMISSION RANGE SWITCH	×	×	_	<u>SEC-65</u>
B2605: TRANSMISSION RANGE SWITCH	×	×	_	<u>SEC-67</u>
B2606: S/L RELAY*	×	×	_	SEC-69
B2607: S/L RELAY*	×	×	_	SEC-70
B2608: STARTER RELAY	×	×	_	<u>SEC-72</u>
B2609: S/L STATUS*	×	×	_	SEC-74
B260A: IGNITION RELAY	×	×	_	PCS-57
B260B: STEERING LOCK UNIT*	_	×	_	<u>SEC-78</u>
B260C: STEERING LOCK UNIT*	_	×	_	SEC-79
B260D: STEERING LOCK UNIT*	_	×	_	SEC-80
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-81</u>
B2612: S/L STATUS [*]	×	×	_	SEC-83
B2614: ACC RELAY CIRC	_	×	_	PCS-59

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2615: BLOWER RELAY CIRC	_	×	_	PCS-62
B2616: IGN RELAY CIRC	_	×	_	PCS-65
B2617: STARTER RELAY CIRC	×	×	_	PCS-65
B2618: BCM	×	×	_	PCS-68
B2619: BCM [*]	×	×	_	<u>SEC-89</u>
B261A: PUSH-BTN IGN SW	_	×	_	<u>SEC-90</u>
B2622: INSIDE ANTENNA	_	_	_	<u>DLK-60</u>
B2623: INSIDE ANTENNA	_	_	_	<u>DLK-63</u>
B26E1: ENG STATE NO RES	×	×	_	<u>SEC-82</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-48</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-48</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-48</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-48</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-14</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-14</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-14</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-16</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-16</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-16</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-18</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-16</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-16</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-16</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR		_	×	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL		_	×	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR			×	<u>WT-20</u>
C1734: CONTROL UNIT		_	×	<u>WT-21</u>

^{*:} With electronic steering column lock

SUNROOF MOTOR ASSEMBLY

< ECU DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

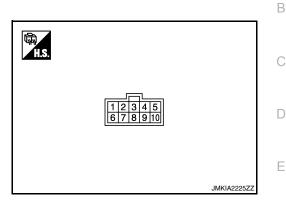
SUNROOF MOTOR ASSEMBLY

Reference Value

INFOID:0000000005461878

Α

TERMINAL LAYOUT



PHYSICAL VALUES

Ground

(P)

Communication line

Terminal No. Description (Wire color) Voltage (V) Condition (Approx.) Input/ Signal name Output 0 Ground Ground (B) 2 Ground Ground 0 (O) Ignition switch ON Battery voltage Within 45 second after ignition switch is Battery voltage turned to OFF. 3 Ground RAP signal Input (R) When driver side or passenger side door is opened during retained power opera-0

tion or retained power operation is finished. **PUSH** 0 Sunroof switch signal 4 Ground Input Sunroof switch Other than (PUSH) (Y) Battery voltage above **OPEN** 0 (1st and 2nd) 5 Sunroof switch signal Input Ground Sunroof switch (LG) (OPEN) Other than Battery voltage above 6 Ground Battery voltage Battery voltage (L)

Input/

Output

(V)
15
10
5
0
JMKIA1869ZZ

RF

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Р

Ignition switch ON

SUNROOF MOTOR ASSEMBLY

Terminal No. (Wire color)		Description		Conditio	nn	Voltage (V)	
+	-	Signal name	Input/ Output	Condition	711	(Approx.)	
8 (BR)	Ground	Vehicle speed signal (2-pulse)	Input	Speed meter operated speed is approx. 40km/		(V) 6 4 2 0 50ms ELF1080D	
9 (W)	Ground	Sunroof switch signal (2nd)		Sunroof switch	OPEN or CLOSE (2nd)	0	
(**)		(2110)			Other than above	Battery voltage	
10	Ground	Sunroof switch signal (CLOSE)		Sunroof switch	CLOSE (1st and 2nd)	0	
(V)	Giouna			Sumon switch	Other than above	Battery voltage	

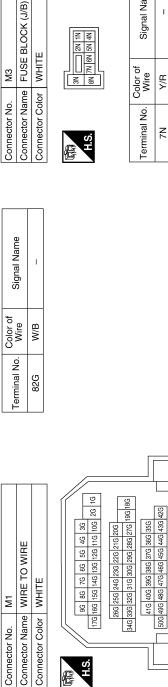
Р

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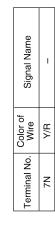
Wiring Diagram INFOID:0000000005461879 Α В 6 SUNSHADE MOTOR ASSEMBLY (R102) C 10 D SUNROOF SWITCH (R14) UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) Е 10 9 ; SUNROOF MOTOR ASSEMBLY (R101) M13) (R2) F (FE) G M13 Н 42 FUSE BLOCK (J/B)
(M3), (M4), (M5) R10 10A 7 J IGNITION SWITCH ACC OR ON 10A WEST WEST RF BCM (BODY CONTROL MODULE)
(M16), (M17), (M18) L OPEN lok FRONT DOOR SWITCH LH (B8) 82G M1 CLOSED 404 M BATTERY **DUAL PANEL SUNROOF** Ν OPEN FRONT DOOR SWITCH RH (B108) 0 CLOSED

RF-145 Revision: November 2009 2010 Maxima

DUAL PANEL SUNROOF CONNECTORS



僵





Connector Name | FUSE BLOCK (J/B)

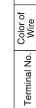
M2

Connector No.

WHITE

Connector Color





Signal Name	1
Color of Wire	R/W
Terminal No.	90

Signal Name	_
Color of Wire	V/Y
Terminal No.	4M

ABKIA1885GB

72G 71G 70G 69G 68G 67G 66G 80G 79G 78G 77G 76G 75G 74G 73G 65G 64G

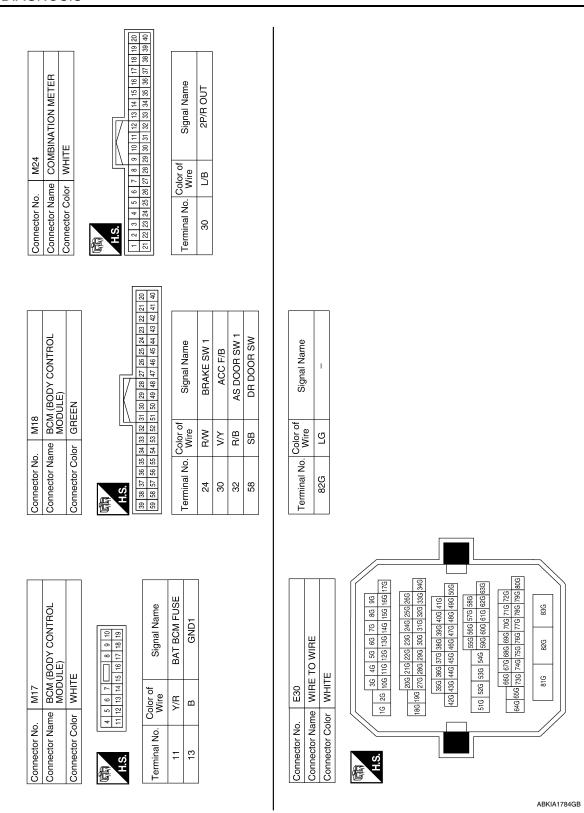
82G

836

58G 57G 56G 55G 63G 62G 61G 60G 59G 54G 53G 52G 51G

		А
WHRE TO WIRE WHITE WHITE 2 3 4 5 6 7 8 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	BCM (BODY CONTROL MODULE) BLACK italiaa rof Signal Name B BATT (F/L) PW POWER V SUPPLY PERM V SUPPLY IGN	В
mector No. mector Nome mector Color minal No. Www. Www.	nector No. nector Color inal No. Wir. 2 R// 3 L/V	D
GO CO		F.
Signal Name	WHRE TO WIRE WHITE	G
Terminal No. Color of Wire 10J SB		H
Terminal 10J	Connector Name Connector Color H.S. Terminal No. Color 1 R 4 R 5	J
201 19J 18J 18J 18J 18J 18J 18J 18J 18J 18J 18	WIRE 10 9 8	RF
WIRE TO WIRE WHITE WHITE 91 8J 72 64 52 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MHITE WHITE WHITE	М
Connector No. Connector Name Connector Color H.S. (K.S.) (S.S.) (S.S.) (S.S.) (S.S.) (S.S.) (S.S.) (S.S.)	Connector Name Connector Color H.S. Terminal No. V	N O
	АВ	ikia1141GB

Revision: November 2009 RF-147 2010 Maxima



SUNROOF MOTOR ASSEMBLY

[WITH DUAL PANEL SUNROOF]

< ECU DIAGNOSIS >

		Α
Signal Name	WIRE Signal Name	В
RONT DOOR HITE Signa	TE TO	С
SB SB		D
Connector No. Connector Cold Connector Cold H.S. Terminal No.	Connector No. Connector Name Connector Color H.S. 13	Е
		F
Signal Name	Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE Wire Signal Name 2 GR -	G
Color of SB SB	Solor of GR	Н
Terminal No. Co	Connector No. Connector Color Connector Color Terminal No. Z Go	I
		J
84 93 84 93 153 164 173 154 164 173 154 155 154 155 154 155 154 155 154 155 154 155 154 155 157 155		RF
	NVIRE 13 14 15 16 7 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	L
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE 1.0 20 100 110 120 120 120 120 120 120 120	Connector No. B104	M
Connector No. B1 Connector Name WIRE T Connector Color WHITE (1) 24 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 1	Connector No. Connector Color Connector Color Connector Color R.S. 15. Color Terminal No. No. No. No. No. No. No. No.	0
	ABKIA0427GB	Р
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Revision: November 2009 RF-149 2010 Maxima

Connector No. H14 Connector Name SUNROOF SWITCH (WITH DUAL PANEL SUNROOF)	Connector Color WHITE	1 2 3 4) h		Terminal No. Color of Signal Name		۵ (5 >	- (-	LG	HOSH HOSH																	
WIRE TO WIRE WHITE		12 11 10 9 8 7 6	r of Signal Name	1	1	-			ı	1	ı	1	ı	-		e Signal Name	ı	ı	ı	1	1							
Connector Name Connector Color		H.S.	Terminal No. Wire	г		3 LG	4 L/B	5 L/W	7 B	8 B	6	10 B/L	11	12 R/Y	Color of	l erminal No. Wire	8 B	M 6	10 B	11 LG	12 L							
or Name WIRE TO WIRE		0 2 0 1		No. Color of Signal Name		B/L –	- 8/1								No 8100	1	TOO O	3 I I I I I I I I I I I I I I I I I I I	0	6 7 8 9 10 11 12		No. Color of Signal Name	- 5	\ \	- · · · · · · · · · · · · · · · · · · ·	_ BB	1	0

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ABKIA0429GB

R102	Connector Name SUNSHADE MOTOR ASSEMBLY	GRAY	
Connector No.	Connector Name	Connector Color GRAY	

4 0 10	Signal Name	GND2	BATT 2	SERIAL	(dc) UdddS
6 7 8 8	Color of Wire	В	ŋ	Д	BB
(中心 H.S.	Terminal No.	-	9	7	8

R101	nnector Name ASSEMBLY (WITH DUAL PANEL SUNROOF)	3RAY SAAY	
nnector No.	sector Name	nnector Color GRAY	

).1	SUNROOF MOTOR ASSEMBLY (WITH DU/ PANEL SUNROOF)	AY	8 01 0	Signal Name	
. R101		lor GRAY	1 2 3 6 7 8	Color of Wire	٥
Connector No.	Connector Name	Connector Color	斯 H.S.	Terminal No.	,

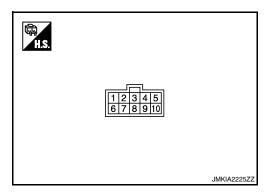
Signal Name	GND	ı	IGN	PUSH SW	OPEN SW	BATT	SERIAL	SPEED(2P)	2ND CLICK SW	CLOSE SW
Color of Wire	В	0	Я	٨	ГG	٦	Ь	BR	Μ	^
Terminal No. Wire	1	2	3	4	5	9	2	8	6	10

RF-151 Revision: November 2009 2010 Maxima

SUNSHADE MOTOR ASSEMBLY

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition	Voltage (V)
+	-	Signal name	Input/ Output		(Approx.)
1 (B)	Ground	Ground	_	_	0
6 (G)	Ground	Battery voltage		_	Battery voltage
7 (P)	Ground	Communication line	Input/ Output	Ignition switch ON	(V) 15 10 5 0 JMKIA1869ZZ
8 (BR)	Ground	Vehicle speed signal (2-pulse)	Input	Speed meter operated [When vehicle speed is approx. 40km/h (25MPH)]	(V) 6 4 2 0

Р

ABKWA0607GE

Wiring Diagram INFOID:0000000005530305 Α В 6 SUNSHADE MOTOR ASSEMBLY (R102) C 10 D SUNROOF SWITCH (R14) UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) Е 10 9 ; SUNROOF MOTOR ASSEMBLY (R101) M13) (R2) F (FE) G M13 Н 42 FUSE BLOCK (J/B)
(M3), (M4), (M5) R10 10A 7 J IGNITION SWITCH ACC OR ON 10A WEST WEST RF BCM (BODY CONTROL MODULE)
(M16), (M17), (M18) L OPEN lok FRONT DOOR SWITCH LH (B8) 82G M1 CLOSED 404 M BATTERY **DUAL PANEL SUNROOF** Ν OPEN FRONT DOOR SWITCH RH (B108) 0 CLOSED

RF-153 Revision: November 2009 2010 Maxima

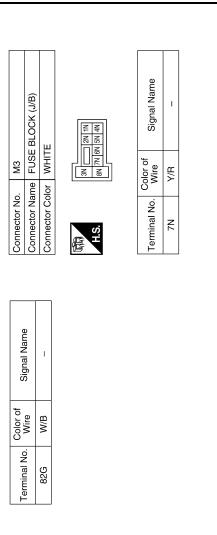
DUAL PANEL SUNROOF CONNECTORS

Connector Name WIRE TO WIRE

Ξ

Connector No.

Connector Color WHITE



9G 8G 7G 6G 5G 4G 3G 17G 16G 15G 14G 13G 12G 11G 10G 2G 1G

26G 25G 24G 23G 22G 21G 20G 34G 33G 32G 31G 30G 29G 28G 27G 19G 18G



M5

Connector No.



,	
Color of Wire	M/H
Terminal No.	90

Signal Name

Connector Na	ame FUS	Connector Name FUSE BLOCK (J/B)
Connector Color	olor WHITE	ΠE
H.S.	5M 4M 12M 11M 1	MT MS
Terminal No.	Color of Wire	Signal Name



Signal Name	I	
Color of Wire	٨/٨	
Terminal No.	4M	

ABKIA1885GB

72G 71G 70G 69G 68G 67G 66G 80G 79G 78G 77G 76G 75G 74G 73G 65G 64G

82G

836

58G 57G 56G 55G 63G 62G 61G 60G 59G 54G 53G 52G 51G

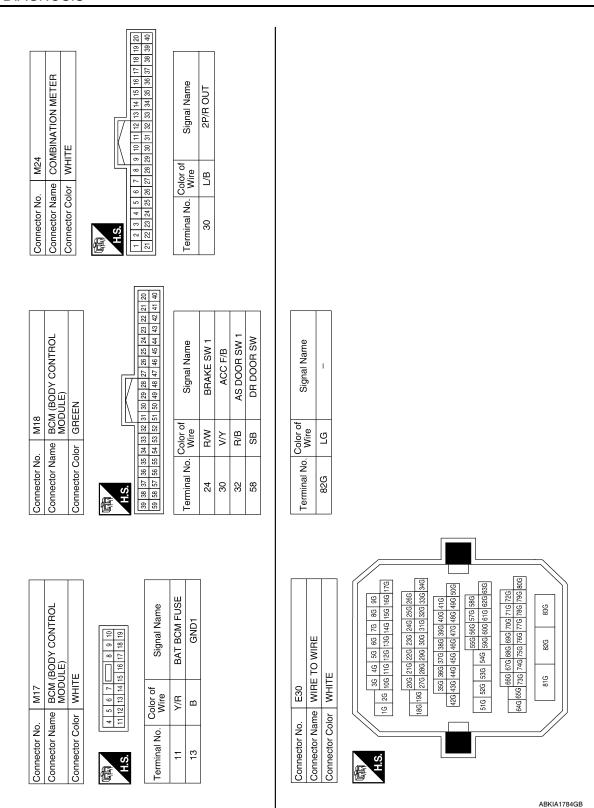
SUNSHADE MOTOR ASSEMBLY

[WITH DUAL PANEL SUNROOF]

< ECU DIAGNOSIS >

											А
M7 WIRE TO WIRE WHITE 2 3 4 5 6 7 8 0 11 12 13 14 15 16 ire Signal Name 3		BCM (BODY CONTROL MODULE)	(1		Signal Name	BATT (F/L)	P/W POWER SUPPLY PERM	P/W POWER SUPPLY IGN			В
	tor No. M16	Connector Name BCM (Bi	Connector Color BLACK	13	No. Color of Wire	W/B	R/∀	Γ/W			D
Connector No. Connector Col H.S. H.S. 13	Connector No.	Connec	Connec	H.S.	Terminal No.	-	N	ო			Е
											F
Signal Name		WIRE TO WIRE	ш		Signal Name	1	ı	1	1 1		G
Wire SB	M13	$\overline{}$	olor WHITE	1 c c 4	Color of Wire	R/Y	B -	3 %	E P		
Terminal No. Wire 10J SB	Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	0 0	0 4 1	ဂ		J
											RF
3E 44 33 110 100 21 10 110 100 21 10 110 100 21 10 110 100 21 10 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 138 1 110 100 39 13 13 13 13 13 13 13 13 13 13 13 13 13		Ę.		- 8 8	Signal Name	ı					L
E TO WIF	0	WIRE TO WIRE	WHITE	7 6 5 4 3 2 16 15 14 13 12 11 10 9							M
No. M6 M6 M1RE	r No. M10		_	7 6 5 14 15 14	No. Wire	B/B					N
Connector No. Connector Name Connector Color Substituting Substitutin	Connector No.	Connector Name	Connector Color	E.S.	Terminal No.	15					0
								Å	ABKIA114	11GB	Р

Revision: November 2009 RF-155 2010 Maxima



SUNSHADE MOTOR ASSEMBLY

		Α
Signal Name	WIRE Signal Name	В
HITE Signs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	С
Color of SB		D
Connector No Connector Connector Connector Connector Connector Connector Connector No Connector	Connector Na. Connector Cole Terminal No.	Е
		F
Signal Name	Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE Terminal No. Color of Signal Name Color of C	G
Color of Wire SB	Color of Write GR	Н
Terminal No. O	Connector No. Connector Color Connector Color Terminal No. Color	
		RF
3E 71 81 91 17 81 91 17 81 91 17 81 91 17 91 91 18 91 17 91 91 18 91 17 91 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18 91 18	Vame	L
12 12 13 15 16 17 17 17 17 17 17 17	B104 WHE TO WIRE WHITE Signal Name Signal Name CSR C	M
	Connector No. B104	Ν
Connector Nan Connector Cole H.S.	Connector No. Connector Color Connector Color Terminal No. Color 15 Gol	0
	ABKIA0427GB	Р

Revision: November 2009 RF-157 2010 Maxima

ABKIA0428GB

Signal Name Connector Name SUNSHADE MOTOR ASSEMBLY BATT 2 SERIAL GND2 Connector Color GRAY Connector No. R102 Color of Wire B G R Terminal No. 9

	SUNROOF MOTOR ASSEMBLY (WITH DUAL PANEL SUNROOF)			9 10	Signal Name	GND	ı	IGN	PUSH SW	OPEN SW	BATT	SERIAL	SPEED(2P)	2ND CLICK SW	CLOSE SW
. R101		lor GRAY		6 7 8	Color of Wire	В	0	Ж	\	ГG	٦	Ь	BR	W	>
Connector No.	Connector Name	Connector Color	4	H.S.	Terminal No.	-	2	က	4	5	9	7	8	6	10

SPEED (2P)

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SUNROOF DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

SYMPTOM DIAGNOSIS

SUNROOF DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000005461882

1. CHECK SUNROOF MECHANISM

Check the following.

- Operation malfunction caused by sunroof mechanism deformation, pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SUNROOF MOTOR ASSEMBLY POWER SUPPLY AND GROUND CIRCUIT

Check sunroof motor assembly power supply and ground circuit.

Refer to RF-96, "SUNROOF MOTOR ASSEMBLY: Diagnosis Procedure"

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK SUNROOF SWITCH

Check sunroof switch.

Refer to RF-100, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

SUNSHADE SYSTEM DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

SUNSHADE SYSTEM DOES NOT OPERATE PROPERLY

Diagnosis Procedure

INFOID:0000000005461883

1. CHECK SUNSHADE MECHANISM

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Check the following.

- Operation malfunction caused by sunshade mechanism deformation, pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SUNSHADE MOTOR ASSEMBLY POWER SUPPLY AND GROUND CIRCUIT

Check sunshade motor assembly power supply and ground circuit.

Refer to RF-97, "SUNSHADE MOTOR ASSEMBLY: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK COMMUNICATION CIRCUIT

Check communication circuit.

Refer to RF-99, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

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AUTO OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

AUTO OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005461884

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to RF-88, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Sunroof and sunshade system is normal.

NO >> GO TO 2.

2. CHECK SUNROOF SWITCH

Check sunroof switch.

Refer to RF-100, "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-39, "Intermittent Incident".

NO >> GO TO 1.

RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY [WITH DUAL PANEL SUNROOF]

< SYMPTOM DIAGNOSIS >

Is the result normal?

NO >> GO TO 1.

DETAINED DOMED OPERATION DOES NOT OPERATE DEODEDLY

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

RETAINED POWER OPERATION DOES NOT OPERATE PROPE	:RLY
Diagnosis Procedure	INFOID:0000000005461885
1.CHECK FRONT DOOR SWITCH	
Check front door switch. Refer to DLK-68, "Diagnosis Procedure".	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	

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ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005461886

1. CHECK SUNROOF AND SUNSHADE MECHANISM

Check the following.

- Operation malfunction caused by sunroof and sunshade mechanism deformation, pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. PERFORM INITIALIZATION

Perform initialization procedure.

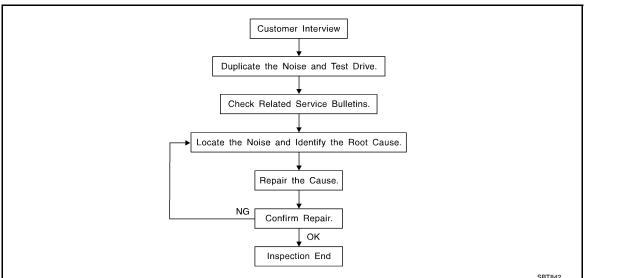
Refer to RF-88, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Sunroof and sunshade system is normal.

NO >> GO TO 1.

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to IP-6, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed descriptions or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
- higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
 Creak—(Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent
- Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.

 Rattle—(Like shaking a baby rattle)
- Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
 Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

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< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (with brakes applied, place CVT shift selector in drive position).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.

Refer to RF-167, "Generic Squeak and Rattle Troubleshooting".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADŚ [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-

71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 \times 50 mm (1.18 \times 1.97in)

FELT CLOTH TAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: $15 \times 25 \text{ mm}$ (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

[WITH DUAL PANEL SUNROOF] < SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. В **DUCT TAPE** Use to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Generic Squeak and Rattle Troubleshooting D INFOID:000000005485379 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. Acrylic lens and combination meter housing Instrument panel to front pillar finishers Instrument panel to windshield 4. Instrument panel mounting pins Wiring harnesses behind the combination meter A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. **CAUTION:** Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair. CENTER CONSOLE Components to pay attention to include: 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher Wiring harnesses tapping N Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise. TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

- Trunk lid bumpers out of adjustment
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

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< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition, look for:

- Loose harness or harness connectors.
- Front console map/reading lamp lens loose.
- 3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- Hood bumpers out of adjustment
- Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

Diagnostic Worksheet

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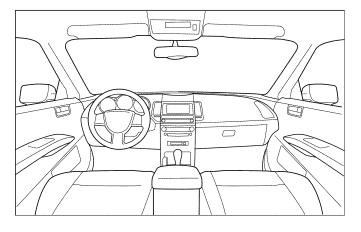
Dear Customer:

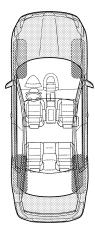
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

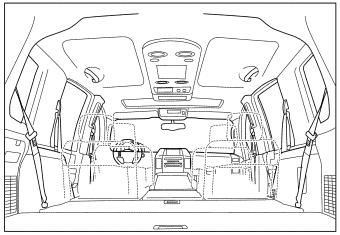
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

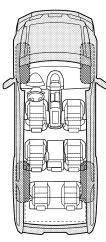
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.









Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

Briefly describe the location where the noi	se occurs	:		
II. WHEN DOES IT OCCUR? (please che	eck the bo	xes that app	oly)	
☐ Anytime☐ 1st time in the morning☐ Only when it is cold outside☐ Only when it is hot outside	□ w □ Dr	ter sitting ou hen it is rain y or dusty c ther:	ning or wet	
III. WHEN DRIVING:	IV. W	HAT TYPE	OF NOISE	Ē
☐ Through driveways ☐ Over rough roads ☐ Over speed bumps ☐ Only about mph ☐ On acceleration ☐ Coming to a stop ☐ On turns: left, right or either (circle) ☐ With passengers or cargo ☐ Other: Miles or minuments ☐ After driving miles or minuments ☐ Descompleted by Dealership Past Drive Notes:	☐ Cı ☐ Ra ☐ Kr ☐ Tid ☐ Tr ☐ Bu	reak (like wa attle (like sha nock (like a k ck (like a clo nump (heavy uzz (like a bu	lking on an aking a bal knock at th ck second muffled kr	e door) I hand) nock noise)
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confire	m repair			
VIN:	Cus	tomer Name	·	

This form must be attached to Work Order

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions INFOID:000000005461891

- After removing and installing any opening/closing parts, make sure to perform all adjustments for proper operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- · If a clip is deformed or damaged, replace it.
- If a non-reuseable part is removed, replace it with a new one.
- Tighten bolts and nuts firmly to the specified torque.
- After re-assembly has been completed, make sure each part functions correctly.
- Remove stains in the following manner:

Water-Soluble stains	Oil stains					
Dip a cloth in warm water, and squeeze tightly. After wiping the stain, wipe with a soft dry cloth.	Dissolve a synthetic detergent in warm water (density of 2 to 3% or less), dip the cloth, then clean off the stain with the cloth. Next, dip the cloth in fresh water, then squeeze tightly. Clean off detergent completely, then wipe entire area with a soft dry cloth.					
Do not use any organic solvent, such as a thinner or benzine to remove stains						

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect (Early

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PRECAUTIONS

< PRECAUTION >

[WITH DUAL PANEL SUNROOF]

Production, With Electronic Steering Column Lock)

INFOID:0000000005885939

NOTE:

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

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

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

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

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

[WITH DUAL PANEL SUNROOF]

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INFOID:0000000005461893

PREPARATION

PREPARATION

Special Service Tools

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

Tool number (Kent-Moore No.) Tool name		Description	
		Locating the noise	
(J39570) Chassis ear			Е
	SIIA0993E		F
		Repairing the cause of noise	
(J43980) NISSAN Squeak and Rattle Kit			G
	SIIA0994E		F

Commercial Service Tools

INFOID:000000005461894

Tool name (Kent-Moore No.)		Description	J
Engine ear (J-39565)	SIIA0995E	Locating the noise	RF
Remover tools (—)	GIAGGGE.	Removing the clips, pawls and metal clips	M
			N
	PIIB7923J		0

ON-VEHICLE REPAIR

GLASS LID

Removal and Installation

INFOID:0000000005461895

REMOVAL

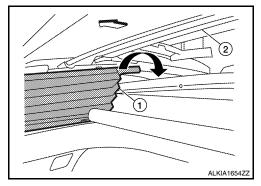
CAUTION:

- · Always work with a helper.
- · Handle glass lid with care to prevent damage.

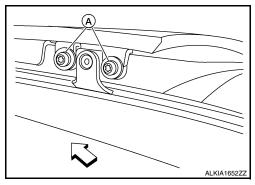
NOTE:

For easier and more accurate installation, always mark each point before removal.

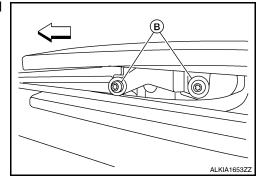
- 1. Open sunshade assembly.
- 2. Tilt glass lid up, then slide rearward to expose all the glass lid bolts.
- 3. Release the slide clip, then remove inner blind (1) RH/LH from the glass lid (2).
 - **←** : Front



- Remove the glass lid rear bolts (A), two on both the left and right sides.
 - **←** : Front



- 5. Remove the glass lid front bolts (B), two on both the left and right sides.
 - **⇔** : Front



Remove the glass lid from the vehicle.

INSTALLATION

CAUTION:

After installing the glass lid, perform the water leak test.

Installation is in the reverse order of removal.

NOTE:

• After installing, perform glass lid adjustment procedure. Refer to RF-179, "Inspection and Adjustment".

GLASS LID

< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

• After adjustment, always check for proper sunroof operation. If necessary, perform initialization procedure to synchronize entire system. Refer to RF-88, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

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SUNROOF MOTOR ASSEMBLY

[WITH DUAL PANEL SUNROOF]

SUNROOF MOTOR ASSEMBLY

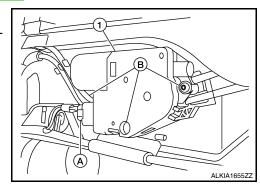
Removal and Installation

INFOID:000000005461896

REMOVAL

CAUTION:

- Before removing sunroof motor, check that glass lid is fully closed.
- After removing sunroof motor, do not attempt to rotate sunroof motor assembly as a single unit.
- 1. Close glass lid.
- 2. Remove the headlining. Refer to INT-32, "Removal and Installation".
- 3. Disconnect sunroof motor assembly harness connector (A).
- 4. Remove sunroof motor assembly screws (B), then remove sunroof motor assembly (1) from sunroof unit assembly frame.



INSTALLATION

CAUTION:

Before installing the sunroof motor assembly, be sure to the place the link and wire assembly in the symmetrical and fully closed position.

- 1. Move the sunroof motor assembly laterally so that the gear is completely engaged into the wire on the sunroof unit assembly frame, and mounting surface becomes parallel.
- Install and tighten sunroof motor assembly screws.
- 3. Connect the sunroof motor assembly harness connector.
- 4. Install the headlining. Refer to INT-32, "Removal and Installation".
- 5. Perform initilization procedure. Refer to RF-88, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

SUNSHADE MOTOR ASSEMBLY

[WITH DUAL PANEL SUNROOF]

SUNSHADE MOTOR ASSEMBLY

Removal and Installation

INFOID:0000000005461897

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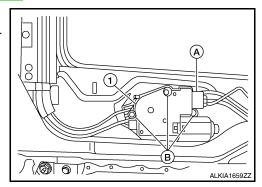
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REMOVAL

CAUTION:

- Before removing sunshade motor, check that glass lid is fully closed.
- · After removing sunshade motor, do not attempt to rotate sunshade motor assembly as a single unit.
- 1. Close glass lid.
- Remove the headlining. Refer to <u>INT-32</u>, "Removal and Installation".
- 3. Disconnect sunshade motor assembly harness connector (A).
- 4. Remove sunroof motor assembly screws (B), then remove sunroof motor assembly (1) from sunroof unit assembly frame.



INSTALLATION

CAUTION:

Before installing the sunshade motor assembly, be sure to the place the link and wire assembly in the symmetrical and fully closed position.

- Move the sunshade motor assembly laterally so that the gear is completely engaged into the wire on the sunroof unit assembly frame, and mounting surface becomes parallel.
- Install and tighten sunshade motor assembly screws.
- 3. Connect the sunshade motor assembly harness connector.
- 4. Install the headlining. Refer to INT-32, "Removal and Installation".
- 5. Perform initilization procedure. Refer to RF-88, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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ROOF LINK ASSEMBLY

[WITH DUAL PANEL SUNROOF]

ROOF LINK ASSEMBLY

Removal and Installation

INFOID:000000005461898

Removal

- 1. Remove the sunshade assembly. Refer to RF-193, "Removal and Installation".
- 2. Remove the wind deflector. Refer to RF-192, "Removal and Installation".
- 3. Remove the glass lid assembly. Refer to RF-174, "Removal and Installation".
- 4. Remove the sunroof motor. Refer to RF-176, "Removal and Installation".
- 5. Remove the sunshade motor. Refer to RF-177, "Removal and Installation".
- 6. Remove the track assembly.
 - Remove the 5 screws and 4 harness clips (LH).
 - Remove the 5 screws (RH).
- 7. Slide the guide link out of the channels.

Installation

1. Installation is in the reverse order of removal.

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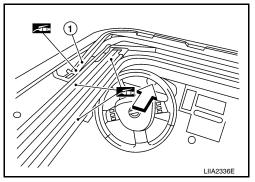
SUNROOF UNIT ASSEMBLY

Inspection and Adjustment

INSPECTION В

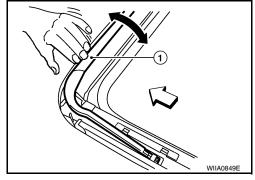
Wind Deflector

- Open glass lid assembly fully.
- Visually check for proper installation, damaged/deteriorated components, or foreign objects within mechanism. Correct as required for smooth operation.
- 3. Check for grease at the wind deflector arm (1) and pivot areas. If necessary, apply a sufficient amount of grease for non-binding operation.
 - : Front ≺⊐



4. Check that the wind deflector (1) moves freely within the sunroof unit assembly while manually pressing down and releasing. If a malfunction is detected, remove the sunroof unit assembly and visually inspect; refer to RF-182, "Removal and Installation". If damage is found, replace either wind deflector (1) or sunroof unit assembly as required.





Link And Wire Assembly

NOTE:

Before replacing a suspect part, make sure it is the source of noise being experienced.

- Check link to determine if coating film has peeled off excessively enough that substrate is visible. Check also to determine if link is the source of noise. Replace as necessary.
- Visually check to determine if a sufficient amount of grease has been applied to wire or rail groove. If not, add grease as required.
- 3. Check wire for any damage or deterioration.

Weatherstrip

- 1. Visually check weatherstrip for damage, deterioration, or deformation.
 - Open glass lid partially to inspect front edge of weatherstrip.
 - Tilt up glass lid fully to inspect sides and rear edge of weatherstrip.

If any area of the weatherstrip is found to be damaged, replace as required.

- Check for leakage around glass lid assembly.
 - Close glass lid assembly.
 - Pour water around surface to determine area of concern.
 - For damaged sealing surfaces, either replace glass lid weatherstrip, or repair the sealing panel.

ADJUSTMENT

CAUTION:

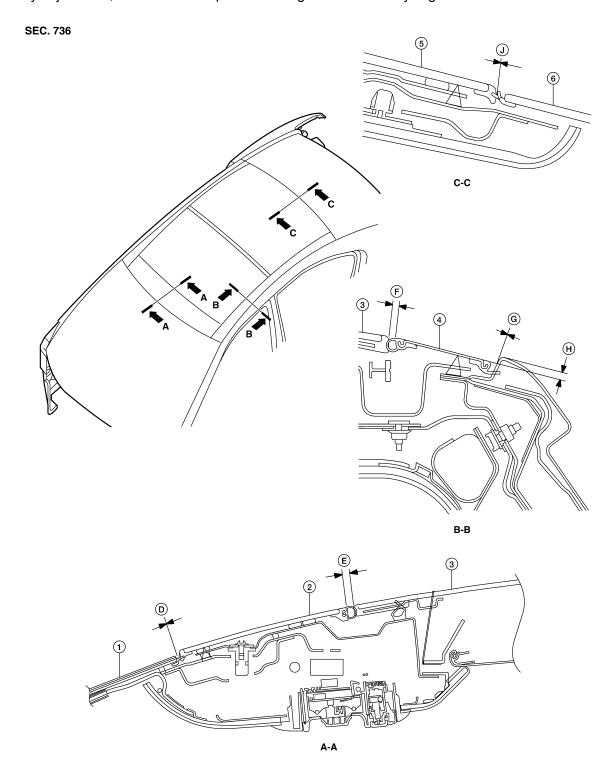
- Always work with a helper.
- Handle glass lid assembly with care to prevent damage.

NOTE:

Р - For gaps or misalignment, adjust glass lid to specifications. Refer to ADJUSTMENT in this section.

RF-179 Revision: November 2009 2010 Maxima

- For easier and more accurate installation, always mark each point before removal.
- After any adjustment, check sunroof operation and glass lid assembly alignment.



AWKIA1549ZZ

Unit: mm (in)

- 1. Windshield
- 4. Roof side finisher
- D. 0.0 (No clearance)
- G. 0.0 (No clearance)
- 2. Front sunroof glass
- 5. Rear sunroof glass
- E. $1.4\pm0.45~(0.055\pm0.018)$
- H. 5.5 +2.5/ -1.5 (0.217 +0.098/ -0.059)
- Glass lid
- 6. Rear window glass
- F. $1.4 \pm 0.45 \ (0.055 \pm 0.018)$
- J. 0.0 (No clearance)

< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

- 1. Open sunshade assembly.
- 2. Tilt glass lid up, then slide rearward to expose all the glass lid bolts.
- Loosen glass lid bolts (4 each on left and right sides), then fully close glass lid.
- 4. Manually adjust glass lid from outside of vehicle so gaps A-A and B-B are within specifications.

NOTE:

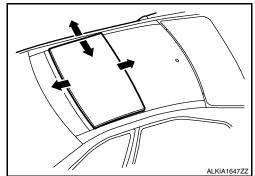
Temporarily snug glass lid bolts to prevent movement between each adjustment.

- 5. Tilt glass lid up and down several times using sunroof switch to check that it operates smoothly.
- 6. Open glass lid up and tighten bolts to specification.

NOTE:

First tighten left front bolt, then right rear bolt on glass lid to prevent uneven torque while tightening remaining bolts.

- Perform initialization procedure to make sure the closing operation is accurate and synchronized properly. Refer to RF-88, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- 8. Perform water leak test.



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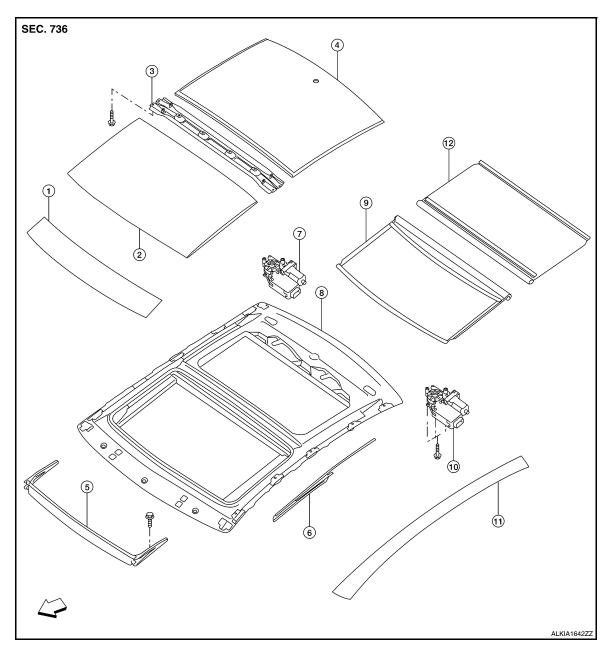
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Exploded View



- 1. Front sunroof glass
- 4. Rear sunroof glass
- 7. Sunshade motor assembly
- 10. Sunroof motor assembly
- ⟨ Vehicle front

- 2. Glass lid
- 5. Wind deflector
- Sunroof frame
- 11. Roof side finisher

Sunshade carrier assembly

INFOID:000000005461901

- 6. Inner blind
- 9. Front sunshade
- 12. Rear sunshade

Removal and Installation

REMOVAL

WARNING.

Disconnect the negative and positive battery terminals, then wait at least three minutes. **CAUTION**:

- Always work with a helper.
- When taking sunroof unit assembly out, use cloths to protect the seats and trim from damage.
- Do not reuse the front or rear sunroof glass which has been removed once.

< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

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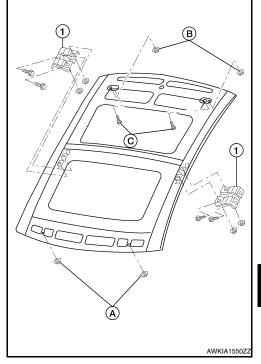
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- 1. Remove the headlining. Refer to INT-32, "Removal and Installation".
- 2. Remove the glass lid. Refer to RF-174, "Removal and Installation".
- 3. Remove the wind deflector. Refer to RF-192, "Removal and Installation".
- 4. Apply protective tape over the weather stripping seal.
- Remove the sunshade carrier assembly. Refer to <u>RF-193</u>, "<u>Removal and Installation</u>".
- 6. Apply protective tape to the body surrounding the entire sunroof frame.
- Remove the front sunroof glass. Refer to <u>RF-188</u>, "<u>Removal and Installation</u>".
- 8. Remove the roof side finishers. Refer to RF-186, "Removal and Installation".
- 9. Remove the rear window glass. Refer to GW-14, "Removal and Installation".
- 10. Remove the satellite antenna. Refer to AV-336, "Removal and Installation" Bose W/Color Display W/NAVI, AV-668, "Removal and Installation" Bose W/Color Display W/NAVI, AV-668, "Removal and Installation" Bose W/Color W/NAVI W/RR CTL.
- 11. Remove the rear sunroof glass. Refer to RF-190, "Removal and Installation".
- 12. Disconnect the sunroof motor assembly and sunshade motor assembly harness connectors.
- 13. Remove the front nuts (A), the rear nuts (B), and the rear bolts (C) from the dual panel sunroof.
- 14. Cut adhesive.
 - Pass piano wire though the adhesive with a wire pierce.
 - Tie piano wire on both ends to assist in wire grip.
 - Pull piano wire with sawing motion to cut through adhesive, working around entire circumference.
- 15. Using a helper, carefully lift each side and remove sunroof frame from vehicle.



INSTALLATION

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled. Move immediately to an area with fresh air if affected by vapor inhalation.

CAUTION:

After installing the sunroof unit assembly and glass lid, perform the leak test and check that there is no air or water intrusion.

NOTE:

- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions furnished with it.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (approximately 24 hours). Curing time varies with temperature and humidity.

- _P

Revision: November 2009 RF-183 2010 Maxima

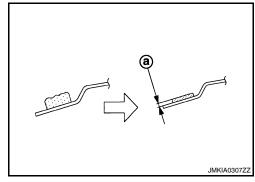
< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

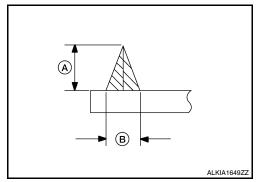
 Using a knife or spatula, trim the adhesive (sealant) remaining on body down to approximately 2 mm thick (a) so that the contour becomes smooth.

CAUTION:

If bonded area on body is scratched, be sure to repair it with a 2-component urethane. Do not use lacquer.



- 2. When installing new sunroof unit assembly frame, mount the roof frame dry (no adhesive) first onto the vehicle and paint mating marks on body and sunroof frame, then remove sunroof frame again.
- 3. Thoroughly clean bonding area on sunroof frame and body with isopropyl alcohol or equivalent.
- 4. Apply primer to the body and the sunroof frame (lower) surfaces.
- 5. Apply adhesive along the entire circumference of the sunroof unit assembly frame contact area of body within the time specified in the instructions for the adhesive.
 - Open adhesive by cutting off the nozzle tip and set it in a sealant gun.
 - Form a continuous bead of adhesive resembling the measurements in applied thickness (A), and in applied width (B) on the body panel.



Adhesive applied thickness (A) : 13 \pm 1 mm (0.51 in \pm 0.039 in) Adhesive applied width (B) : 8 \pm 1 mm (0.31 \pm 0.039 in)

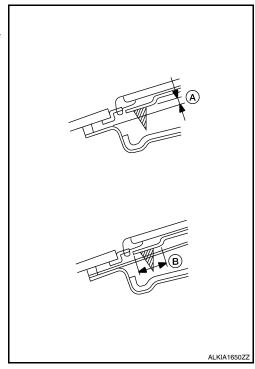
- Using a helper, position the sunroof unit assembly frame over the body, visually aligning the paint mating marks. Then, lower the studs at each corner through the body panel holes, carefully installing the sunroof unit assembly to the body.
- 7. Press down lightly by hand only on the frame to expand the adhesive contact completely so that it resembles a compressed thickness (A), and a compressed width (B) between the sunroof unit assembly frame and the body.

Adhesive com- : 5 +2/-1 mm (0.20 +0.079/-0.039

pressed thickness (A) in

Adhesive compressed width (B) : Front edge 15 mm (0.59 in) : Side edge 21 mm (0.83 in)

: Rear edge 15 mm (0.59 in)



< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

8. Install and tighten the sunroof unit assembly nuts and bolts in the order shown within five minutes.

Sunroof unit assembly nuts : 17 N·m (1.7kg-m, 13 ft-lb) and bolts

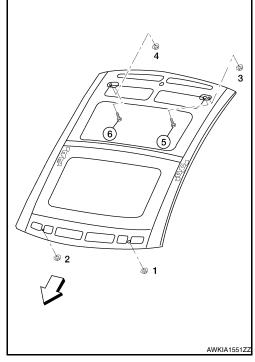
- Install the sunshade carrier assembly. Refer to <u>RF-193</u>, "Removal and Installation".
- 10. Using a suitable tool, remove any adhesive overflow, or work into pocket voids so as to make the surface edge smooth.
- 11. Install the rear sunroof glass. Refer to RF-190, "Removal and Installation".
- 12. Install the rear window glass. Refer to <u>GW-14</u>, "<u>Removal and</u> Installation".
- 13. Install the roof side finishers. Refer to RF-186, "Removal and Installation".
- 14. Install the front sunroof glass. Refer to RF-188, "Removal and Installation".
- 15. Connect the sunroof motor assembly and sunshade motor assembly harness connectors.
- 16. Install the wind deflector. Refer to RF-192, "Removal and Installation".
- 17. Install the glass lid. Refer to RF-174, "Removal and Installation". NOTE:

After installation, carry out fitting adjustment. Refer to RF-179, "Inspection and Adjustment".

- 18. Install the satellite antenna. Refer to AV-336, "Removal and Installation" Bose W/Color Display W/O NAVI, or AV-668, "Removal and Installation" Bose W/Color W/RR CTL, or AV-837, "Removal and Installation" Bose W/Color W/NAVI W/RR CTL.
- 19. Install the headlining. Refer to INT-32, "Removal and Installation".
- Check for water leaks.

NOTE:

- Perform the water leakage check more than 2 hours after sunroof unit assembly installation.
- After glass lid fitting adjustment, carry out water leakage check by spreading water over entire roof surface.
- 21. Remove the protective tape from the vehicle.



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Revision: November 2009 RF-185 2010 Maxima

ROOF FINISHER

Removal and Installation

INFOID:0000000005461902

REMOVAL

- 1. Open the glass lid.
- 2. Apply protective tape around the roof side finisher to protect the surface from damage.
- Cut adhesive.
 - Pass piano wire through the adhesive with a wire pierce.
 - Tie piano wire on both ends to assist in wire grip.
 - Pull piano wire with sawing motion to cut through adhesive, working along the length of the panel.
- 4. Remove the roof side finisher.

INSTALLATION

WARNING:

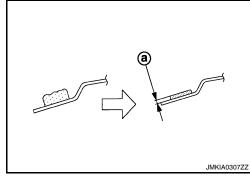
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled. Move immediately to an area with fresh air if affected by vapor inhalation.

NOTE:

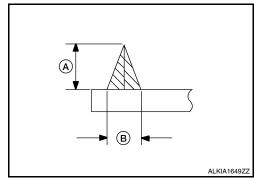
- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions furnished with it.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (approximately 24 hours). Curing time varies with temperature and humidity.
- Using a knife or spatula, trim the adhesive (sealant) remaining on body down to approximately 2 mm thick (a) so that the contour becomes smooth.

CAUTION:

If bonded area on body is scratched, be sure to repair it with a 2-component urethane. Do not use lacquer.



- 2. When installing new roof side finisher, position the roof side finisher dry (no adhesive) first onto the vehicle and paint mating marks on the body and roof side finisher, then remove it again.
- 3. Thoroughly clean bonding area on the roof side finisher and the body with isopropyl alcohol or equivalent.
- 4. Apply primer to the body and the roof side trim (lower) surfaces.
- 5. Apply adhesive to the contact areas of the body within the time specified in the instructions for the adhesive.
 - Open adhesive by cutting off the nozzle tip and set it in a sealant gun.
 - Form a continuous bead of adhesive resembling the measurements in applied thickness (A), and in applied width (B) on the body panel.



Adhesive applied thickness (A) : 13 ± 1 mm (0.51 \pm 0.039 in) Adhesive applied width (B) : 8 ± 1 mm (0.31 \pm 0.039 in)

ROOF FINISHER

< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

6. Position the roof side finisher, align the paint marks, then lower it into position.

7. Press down lightly by hand to evenly expand the adhesive contact with the roof side finisher.

8. Using a suitable tool, remove any adhesive overflow.

9. Remove the protective tape.

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FRONT SUNROOF GLASS

Removal and Installation

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REMOVAL

- 1. Remove the wind deflector. Refer to RF-192, "Removal and Installation".
- 2. Tape down the glass lid weatherstrip along the from sunroof glass with protective tape.
- 3. Apply protective tape around the front sunroof glass to protect the surface from damage.
- Cut adhesive.
 - Pass piano wire through the adhesive with a wire pierce.
 - Tie piano wire on both ends at assist in wire grip.
 - Pull piano wire with a sawing motion to cut through the adhesive.
- 5. Remove the front sunroof glass.

INSTALLATION

WARNING:

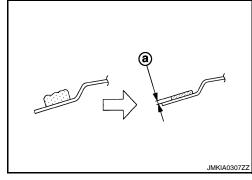
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled. Move immediately to an area with fresh air if affected by vapor inhalation.

NOTE:

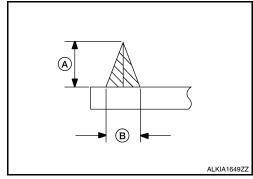
- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions furnished with it.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (approximately 24 hours). Curing time varies with temperature and humidity.
- Using a knife or spatula, trim the adhesive (sealant) remaining on body down to approximately 2 mm thick (a) so that the contour becomes smooth.

CAUTION:

If bonded area on body is scratched, be sure to repair it with a 2-component urethane. Do not use lacquer.



- 2. When installing new front sunroof glass, position the front sunroof glass (no adhesive) first onto the vehicle and paint mating marks on the body and the front sunroof glass, then remove it again.
- Thoroughly clean bonding area on the front sunroof glass and the body with isopropyl alcohol or equivalent.
- 4. Apply primer to the body and the front sunroof glass (lower) surfaces.
- 5. Apply adhesive to the contact areas of the body within the time specified in the instructions for the adhesive.
 - Open adhesive by cutting off the nozzle tip and set it in a sealant gun.
 - Form a continuous bead of adhesive resembling the measurements in applied thickness (A), and in applied width (B) on the body panel.



FRONT SUNROOF GLASS

[WITH DUAL PANEL SUNROOF]

Adhesive applied thickness (A) : 13 \pm 1 mm (0.51 \pm 0.039 in) Adhesive applied width (B) : 8 \pm 1 mm (0.31 \pm 0.039 in)

- 6. Position the front sunroof glass, align the paint marks and lower it into position.
- 7. Press down lightly by hand to evenly expand the adhesive contact with the front sunroof glass.
- 8. Using a suitable tool, remove any adhesive overflow.
- 9. Remove the protective tape.

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REAR SUNROOF GLASS

Removal and Installation

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REMOVAL

- 1. Apply protective tape around all of the glass panels to be removed.
- Remove the satellite radio antenna. Refer to <u>AV-336</u>, "Removal and Installation" Bose W/Color Display W/O Navi, or <u>AV-500</u>, "Removal and Installation" Bose W/Color Display W/Navi, or <u>AV-668</u>, "Removal and Installation" Bose W/Color W/RR CTL, or <u>AV-837</u>, "Removal and Installation" Bose W/Color W/Navi W/RR CTL.
- 3. Remove the rear window glass. Refer to GW-14, "Removal and Installation".
- Remove the glass lid. Refer to <u>RF-174, "Removal and Installation"</u>.
- 5. Remove the roof side finishers. Refer to RF-186, "Removal and Installation".
- Cut adhesive.
 - Pass piano wire through the adhesive with a wire pierce.
 - · Tie piano wire on both ends at assist in wire grip.
 - Pull piano wire with a sawing motion to cut through the adhesive.
- 7. Remove the rear sunroof glass.

INSTALLATION

WARNING:

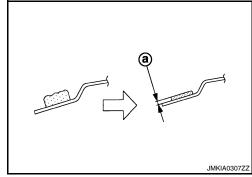
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled. Move immediately to an area with fresh air if affected by vapor inhalation.

NOTE:

- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions furnished with it.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (approximately 24 hours). Curing time varies with temperature and humidity.
- Using a knife or spatula, trim the adhesive (sealant) remaining on body down to approximately 2 mm thick (a) so that the contour becomes smooth.

CAUTION:

If bonded area on body is scratched, be sure to repair it with a 2-component urethane. Do not use lacquer.



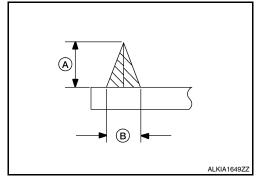
- 2. When installing new rear sunroof glass, position the rear sunroof glass (no adhesive) first onto the vehicle and paint mating marks on the body and the rear sunroof glass, then remove it again.
- 3. Thoroughly clean bonding area on the rear glass panel and the body with isopropyl alcohol or equivalent.
- 4. Apply primer to the sunroof frame anywhere the surface has been scratched and the rear sunroof glass (lower) surfaces.

REAR SUNROOF GLASS

< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

- 5. Apply adhesive along the entire circumference of the rear sunroof glass frame contact area of the body within the time specified in the instructions for the adhesive. Also apply adhesive around the satellite antenna hole outward from the hole along the sunroof frame to cover the existing adhesive.
 - Open adhesive by cutting off the nozzle tip and set it in a sealant gun.
 - Form a continuous bead of adhesive resembling the measurements in applied thickness (A), and in applied width (B) on the sunroof frame.



Adhesive applied thickness (A) : 13 \pm 1 mm (0.51 \pm 0.039 in) Adhesive applied width (B) : 8 \pm 1 mm (0.31 \pm 0.039 in)

- 6. Position the rear sunroof glass, align the paint marks and lower it into position.
- 7. Press down lightly by hand to evenly expand the adhesive contact with the rear sunroof glass. Press down by hand to expand the adhesive contact completely so that it resembles a compressed thickness (A), and a compressed width (B).

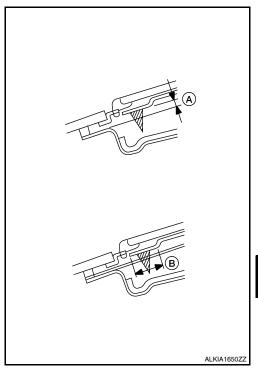
Adhesive compressed thickness (A)

Adhesive compressed width (B)

: 5 +2, -1mm (0.20 +0.079 - 0.039 in)

: Front edge 15 mm (0.59 in) : Side edge 21 mm (0.83 in)

: Rear edge 15 mm (0.59 in)



- 8. Install the rear window glass. Refer to GW-14, "Removal and Installation".
- Install the roof side finishers. Refer to RF-186, "Removal and Installation".
- 10. Install the glass lid. Refer to RF-174, "Removal and Installation".

NOTE:

After installation, carry out fitting adjustment. Refer to RF-179, "Inspection and Adjustment".

- Install the satellite radio antenna. Refer to <u>AV-336</u>, "<u>Removal and Installation</u>" Bose W/Color Display W/O Navi, or <u>AV-500</u>, "<u>Removal and Installation</u>" Bose W/Color Display W/Navi, or <u>AV-668</u>, "<u>Removal and Installation</u>" Bose W/Color W/RR CTL, or <u>AV-837</u>, "<u>Removal and Installation</u>" Bose W/Color W/Navi W/RR CTL.
- 12. Check for water leaks.

NOTE:

- Perform the water leakage check more than 2 hours after sunroof unit assembly installation.
- After glass lid fitting adjustment, carry out water leakage check by spreading water over entire roof surface.
- 13. Remove the protective tape from the vehicle.

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Revision: November 2009 RF-191 2010 Maxima

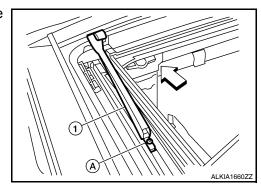
WIND DEFLECTOR

Removal and Installation

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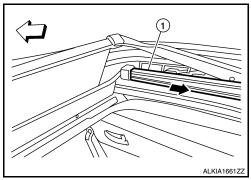
REMOVAL

- 1. Open the glass lid.
- 2. Remove the side screw (A) to release the wind deflector side arms (1).
 - **←** : Front



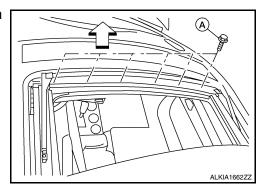
3. Disconnect and release the inner blind (1) slide clip from wind deflector.

← : Front



4. Remove the front screws (A), then remove wind deflector from sunroof unit assembly.

← : Front

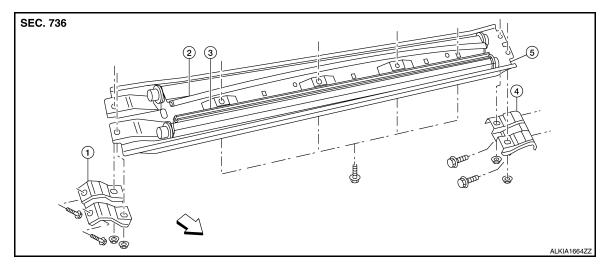


INSTALLATION

Installation is in the reverse order of removal.

SUNSHADE

Exploded View



- 1. Center bracket RH
- 4. Center bracket LH
- Rear sunshade
- Sunshade carrier assembly
- Front sunshade
- ⟨□ Vehicle front

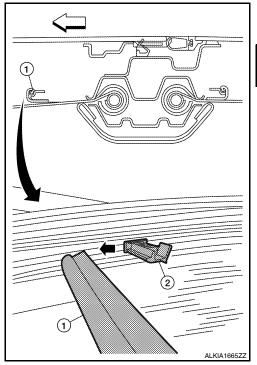
Removal and Installation

REMOVAL

- Open glass lid and sunshades.
- Remove the headlining. Refer to <u>INT-32, "Removal and Installation"</u>.
- Release front sunshade rail (1) from sunshade drive post (2).

← : Front

- 4. Repeat sunshade drive post release for the rear sunshade.
- 5. Remove side curtain air bag module bolts (two on each RH/LH sides) for access.
- 6. Release harness clips from sunshade carrier assembly.
- Remove the center bracket nuts and bolts, then remove the center brackets (RH/LH).
- 8. Remove the sunshade carrier assembly bolts, then lower sunshade assembly and remove from vehicle.
 - Release the end key slot from the sunshades.



INSTALLATION

CAUTION:

Be careful not to release the spring when installing the sunshade.

- Wind the shade around the core post.
- 2. Insert the round end of the shade (front black curved rail) into the sunshade carrier assembly.

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SUNSHADE

< ON-VEHICLE REPAIR >

[WITH DUAL PANEL SUNROOF]

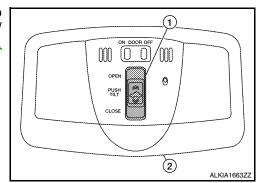
- 3. Using a suitable tool, wind the double-D tang end 20 turns counter-clockwise (when viewed from the end).
- 4. Insert the double-d tang end into the slot and lock it into the carrier.
- 5. Position the sunshade carrier assembly and install the bolts.
- 6. Position the center brackets (RH/LH) and install the bolts and nuts.
- 7. Install the side curtain air bag module bolts.
- 8. Install the headliner. Refer to INT-32, "Removal and Installation".

[WITH DUAL PANEL SUNROOF]

SUNROOF SWITCH

Removal and Installation

The sunroof switch (1) is an integrated part of the front room/map lamp (2), and therefore serviced as an assembly. For front room/map lamp removal and installation procedures, refer to INL-97. "Removal and Installation".



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