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CONTENTS

WITH SINGLE PANEL SUNROOF	SUNROOF MOTOR ASSEMBLY13	F
BASIC INSPECTION4	SUNROOF MOTOR ASSEMBLY: Description13 SUNROOF MOTOR ASSEMBLY:	
DAGIO INGI LOTION	Component Function Check14	
DIAGNOSIS AND REPAIR WORKFLOW 4	SUNROOF MOTOR ASSEMBLY :	G
Work Flow4	Diagnosis Procedure14	
	SUNROOF MOTOR ASSEMBLY : Component In-	
INSPECTION AND ADJUSTMENT7	spection17	Н
ADDITIONAL SERVICE WHEN REPLACING	SUNROOF MOTOR ASSEMBLY : Special Repair	
CONTROL UNIT7	Requirement17	
ADDITIONAL SERVICE WHEN REPLACING		
CONTROL UNIT : Description7	DOOR SWITCH19	
ADDITIONAL SERVICE WHEN REPLACING	Description19	
CONTROL UNIT: Special Repair Requirement7	Component Function Check19	J
	Diagnosis Procedure19	
BASIC INSPECTION7	Component Inspection21	
BASIC INSPECTION : Special Repair Requirement	ECU DIAGNOSIS INFORMATION22	RF
	BCM (BODY CONTROL MODULE)	
SYSTEM DESCRIPTION8	BCM (BODY CONTROL MODULE)22 Reference Value22	
SUNROOF SYSTEM8	Terminal Layout	L
System Diagram8	Physical Values27	
System Description8	Fail Safe43	
Component Parts Location9	DTC Inspection Priority Chart44	M
Component Description9	DTC Index45	
· · ·		
DIAGNOSIS SYSTEM (BCM)11	SUNROOF MOTOR ASSEMBLY48 Reference Value48	Ν
COMMON ITEM11	Reference value48	
COMMON ITEM : CONSULT Function (BCM -	WIRING DIAGRAM49	
COMMON ITEM)11		0
DETAINED DWD	SUNROOF SYSTEM49	
RETAINED PWR11 RETAINED PWR : CONSULT Function (BCM -	Wiring Diagram49	
RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)12	SYMPTOM DIAGNOSIS55	Р
RETAINED PWK)12	OTHER TOWN DIAGRADIO	
DTC/CIRCUIT DIAGNOSIS13	SUNROOF DOES NOT OPERATE PROPER-	
POWER SUPPLY AND GROUND CIRCUIT13	LY55	
FOWER SUFFET AND GROUND CIRCUIT13	Diagnosis Procedure55	
BCM13	AUTO OPERATION DOES NOT OPERATE 56	
BCM : Diagnosis Procedure13	O O EIGHTON DOLONO O EIGHE IIII00	

Diagnosis Procedure	. 56	Component Description	80
DOES NOT STOP FULLY-OPEN OR FULLY-		DIAGNOSIS SYSTEM (BCM)	81
CLOSED POSITION	. 57	·	
Diagnosis Procedure		COMMON ITEM	
-		CONSULT Function (BCM - COMMON ITEM)	81
RETAINED POWER OPERATION DOES NOT		RETAINED PWR	04
OPERATE PROPERLY	. 58	CONSULT Function (BCM - RETAINED PWR)	
Diagnosis Procedure	. 58	CONSOLT FUNCTION (BOW - RETAINED FWK)	02
SUNROOF DOES NOT OPERATE ANTI-		DTC/CIRCUIT DIAGNOSIS	83
PINCH FUNCTION	50	DOWED OUDDLY AND ODOUND OIDQUIT	
		POWER SUPPLY AND GROUND CIRCUIT	83
Diagnosis Procedure	. 59	BCM	02
SQUEAK AND RATTLE TROUBLE DIAG-		BCM : Diagnosis Procedure	
NOSES	60	DOW : Diagnosis i roccadic	00
Work Flow		SUNROOF MOTOR ASSEMBLY	83
Generic Squeak and Rattle Troubleshooting		SUNROOF MOTOR ASSEMBLY:	
Diagnostic Worksheet		Diagnosis Procedure	83
Diagnostic Worksheet	. 04		
PRECAUTION	. 66	SUNSHADE MOTOR ASSEMBLY	85
		SUNSHADE MOTOR ASSEMBLY :	
PRECAUTIONS	. 66	Diagnosis Procedure	85
Precaution for Supplemental Restraint System		COMMUNICATION SIGNAL CIRCUIT	07
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-		Description	
SIONER"	. 66		
Precaution for Work	. 66	Diagnosis Procedure	87
		SUNROOF SWITCH	88
PREPARATION	. 67	Description	
DDEDADATION		Diagnosis Procedure	
PREPARATION		Component Inspection	
Special Service Tool			00
Commercial Service Tools	. 67	DOOR SWITCH	91
REMOVAL AND INSTALLATION	68	Description	91
KEMOVAE AND INGTALLATION	. 00	Component Function Check	91
SUNROOF UNIT ASSEMBLY	. 68	Diagnosis Procedure	91
Inspection	. 68	Component Inspection	93
Exploded View			
Removal and Installation	. 72	ECU DIAGNOSIS INFORMATION	94
WITH DUAL PANEL SUNROOF		PCM (PODY CONTROL MODULE)	
		BCM (BODY CONTROL MODULE)	
BASIC INSPECTION	. 75	Reference Value	
		Terminal Layout	
DIAGNOSIS AND REPAIR WORKFLOW	. 75	Physical Values	
WorkFlow	. 75	Fail Safe	
NODEOTION AND AD HIGTMENT		DTC Inspection Priority Chart	
INSPECTION AND ADJUSTMENT	. 76	DTC Index	. 117
ADDITIONAL SERVICE WHEN REPLACING		SUNROOF MOTOR ASSEMBLY	120
CONTROL UNIT	76	Reference Value	
ADDITIONAL SERVICE WHEN REPLACING	. , 0	TOO TOO VALUE	. 120
CONTROL UNIT : Description	76	SUNSHADE MOTOR ASSEMBLY	122
ADDITIONAL SERVICE WHEN REPLACING	. 70	Reference Value	
CONTROL UNIT : Special Repair Requirement	76		
OCITITOL OITH . Opecial Nepall Nequilement	. 10	WIRING DIAGRAM	. 123
SYSTEM DESCRIPTION	. 77	OUNDOOF MOTOR ASSESSED.	
		SUNROOF MOTOR ASSEMBLY	
SUNROOF SYSTEM	. 77	Wiring Diagram	. 123
System Diagram	. 77	SUNSHADE MOTOR ASSEMBLY	420
System Description			
Component Parts Location		Wiring Diagram	. 130

SYMPTOM DIAGNOSIS137
SUNROOF DOES NOT OPERATE PROPER- LY
SUNSHADE SYSTEM DOES NOT OPERATE PROPERLY
AUTO OPERATION DOES NOT OPERATE139 Diagnosis Procedure
RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY140 Diagnosis Procedure140
ANTI-PINCH FUNCTION DOES NOT OPER-ATE141 Diagnosis Procedure141
SQUEAK AND RATTLE TROUBLE DIAGNOSES
PRECAUTION148
PRECAUTIONS
PREPARATION149
PREPARATION

Commercial Service Tools149
REMOVAL AND INSTALLATION150
GLASS LID
SUNROOF MOTOR ASSEMBLY152 Removal and Installation152
SUNSHADE MOTOR ASSEMBLY153 Removal and Installation153
ROOF LINK ASSEMBLY
SUNROOF UNIT ASSEMBLY
ROOF FINISHER
FRONT SUNROOF GLASS
REAR SUNROOF GLASS
WIND DEFLECTOR
SUNSHADE
SUNROOF SWITCH171 Removal and Installation171

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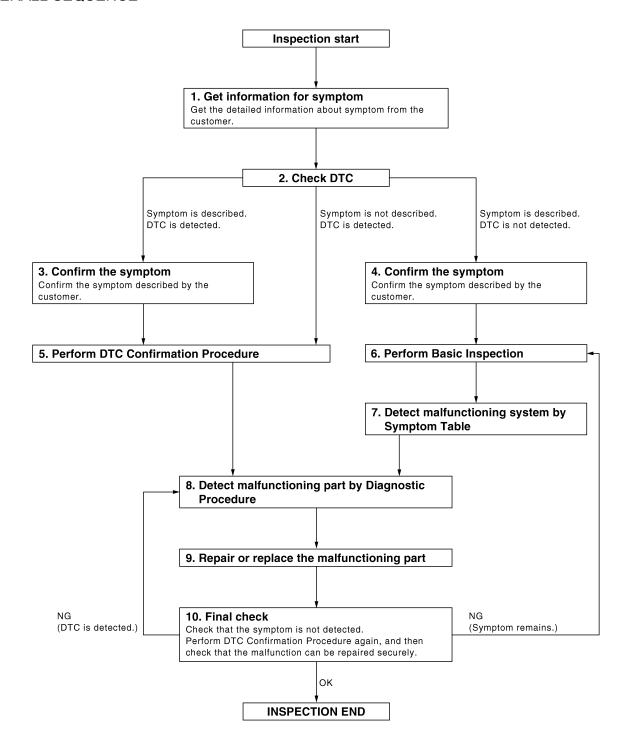
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BASIC INSPECTION

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

- 1. Check DTC.
- 2. 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.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

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

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

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

$3.\,$ CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to BCS-63, "DTC Inspection Priority Chart" and determine trouble

If two or more DTCs are detected, refer to <u>BCS-63, "DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 8

NO >> Refer to GI-41, "Intermittent Incident".

O. PERFORM BASIC INSPECTION

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

Inspection End>>GO TO 7

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.

Is malfunctioning part detected?

YES >> GO TO 9

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

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

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

>> GO TO 10

10. FINAL CHECK

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

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ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

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 battery has been disconnected or discharged.
 - 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

INITIALIZATION PROCEDURE

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

- 1. Turn ignition switch ON.
- 2. Push and hold the sunroof tilt switch in the forward (DOWN) position until the sunroof is fully closed.
- 3. After the sunroof has closed all the way, push and hold the tilt switch forward (DOWN) again for more than 2 seconds to re-learn motor position.
- 4. Initialization is complete if the sunroof operates normally.

BASIC INSPECTION

BASIC INSPECTION: Special Repair Requirement

INFOID:0000000009465661

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace the malfunctioning parts.

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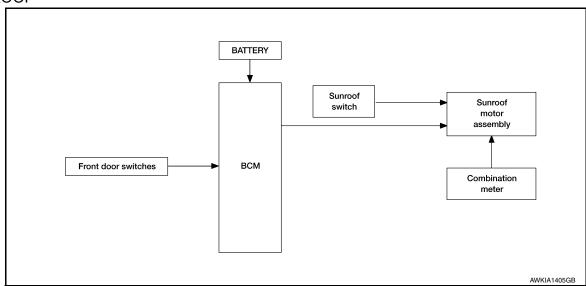
SYSTEM DESCRIPTION

SUNROOF SYSTEM

System Diagram

INFOID:0000000009465662

SUNROOF



System Description

INFOID:0000000009465663

SUNROOF SYSTEM INPUT/OUTPUT SIGNAL CHART

Item	Input signal to sunroof motor assembly	Sunroof motor function	Actuator
Sunroof switch	Sunroof switch signal (tilt down or slide open)	Receives signal and moves the sunroof assembly to the correct	
	Sunroof switch signal (tilt up or slide close)	position.	
Combination meter	Vehicle speed signal	Receives speed signal and determines the amount of torque the motor requires.	Sunroof motor
ВСМ	RAP signal	Retained power after the key is turned OFF and the front doors stay closed.	

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).

< SYSTEM DESCRIPTION >

- · 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

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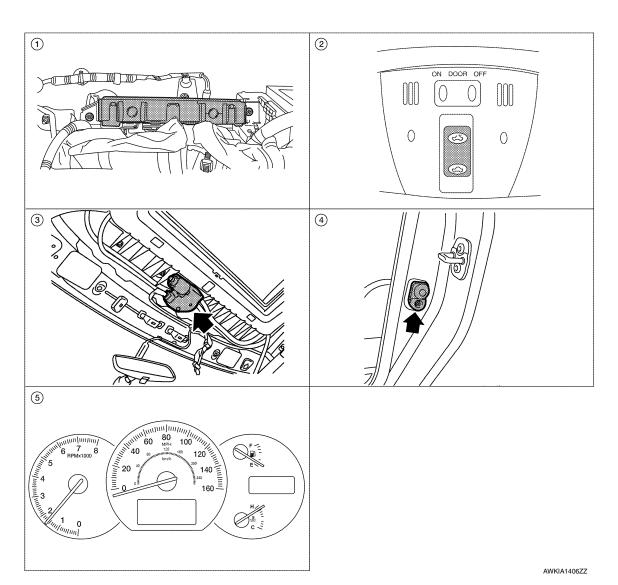
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- BCM M16, M17, M18 (view with instrument panel removed)
- 4. Front door switch LH B8, RH B108
- 2. Sunroof switch R6
- Sunroof motor assembly R5
- Combination meter M24

Component Description

INFOID:0000000009465665

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 SYSTEM

< SYSTEM DESCRIPTION >

Component	Function
Sunroof motor assembly	It is sunroof motor and CPU integrated type that enables tilt up/down & slide open/close by sunroof switch operation
Front door switch	Detects door open/close condition and transmits to BCM.
Combination meter	Transmits vehicle speed signal to sunroof motor assembly.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH SINGLE PANEL SUNROOF]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description		
ECU Identification	The BCM part number is displayed.		
Self Diagnostic Result	The BCM self diagnostic results are displayed.		D
Data Monitor	The BCM input/output data is displayed in real time.		
Active Test	The BCM activates outputs to test components.		Е
Work support	The settings for BCM functions can be changed.		
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM. 		F
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.		

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode						
System	Sub System	ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
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		×	×	×	×		

RETAINED PWR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH SINGLE PANEL SUNROOF]

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000010044837

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.	

< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

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Regarding Wiring Diagram information, refer to BCS-67, "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?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

Terminals			
(+)	(-)	Voltage
В	CM		Voltage (Approx.)
Connector	Terminal	Ground	
M16	1		
M17	11		Battery voltage
M18	24		

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

>> Repair or replace harness.

SUNROOF MOTOR ASSEMBLY

SUNROOF MOTOR ASSEMBLY: Description

· BCM supplies power.

RF-13 Revision: August 2013 2014 Maxima NAM

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< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- · 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:0000000009465670

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:0000000009465671

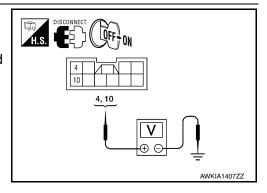
Regarding Wiring Diagram information, refer to RF-49, "Wiring Diagram".

SUNROOF MOTOR ASSEMBLY

1. CHECK POWER SUPPLY CIRCUIT

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

Tei			
(+)			Voltage (V)
Sunroof motor assembly connector	Terminal	(–)	(Approx.)
R5	4	Ground	Battery voltage
	10	Ground	Dattery Voltage



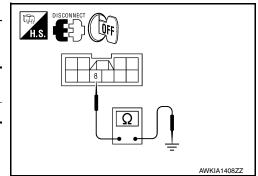
Is the measurement value within the specification?

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

$2.\,$ CHECK GROUND CIRCUIT

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

Sunroof motor assembly connector	Terminal	Ground	Continuity
R5	8		Yes



Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

 ${f 3}.$ CHECK SUNROOF MOTOR CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- 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)	M16 (A) 2 R5 (B)		10	Yes
WTO (A)			4	165

Check continuity between BCM connector (A) and ground.

A 3 2 2 3 2, 3	4, 10	H.S. DISCONNECT
	Ω	OFF
	<u> </u>	AWKIA1409ZZ

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

Is the inspection result normal?

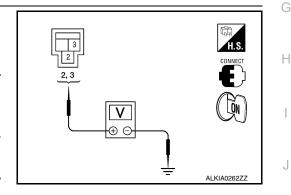
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

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

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



Is the measurement value within the specification?

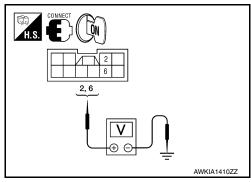
YES >> Check condition of harness and connector.

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

CHECK SUNROOF SWITCH INPUT SIGNAL

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

Sunroof mo-	1011111111111		Voltage (V)	
tor assembly connector	(+)	(-)	Condition	(Approx.)
	6		Sunroof switch is operated TILT DOWN or SLIDE OPEN	0
R5		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

$oldsymbol{6}$. CHECK SUNROOF SWITCH CIRCUIT

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RF-15 Revision: August 2013 2014 Maxima NAM RF

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< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- 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
135 (A)	2	1.0 (b)	3	165

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

	2 6	1 3	H.S. DISCONNECT
	2,6	1,3	
-	Ω		OFF
		=	AWKIA1411ZZ
<u> </u>			

Sunroof motor assembly connector	Terminal		Continuity
R5 (A)	6	Ground	No
No (A)	2	_	

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness.

7. CHECK SUNROOF SWITCH GROUND CIRCUIT

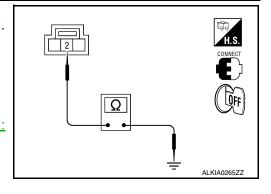
- 1. Connect sunroof motor assembly.
- 2. Check continuity between sunroof switch connector and ground.

Sunroof switch connector	Terminal	Ground	Continuity
R6	2	Ground	Yes

Is the inspection result normal?

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

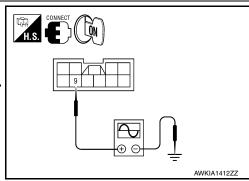
NO >> Repair or replace harness.



8. CHECK COMBINATION METER SIGNAL

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

-	Terminals			
(+	(+)		1	
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-72, "Removal and Installation"</u>. After that, refer to <u>RF-7, "BASIC INSPECTION: Special Repair Requirement"</u>.

< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

NO >> GO TO 9

CHECK COMBINATION METER CIRCUIT

- Turn ignition switch OFF.
- Disconnect combination meter. 2.
- 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 Ω Ω
AWKIA1413ZZ

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

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> Repair or replace harness.

SUNROOF MOTOR ASSEMBLY: Component Inspection

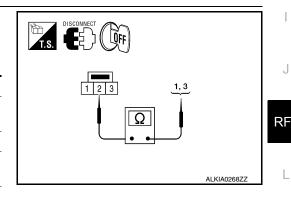
INFOID:0000000009465672

SUNROOF SWITCH

1. CHECK SUNROOF SWITCH

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

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



Is the inspection result normal?

YES >> Sunroof switch is OK.

>> Replace sunroof switch (map lamp assembly). Refer to INL-84, "Removal and Installation".

SUNROOF MOTOR ASSEMBLY: Special Repair Requirement

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to RF-7, "BASIC INSPECTION: Special Repair Requirement".

>> GO TO 2

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation.

Refer to RF-7, "BASIC INSPECTION: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Check fitting adjustment. Refer to RF-68, "Inspection".

RF-17 Revision: August 2013 2014 Maxima NAM

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INFOID:0000000009465673

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

DOOR SWITCH

Description INFOID:0000000009465674

Detects door open/close condition.

Component Function Check

INFOID:0000000009465675

1. CHECK FUNCTION

(II) With CONSULT

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

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	OLOGE 7 OF LIN. OFF 7 ON

Is the inspection result normal?

YES >> Door switch is OK.

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

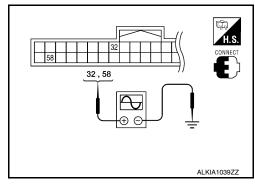
Diagnosis Procedure

INFOID:0000000009465676

Regarding Wiring Diagram information, refer to RF-49, "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				Voltage (V)	
(+)			Door co	ndition		
BCM connector	Terminal	(–)			(Approx.)	
				OPEN	0	
M18	58	Ground	Driver side	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	
WITO		Ground		OPEN	0	
	32		Passenger side	CLOSE	(V) 15 10 5 0 10 ms	

Is the inspection result normal?

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

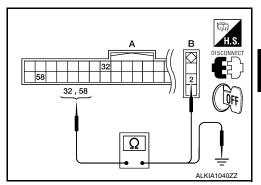
2.check door switch circuit

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

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

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58	Ground	No
A. W10	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-41, "Intermittent Incident".

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

>> Inspection End.

Component Inspection

INFOID:0000000009465677

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	Continuity	
2	2 Ground part of door switch	Pressed	No	
2		Released	Yes	

DISCONNECT ALKIA0747ZZZ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ED WIDED III	Other than front wiper switch HI	OFF
FR WIPER HI	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED WASHED SW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
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
TUDNI CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAMD CVA	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
HI BEAIN SW	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
HEAD LAWP SW 1	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAWP SW 2	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LICHT SW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC SW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD SW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON

Revision: August 2013 RF-21 2014 Maxima NAM

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON
DOOR SW-BK	Trunk door closed	OFF
DOOR SW-BR	Trunk door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
ODE LOOK OW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
ODE ONEOOR SW	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
KET OTE EK-OW	Driver door key cylinder LOCK position	ON
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
KET CTE ON-SW	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
TINZ/IND OVV	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
TR CANCLL SW	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
HVBD OF EN SW	While the trunk lid opener switch is turned ON	ON
TRNK/HAT MNTR	Trunk lid closed	OFF
TRAIGHAI WINTE	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
TARE-EOOK	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
INC-ONLOCK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
INC-11000	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
IXIL-FAINIO	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RRE-F/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
TARE-WODE ONG	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 SENSUK	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 CW. AC	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

Monitor Item	Condition	Value/Status
REQ SW -RL	When rear door request switch is not pressed (driver side)	OFF
REQ SW -RL	When rear door request switch is pressed (driver side)	ON
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF
REQ SW -RR	When rear door request switch is pressed (passenger side)	ON
DEO CW. DD/TD	When trunk opener request switch is not pressed	OFF
REQ SW -BD/TR	When trunk opener request switch is pressed	ON
DUOLLOW	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
10N DIVO 5/D	Ignition switch OFF or ACC	OFF
IGN RLY2 -F/B	Ignition switch ON	ON
	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON
	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
	When selector lever is in P position	OFF
DETE/CANCL SW	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/N SW	When selector lever is in P or N position	ON
	Driver door UNLOCK status	OFF
UNLK SEN -DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
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
		STALL
ENGINE STATE	While the engine stalls At engine cranking	CRANK
		RUN
VEH SDEED 1	Engine running While driving	
	While driving	Equivalent to speedometer reading
VEN SPEED 2	While driving	Equivalent to speedometer reading
DOOD 0747 55	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
FT PN/N SW NLK SEN -DR USH SW -IPDM SN RLY1 -F/B ETE SW -IPDM FT PN -IPDM FT P -MET FT N -MET NGINE STATE EH SPEED 1 EH SPEED 2 OOR STAT-DR	Passenger door UNLOCK status	UNLK

RF-23 Revision: August 2013 2014 Maxima NAM

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENC STDT	When the engine start is prohibited	RESET
PRMT ENG STRT	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
RET SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
COM NW 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
OOM INWIDT	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
COM 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
COM 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
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
11 4	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
IF 3	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
IF Z	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
11 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
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID VERSI LEI	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ויס וורפיסו בען	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 INCOOLINIT	When ID of rear RH tire transmitter is not registered	YET

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

Monitor Item	Condition	Value/Status
ID DECCT DL 1	When ID of rear LH tire transmitter is registered	DONE
ID REGOT RET	When ID of rear LH tire transmitter is not registered	YET
ID REGST RL1 WARNING LAMP BUZZER	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
DUZZED	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

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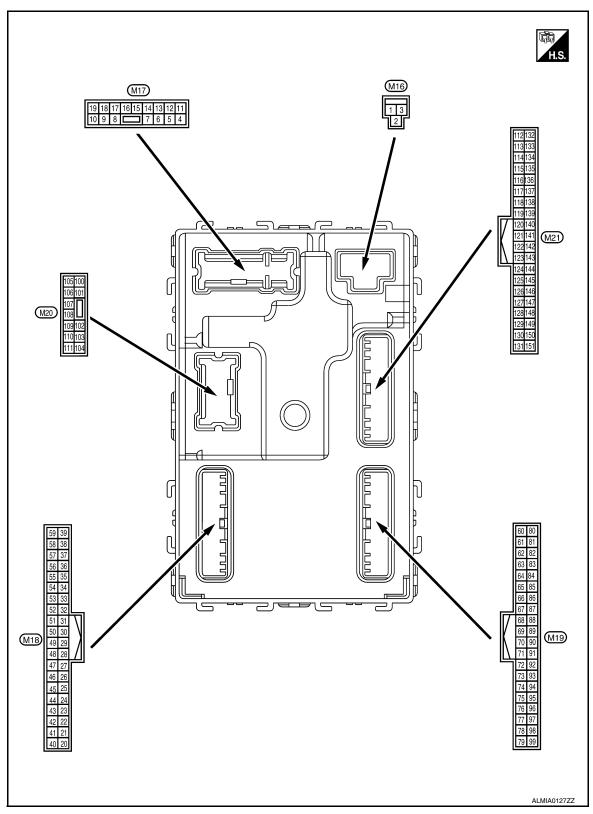
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Terminal Layout



Physical Values

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	•
(Wire	(-)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	•
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage	-
4	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V	-
(P/W)	Giouna	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage	-
5	Cround	Front door RH UN-	Output	Front door DU	UNLOCK (actuator is activated)	Battery voltage	-
(G)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V	-
7	Ground	Step lamp	Output	Step lamp	ON	0V	-
(R/W)	Ground	Step lattip	Output	Step lattip	OFF	Battery voltage	
8	Craund	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage	
(V)	Ground	All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	ov	
9	0	Front door LH UN-	Outro	Front door LH	UNLOCK (actuator is activated)	Battery voltage	-
(L)	Ground	LOCK	Output	Front door Ln	Other than UNLOCK (actuator is not activated)	0V	
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	0V	•
14 (GR/	Ground	Engine switch (push switch) illumination	Input	Tail lamp		NOTE: When the illumination brightening/dimming level is in the neutral position (V)	
W)	Giound	ground	пірис	тан таптр	ON	10 0 2 ms	
15					OFF	Battery voltage	
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
	.,				Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)		control	•	lamp	ON When sutside of the yehi	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)				ON	When outside of the vehi- cle is dark	Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop Jamp quitch 2	lpput	Stop Jamp switch	OFF (brake pedal is released)	0V
(O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	ON (brake pedal is depressed)	Battery voltage
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB
					UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	_	ey is inserted into key slot	Battery voltage OV
31		Door window dofo		Rear window de-	ey is not inserted into key slot OFF	0V 0V
(G)	Ground	Rear window defog- ger feedback signal	Input	fogger switch	ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

	inal No.	Description				Value	Δ.
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
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	В
					ON (when front door RH opens)	11.8 V 0V	D
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms	F G
					ON	1.1V 0V	
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	J
				Ignition switch OF	F or ACC	10.2V	
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illu- mination	ON OFF	5.5V 0V	L M
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON OFF	0V Battery voltage	IVI
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	Ν
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF ACC or ON	0V 5.0V	0

	inal No.	Description				V/-I
(Wire	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 *** 0.2s OCC3881D
(G/O)	Glouliu	er signal	Output	ŎN	When receiving the signal from the transmitter	(V) 6 4 2 0
48 (R/G)	Ground	Selector lever trans- mission range switch signal	Input	Selector lever	P or N position Except P and N positions	12.0V 0V
-					ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	Battery voltage
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Input	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 5 0 2 ms JPMIA0031GB 10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
51 (L/W)	Ground	Combination switch OUTPUT 1 Input	Combination switch	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	(V) 15 10 5 0 2 ms JPMIA0032GB	

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

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	inal No. e color)	Description			0 1111	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	OV	
					Front washer switch ON (Wiper intermittent dial 4)	(V) 15	
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	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		
50				Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO	(V)	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input		Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB 10.7V	
					All switch OFF	0V	
					Front fog lamp switch ON		
				Combination	Lighting switch 2ND	(V) 15	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Input	Input Combination switch (Wiper intermit-	Input switch (Wiper intermit-	Lighting switch flash-to- pass	10 5 0
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
57 (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 JPMIA0011GB 11.8V	
					ON (front door LH OPEN)	0V	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)	Cidana	ger relay	Calput	fogger	Not activated	0V	

Revision: August 2013 RF-31 2014 Maxima NAM

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	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
60	Ground	Front console anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(B/R)	Glodina	na 2 (-)	Guipur	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
61	61 (W/R) Ground	Center console antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 1 s JMKIA0062GB
61 (W/R)				ŌFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 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 1 s JMKIA0062GB
(V)	Giodila	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	^						
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α						
63		Front outside handle	0.4.4	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	С						
(P)	Ground	RH antenna (+)	Output	switch is operated with ignition switch OFF	switch is operated with ignition	(V) 15 10 5 0 JMKIA0063GB	E F						
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 1	G H						
(V)	Clound	LH antenna (-)	ed with ignition switch OFF	ed with ignition	door LH request switch is operat- ed with ignition	ed with ignition	ed with ignition	ed with ignition	ed with ignition	ed with ignition	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	J RF
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 JMKIA0062GB	M						
(P)	Ciounu	LH antenna (+)	Сири	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	P						

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description				
	e color)	Signal name	Input/ Output		Condition	Value (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 con- trol	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Crowned	Remote keyless entry	Input/	During waiting	ON	(V) 15 10 5 1 ms JMKIA0064GB
(L/O)	Ground	receiver signal	Output	When operating ei	ther 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
75 (R/Y)	Ground	d Combination switch INPUT 5	Output	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

< ECU DIAGNOSIS INFORMATION >

Condition Cond		inal No.	Description				Value	
All switch OFF (Wiper intermittent dial 4) Combination switch Combination switch Combination switch NPUT 3 Combination switch Combination switch Combination switch Combination switch Combination switch Lighting switch 19h-beam (Wiper intermittent dial 4) Lighting switch 2ND (Wiper intermittent dial 4) Any of the conditions below with all switch CPF (Wiper intermittent dial 4) Any of the conditions below with all switch CPF (Wiper intermittent dial 4) Any of the conditions below with all switch CPF (Wiper intermittent dial 4) Wiper intermittent dial 4) Wiper intermittent dial 4) Wiper intermittent dial 4 Wiper intermittent dial 3 Any of the conditions below with all switch CPF (Wiper intermittent dial 4) Wiper intermittent dial 4 Wiper intermitten			Signal name		Condition			А
Combination switch Combination switch Combination		(-)		Cutput			2 ms	С
Lighting switch 2ND (Wiper intermittent dial 4) Lighting switch 2ND (Wiper intermittent dial 3 Lighting switch 0FF Wiper intermittent dial 3 Lighting switch 2ND (V) Light		Ground		Output			15 10 5 0 2 ms	F
Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 2 Wiper intermittent dial 3 The second Can-L Input/ Output — — — — — — — — — — — — — — — — — — —	(R/G)	Glound	INPUT 3	Output	switch		2 ms JPMIA0037GB	
Canal Cana						with all switch OFFWiper intermittent dial 1Wiper intermittent dial 2	15 10 5 0 2 ms	
Registration Ground Ground CAN-H Input/ Output Inp		Ground	CAN-L			_	_	
80 (R/L) Ground Key slot illumination Output Key slot illumination N N N N N N N N N N N N	79	Ground	CAN-H	Input/		_	_	\mathbb{N}
81 Ground ON indicator lamp Output Ignition switch	80					Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	0
Ground ON indicator lamp Output I Ignition switch	<u></u>							
		Ground	ON indicator lamp	Output	Ignition switch			

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value
		Signal name	Input/ Output	Condition		(Approx.)
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)	Giodila	ACC relay control	Output	ignition switch	ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	OV
					Any position other than P	Battery voltage
					ON (pressed)	OV
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0016GB
					ON (pressed)	0V
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
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

	inal No.	Description				Value	٨
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	B C
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	J RF
					Front washer switch ON	(V) 15 10 5 0 2 ms	M
						1.3V	0

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	А
					All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V	В
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	F
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J RE
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	M
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Ρ

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Value	
(+)	(-)	Signal name	Input/ Output			(Approx.)	
103			Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	
(V)	Ground	Trunk ild Operiing.	Output	Trunk na	Close (trunk lid opener actuator is not activated)	0V	
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
(V/W)		•	'	•	OFF	Battery voltage	
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	
(B)	Clound	1 (-)	Carput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
115	Ground	Trunk room antenna Output Ignition switch OFF	ak room antenna		When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1	
(W)	Ground		Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	А		
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	\wedge		
					When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	В		
118 (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch		JMKIA0062GB	D		
				ŎFF	When Intelligent Key is not in the antenna detection area	10 5 0	E F		
						JMKIA0063GB	G		
					When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	Н		
119 (BR/	Ground	Rear bumper anten- na (+)	Output	When the trunk lid request switch is operated with		1 s JMKIA0062GB	I		
W)				ignition switch OFF			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0	RF
						JMKIA0063GB	L		
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage			
(W)		E/R) control		J	ON	0V	M		
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB	N		
					ON (trunk is open)	0V	Р		
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)	Sibulid	control	Juiput	ON	When selector lever is in P or N position and the brake is not depressed	0V	ı		

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	OV
(BR)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	ON (pressed) OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB
144	Ground	Request switch buzz-	Output	Request switch	Sounding	OV
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	OV
(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)	0V
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

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
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

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
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)
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
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)

DTC Inspection Priority Chart

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

Priority	DTC	
1	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	RF
	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION 	L
	B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH	М
4	 B2605: PNP SWITCH B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST 	N
	 B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC 	0
	 B2618: BCM B261A: PUSH-BTN IGN SW B26E1: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	Р

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1728: [CODE UNIT
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

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-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-37</u>
B2191: DIFFERENCE OF KEY	×	_	_	<u>SEC-40</u>
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-41</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-42</u>
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	<u>SEC-43</u>
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-46</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-48</u>
B2560: STARTER CONT RELAY	×	×		SEC-49

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_		BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-50
B2602: SHIFT POSITION	×	×	_	SEC-53
B2603: SHIFT POSI STATUS	×	×	_	SEC-56
B2604: PNP SWITCH	×	×	_	SEC-59
B2605: PNP SWITCH	×	×	_	SEC-61
B2608: STARTER RELAY	×	×	_	SEC-63
B260A: IGNITION RELAY	×	×	_	PCS-48
B260F: ENG STATE SIG LOST	×	×	_	SEC-65
B2614: ACC RELAY CIRC	_	×	_	PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×		PCS-56
B2617: STARTER RELAY CIRC	×	×	_	SEC-67
B2618: BCM	×	×	_	PCS-59
B261A: PUSH-BTN IGN SW	_	×	_	PCS-60
B2622: INSIDE ANTENNA	_	_	_	DLK-60
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	_	SEC-66
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

SUNROOF MOTOR ASSEMBLY

< ECU DIAGNOSIS INFORMATION >

[WITH SINGLE PANEL SUNROOF]

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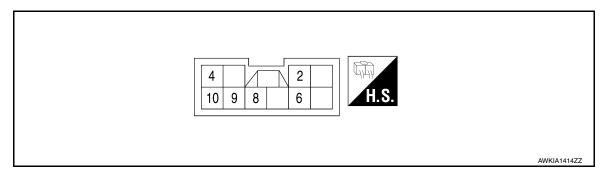
0

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SUNROOF MOTOR ASSEMBLY

Reference Value

TERMINAL LAYOUT



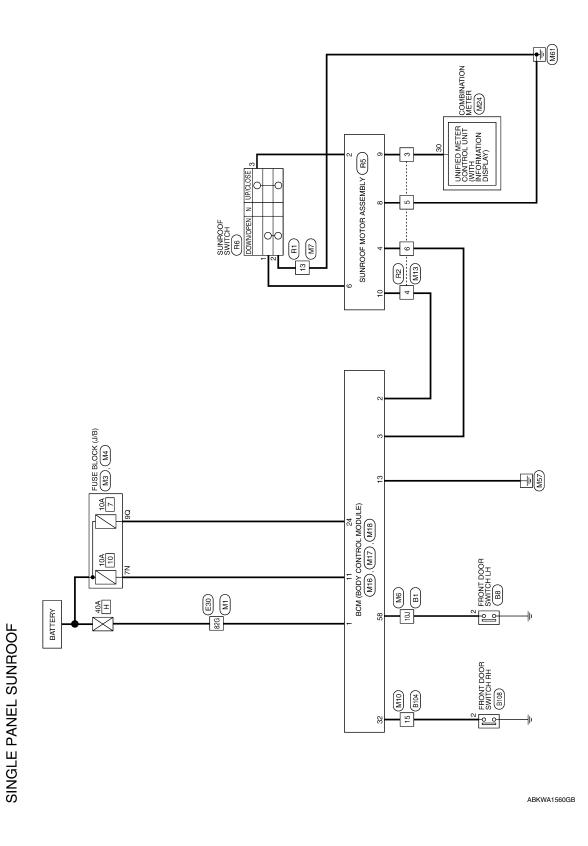
PHYSICAL VALUES

	inal No. e 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			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) 4 2 0
10 (R/Y)	Ground	Sunroof power supply	Input	_	Battery voltage

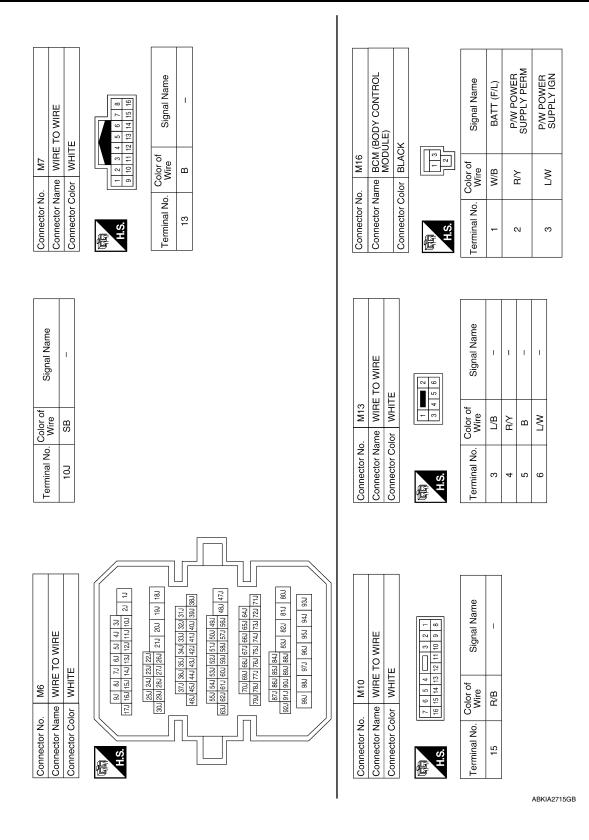
WIRING DIAGRAM

SUNROOF SYSTEM

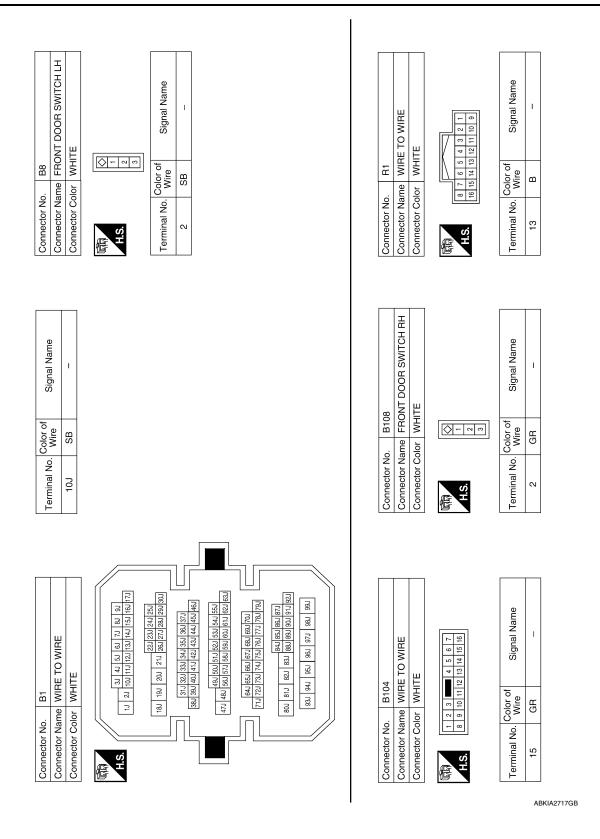
Wiring Diagram



							Α
	SK (J/B)	20 10	Signal Name -				В
	M4 FUSE BLOCK (J/B) WHITE	40 30					С
	-	4 0 0	Color of Wire R/W				D
	Connector No. Connector Name Connector Color	赋利 H.S.	Terminal No.				Е
							F
	M3 FUSE BLOCK (J/B) WHITE	11N AN	Signal Name				G
	M3 FUSE BL WHITE	3N	Color of Wire Y/R				Н
	Connector No. Connector Name Connector Color	· σ	Terminal No. W				I
(0		E T	Ter				J
ONNECTORS							RF
OOF CON	WIRE	96 86 76 66 56 46 36 16 176 176 176 176 176 176 176 176 176	33G 32G 31G 30G 29G 23G 27G 19G 19G	500 570 560 550 520 510 520 510 520 510 520 510 520 520 510 520	Signal Name		L
UNRC	M1 WIRE TO \	8G 7G 6G 15G 14G 13C 25G 24G 23G	32G 31G 30G 40G 39G 38C 48G 47G 46C	61G 66G 55G 61G 60G 59G 71G 70G 69G 78G 77G 76G			M
SINGLE PANEL SUNROOF C	Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	96 176 166	346 336	880 720 620	al No. Color of Wire G W/B		Ν
VGLE F	Connec	जिंदी H.S.		<u> </u>	Terminal No. 82G		0
S						ABKIA2714GB	



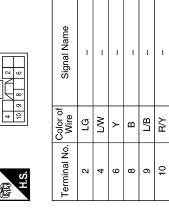
	А
M24 COMBINATION METER WHITE WHITE 8 9 10 11 12 13 14 15 16 17 18 19 8 29 30 31 32 33 34 35 36 37 38 39 40 9 Signal Name 1	В
M24 COMBINATIC WHITE WHITE B 9 10 11 12 28 29 30 31 32 28 29 30 31 32 28 29 30 31 32 28 29 30 31 32 32 32 32 32 32 32 32 32 32 32 32 32	С
	D
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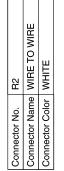


ector No. R6	Connector Name (WITHOUT DUAL PANEL SUNROOF)	Connector Color WHITE	
Connector No.	Connector	Connector	臣

Signal Name	ı	ı	1
Color of Wire	>	В	LG
Terminal No. Wire	-	2	ဇ

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









Signal Name	I	ı	ı	1
Color of Wire	L/B	Ρ/Υ	В	ΓW
Terminal No. Wire	ε	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:0000000009465686

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-36, "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".

Is the inspection result normal?

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

NO >> Repair or replace malfunctioning parts.

AUTO OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

AUTO OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000009465687

1. PERFORM INITIALIZATION PROCEDURE

OID.000000009403087

Perform initialization procedure.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Perform basic inspection. Refer to RF-4, "Work Flow".

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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:0000000009465688

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?

YES >> Inspection End.

NO >> Perform basic inspection. Refer to RF-4, "Work Flow".

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-67, "Component Function Check".

Is the inspection result normal?

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

NO >> Repair or replace malfunctioning parts.

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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:0000000009465690

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

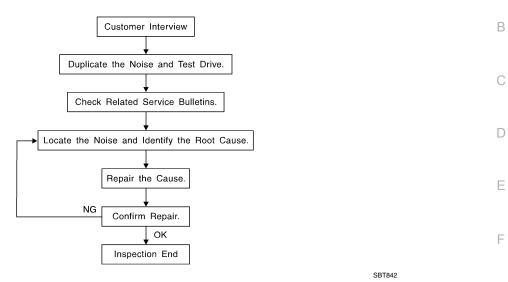
Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

Is the inspection result normal?

YES >> Inspection End.

NO >> Perform basic inspection. Refer to RF-4, "Work Flow".

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 RF-64, "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 description 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/fact movement/brought on by

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.
- 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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[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 (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
- 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: J-39565 and mechanic's 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 fasteners 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-61, "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-50397) 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. NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- 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

INFOID:0000000009895330

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

- Cluster lid A and the instrument panel
- Acrylic lens and combination meter housing
- Instrument panel to front pillar finisher
- 4. Instrument panel to windshield
- Instrument panel pins
- Wiring harnesses behind the combination meter
- 7. 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. Shift selector 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
- 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-50397) 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.

SUNROOF/HEADLINING

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

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sun visor shaft shaking in the holder
- 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.

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RF-61 2014 Maxima NAM Revision: August 2013

< SYMPTOM DIAGNOSIS >

[WITH SINGLE PANEL SUNROOF]

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
- 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 installed to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- Loose radiator installation pins
- 5. 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

INFOID:0000000009895331

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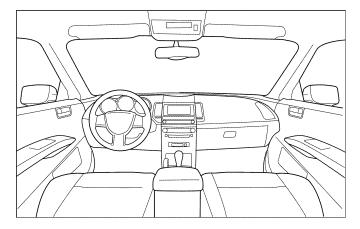
Dear Customer:

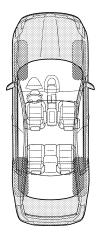
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked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

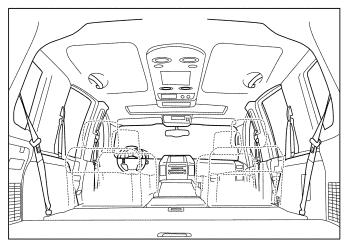
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

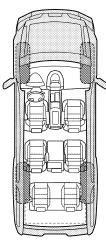
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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 SINGLE 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 rair y or dusty c her:	ning or wet	
III. WHEN DRIVING:	IV. W	HAT TYPE	OF NOISE	<u> </u>
 ☐ 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 minumark 	☐ Cr ☐ Ra ☐ Kn ☐ Tid ☐ Th	-	alking on an aking a bal knock at th ock second muffled kr	e door) I hand) nock noise)
TO BE COMPLETED BY DEALERSHIP P Test Drive Notes:	ERSONN	EL 		
		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	m repair			
VIN:				
W.O.#	Date	:		

Revision: August 2013 RF-64 2014 Maxima NAM

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.

Precaution for Work

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

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PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000009465696

Tool number (TechMate No.) Tool name		Description
— (J-39570) Chassis Ear	SIIAO993E	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	ALJIA1232ZZ	Repairing the cause of noise
— (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000009465697

Tool name		Description
Engine Ear		Locating the noise
	SIIA0995E	
Power tool		Loosening nuts, screws and bolts
	PIIB1407E	

REMOVAL AND INSTALLATION

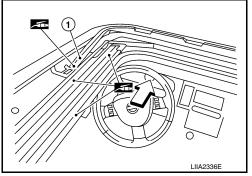
SUNROOF UNIT ASSEMBLY

Inspection INFOID:0000000009465698

WIND DEFLECTOR

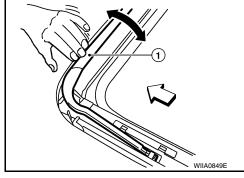
- Open glass lid assembly fully.
- 2. Visually check for proper installation, damaged/deteriorated components, or foreign objects within mechanism. Correct as required for smooth operation.
- 3. Check for grease at the wind deflector arm (1) and pivot areas. If necessary, apply a sufficient amount of 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. If damage is found, replace either wind deflector (1) or sunroof unit assembly as required.

<⊒:Front



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 RF-72, "Removal and Installation".

- 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 RF-72, "Removal and Installation", or repair the panel.

DRAIN HOSES

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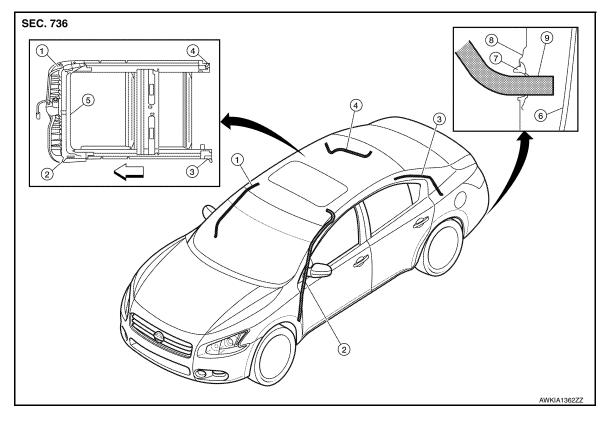
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- 1. Drain hose front (RH)
- 4. Drain hose rear (RH)
- 7. Seal
- <⇒ Front

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

- Drain hose rear (LH)
- 6. Fascia
- 9. Drain hose
- 1. Remove the headlining. Refer to INT-33, "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.
- 3. Pour water through drain hoses to determine watertight performance.

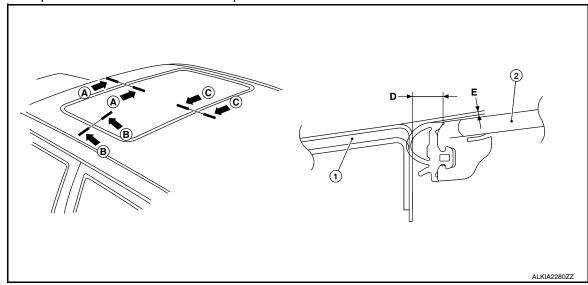
 If damaged or leaking portions in any drain hose is found, replace entire drain hose as necessary.

ADJUSTMENT

CAUTION:

- · Always work with a helper.
- Handle glass lid assembly with care to prevent damage.
 NOTF:
- · For easier and more accurate installation, always mark each point before removal.
- · After any adjustment, check sunroof operation and glass lid assembly alignment.

Inspect then measure the gap and surface height difference between the roof panel and glass lid assembly; compare to specifications. Determine which procedure to follow based on results of measurements.



1. Roof panel

Glass lid assembly

Portion	D (Gap)	E (Surface height difference)
A – A	5.8 (0.23 in)	-0.8 ± 1.5 (-0.03 ± 0.06)
B – B	5.8 (0.23 in)	-0.8 ± 1.5 (-0.03 ± 0.06)
C – C	5.8 (0.23 in)	-0.8 ± 1.5 (-0.03 ± 0.06)

Gap adjustment (Front and Rear)

Open sunshade assembly (1).

Front

- 2. Tilt glass lid assembly up, then release side trim cover (2) and set aside.
- 3. 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 down several times using sunroof switch to check that it operates smoothly.
- 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 tightening remaining bolts.

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

Gap Adjustment (Sides)

- Remove headlining. Refer to INT-33, "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.

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

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Tighten sunroof unit assembly and sunroof side bracket bolts.

RF-69 2014 Maxima NAM Revision: August 2013

SUNROOF UNIT ASSEMBLY

< REMOVAL AND INSTALLATION >

[WITH SINGLE PANEL SUNROOF]

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-33, "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-72, "Removal and Installation".

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.

NOTE:

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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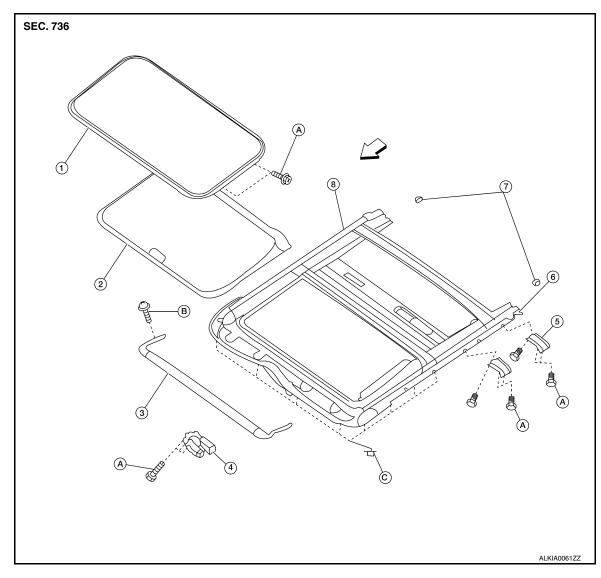
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Exploded View



- 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
- Drain hose connector
- A. Bolt
- < ☐ 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-33</u>, "Removal and Installation".
- 3. Disconnect drain hoses.

INFOID:0000000009465700

Revision: August 2013 RF-71 2014 Maxima NAM

SUNROOF UNIT ASSEMBLY

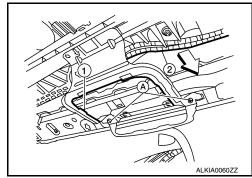
< REMOVAL AND INSTALLATION >

[WITH SINGLE PANEL SUNROOF]

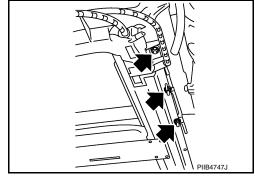
4. Remove screws (A), then pull sunroof switch bracket (1) away from sunroof unit assembly (2).

<□ Front

5. Disconnect the harness connector from the sunroof motor.



- 6. Remove bolts on the front end and side rails of the sunroof unit assembly.
- 7. 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.



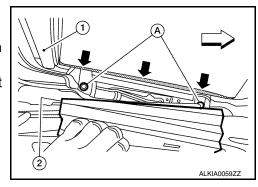
Installation

- 1. Loosely tighten the rear sunroof side bracket bolts to the sunroof unit assembly side rails.
- 2. 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.
- 4. 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.
- 7. Tighten the rear sunroof side bracket bolts at the vehicle side first, then at the side rail end.
- 8. Connect the harness connector to the sunroof motor.
- 9. Install sunroof switch bracket.
- 10. Connect drain hoses.
- 11. Install headlining. Refer to INT-33, "Removal and Installation".

GLASS LID ASSEMBLY

Removal

- 2. Slide the side trim covers (2) (LH/RH) 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

- 1. Position glass lid assembly to sunroof unit assembly.
- 2. Tighten glass lid assembly bolts to specification.

NOTE:

SUNROOF UNIT ASSEMBLY

< REMOVAL AND INSTALLATION >

[WITH SINGLE PANEL SUNROOF]

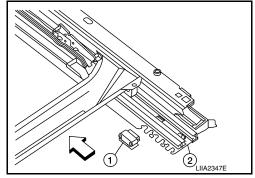
First tighten left front bolt, then right rear bolt on glass lid assembly to prevent uneven torque while tightening remaining bolts.

- Slide side trim covers onto inside edge of glass lid assembly.
- After installation, check sunroof operation and glass lid assembly alignment. Refer to RF-68, "Inspection".

SUNSHADE

Removal

- Remove sunroof unit assembly. Refer to RF-72, "Exploded View".
- Remove glass lid assembly. Refer to <u>RF-72</u>, "Removal and Installation".
- 3. Remove the sunshade stoppers (1) (LH/RH) from the sunroof unit assembly side rails (2). <□ 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 ASSEMBLY

Removal

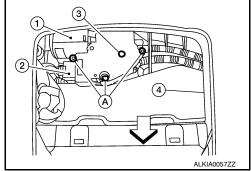
- Close glass lid assembly.
- 2. Remove front room/map lamp assembly from headlining (4). Refer to INL-84, "Removal and Installation".

<>→ Front

- 3. Remove sunroof motor assembly screws (A).
- 4. Disconnect harness connector (2) and remove sunroof motor assembly (1) from sunroof unit assembly front end rail.

CAUTION:

Do not run the removed sunroof motor assembly as a single unit.



Installation

1. Move sunroof motor assembly 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 assembly 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.

Synchronize sunroof motor with sunroof unit assembly. Refer to RF-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH DUAL PANEL SUNROOF]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

WorkFlow (INFOID:000000010048974

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

${f 3.}$ 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.

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS"

Perform the diagnosis with "DTC/Circuit diagnosis" of the applicable system.

>> GO TO 5.

5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Are the malfunctions corrected?

YES >> Inspection End.

NO >> GO TO 3.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH DUAL PANEL SUNROOF]

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000010048975

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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.
- 3. 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.
- 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 sunshade completely with auto-slide close.
- 8. Check that sunshade 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.

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Revision: August 2013 RF-75 2014 Maxima NAM

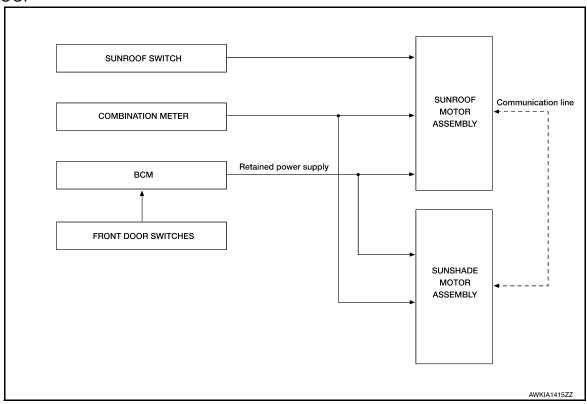
SYSTEM DESCRIPTION

SUNROOF SYSTEM

System Diagram

INFOID:0000000010048977

SUNROOF

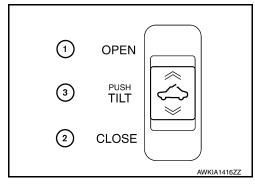


System Description

INFOID:0000000010048978

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.

[WITH DUAL PANEL SUNROOF]

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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		
vo	CLOSE: 1st	Tilt down	JMKIA1884ZZ
JMKIA1886ZZ	CLOSE: 2nd	Tilt down and close the shade at the same time (AUTO)	
			JMKIA1885ZZ

Revision: August 2013 RF-77 2014 Maxima NAM

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

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, sunshade motor will open [150 mm (5.91 in) or more] sunshade.

Component Parts Location

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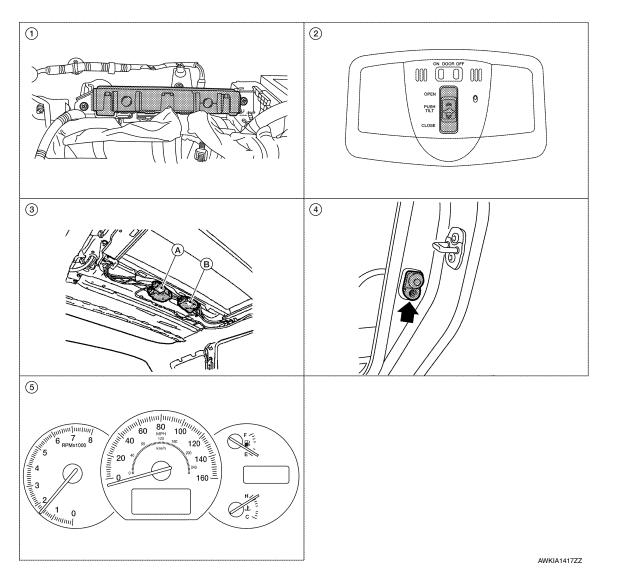
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- BCM M16, M17, M18
 (view with instrument panel removed)
- 4. Front door switch LH B8, RH B108
- 2. Sunroof switch R14
- 5. Combination meter M24
- A: Sunroof motor assembly R101
 B: Sunshade motor assembly R102 (view with headlining removed)

Component Description

INFOID:0000000010048980

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)

[WITH DUAL PANEL SUNROOF]

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010064712

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct D	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
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		×	×	×	×		

RETAINED PWR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH DUAL PANEL SUNROOF]

CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000010064713

DATA MONITOR

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

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< DTC/CIRCUIT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000010064716

Regarding Wiring Diagram information, refer to BCS-67, "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

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

((+) (-)		
В	BCM		
Connector	Terminal		
M16	1	Ground	
M17	11		Battery voltage
M18	24		

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

SUNROOF MOTOR ASSEMBLY

SUNROOF MOTOR ASSEMBLY: Diagnosis Procedure

INFOID:0000000010048984

< DTC/CIRCUIT DIAGNOSIS >

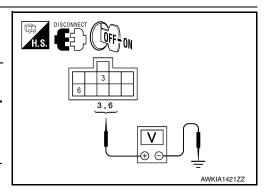
[WITH DUAL PANEL SUNROOF]

Regarding Wiring Diagram information, refer to RF-123, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

(+) Sunroof motor assembly			V II 0.0
		(–)	Voltage (V) (Approx.)
Connector	Terminal		(-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,
R101	3	Ground	Battery voltage
KIOI	6	Glound	Dattery voltage



Is the inspection result normal?

YES >> GO TO 2.

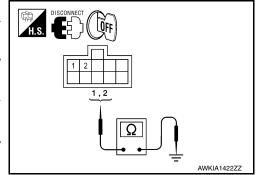
NO >> GO TO 3.

2.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Sunroof motor	Sunroof motor assembly		Continuity
Connector	Terminal	Ground	Continuity
D101	1	Ground	Yes
R101	2		res



Is the inspection result normal?

YES >> GO TO 4.

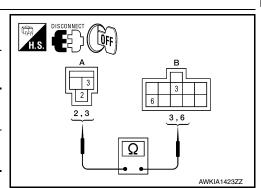
NO >> Repair or replace the harness.

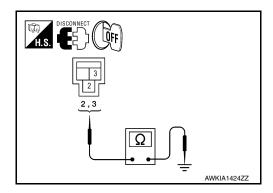
3.CHECK SUNROOF MOTOR CIRCUIT

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

ВСМ	BCM (A)		Sunroof motor assembly (B)		
Connector	Terminal	Connector Terminal		Continuity	
M16	2	R101	6	Yes	
WITO	3	101	3	163	

4. Check continuity between BCM harness connector and ground.





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< DTC/CIRCUIT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

BCM			Continuity
Connector	Terminal	Ground	Continuity
M16	2	Giodila	No
WITO	3		INO

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair or replace the harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

SUNSHADE MOTOR ASSEMBLY

SUNSHADE MOTOR ASSEMBLY: Diagnosis Procedure

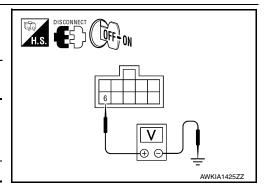
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Regarding Wiring Diagram information, refer to RF-130, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

(+)			Voltage (V) (Approx.)	
Sunshade mo	Sunshade motor assembly			
Connector	Terminal		() ,	
R102	R102 6		Battery 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 sunshade motor assembly harness connector and ground.

Sunshade motor assembly			Continuity
Connector	Terminal	Ground	Continuity
R102	1		Yes

DISCONNECT OFF

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness.

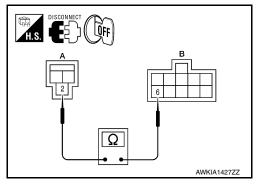
3.CHECK SUNSHADE MOTOR CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

- 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
M16	2	R102	6	Yes



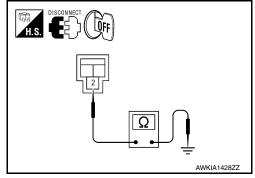
4. Check continuity between BCM harness connector and ground.

всм			Continuity
Connector	Terminal	Ground	Continuity
M16	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-79</u>, "Removal and Installation".

NO >> Repair or replace the harness.



4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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COMMUNICATION SIGNAL CIRCUIT

Description INFOID:000000010048986

Detects door open/close condition.

Diagnosis Procedure

INFOID:0000000010048987

Regarding Wiring Diagram information, refer to RF-123, "Wiring Diagram".

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

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

-	totor assembly Terminal	(-)	Voltage (V) (Approx.)
R102	7	Ground	(V) 15 10 5 0 1s JMKIA1869ZZ

Is the inspection result normal?

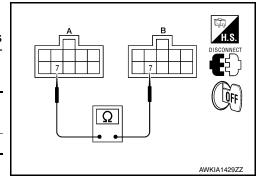
YES >> Inspection End.

NO >> GO TO 2.

2.CHECK COMMUNICATION SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sunroof motor assembly connector.
- 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



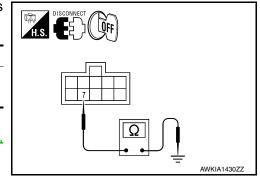
4. Check continuity between sunshade motor assembly harness connector and ground.

Sunshade m	Sunshade motor assembly		Continuity
Connector	Terminal	Ground	No
R102	7		NO

Is the inspection result normal?

YES >> Replace sunshade motor assembly. Refer to RF-153, <a href=""Removal and Installation".

NO >> Repair or replace harness.



[WITH DUAL PANEL SUNROOF]

SUNROOF SWITCH

Description INFOID:0000000010048988

Transmits switch operation signal to sunroof motor assembly.

Diagnosis Procedure

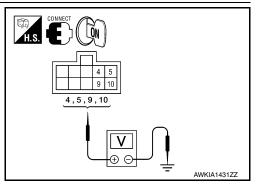
INFOID:0000000010048989

Regarding Wiring Diagram information, refer to RF-123, "Wiring Diagram".

1. CHECK SUNROOF SWITCH INPUT SIGNAL

- 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	Ground	Sunroof switch is operated OPEN (1st or 2nd)	0
			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



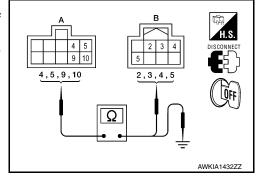
Is the inspection result normal?

YES >> Replace sunroof motor. Refer to RF-152, "Removal and Installation".

NO >> GO TO 2.

2.check sunroof switch circuit

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



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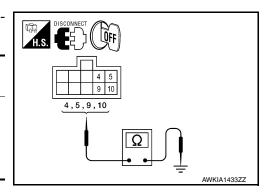
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Sunroof motor as	ssembly (A)	Sunroof switch (B)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	4	R14	5	
R101	5		3	Yes
	9		2	162
	10		4	

Check continuity between sunroof motor assembly harness connector and ground.

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



Is the inspection result normal?

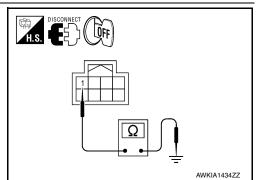
YES >> GO TO 3.

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-89, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sunroof switch. Refer to RF-171, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010048990

SUNROOF SWITCH

1. CHECK SUNROOF SWITCH

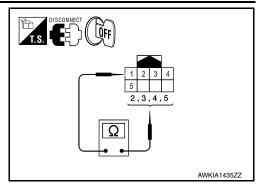
SUNROOF SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

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

Term	inals	Condition	Continuity
2		Sunroof switch is operated OPEN (2nd) or CLOSE (2nd)	Yes
		Other than above	No
3	1	Sunroof switch is operated OPEN (1st) or OPEN (2nd)	Yes
		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 <u>RF-171</u>, "Removal and Installation".

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[WITH DUAL PANEL SUNROOF]

DOOR SWITCH

Description

Detects door open/close condition.

Component Function Check

INFOID:0000000010048992

1. CHECK FUNCTION

(II) With CONSULT

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

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

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to RF-91, "Diagnosis Procedure".

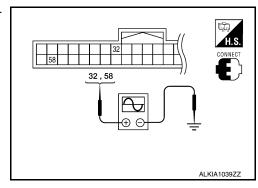
Diagnosis Procedure

INFOID:0000000010048993

Regarding Wiring Diagram information, refer to RF-123, "Wiring Diagram".

1. CHECK DOOR SWITCH INPUT SIGNAL

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



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Terminals					
(+)			Door condition		Voltage (V)
BCM connector	Terminal	(-)	(-)		(Approx.)
				OPEN	0
	58	Ground	Driver side	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB
M18				OPEN	0
	32		Passenger side	CLOSE	(V) 15 10 5 0 10 ms

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	B: B8 (Driver side)	2	Yes
A. WHO	32	B: B108 (Passenger side)	2	res

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58	Ground	No
	32		No

A B DISCONNECT 2 ALKIA1040ZZ

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-93, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

[WITH DUAL PANEL SUNROOF]

>> Inspection End.

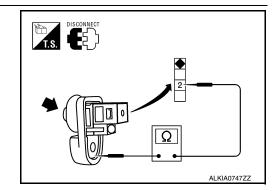
Component Inspection

INFOID:0000000010048994

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		Bool Switch Condition	Continuity	
2	Ground part of	Pressed	No	
2	door switch	Released	Yes	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	_
ED WIDED !!!	Other than front wiper switch HI	OFF	_
FR WIPER HI	Front wiper switch HI	ON	_
ED WIDED LOW	Other than front wiper switch LO	OFF	_
FR WIPER LOW	Front wiper switch LO	ON	_
ED WASHED SW	Front washer switch OFF	OFF	_
FR WASHER SW	Front washer switch ON	ON	_
ED WIDED INT	Other than front wiper switch INT	OFF	_
FR WIPER INT	Front wiper switch INT	ON	_
ED WIDED STOD	Front wiper is not in STOP position	OFF	_
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	_
TURN SIGNAL R	Other than turn signal switch RH	OFF	_
TURN SIGNAL R	Turn signal switch RH	ON	ŀ
TUDNI CIONAL I	Other than turn signal switch LH	OFF	
TURN SIGNAL L	Turn signal switch LH	ON	_
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF	_
TAIL LAWIP SW	Lighting switch 1ST or 2ND	ON	_
HI BEAM SW	Other than lighting switch HI	OFF	_
HI BEAIVI SVV	Lighting switch HI	ON	_
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF	_
HEAD LAIVIP SVV I	Lighting switch 2ND	ON	_
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF	_
HEAD LAIVIF 3VV 2	Lighting switch 2ND	ON	_
PASSING SW	Other than lighting switch PASS	OFF	_
PASSING SW	Lighting switch PASS	ON	_
AUTO LIGHT SW	Other than lighting switch AUTO	OFF	_
AUTO LIGHT SW	Lighting switch AUTO	ON	_
FR FOG SW	Front fog lamp switch OFF	OFF	_
FK FUG SW	Front fog lamp switch ON	ON	_
DOOR SW-DR	Driver door closed	OFF	_
DOOK GW-DK	Driver door opened	ON	_

Revision: August 2013 RF-93 2014 Maxima NAM

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOK SW-KK	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON
DOOR SW-BK	Trunk door closed	OFF
DOOK SW-BK	Trunk door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK 3VV	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
KEN ON TROM	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
VET CIT ON-200	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TD CANCEL CW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN OW	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
TONIC/LIAT MANTO	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
DKE LOOK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DICE LINE OOK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
DVE TD/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DICE DANIO	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
DICE 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 OUG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL OFFICER	When outside of the vehicle is bright	Close to 5 V
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEC 0111 DE	When front door request switch is not pressed (driver side)	OFF
REQ SW -DR	When front door request switch is pressed (driver side)	ON
	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON
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< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Monitor Item	Condition	Value/Status
REQ SW -RL	When rear door request switch is not pressed (driver side)	OFF
REQ 3W -RL	When rear door request switch is pressed (driver side)	ON
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF
ALQ OW TAX	When rear door request switch is pressed (passenger side)	ON
REQ SW -BD/TR	When trunk opener request switch is not pressed	OFF
NEQ 3W -BD/TK	When trunk opener request switch is pressed	ON
DUCH CW	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
IGN RLY2 -F/B	Ignition switch OFF or ACC	OFF
GN RL12 -F/D	Ignition switch ON	ON
A C C D L V . E / D	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON
DDAKE OM 4	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/OANG: C'A'	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
SET DN/N SW	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
	Driver door UNLOCK status	OFF
JNLK SEN -DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
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
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
JOHOIMIDIN	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
DOOR STAT-AS		

Revision: August 2013 RF-95 2014 Maxima NAM

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Monitor Item	Condition	Value/Status
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
PRMT ENG STRT	When the engine start is prohibited	RESET
FRIII ENGSTRI	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KLT 3W -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONT NWID 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
COM INWIDT	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
COM INWIED	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
COM INWIDZ	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
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
11 4	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
IF 3	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
IF Z	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
11 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
ID DECCT EL 1	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET
ID DECCT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID NEGGI KKI	When ID of rear RH tire transmitter is not registered	YET

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Monitor Item	Condition	Value/Status
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGGI KLI	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON
BU77FR	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

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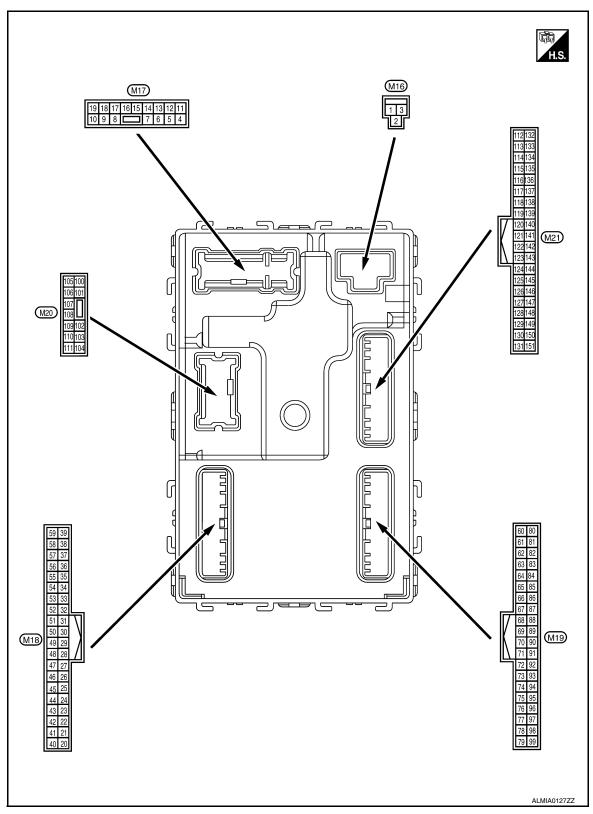
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Terminal Layout



Physical Values

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

	inal No.	Description				V-1	Α			
(Wire	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)				
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	В			
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	C			
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage				
4	0 1	Interior room lamp	0 1 1	After passing the ir er operation time	nterior room lamp battery sav-	ov				
(P/W)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room	Battery voltage	E			
5		Front door RH UN-			UNLOCK (actuator is activated)	Battery voltage				
(G)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	ov	F			
7		0	0 1 1	G	ON	0V				
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage	C			
8					LOCK (actuator is activated)	Battery voltage				
(V)	(-round All doore C)Ck	Ground	All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	0V	F		
9	0 1	Front door LH LIN-	Front door LH UN-	Front door LH UN-	Front door LH UN-			UNLOCK (actuator is activated)	Battery voltage	ı
(L)	Ground	LOCK	Output	Output	Output	Front door LH	Other than UNLOCK (actuator is not activated)	ov		
10	0	Rear door RH and	Out-ut	Rear door RH	UNLOCK (actuator is activated)	Battery voltage				
(G)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	ov	RF			
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage				
13 (B)	Ground	Ground	_	Ignition switch ON		ov	L			
					OFF	0V				
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 2 ms	N			
15					OFF	JSNIA0010GB Battery voltage	F			
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V				

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Turn signal switch OFF OV Turn signal switch LH	Terminal No.		Description				Value
Turn signal switch OFF OV Turn signal switch OF Turn signal switch OFF Turn signal switch OFF OV Turn signal		-	Signal name			Condition	
Turn signal switch RH Second Turn signal (RH) Output Ignition switch ON		()		Catput		Turn signal switch OFF	0V
18 (G/Y) Ground Turn signal (LH) Output Ignition switch ON Turn signal switch LH Ignition switch Turn signal switch LH Interior room Int		Ground	Turn signal (RH)	Output		Turn signal switch RH	15 10 5 0 1 s PKID0926E
Turn signal switch LH Stop lamp switch Stop lamp switch Stop lamp switch COX	-					Turn signal switch OFF	0V
Control Cont		Ground	Turn signal (LH)	Output		Turn signal switch LH	15 10 5 0 1 s PKID0926E
Control Cont		Ground		Output		OFF	Battery voltage
Close to 5V Close to 5V	(Y)		control		lamp	ON	0V
Close to 0V		Ground	Optical sensor signal	Input		cle is bright	Close to 5V
Company Comp	(P/B)				ON		Close to 0V
26 (O/L) Ground Stop lamp switch 2 Input Stop lamp switch ON (brake pedal is depressed) 8 Battery voltage 100 100 100 100 100 100 100 1		Ground	Stop lamp switch 1	Input		_	Battery voltage
ON (brake pedal is depressed) Battery voltage Front door lock assembly LH (unlock sensor) Input Front door LH LOCK status		Ground	Ston lamp switch 2	Innut	Ston Jamp switch		ov
27 (O) Ground Front door lock assembly LH (unlock sensor) Input Front door LH	(O/L)	Oround	Stop lamp Switch 2	прис	Otop lamp switch		Battery voltage
		Ground	sembly LH (unlock	Input	Front door LH		15 10 5 0 10 ms JPMIA0011GB 11.8V
UNLOCK status 0V					NA/Is as Lat III		
29 Ground Key slot switch Input When Intelligent Key is inserted into key slot Battery voltage When Intelligent Key is not inserted into key slot OV		Ground	Key slot switch	Input			
The management of the most local management o							
31 Ground Ground Ground Ger feedback signal Input Rear window de- fogger switch ON Battery voltage		Ground	Rear window detog- ger feedback signal	Input			

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Terminal No. (Wire color)		Description				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 5 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	
					ON	JPMIA0012GB 1.1V	
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 10 ms JPMIA0013GB	
				Ignition switch OFF or ACC		0V	
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illu- mination	OFF	5.5V 0V	
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON OFF	0V Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		ov	
46	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF ACC or ON	0V 5.0V	

Revision: August 2013 RF-101 2014 Maxima NAM

Terminal No.		Description				V-L -	
(Wire	e color)	Signal name	Input/ Output	Condition		Value (Approx.)	
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 • • 0.2s OCC3881D	
(G/O)	Glound	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	
48		Selector lever trans-			P or N position	12.0V	
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V	
		3 3			ON	0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB	
					OFF	Battery voltage	
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Input	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	
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	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 5 0 2 ms JPMIA0032GB 10.7V	

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

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Terminal No. (Wire color)		Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0V
50		Combination suitab		Countries attions	Front washer switch ON (Wiper intermittent dial 4)	(V) 15
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	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	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO Lighting switch AUTO	(V) 15 10 5 0 2 ms JPMIA0034GB
					All switch OFF	10.7V
	Ground	Combination switch OUTPUT 4	Input	Combination switch (Wiper intermit- tent dial 4)	Front fog lamp switch ON	
					Lighting switch 2ND	(V)
54 (G/Y)					Lighting switch flash-to- pass	15 10 5 0
					Turn signal switch LH	2 ms JPMIA0035GB
57 (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 11.8V
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)		ger relay	4	fogger	Not activated	0V

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

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

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

[WITH DUAL PANEL SUNROOF]

Terminal No.		Description				Value
(Wire	e color)	Signal name	Input/ Output	Condition		Value (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 con- trol	Output	Ignition switch	OFF or ACC	0V Battery voltage
71		Remote keyless entry receiver signal	Input/	During waiting		(V) 15 10 5 1 ms 1 ms
(L/O)	Ground		Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB
75 (R/Y)	Ground	Combination switch INPUT 5	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					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

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

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Terminal No.		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
76 (R/G)			Сигри		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
	Ground	Combination switch	Output	Combination	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
	Any of the conditions be with all switch OFF • Wiper intermittent d • Wiper intermittent d	switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V			
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	
78 (P)	Ground	CAN-L	Input/ Output		_	_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking	Battery voltage (V) 15 10 5 0 JPMIA0015GB 6.5V	
81	_		_		ON OFF or ACC	0V 0V	
(LG)	Ground	ON indicator lamp	Output	Ignition switch	ON	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Terminal No.		Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)	Giodila	ACC relay control	Output	ignition switch	ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Cround	tion switch	mpat	Colodiol 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 5 0 10 ms JPMIA0016GB
					ON (pressed)	0V
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)	Ground	lay control	Juipui	iginuon switch	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Signal name Output (Approx.) All switch OFF All switch OFF Turn signal switch LH Combination switch (NPUT 1) Combination switch (Wiper intermittent dial 4) Front wiper switch ON Front washer switch ON Contained (Approx.) (inal No.	Description				Value	А
All switch OFF Turn signal switch LH Combination switch (NPUT 1 Turn signal switch RH (V) 15 10 10 11 11 11 11 11 11 11			Signal name	Input/ Output		Condition		
Ground Combination switch INPUT 1 Combination switch INPUT 1 Output Wiper intermittent dial 4) Front wiper switch LO Front washer switch ON Ground Combination switch Institution switch Institution switch Institution in switch Institution						All switch OFF	2 ms	B C
Ground Combination switch INPUT 1 Combination switch (Wiper intermittent dial 4) Front wiper switch LO Front washer switch ON Combination switch (Wiper intermittent dial 4) Front washer switch ON Front washer switch ON Front washer switch ON						Turn signal switch LH	2 ms	E F
Front wiper switch LO To To To To To To To To To T	95 (R/W)	Ground		Output	switch (Wiper intermit-	Turn signal switch RH	2 ms	G H
Front washer switch ON						Front wiper switch LO	2 ms	RF
JPMIA0039GB 1.3V						Front washer switch ON	10 5 0 2 ms	M

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		0 199		Value		
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)		
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V		
96	Ground	Combination switch	Output	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V		
(P/B)		INPUT 4		SWITC		switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
						Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	

< ECU DIAGNOSIS INFORMATION >

	Terminal No. Description (Wire color) Condition Value		Value	А			
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	\wedge
					All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V	В
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J RF
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	M
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Ρ

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
103	Ground	Trunk lid opening.	opening. Output Trunk lid		Open (trunk lid opener actuator is activated)	Battery voltage	
(V)	Giodila	Trunk iid Opening.	Output	Trunk iiu	Close (trunk lid opener actuator is not activated)	0V	
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
(V/W)		·			OFF	Battery voltage	
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(B)		1 (-)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
115	Ground	Trunk room antenna 1 (+)			Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(W)			Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	٨		
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α		
118		Door humner enten		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C		
(L/O)	Ground	Rear bumper antenna (-)	Output	lid request 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	E		
119		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H		
(BR/ W)	Ground	na (+)	Output	lid request switch is operated with ignition switch OFF	is operated with ignition switch	is operated with ignition switch OFF Wher	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	J RF
127		Ignition relay (IPDM			OFF or ACC	Battery voltage			
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V	N		
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	N		
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	ON (trunk is open) When selector lever is in P or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed	0V Battery voltage 0V	Р		

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	Giodila	switch)	IIIput	(push switch)	Not pressed	Battery voltage
					ON (pressed)	OV
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
144	Cround	Request switch buzz-	Outout	Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer Not sounding		Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)	Ground	switch	IIIput	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)	ov
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

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
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

< ECU DIAGNOSIS INFORMATION >

[WITH DUAL PANEL SUNROOF]

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
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)
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
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)

DTC Inspection Priority Chart

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

Priority	DTC	
1	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	
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION	
4	 B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST 	
	 B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC 	
	 B2618: BCM B261A: PUSH-BTN IGN SW B26E1: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	

[WITH DUAL PANEL SUNROOF]

Priority	DTC
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] RR C1711: [NO DATA] RR C1711: [CHECKSUM ERR] FL C1712: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FR C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1718: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

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-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-37</u>
B2191: DIFFERENCE OF KEY	×	_	_	<u>SEC-40</u>
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-41</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-42</u>
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	<u>SEC-43</u>
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-46</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-48</u>
B2560: STARTER CONT RELAY	×	×		SEC-49

< ECU DIAGNOSIS INFORMATION >

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_		BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-50
B2602: SHIFT POSITION	×	×	_	SEC-53
B2603: SHIFT POSI STATUS	×	×	_	SEC-56
B2604: PNP SWITCH	×	×	_	SEC-59
B2605: PNP SWITCH	×	×	_	SEC-61
B2608: STARTER RELAY	×	×	_	SEC-63
B260A: IGNITION RELAY	×	×	_	PCS-48
B260F: ENG STATE SIG LOST	×	×	_	SEC-65
B2614: ACC RELAY CIRC	_	×	_	PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×		PCS-56
B2617: STARTER RELAY CIRC	×	×		<u>SEC-67</u>
B2618: BCM	×	×	_	PCS-59
B261A: PUSH-BTN IGN SW	_	×	_	PCS-60
B2622: INSIDE ANTENNA	_	_	_	DLK-60
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	_	SEC-66
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>

< ECU DIAGNOSIS INFORMATION >

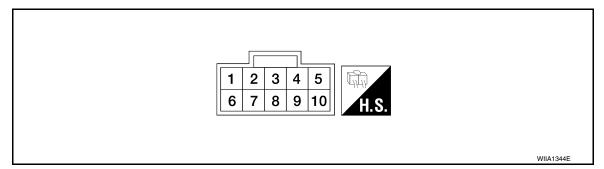
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

SUNROOF MOTOR ASSEMBLY

SUNROOF MOTOR ASSEMBLY

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition	on.	Voltage (V)	
+	-	Signal name	Input/ Output	Condition) II	(Approx.)	
1 (B)	Ground	Ground	1	_		0	
2 (O)	Ground	Ground	_	_		0	
				Ignition switch ON		Battery voltage	
3				Within 45 second after turned to OFF.	ignition switch is	Battery voltage	
(R)	Ground	RAP signal	Input	is opened during retained power of tion or retained power operation is ished.		0	
4		Sunroof switch signal		PUSH		0	
(Y)	Ground	(PUSH)	Input	Sunroof switch	Other than above	Battery voltage	
5	Cround	Sunroof switch signal	lmmut	Sunroof switch	OPEN (1st and 2nd)	0	
(LG)	Ground	(OPEN)	Input	Suriooi switch	Other than above	Battery voltage	
6 (L)	Ground	Battery voltage	_	_		Battery voltage	
7 (P)	Ground	Communication line	Input/ Output	Ignition switch ON		(V) 15 10 5 0 18 JMKIA1869ZZ	

Revision: August 2013 RF-119 2014 Maxima NAM

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SUNROOF MOTOR ASSEMBLY

< ECU DIAGNOSIS INFORMATION >

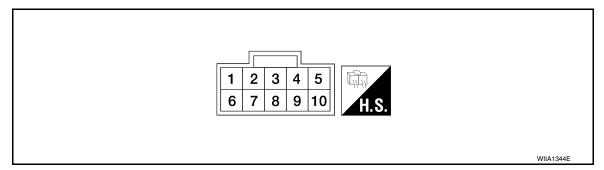
	inal No. e color)	Description		Condition	nn	Voltage (V)
+	-	Signal name	Input/ Output	Condition) i	(Approx.)
8 (BR)	Ground	Vehicle speed signal (2-pulse)	Input	Speed meter operated speed is approx. 40km		(V) 6 4 2 0 50ms ELF1080D
9 (W)	Ground	Sunroof switch signal (2nd)	- Indill		OPEN or CLOSE (2nd) Other than	0
					above	Battery voltage
10	Ground	Sunroof switch signal			CLOSE (1st and 2nd)	0
(V)	Ground	(CLOSE)	iiiput	Outhoof Switch	Other than above	Battery voltage

SUNSHADE MOTOR ASSEMBLY

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 18 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

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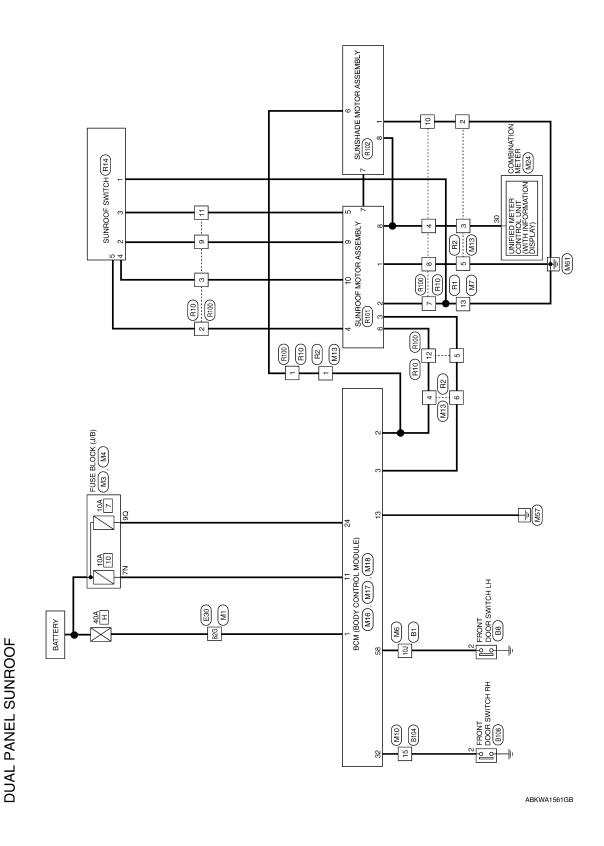
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WIRING DIAGRAM

SUNROOF MOTOR ASSEMBLY

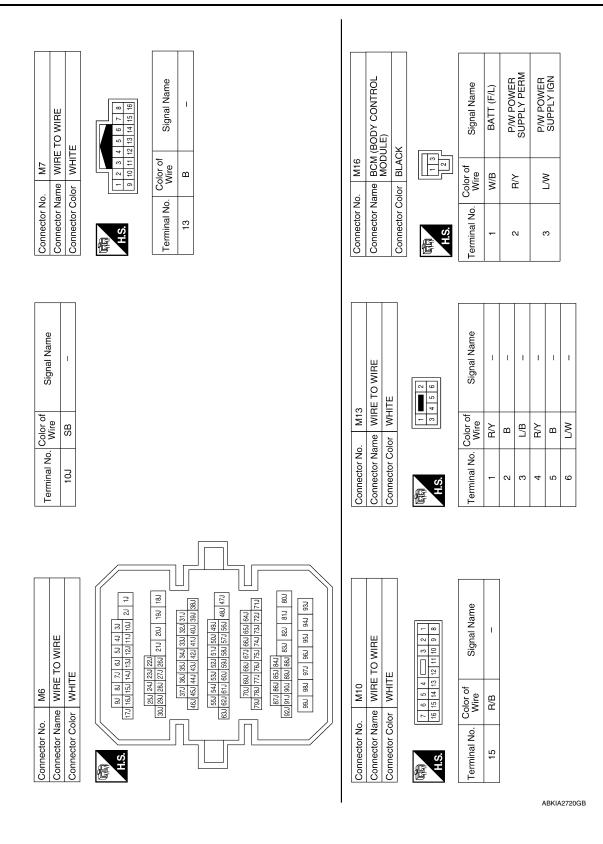
Wiring Diagram



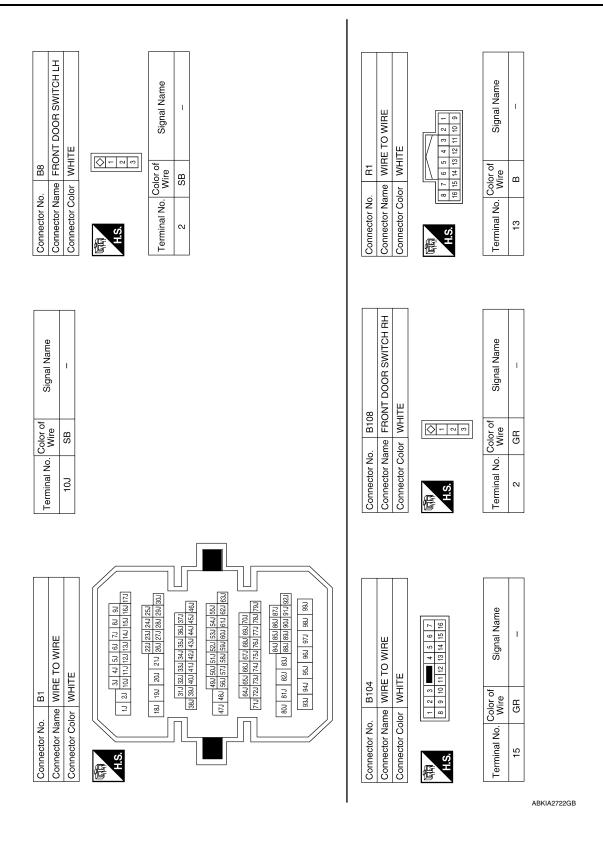
							А
	XK (J/B)	000	Signal Name -				В
	M4 FUSE BLOCK (J/B) WHITE	40 30 0 20 10 100 90 80 70 60 50					С
		100	o. Wire R/W				D
	Connector No. Connector Name Connector Color	H.S.	Terminal No.				Е
							F
	M3 FUSE BLOCK (J/B) WHITE	11 N N N N N N N N N N N N N N N N N N	Signal Name				G
		3N	Color of Wire Y/R				Н
	Connector No. Connector Name Connector Color						I
	Connec	H.S.	Terminal No.				J
NNECTORS							RF
CONNE			G 27G 19G 18G 6G 35G 4G 43G 42G	36 526 516 70 666 40 736 656 646 816	I Name		L
DUAL PANEL SUNROOF COI	M1 WIRE TO WIRE WHITE	96 86 76 86 56 46 36 176 166 156 146 136 126 116 106 266 256 246 236 226 216 209	346 336 326 316 306 296 286 286 276 1 20 386 326 336 336 346 356 356 356 356 356 356 356 356 356 35	Sed 570 Sed Sed	Color of Signal Nam Wire N/B -		M
VEL S	9 5	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	346 33	836 729 806 729 800 729 800 800 800 800 800 800 800 800 800 80			Ν
DUAL PAN	Connector No. Connector Narr	H.S.			Terminal No. 82G	ABKIA2719GB	0

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RF-123 Revision: August 2013 2014 Maxima NAM



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	COMBINATION METER WHITE		11 12 13 14 15 31 32 33 34 35	Signal Name	2P/R OUT					С
or No. M24	e 2	<u> </u>	4 5 6 7 8 9 10 24 25 26 27 28 29 30	Il No. Wire	L/B					D
Connector No.	Connect	是 H.S.	1 2 3 21 22 23	Terminal No.	30					Е
			23 22 21 20 43 42 41 40							F
	BCM (BODY CONTROL MODULE)		38 83 75 68 58 54 58 52 51 50 49 48 47 48 44 43 42 41 140	Signal Name	BRAKE SW 1	DR DOOR SW	Signal Name	1		G
o. M18	-	-	5 34 33 32 31 30 5 54 53 52 51 50	Color of Wire	B/B	SB	Color of Wire	re		ı
Connector No.	Connector Name		39 38 37 36 3 59 58 57 56 5	Terminal No.	24	28	Terminal No.	82G		J
		_			-					RF
	BCM (BODY CONTROL MODULE)	1 8 9 10 17 18 19	Signal Name	BAT BCM FUSE GND1				aniw c	16 26 106 116 126 136 146 156 166 176 136 146 156 166 176 136 146 156 166 176 136 146 156 166 176 136	L
M17		<u> </u>	Color of Wire	A//R				lor WHITE	16 26 106 116 116 26 106 116 116 116 116 116 116 116 116 11	N
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ၓ	Connector Color WHITE	TE		DUAL PANEL SUNROOF)
			Connector Color WHITE	r WHITE
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	<u> </u>		H.S.	5 6 7 8 4
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Connector No.	R2
Connector Name	Connector Name WIRE TO WIRE
Connector Color WHITE	WHITE





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Signal Name	I	-	I	I
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Terminal No.	٢	9	2	8

Connector No.	R101
Connector Name	SUNROOF MOTOR ASSEMBLY (WITH DUAL PANEL SUNROOF)
Connector Color GRAY	GRAY



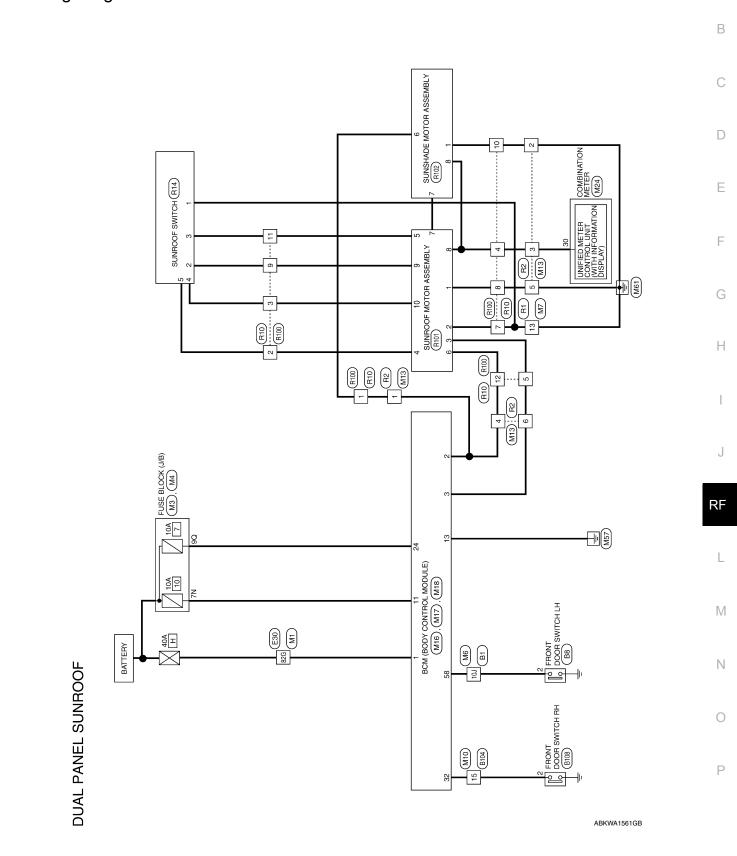


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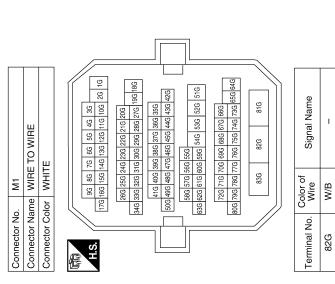
SUNSHADE MOTOR ASSEMBLY

Wiring Diagram



Connector No.	. M3	
Connector Name		FUSE BLOCK (J/B)
Connector Color	lor WHITE	ш
H.S.	N8 N	2N 1N
Terminal No.	Color of Wire	Signal Name
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DUAL PANEL SUNROOF CONNECTORS



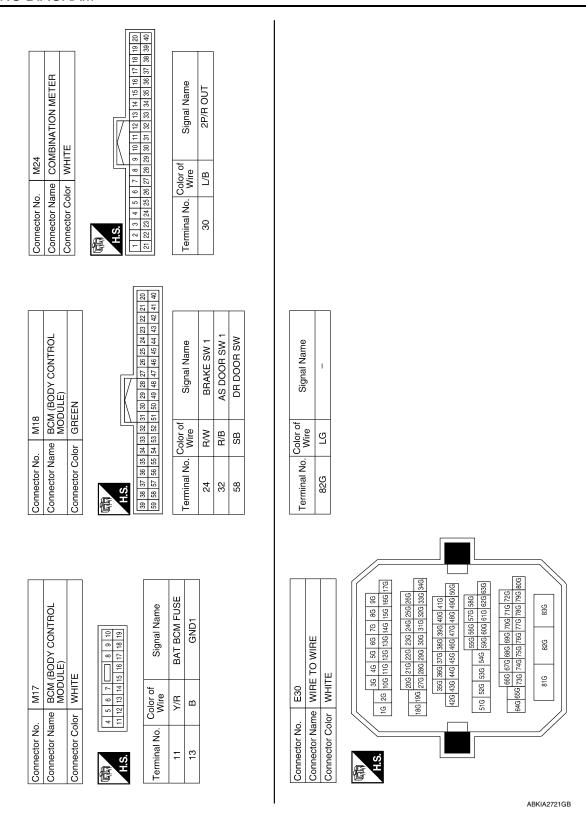
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SUNSHADE MOTOR ASSEMBLY

[WITH DUAL PANEL SUNROOF]

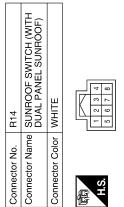
< WIRING DIAGRAM >

	Color of Wire B Signal Name B	. M16	ime BCM (BODY CONTROL MODULE)	ilor BLACK	13	Color of Signal Name	W/B BATT (F/L)	R/Y POWER SUPPLY PERM				A B C
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	SB – Connector Color	WHITE Connector Color WHITE Color Colo	WHITE Connector Name White Connector Name White Connector Color WHITE	WHITE TO WINE TO WIN	WHITE Connector No. WHITE Connector No. WHITE Connector No. WHITE Connector Color Connector No. WHITE Co	10J SB -	MHTE	MHTE	MHTE Connector Color WHTE Color of Color	Connector Color WHTE Connector Name WINE TO WHE Connector Color WHTE Connecto	Connector No. Mile Connector No. Mile	10 SB —



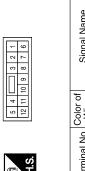
SUNSHADE MOTOR ASSEMBLY

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Color of Wire	В	5	>	LG	W/R
Terminal No. Wire	1	2	3	4	5





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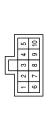
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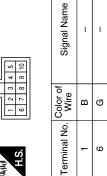
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RF-135	

Revision: August 2013

SUNSHADE MOTOR ASSEMBLY (WITH DUAL PANEL SUNROOF) Connector Color GRAY R102 Connector Name Connector No.





R101	SUNROOF MOTOR ASSEMBLY (WITH DUAL PANEL SUNROOF)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	

Signal Name	ı	ı	ı	I	1	ı	ı	1	1	ı
Color of Wire	В	0	ш	\	ГG	_	Д	BR	Μ	>
Terminal No. Wire	-	2	က	4	2	9	7	8	6	10

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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:0000000010049005

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-83, "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-88, "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-41, "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 1. CHECK SUNSHADE MECHANISM 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-85, "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-87, "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-41, "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:0000000010049007

1. PERFORM INITIALIZATION PROCEDURE

Initialization procedure is executed and operation is confirmed.

Refer to RF-76, "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-88, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

RETAINED POWER OPERATION DOES NOT OPERATE PROPERLY Diagnosis Procedure

1. CHECK FRONT DOOR SWITCH

Check front door switch.

Refer to DLK-67, "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.

Is the result normal?

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

NO >> GO TO 1.

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Revision: August 2013 RF-139 2014 Maxima NAM

ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010049009

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-76, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

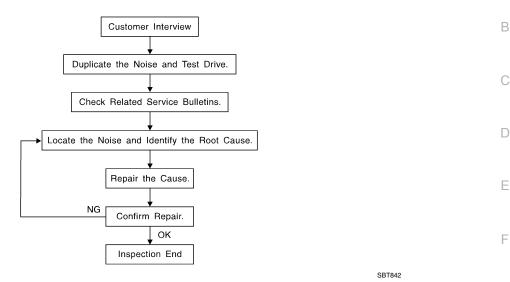
Is the inspection result normal?

YES >> Sunroof and sunshade system is normal.

NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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 RF-144, "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 description 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/offen 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 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.
- 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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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< 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 (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
- 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: J-39565 and mechanic's 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 fasteners 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-145, "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-50397) 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. NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- 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.

Diagnostic Worksheet

INFOID:0000000010064676

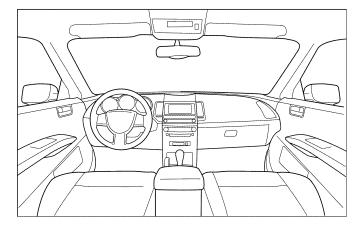
Dear Customer:

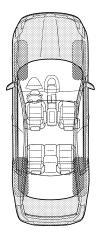
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked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

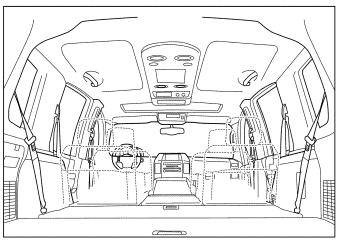
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

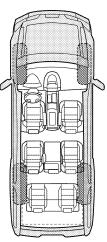
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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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2014 Maxima NAM

Revision: August 2013

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

Briefly describe the location where the noise	occurs:					
II. WHEN DOES IT OCCUR? (please check	k the box	es that app	oly)			
 ☐ Anytime ☐ 1st time in the morning ☐ Only when it is cold outside ☐ Only when it is hot outside 	☐ Wh	After sitting out in the rain When it is raining or wet Dry or dusty conditions Other:				
III. WHEN DRIVING:	IV. WF	HAT TYPE	OF NOISE	<u> </u>		
☐ 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 minute TO BE COMPLETED BY DEALERSHIP PE Test Drive Notes:	Cre Rat Kno Ticl Thu Buz	eak (like wa ttle (like sha ock (like a k k (like a clo ump (heavy zz (like a bu	lking on an aking a bal knock at th ock 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 confirm	repair	ш	_			
·	Custo					

Generic Squeak and Rattle Troubleshooting

INFOID:0000000010064675

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. Cluster lid A and the instrument panel
- 2. Acrylic lens and combination meter housing

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

- Instrument panel to front pillar finisher
- 4. Instrument panel to windshield
- Instrument panel pins
- 6. 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. Shift selector 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:

- 1. Finisher and inner panel making a slapping noise
- Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- 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-50397) 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.

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
- Sun visor shaft shaking in the holder
- 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.
- 2. Front console map/reading lamp lens loose.

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Loose screws at console attachment points.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH DUAL PANEL SUNROOF]

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:

- 1. 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 installed to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- Loose radiator installation 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.

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.

Precaution for Work

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

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PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000009465742

Tool number (TechMate No.) Tool name		Description
		p
Tool name		
TOOI HAITIE		
_		Locating the noise
(J-39570)		
Chassis Ear		
	The state of the s	
	SIIA0993E	
_		Repairing the cause of noise
(J-50397)		
NISSAN Squeak and Rattle		
Kit	AN etties & veerbs	
	The state of the s	
	1990	
	ALJIA1232ZZ	
_		Removing trim components
(J-46534)		-
Trim Tool Set		
	AWJIA0483ZZ	

Commercial Service Tools

INFOID:0000000009465743

Tool name		Description
Engine Ear		Locating the noise
	SIIA0995E	
Power tool		Loosening nuts, screws and bolts
	PIIB1407E	

REMOVAL AND INSTALLATION

GLASS LID

Removal and Installation

REMOVAL

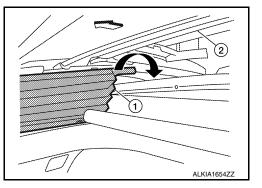
CAUTION:

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

NOTE:

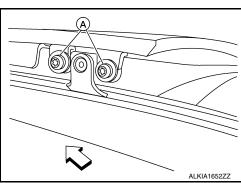
For easier and more accurate installation, always mark each point before removal.

- 1. Open sunshade.
- 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) (LH/RH) from the glass lid (2).
 - <p: Front



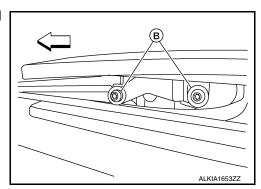
 Remove the glass lid rear bolts (A), two on both the left and right sides.

<
⇒: Front



5. Remove the glass lid front bolts (B), two on both the left and right sides.

<⊐: Front



6. 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.

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After installing, perform glass lid adjustment procedure. Refer to RF-155, "Inspection and Adjustment".

Revision: August 2013 RF-149 2014 Maxima NAM

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GLASS LID

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

 After adjustment, always check for proper sunroof operation. If necessary, perform initialization procedure to synchronize entire system. Refer to <u>RF-76, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"</u>.

SUNROOF MOTOR ASSEMBLY

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

SUNROOF MOTOR ASSEMBLY

Removal and Installation

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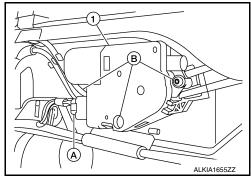
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REMOVAL

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-33, "Removal and Installation".
- 3. Disconnect the harness connector (A) from the sunroof motor assembly.
- 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.

- 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 harness connector to the sunroof motor assembly.
- 4. Install the headlining. Refer to INT-33, "Removal and Installation".
- 5. Perform initilization procedure. Refer to RF-76, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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SUNSHADE MOTOR ASSEMBLY

[WITH DUAL PANEL SUNROOF]

SUNSHADE MOTOR ASSEMBLY

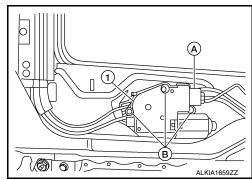
Removal and Installation

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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-33</u>, "Removal and Installation".
- 3. Disconnect the harness connector (A) from the sunshade motor assembly.
- 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.

- 1. 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.
- Connect the harness connector to the sunshade motor assembly.
- 4. Install the headlining. Refer to INT-33, "Removal and Installation".
- 5. Perform initilization procedure. Refer to RF-76, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

ROOF LINK ASSEMBLY

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

ROOF LINK ASSEMBLY

Removal and Installation

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Removal

- 1. Remove the sunshade. Refer to RF-153, "Removal and Installation".
- 2. Remove the wind deflector. Refer to RF-168, "Removal and Installation".
- 3. Remove the glass lid assembly. Refer to RF-150, "Removal and Installation".
- 4. Remove the sunroof motor. Refer to RF-152, "Removal and Installation".
- 5. Remove the sunshade motor. Refer to RF-153, "Removal and Installation".
- 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

Installation is in the reverse order of removal.

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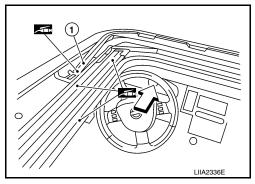
Inspection and Adjustment

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INSPECTION

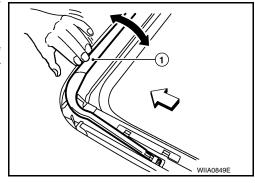
Wind Deflector

- 1. 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-158, "Removal and Installation". If damage is found, replace either wind deflector (1) or sunroof unit assembly as required.

<: Front



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.
- 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.

- 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 to specifications. Refer to ADJUSTMENT in this section.
 - 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.

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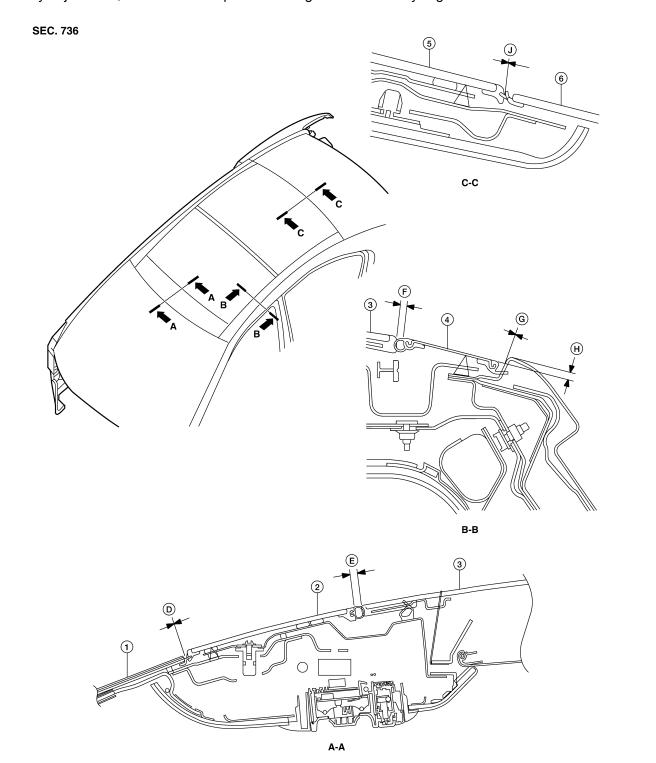
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- For easier and more accurate installation, always mark each point before removal.
- · After any adjustment, check sunroof operation and glass lid assembly alignment.



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Unit: mm (in)

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

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

- 1. Open sunshade.
- 2. Tilt glass lid up, then slide rearward to expose all the glass lid bolts.
- 3. 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.

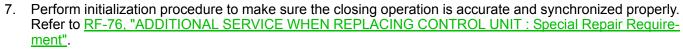
NOTE:

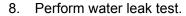
Temporarily snug glass lid bolts to prevent movement between each adjustment.

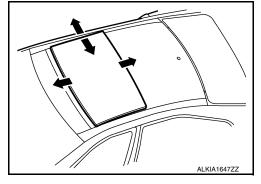
- 5. Tilt glass lid up and down several times using sunroof switch to check that it operates smoothly.
- 6. Open glass lid up and tighten bolts to specification.

NOTE:

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







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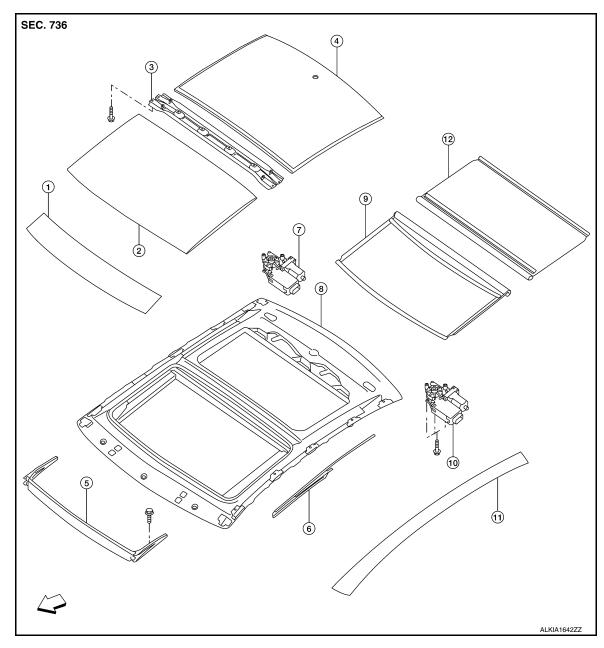
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Exploded View INFOID:0000000009465749



- Front sunroof glass
- Rear sunroof glass
- Sunshade motor assembly
- 10. Sunroof motor assembly
- <
 □ Front

- Glass lid
- Wind deflector
- Sunroof frame
- 11. Roof side finisher
- Sunshade carrier assembly
- 6. Inner blind
- Front sunshade 9.
- 12. Rear sunshade

Removal and Installation

REMOVAL

CAUTION:

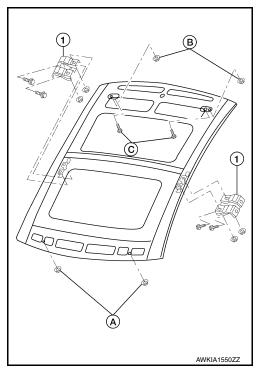
- · Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least 3 minutes.
- · Always work with a helper.
- When taking sunroof unit assembly out, use cloths to protect the seats and trim from damage.
- Do not reuse the front or rear sunroof glass which has been removed once.

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< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

- 1. Disconnect the negative and positive battery terminals, then wait at least 3 minutes. Refer to <u>PG-67</u>. "Removal and Installation (Battery)".
- 2. Remove the headlining. Refer to INT-33, "Removal and Installation".
- Remove the glass lid. Refer to <u>RF-150, "Removal and Installation"</u>.
- 4. Remove the wind deflector. Refer to RF-168, "Removal and Installation".
- 5. Apply protective tape over the weather stripping seal.
- Remove the sunshade carrier assembly. Refer to <u>RF-153</u>. "Removal and Installation".
- 7. Apply protective tape to the body surrounding the entire sunroof frame.
- 8. Remove the front sunroof glass. Refer to RF-164, "Removal and Installation".
- 9. Remove the roof side finishers. Refer to RF-162, "Removal and Installation".
- 10. Remove the rear window glass. Refer to GW-14, "Removal and Installation".
- 11. Remove the satellite antenna. Refer to <u>AV-174, "Removal and Installation"</u> (Bose W/Monochrome Display) <u>AV-494, "Removal and Installation"</u> (Bose W/Color Display W/O NAVI) or <u>AV-665, "Removal and Installation"</u> (Bose W/Color Display W/NAVI).
- 12. Remove the rear sunroof glass. Refer to RF-166, "Removal and Installation".
- 13. Disconnect the harness connectors from the sunroof motor assembly and sunshade motor assembly.
- 14. Remove the front nuts (A), the rear nuts (B), and the rear bolts (C) from the dual panel sunroof.
- 15. 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.
- 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. Do not let them contact the skin or eyes.
- Use in an open, well ventilated location. Do not 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.

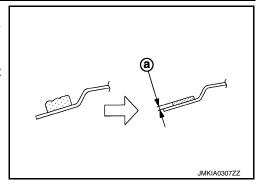
< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

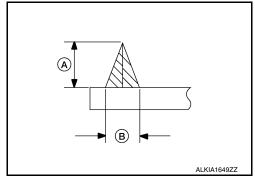
 Using a knife or spatula, trim the adhesive (sealant) remaining on body down to approximately 2 mm thick (a) so that the contour becomes smooth.

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)

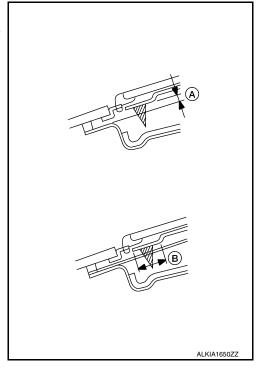
- Using a helper, position the sunroof unit assembly frame over the body, visually aligning the paint mating marks. Then, lower the studs at each corner through the body panel holes, carefully installing the sunroof unit assembly to the body.
- 7. Press down lightly by hand only on the frame to expand 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 com- : Front edge 15 mm (0.59 in) pressed width (B) : Side edge 21 mm (0.83 in)

: Rear edge 15 mm (0.59 in)



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< REMOVAL AND INSTALLATION >

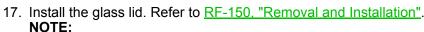
[WITH DUAL PANEL SUNROOF]

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

<⊐: Front

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

- Install the sunshade carrier assembly. Refer to <u>RF-153</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-166, "Removal and Installation".
- Install the rear window glass. Refer to <u>GW-14</u>, "<u>Removal and Installation</u>".
- 13. Install the roof side finishers. Refer to RF-162, "Removal and Installation".
- 14. Install the front sunroof glass. Refer to RF-164, "Removal and Installation".
- Connect the harness connectors to the sunroof motor assembly and sunshade motor assembly.
- Install the wind deflector. Refer to <u>RF-168</u>, "Removal and Installation".



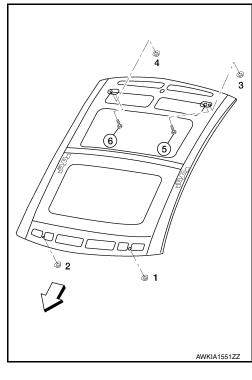
After installation, carry out fitting adjustment. Refer to RF-76, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

- 18. Install the satellite antenna. Refer to AV-174, "Removal and Installation" (Bose W/Monochrome Display)

 AV-494, "Removal and Installation" (Bose W/Color Display W/O NAVI) or AV-665, "Removal and Installation" (Bose W/Color Display W/NAVI).
- 19. Install the headlining. Refer to INT-33, "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.



ROOF FINISHER

Removal and Installation

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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:

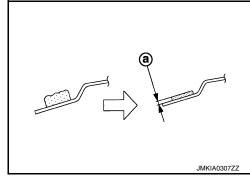
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if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

NOTE:

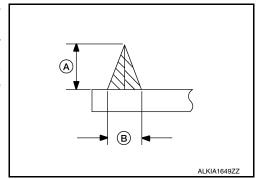
- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions furnished with it.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (approximately 24 hours). Curing time varies with temperature and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

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ROOF FINISHER

< REMOVAL AND INSTALLATION >

[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.

FRONT SUNROOF GLASS

Removal and Installation

REMOVAL

- 1. Remove the wind deflector. Refer to RF-168, "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.
- 4. 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:

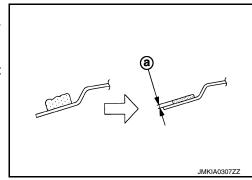
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if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

NOTE:

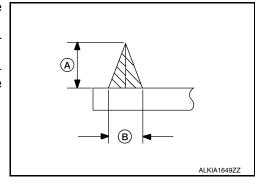
- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions furnished with it.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (approximately 24 hours). Curing time varies with temperature and humidity.
- 1. 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.



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FRONT SUNROOF GLASS

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

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)

- 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.

REAR SUNROOF GLASS

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

REAR SUNROOF GLASS

Removal and Installation

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REMOVAL

- 1. Apply protective tape around all of the glass panels to be removed.
- 2. Remove the satellite radio antenna. Refer to <u>AV-174, "Removal and Installation"</u> (Bose W/Monochrome Display), <u>AV-495, "Removal and Installation"</u> (Bose W/Color Display W/O Navi), or <u>AV-665, "Removal and Installation"</u> (Bose W/Color Display W/Navi).
- Remove the rear window glass. Refer to <u>GW-14, "Removal and Installation"</u>.
- Remove the glass lid. Refer to <u>RF-150</u>, "<u>Removal and Installation</u>".
- 5. Remove the roof side finishers. Refer to RF-162, "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:

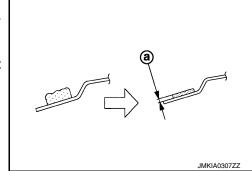
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them contact the skin or eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if 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.
- 1. 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.

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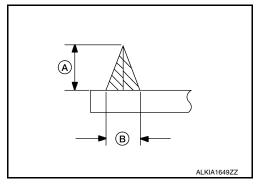
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REAR SUNROOF GLASS

< REMOVAL AND INSTALLATION >

[WITH DUAL PANEL SUNROOF]

- 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 seal-
 - 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)

- 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)

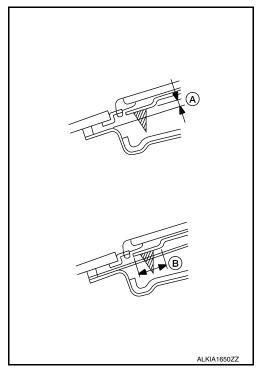
Adhesive compressed width (B)

: 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-162, "Removal and Installation".
- 10. Install the glass lid. Refer to RF-150, "Removal and Installation".

NOTE:

After installation, carry out fitting adjustment. Refer to RF-155, "Inspection and Adjustment".

- 11. Install the satellite radio antenna. Refer to AV-174, "Removal and Installation" (Bose W/Monochrome Display), AV-495, "Removal and Installation" (Bose W/Color Display W/O Navi), or AV-665, "Removal and Installation" (Bose W/Color Display W/Navi).
- 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.
- Remove the protective tape from the vehicle.

WIND DEFLECTOR

Removal and Installation

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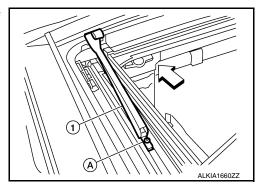
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REMOVAL

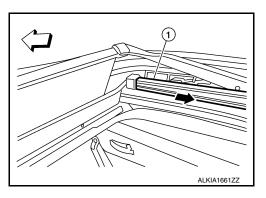
- 1. Open the glass lid.
- 2. Remove the side screw (A) to release the wind deflector side arms (1).

<: Front



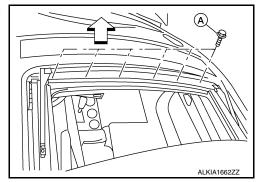
3. Disconnect and release the inner blind (1) slide clip from wind deflector.

⟨□: 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.

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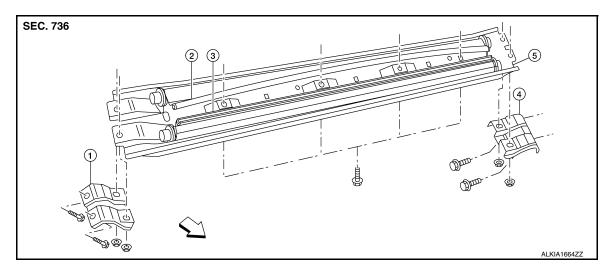
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SUNSHADE

Exploded View



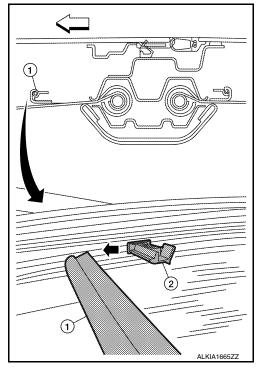
- 1. Center bracket (RH)
- 4. Center bracket (LH)
- Rear sunshade
- 5. Sunshade carrier assembly
- Front sunshade
- < ☐ Front

Removal and Installation

INFOID:0000000009465756

REMOVAL

- 1. Open glass lid and sunshades.
- Remove the headlining. Refer to <u>INT-33</u>, "Removal and Installation".
- 3. Release front sunshade rail (1) from sunshade drive post (2). <a>□: Front
- 4. Repeat sunshade drive post release for the rear sunshade.
- 5. Remove side curtain air bag module bolts (two on each (LH/RH) sides) for access.
- 6. Release harness clips from sunshade carrier assembly.
- 7. Remove the center bracket nuts and bolts, then remove the center brackets (LH/RH).
- 8. Remove the sunshade carrier assembly bolts, then lower sunshade 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.

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

SUNSHADE

< REMOVAL AND INSTALLATION >

[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 (LH/RH) and install the bolts and nuts.
- 7. Install the side curtain air bag module bolts.
- 8. Install the headliner. Refer to INT-33, "Removal and Installation".

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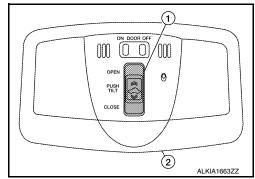
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SUNROOF SWITCH

Removal and Installation

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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-84. "Removal and Installation".



SUNROOF SWITCH

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