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CONTENTS

BASE AUDIO Reference Value	18
BASIC INSPECTION4	
SYMPTOM DIAGNOSIS	25
DIAGNOSIS AND REPAIR WORKFLOW4 Work Flow4 AUDIO SYSTEM	25
Symptom Table	
FUNCTION DIAGNOSIS 6 NORMAL OPERATING CONDITION	20
AUDIO SYSTEM 6 Description	
System Diagram 6	
System Description	27
Component Parts Location6 Component Description7 PRECAUTIONS	27
DIAGNOSIS SYSTEM (AUDIO UNIT)8 FOR USA AND CANADA	
Diagnosis Description	
COMPONENT DIAGNOSIS11 "SEAT BELT PRE-TENSIONER"	
POWER SUPPLY AND GROUND CIRCUIT11 FOR MEXICO : Precaution for Supplement	
AUDIO UNIT	TBELT
STEERING SWITCH SIGNAL A CIRCUIT12 PREPARATION	28
Description12 Diagnosis Procedure12 PREPARATION	28
Component Inspection	
STEERING SWITCH SIGNAL B CIRCUIT14 ON-VEHICLE REPAIR	29
Description	0.0
Diagnosis Procedure14 Exploded View	
Component Inspection14 Removal and Installation	
STEERING SWITCH SIGNAL GND CIRCUIT 16	
Description	
Diagnosis Flocedure	
Component inspection16	
ECU DIAGNOSIS18 FRONT SPEAKERExploded View	
AUDIO UNIT	31

REAR SPEAKER	2 Compon	ent Inspection	52
Exploded View		IG SWITCH SIGNAL B CIRCUIT	
Removal and Installation	/		
CTEEDING CWITCH	•	NG SWITCH TO TEL ADAPTER	
STEERING SWITCH	- /		
Exploded View		ion	
Removal and Installation		is Procedure	
RADIO ANTENNA	Compon	ent Inspection	54
Exploded View		IG SWITCH SIGNAL GND CIRCUIT	
Removal and Installation			
Removal and installation	(NG SWITCH TO TEL ADAPTER	
ANTENNA FEEDER	'		
Location of Antenna		ion	
BOSE AUDIO	Diagnosi	is Procedure	
2002710210	Compon	ent Inspection	56
BASIC INSPECTION	6 STEEDIN	IG SWITCH SIGNAL A CIRCUIT	
	/TEL AD	APTER UNIT TO AUDIO UNIT)	EO
DIAGNOSIS AND REPAIR WORKFLOW	n '	· · · · · · · · · · · · · · · · · · ·	
Work Flow		ion	
	•	is Procedure	58
FUNCTION DIAGNOSIS	8 STEFRIN	IG SWITCH SIGNAL B CIRCUIT	
ALIDIO CVCTEM		APTER UNIT TO AUDIO UNIT)	5 0
AUDIO SYSTEM	·	ion	
System Diagram			
System Description	•	is Procedure	59
Component Parts Location		IG SWITCH SIGNAL GND CIRCUIT	
Component Description		APTER UNIT TO AUDIO UNIT)	60
HANDS-FREE PHONE SYSTEM	1 Descripti	ion	60
	•	is Procedure	
System Diagram	-	is Procedure	60
System Description		NICATION SIGNAL CIRCUIT	61
Component Parts Location		ion	
Component Description		is Procedure	
DIAGNOSIS SYSTEM (AUDIO UNIT)	4		0 1
Diagnosis Description		T SIGNAL CIRCUIT (SAT TO AU-	
Diagnosis Description		,	63
DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)		ion	
Diagnosis Description		is Procedure	
	_		
COMPONENT DIAGNOSIS	9 AMP. ON	I SIGNAL CIRCUIT	64
		ion	
POWER SUPPLY AND GROUND CIRCUIT	9 Diagnosi	is Procedure	64
AUDIO UNIT			
	WOO! EI	R AMP. ON SIGNAL CIRCUIT	
AUDIO UNIT : Diagnosis Procedure	Dooonpa	ion	
BOSE AMP	_g Diagnosi	is Procedure	65
BOSE AMP. : Diagnosis Procedure		HONE SIGNAL CIRCUIT	
	December		
SATELLITE RADIO TUNER		ion	
SATELLITE RADIO TUNER : Diagnosis Proce-	Diagnosi	is Procedure	66
dure	TELEPHO	ONE ON SIGNAL CIRCUIT	67
		ion	
TEL ADAPTER UNIT		is Procedure	
TEL ADAPTER UNIT : Diagnosis Procedure) Diagnosi	13 F 10664416	67
STEERING SWITCH SIGNAL A CIRCUIT	ECU DIA	AGNOSIS	68
	_00 DIF		55
STEERING SWITCH TO TEL ADAPTER	AUDIO U	NIT	68
UNIT)	2 Referenc	ce Value	
Description	2 Wiring D	iagram - BOSE AUDIO	
Diagnosis Procedure	2		, _

BOSE AMP83
Reference Value83
Wiring Diagram - BOSE AUDIO86
SATELLITE RADIO TUNER97
Reference Value97
Wiring Diagram - BOSE AUDIO99
TEL ADAPTER UNIT110
Reference Value110
Wiring Diagram - BOSE AUDIO113
SYMPTOM DIAGNOSIS124
AUDIO SYSTEM SYMPTOMS124
Symptom Table124
HANS-FREE PHONE SYMPTOMS125
Symptom Table125
NORMAL OPERATING CONDITION127
Description
PRECAUTION128
PRECAUTIONS128
FOR USA AND CANADA128
FOR USA AND CANADA: Precaution for Supple-
mental Restraint System (SRS) "AIR BAG" and
"SEAT BELT PRE-TENSIONER"128
FOR MEXICO128
FOR MEXICO : Precaution for Supplemental Re-
straint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"128
PREPARATION129
PREPARATION129
Commercial Service Tools129
ON-VEHICLE REPAIR130
AUDIO UNIT130
Exploded View130
Removal and Installation130
BOSE AMP131
Final and ad Maria

Removal and Installation131
TWEETER132
Exploded View132
Removal and Installation132
CENTER SPEAKER 133
Exploded View133
Removal and Installation133
FRONT SPEAKER134
Exploded View134
Removal and Installation134
REAR SPEAKER135
Exploded View135
Removal and Installation135
WOOFER136
Exploded View136
Removal and Installation136
SATELLITE RADIO TUNER137
Exploded View137
Removal and Installation137
RADIO & SATELLITE RADIO ANTENNA 138
Exploded View138
Removal and Installation138
STEERING SWITCH139
Exploded View139
Removal and Installation139
MICROPHONE140
Exploded View140
Removal and Installation140
TEL ADAPTER UNIT141
Exploded View141
Removal and Installation141
TEL ANTENNA142
Exploded View142
Removal and Installation142
ANTENNA FEEDER143
Location of Antenna143

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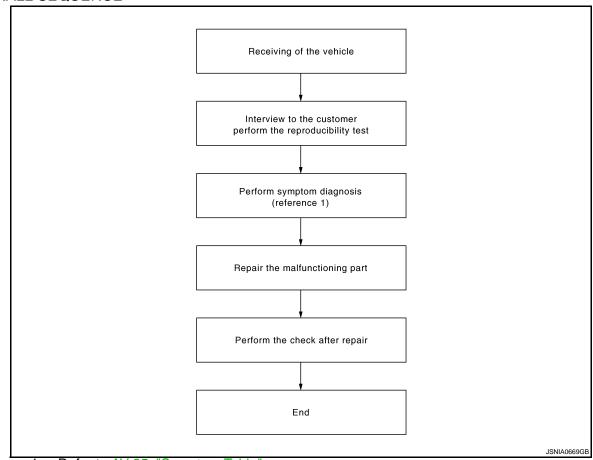
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



Reference 1 ··· Refer to AV-25, "Symptom Table".

DETAILED FLOW

1. CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2.

2. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-25</u>, "Symptom Table"".

>> GO TO 3.

3. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.

>> GO TO 4.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [BASE AUDIO]

4.FINAL CHECK

Perform the operation to check that the malfunction symptom is solved or any other symptoms are present. <u>Is there any symptom?</u>

YES >> GO TO 2.

NO >> INSPECTION END

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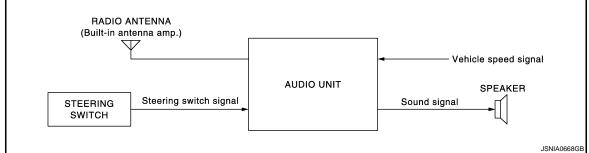
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FUNCTION DIAGNOSIS

AUDIO SYSTEM

System Diagram

INFOID:000000001700238



System Description

INFOID:0000000001713529

AUDIO SYSTEM

Aud	in t	fun	cti	one
AUU	IU I		(. 11	OH 15

AM/FM radio
CD

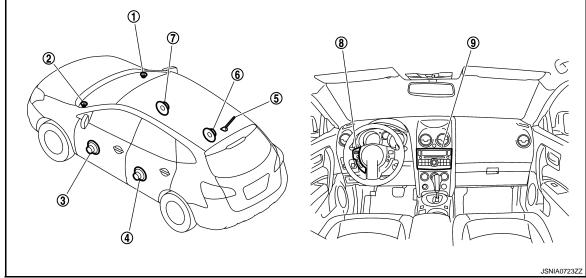
- Radio signal are received by radio antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (Antenna amp. is built into radio antenna.)
- Audio unit outputs the audio signal to each speaker.

SPEED SENSITIVE VOLUME

- Volume level of this system gone up and down automatically in proportion to the vehicle speed.
- The control level can be selected by the customer.

Component Parts Location

INFOID:0000000001700240



- 1. Tweeter RH
- 4. Rear speaker LH
- 7. Front speaker RH
- 2. Tweeter LH
- 5. Radio antenna
- 8. Steering switch

- Front speaker LH
- Rear speaker RH
- 9. Audio unit

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO]

Component Description

INFOID:0000000001713530

Part name	Description		
Audio unit	Controls audio system functions.		
Front speaker	Outputs sound signal from audio unit.Outputs high, mid and low range sounds.		
Tweeter	Outputs sound signal from audio unit.Outputs high range sounds.		
Rear speaker	Outputs sound signal from audio unit.Outputs high, mid and low range sounds.		
Radio antenna (Built-in antenna amp.)	 Radio signal received by radio antenna is amplified and sent to audio unit. Power (antenna amp. ON signal) is supplied from audio unit. 		
Steering switch	Each audio operation can be operated.Steering switch signal (operation signal) is output to audio unit.		

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[BASE AUDIO]

INFOID:0000000001713613

DIAGNOSIS SYSTEM (AUDIO UNIT)

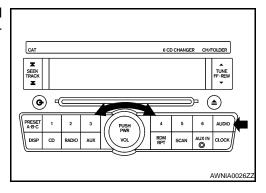
Diagnosis Description

Self-diagnosis mode can check the following items.

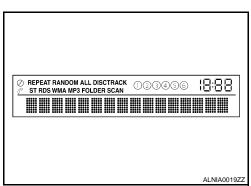
- Audio unit hardware/software versions
- · Continuity of each speaker channel
- · Continuity of each audio unit switch

OPERATION PROCEDURE

- 1. Turn ignition switch to the ON position.
- 2. Turn the audio unit off.
- 3. While pressing the "AUDIO" button, turn the volume control dial clockwise or counterclockwise 30 clicks or more. When the self-diagnosis mode is started, a short beep will be heard.

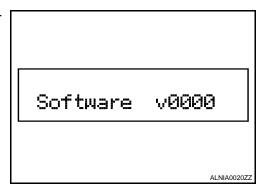


4. Initially, all display segments will be illuminated.



Version Check

1. Press the "AUDIO" switch to enter version diagnostics. "Software" (audio software version) is displayed.



DIAGNOSIS SYSTEM (AUDIO UNIT)

< Fl	JNCTION DIAGNOSIS >	[RASE AUDIO]
	Press the "AUDIO" switch again to display the "Hardware" (audio hardware version).	А
		Hardware v0000
		ALNIA0021ZZ
	Press the "AUDIO" switch again to display the "CD Mech" (CD mechanism version).	D
		CD Mech v0000
		G ALNIA0022ZZ
	Press the "AUDIO" switch again to display the "SDARS" (satellite radio version).	Н
		SDARS v0000
		ALNIA0023ZZ
Whe	nnel Check Diagnostics en all segments are illuminated, press the "TUNE" up switch to	
ente then	er channel check diagnostics. The self-diagnostic function will send a tone to each channel (FL, RL, RR, FR) for 1 second.	M
		Channel check FL AV
		0
Dutte	on Check Diagnostics	ALNIA0024ZZ

Button Check Diagnostics Р

DIAGNOSIS SYSTEM (AUDIO UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO]

When	all seg	ments a	are illuminate	d, press	s the "T	TUNE"	down	switch	to
enter	button	check	diagnostics.	When	each	audio	unit	switch	is
press	ed, a to	ne will s	sound and th	e switch	name	e will b	e disp	layed.	

BUTTON CHECK

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

AUDIO UNIT

AUDIO UNIT: Diagnosis Procedure

INFOID:0000000001713614

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1.CHECK FUSE

Check that the following fuses of the audio unit are not blown.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	20

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK AUDIO UNIT POWER SUPPLY CIRCUIT

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Reference value
Battery power supply	M46	19	OFF	Battery voltage
ACC power supply	M46	7	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

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STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO]

STEERING SWITCH SIGNAL A CIRCUIT

Description INFOID:000000001700251

Transmits the steering switch signal to audio unit.

Diagnosis Procedure

INFOID:0000000001700252

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector and spiral cable connector.
- Check continuity between audio unit harness connector terminal 6 and spiral cable harness connector terminal 24.

6 – 24 : Continuity should exist.

Check continuity between audio unit harness connector terminal 6 and ground.

6 – Ground : Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.check audio unit voltage

- 1. Connect audio unit connector and spiral cable connector.
- 2. Turn ignition switch ON.
- Check voltage between audio unit harness connector terminals 6 and 15.

6 – 15 : Approx. 3.3 V

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace audio unit.

4. CHECK STEERING SWITCH

- 1. Turn ignition switch ON.
- 2. Check steering switch. Refer to AV-12, "Component Inspection".

Is inspection result OK?

YES >> INSPECTINON END

NO >> Replace steering switch.

Component Inspection

INFOID:0000000001715928

2008 Rogue

Measure the resistance between the steering switch connector terminals 20 to 17 and 16 to 17.

STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO]

Between terminals 20 and 17

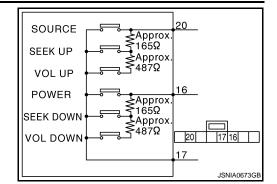
VOL UP switch ON : $645-659~\Omega$ SEEK UP switch ON : $163-167~\Omega$

SOURCE switch ON : $\mathbf{0} \Omega$

Between terminals 16 and 17

VOL DOWN switch ON : $645-659~\Omega$ SEEK DOWN switch ON : $163-167~\Omega$

POWER switch ON : $\mathbf{0} \Omega$



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STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO]

STEERING SWITCH SIGNAL B CIRCUIT

Description INFOID:000000001715918

Transmits the steering switch signal to audio unit.

Diagnosis Procedure

INFOID:0000000001715919

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector and spiral cable connector.
- Check continuity between audio unit harness connector terminal 16 and spiral cable harness connector terminal 32.

16 – 32 : Continuity should exist.

4. Check continuity between audio unit harness connector terminal 16 and ground.

16 – Ground : Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK AUDIO UNIT VOLTAGE

- 1. Connect audio unit connector and spiral cable connector.
- 2. Turn ignition switch ON.
- Check voltage between audio unit harness connector terminals 16 and 15.

16 – 15 : Approx. 3.3 V

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace audio unit.

4.CHECK STEERING SWITCH

- Turn ignition switch ON.
- 2. Check steering switch. Refer to AV-14, "Component Inspection".

Is inspection result OK?

YES >> INSPECTINON END

NO >> Replace steering switch.

Component Inspection

INFOID:0000000001716705

Measure the resistance between the steering switch connector terminals 20 to 17 and 16 to 17.

STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO]

Between terminals 20 and 17

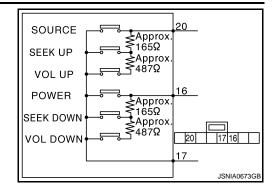
VOL UP switch ON : $645-659~\Omega$ SEEK UP switch ON : $163-167~\Omega$

SOURCE switch ON : $\mathbf{0} \Omega$

Between terminals 16 and 17

VOL DOWN switch ON : $645-659~\Omega$ SEEK DOWN switch ON : $163-167~\Omega$

POWER switch ON : $\mathbf{0} \Omega$



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STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO]

STEERING SWITCH SIGNAL GND CIRCUIT

Description INFOID:000000001716706

Transmits the steering switch signal to audio unit.

Diagnosis Procedure

INFOID:0000000001716707

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect audio unit connector and spiral cable connector.
- Check continuity between audio unit harness connector terminal 15 and spiral cable harness connector terminal 31.

15 – 31 : Continuity should exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK GROUND CIRCUIT

- 1. Connect audio unit connector.
- 2. Check continuity between audio unit harness connector terminals 15 and ground.

15 – Ground : Continuity should exist.

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace audio unit.

4. CHECK STEERING SWITCH

- Turn ignition switch ON.
- Check steering switch. Refer to <u>AV-16, "Component Inspection"</u>.

Is inspection result OK?

YES >> INSPECTINON END

NO >> Replace steering switch.

Component Inspection

INFOID:0000000001716708

Measure the resistance between the steering switch connector terminals 20 to 17 and 16 to 17.

AV-16

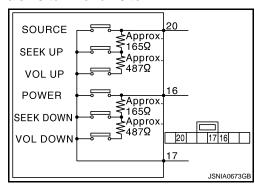
Between terminals 20 and 17

VOL UP switch ON: 645 - 659 Ω SEEK UP switch ON: 163 - 167 Ω

SOURCE switch ON : $\mathbf{0} \Omega$

Between terminals 16 and 17

VOL DOWN switch ON : $645 - 659 \Omega$



STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS > [BASE AUDIO]

SEEK DOWN switch ON : 163 – 167 Ω

POWER switch ON : $\mathbf{0} \Omega$

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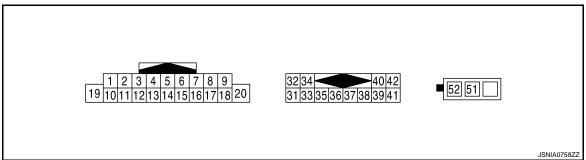
< ECU DIAGNOSIS > [BASE AUDIO]

ECU DIAGNOSIS

AUDIO UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal e color)	Description		Condition		Reference value							
+	_	Signal name	Input/ Output			(Approx.)							
2 (R)	3 (G)	Sound signal front LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E							
4 (V)	5 (LG)	Sound signal rear LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E							
					Keep pressing SOURCE switch	0 V							
6 (W)	15 (GR)	Steering switch signal A	Input	Input	Input	Input	Input	Input	Input	Input		Keep pressing SEEK UP switch	1.1 V
(**)	(011)												
					Except for above	3.3 V							
7 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage							
11 (O)	12 (W)	Sound signal front RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E							

AUDIO UNIT

< ECU DIAGNOSIS > [BASE AUDIO]

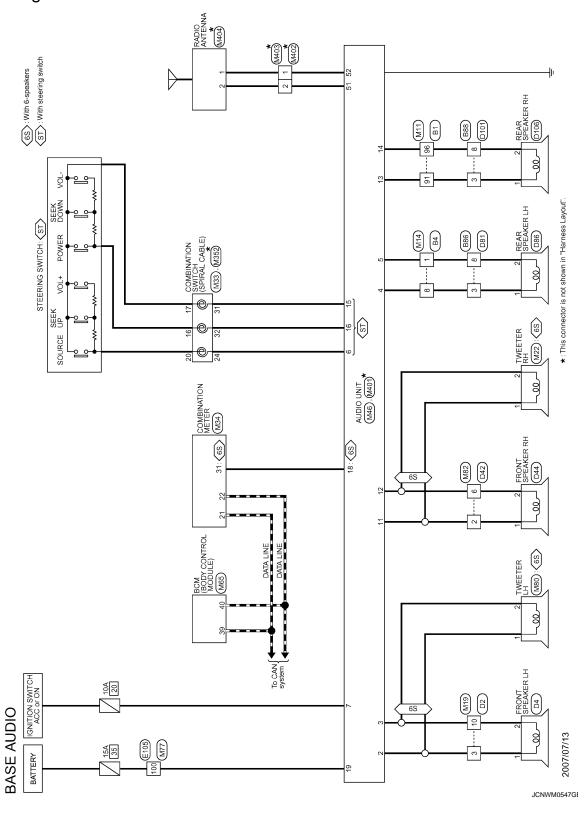
Terminal (Wire color)		Description		Condition		Reference value			
+	_	Signal name	Input/ Output	Condition		(Approx.)			
13 (L)	14 (P)	Sound signal rear RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 ***2ms SKIB3609E			
15 (GR)	Ground	Steering switch signal ground	_	Ignition switch ON	_	0 V			
16 (O)	15 (GR)	Steering switch signal B	Input		Keep pressing POWER switch	0 V			
					Ignition switch	Keep pressing SEEK DOWN switch	1.1 V		
					Of			ON Keep pressing VOL DOWN switch	ON
					Except for above	3.3 V			
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).			
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage			
51	_	Antenna signal	Input	_	_	_			
52	Ground	Antenna amp. ON signal	Output	Ignition switch ON	_	12 V			

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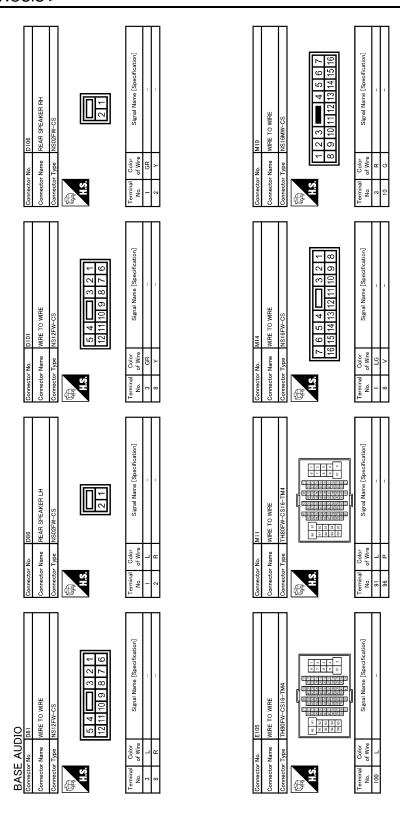
Wiring Diagram - BASE AUDIO -

INFOID:0000000001714521



Signal Name [Specification]	PRONT SPEAKER RH NSQPW-GS Signal Name [Specification]	А
Connector No. 588	Connector No. D44 Connector Name FRONT SPE Connector Type NS02FW-05 LLS LLS Connector Type NS02FW-05 Connector Type NS02FW-05 Connector Type NS02FW-05 LS	C
Signal Name Specification Spec	WRE CS B 7 6 5 Signal Name [Speerification]	E
	ector No. D42 ector Name WIRE TO Color Wire Color G G G G G G G G G G G G G G G G G G G	G
Connect Connec	Tem N N N N N N N N N N N N N N N N N N N	Н
NSIGMW-CS NSIGMW-CS NSIGMW-CS Signal Name [Specification]	PD4 NS0ZPW-CS NS0ZPW-CS Signal Name [Specification]	J
Comector No. B4	Connector No. D4 Connector Name FRONT SPE Connector Type NS02PN-CS A1.S Terminal Color No of Wire 1 B 2 P	К
[lool	[total] [total]	L
CSIG-TM4 CSIG-TM4 CSIG-TM4 CSIG-TM4 Signal Name (Specification)	CS 4	M
MIRE TO THE TO T	MIRE TO NISIGEN.	AV
BASE AU Connector Name Connector Type Connector Type Terminal No. of Wir. 91 GR	Connector No. Connector Name Connector Type A.S. H.S. Terminal No. of Wir	JCNWM0548Gi
		Р

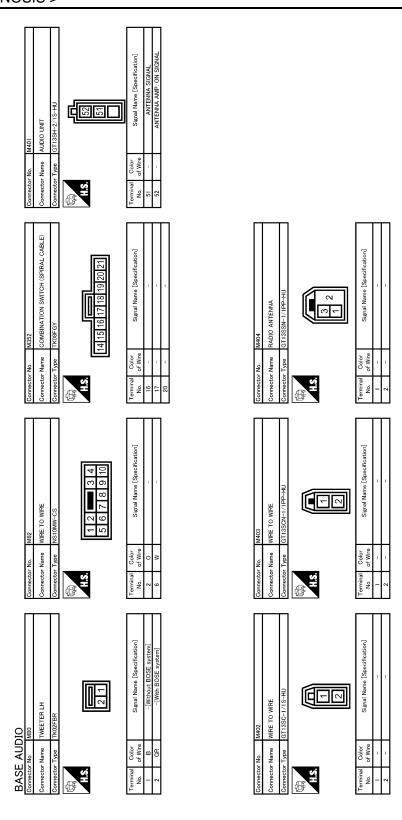
Revision: 2008 January AV-21 2008 Rogue



JCNWM0549GE

		lication)	А
		WRE TO WRE TH80MV-CS16-TM4 TH80MV-CS16-TM4 TH80MV-CS16-TM4 Signal Name (Specification) Signal Name (Specification)	В
		Connector No. M77 Connector Name WIRE 1 Connector Type TH80M No. Mo. Or Wire 100 Y	C D
(S) 17 (B) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	(8-PULSE)		Е
M34 COMBINATION METER SAB40FW	Signal Name [Specification] CAN-H CAN-H VEHICLE SPEED (8-PULSE)	Nest	F
г No. Гуре	Terminal Color No. of Wire of Wire 21 P P 22 P P 23 P P 21 P 22 P P 24 P 25 P P P P	Connector No. M65	G
		ПП	Н
M33 COMBINATION SWITCH (SPIRAL CABLE) TROSFGY-1V 24 25 26 27 31 32 33 34	Signal Name [Specification]	STEFRING SW SIGNAL (6-PULSE) BAT WEHICLE SPEED SIGNAL (6-PULSE)	I
M33 COMBINATION SWITKOBFGY-1V 24 25 26 31 32 33	Signal Nam	STEERING VEHICLE SPEEI	J
No. Name Type	Color Color Color	0 1 >	K
			L
	Signal Name [Specification]	I S I S I S I S I S I S I S I S I S I S	M
ETER R		М46 АUD 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	٩V
	Terminal Color No. of Wire 2 2 Y	Connector No. Connector Name Connector Type Connector Type	0
		JCNWM0550GI	Р
			*

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JCNWM0551GI

AUDIO SYSTEM

< SYMPTOM DIAGNOSIS > [BASE AUDIO]

SYMPTOM DIAGNOSIS

AUDIO SYSTEM

Symptom Table

AUDIO SYSTEM

Symptoms	Check items	Possible malfunction location / Action to take	
Audio sound is not heard.	No sound from all speakers.	Audio unit power supply and ground circuit. Refer to AV-11, "AUDIO UNIT: Diagnosis Procedure".	
Addio Sodina is flot fleard.	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.	

RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to AV-16, "Diagnosis Procedure".
Only specified switch cannot be operated.	Replace steering switch.
"SEEK UP", "VOL UP" and "SOURCE" switches are not operated.	Steering switch signal A circuit. Refer to AV-12, "Diagnosis Procedure".
"SEEK DOWN" "VOL DOWN" and "POWER" switches are not operated.	Steering switch signal B circuit. Refer to AV-14, "Diagnosis Procedure".

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[BASE AUDIO]

NORMAL OPERATING CONDITION

Description INFOID:0000000030322449

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning.
 Check that noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment. Then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer. (6CD models)
- Check that the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the red book Compact Disc Standard and may not play.

Symptoms	Cause and Counter measure		
	Check that the CD was inserted correctly.		
	Check that the CD is scratched or dirty.		
	Check that there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.		
Connet play	The player will play correctly after it returns to the normal temperature if there is a temperature increase error.		
Cannot play	Only the music CD files (CD-DA data) will be played if there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD. (6CD models)		
	Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played. (6CD models)		
	Check that the finalization process, such as session close and disc close, is done for the disc.		
	Check that the CD is protected by copyright.		
Poor sound quality	Check that the CD is scratched or dirty.		
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multi session disc, some time may be required before the music starts playing. (6CD models)		
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.		

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the
 antenna and the waves reflected by mountains or buildings.

PRECAUTIONS

< PRECAUTION > [BASE AUDIO]

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

WARNING:

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

FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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Revision: 2008 January AV-27 2008 Rogue

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PREPARATION

< PREPARATION > [BASE AUDIO]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000001700266

Tool name	Descrip	tion
Power tool	Looseni PBIC0191E	ng bolts and nuts

[BASE AUDIO]

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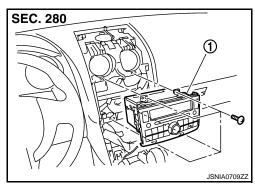
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ON-VEHICLE REPAIR

AUDIO UNIT

Exploded View

INFOID:0000000001724851



1. Audio unit

Removal and Installation

INFOID:0000000001724852

REMOVAL

- 1. Remove cluster lid C and cluster lid D. Refer to IP-12, "Exploded View".
- 2. Remove audio unit with bracket.
- 3. Remove bracket screws, and then remove audio unit.

INSTALLATION

Install in the reverse order of removal.

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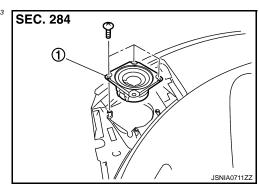
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TWEETER

Exploded View

INFOID:0000000001724853



Tweeter

Removal and Installation

INFOID:0000000001724854

REMOVAL

- 1. Remove instrument panel. Refer to IP-13, "Removal and Installation".
- 2. Remove tweeter from instrument panel.

INSTALLATION

Installation is the reverse order of removal.

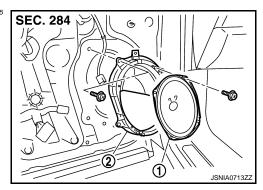
FRONT SPEAKER

< ON-VEHICLE REPAIR > [BASE AUDIO]

FRONT SPEAKER

Exploded View

INFOID:0000000001724855



- Front speaker
- 2. Bracket

Removal and Installation

INFOID:0000000001724856

REMOVAL

- 1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Remove front door speaker from bracket.

INSTALLATION

Install in the reverse order of removal.

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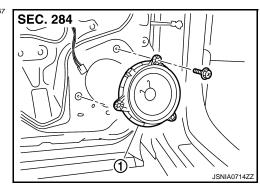
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REAR SPEAKER

Exploded View

INFOID:0000000001724857



1. Rear speaker

Removal and Installation

INFOID:0000000001724858

REMOVAL

- 1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER: Removal and Installation".
- 2. Remove rear speaker.

INSTALLATION

Installation is the reverse order of removal.

STEERING SWITCH [BASE AUDIO] < ON-VEHICLE REPAIR > STEERING SWITCH Α **Exploded View** INFOID:0000000001724859 Refer to SR-5, "Exploded View". В Removal and Installation INFOID:0000000001724860 С **REMOVAL** Refer to SR-5, "Removal and Installation". **INSTALLATION** D Installation is the reverse order of removal. Е F G Н J K L M

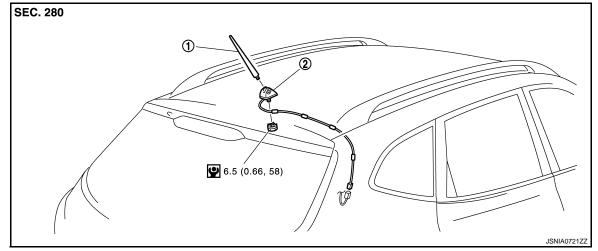
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RADIO ANTENNA

Exploded View

INFOID:0000000001724861



1. Antenna lod

2. Antenna base

Removal and Installation

INFOID:0000000001724862

REMOVAL

- Remove headlining assembly. Refer to <u>INT-24, "NORMAL ROOF: Removal and Installation"</u> (normal roof models) or <u>INT-27, "SUNROOF: Removal and Installation"</u> (sunroof models).
- 2. Remove nuts, and then remove radio antenna.

INSTALLATION

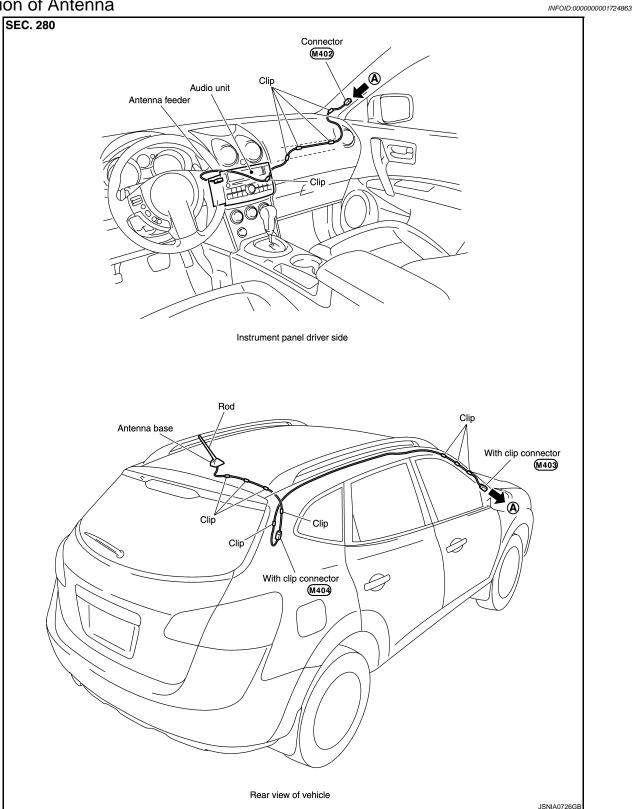
Installation is the reverse order of removal.

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when roof antenna mounting nut tightening torque is loose.

ANTENNA FEEDER

Location of Antenna



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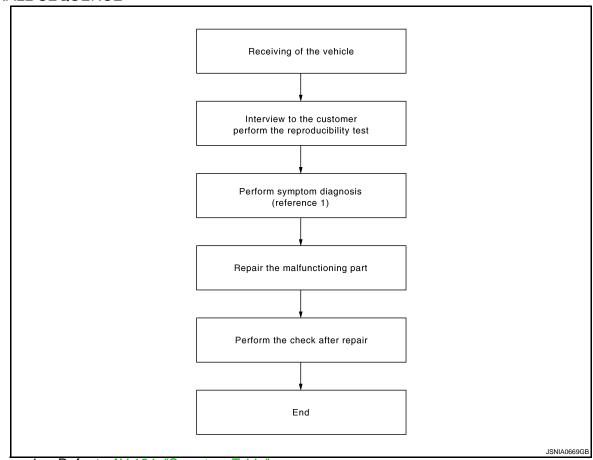
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



Reference 1 ··· Refer to AV-124, "Symptom Table".

DETAILED FLOW

1. CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2.

2. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-124, "Symptom Table"</u>.

>> GO TO 3.

3. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.

>> GO TO 4.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [BOSE AUDIO]

4.FINAL CHECK

Perform the operation to check that the malfunction symptom is solved or any other symptoms are present. <u>Is there any symptom?</u>

YES >> GO TO 2.

NO >> INSPECTION END

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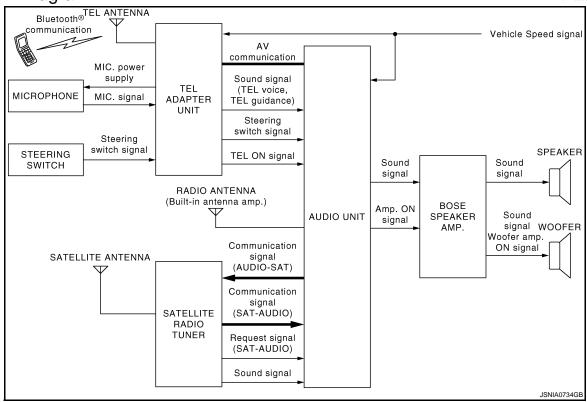
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FUNCTION DIAGNOSIS

AUDIO SYSTEM

System Diagram

INFOID:0000000001700276



System Description

INFOID:0000000001700277

AUDIO SYSTEM

Audio functions

AM/FM rad

AM/FM radio CD

- Radio signal are received by radio antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (Antenna amp. is built into radio antenna.)
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to each speaker.

SATELLITE RADIO SYSTEM

- Radio signal are supplied to satellite radio tuner from the satellite antenna.
- The satellite radio tuner then sends sound signal to the audio unit.
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to each speaker.

SPEED SENSITIVE VOLUME

- Volume level of this system gone up and down automatically in proportion to the vehicle speed.
- The control level can be selected by the customer.

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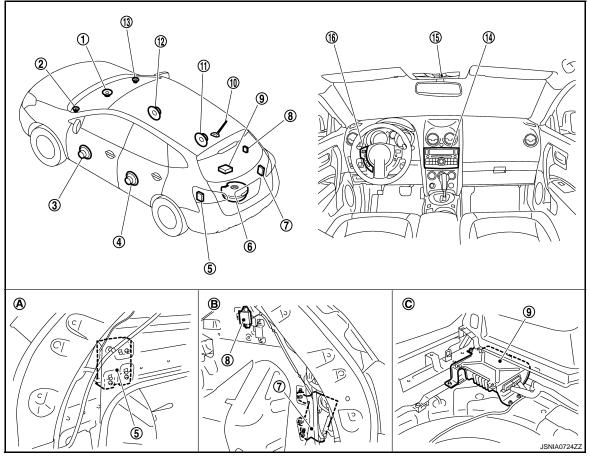
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Component Parts Location



- 1. Center speaker
- 4. Rear speaker LH
- 7. TEL adapter unit
- 10. Radio & satellite radio antenna
- 13. Tweeter RH
- 16. Steering switch
- A. Luggage side LH

- 2. Tweeter LH
- 5. Satellite radio tuner
- 8. TEL antenna
- 11. Rear speaker RH
- 14. Audio unit
- B. Luggage side RH

- 3. Front speaker LH
- 6. Woofer
- 9. BOSE amp.
- 12. Front speaker RH
- 15. Microphone
- C. Luggage side RH

Component Description

INFOID:000000001700279

Part name	Description
Audio unit	Controls audio system and satellite radio system functions.
BOSE amp.	 Receives power (amp. ON) and sound signals from audio unit, and outputs sound signals to each speaker. Woofer amp. ON signal is output to woofer.
Steering switch	 Each audio operation can be operated. Steering switch signal (operation signal) is output to audio unit. (without hands-free phone system) Steering switch signal (operation signal) is output to audio unit through TEL adapter unit. (with hands-free phone system)
Front speaker	Outputs sound signal from BOSE amp.Outputs high, mid and low range sounds.
Tweeter	Outputs sound signal from BOSE amp.Outputs high range sounds.
Center speaker	Outputs sound signal from BOSE amp.Outputs mid and high range sounds.

Revision: 2008 January AV-39 2008 Rogue

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO]

Part name	Description	
Rear speaker	Outputs sound signal from BOSE amp.Outputs high, mid and low range sounds.	
Woofer	 Woofer amp. ON signal is input from BOSE amp. Outputs sound signal from BOSE amp. Outputs low range sounds. 	
Radio &satellite radio antenna	Radio antenna Radio signal received by radio antenna is amplified and sent to audio unit. Power (antenna amp. ON signal) is supplied from audio unit. Satellite radio antenna Sound signal (satellite radio) is received and output to audio unit.	
Satellite radio tuner	Receives radio signals from satellite antenna.Sends sound signals to audio unit.	

HANDS-FREE PHONE SYSTEM

System Diagram

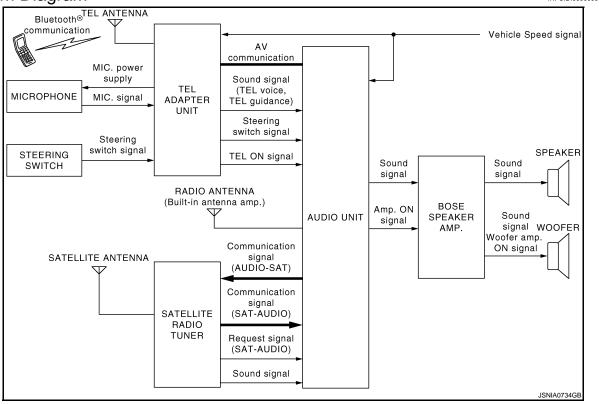
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System Description

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- The connection between portable telephone and TEL adapter unit is performed with Bluetooth[®] communication.
- The voice guidance signal is input from the TEL adapter unit to the audio unit and output via BOSE amp. to the front speaker when operating the telephone.
- TEL adapter unit has the on board self-diagnosis function. Refer to AV-47, "Diagnosis Description".

When receiving a call

Telephone voice signal received with the portable telephone is input from TEL antenna via TEL adapter unit to audio unit with Bluetooth communication and output via BOSE amp. to the front speaker. The operation is performed with the steering switch or voice recognition function.

When a call is originated

Speech sound (telephone voice signal) is input from the microphone to the TEL adapter unit. It is input from the TEL antenna via Bluetooth communication to the portable telephone. It is transmitted to the phone on the other side. The operation is performed with the steering switch or voice recognition function.

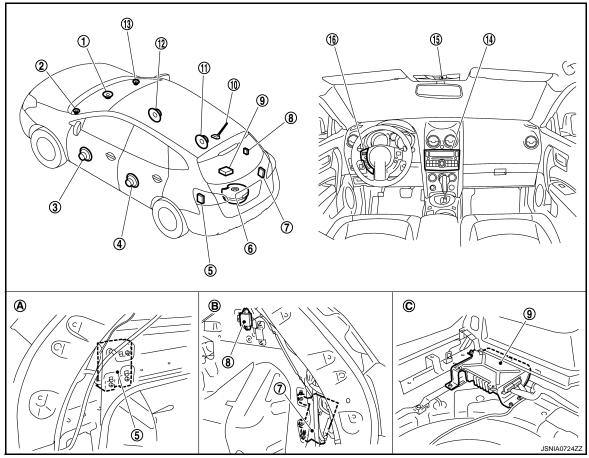
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Component Parts Location

INFOID:0000000001747957



- 1. Center speaker
- 4. Rear speaker LH
- 7. TEL adapter unit
- 10. Radio & satellite radio antenna
- 13. Tweeter RH
- 16. Steering switch
- A. Luggage side LH

- 2. Tweeter LH
- 5. Satellite radio tuner
- 8. TEL antenna
- 11. Rear speaker RH
- 14. Audio unit
- B. Luggage side RH

- 3. Front speaker LH
- 6. Woofer
- 9. BOSE amp.
- 12. Front speaker RH
- 15. Microphone
- C. Luggage side RH

Component Description

INFOID:0000000001700283

Part name	Description
Audio unit	 Receives telephone voice signal from TEL adapter unit. Sends telephone voice and voice guidance signals to BOSE amp. Audio unit and TEL adapter unit exchange data by AV communication, and control audio unit display.
BOSE amp.	Inputs power (amp. ON) and sound signal from audio unit, and outputs sound signal to each speaker.
Front door speaker	
Tweeter	Receives telephone voice and voice guidance signals from BOSE amp.
Center speaker	
Steering switch	 The hands free phone system can be operated. Steering switch signal (operation signal) is output to audio unit through TEL adapter unit.
Microphone	 Uses when operating the hands-free phone. Outputs microphone signal (telephone voice signal) to the TEL adapter unit. The power (microphone power supply) is supplied from the TEL adapter unit.

HANDS-FREE PHONE SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO]

Part name	Description	
TEL adapter unit	 Receives the steering switch signal (operation signal) from the steering switch. Inputs the telephone voice signal from TEL antenna during reception and outputs into the audio unit. Inputs the telephone voice signal from microphone during speech recognition and outputs it to the TEL antenna. 	
TEL antenna	Connects with the portable telephone via Bluetooth $^{\circledR}$ communication and communicates the telephone voice signal.	

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DIAGNOSIS SYSTEM (AUDIO UNIT)

Diagnosis Description

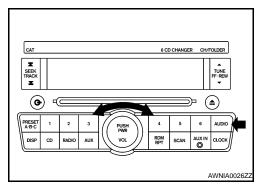
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Self-diagnosis mode can check the following items.

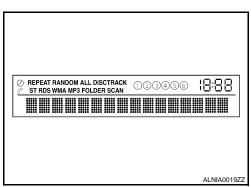
- Audio unit hardware/software versions
- Continuity of each speaker channel
- Continuity of each audio unit switch

OPERATION PROCEDURE

- 1. Turn ignition switch to the ON position.
- 2. Turn the audio unit off.
- 3. While pressing the "AUDIO" button, turn the volume control dial clockwise or counterclockwise 30 clicks or more. When the self-diagnosis mode is started, a short beep will be heard.

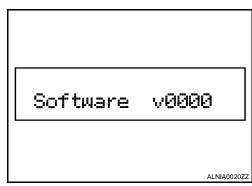


4. Initially, all display segments will be illuminated.



Version Check

1. Press the "AUDIO" switch to enter version diagnostics. "Software" (audio software version) is displayed.



DIAGNOSIS SYSTEM (AUDIO UNIT)

< F	UNCTION DIAGNOSIS >	[BOSE AUDIO]
2.	Press the "AUDIO" switch again to display the "Hardware" (audio hardware version).	А
		Hardware v0000
		С
		ALNIA0021ZZ
3.	Press the "AUDIO" switch again to display the "CD Mech" (CD mechanism version).	E
		CD Mech v0000
		G
		ALNIA0022ZZ
4.	Press the "AUDIO" switch again to display the "SDARS" (satellite radio version).	
		SDARS v0000
		ALNIA0023ZZ
0.		ALIVIAUZJEZ
Wh ent	en all segments are illuminated, press the "TUNE" up switch to er channel check diagnostics. The self-diagnostic function will n send a tone to each channel (FL, RL, RR, FR) for 1 second.	
uie	n senu a tone to each channel (FL, KL, KK, FK) for a second.	M
		Channel check FL AV
		ALNIA0024ZZ
Rut	ton Check Diagnostics	

DIAGNOSIS SYSTEM (AUDIO UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO]

When all segments are illuminated, press the "TUNE" down switch to enter button check diagnostics. When each audio unit switch is pressed, a tone will sound and the switch name will be displayed.

BUTTON CHECK

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO]

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

Diagnosis Description

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HANDS FREE PHONE SYSTEM ON BOARD DIAGNOSIS

During on board diagnosis the diagnosis function of TEL adapter unit starts with the operation of the steering switch and performs the diagnosis when ignition switch ACC.

On board diagnosis item

The on board diagnosis has 3 modes: the self-diagnosis mode that performs the trouble diagnosis, the speaker adaptation data deleting mode and the hands free phone system initialization mode. **CAUTION:**

- Perform the diagnosis with the vehicle stopped.
- Perform STEP2 if necessary.

STEP	MODE	Description	
STEP 1	Self-diagnosis	The self-diagnosis mode performs the microphone test and the diagnosis of TEL adapter unit, TEL antenna and steering unit, and then reads out the results with the sound and indicates them on the audio screen.	
STEP 2	Hands free phone system initialization	Hands free phone system initialization mode can perform the initialization of hands free phone system.	
SIEF Z	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.	

Self-diagnosis results

Self-diagnosis mode reads out the self-diagnosis results and indicates DTC on the audio screen. NOTE:

- Error count is read out simultaneously when reading out the DTC name.
- The errors are read out continuously when some errors occur at the same time. The DTC displays are combined and displayed. For example, DTC 01100 is displayed when DTC 01000 and DTC 00100 are indicated at the same time.

Self-diagnosis results

DTC (Audio screen)	Failure massage	Possible causes	
DTC 10000	Internal failure	TEL adapter unit	
DTC 01000	Bluetooth antenna open	TEL antenna	
DTC 00100	Bluetooth antenna shorted		
DTC 00010	Button ladder A is stuck	Steering switch	
DTC 00001	Button ladder B is stuck		
DTC 00000	There are no failure records to report	_	

The details of error count

The error count guides "0" when the error occurs. The next time it counts up "1" if it is normal with the ignition switch ON. It continues the count up unless the initialization of hands free phone system is performed.

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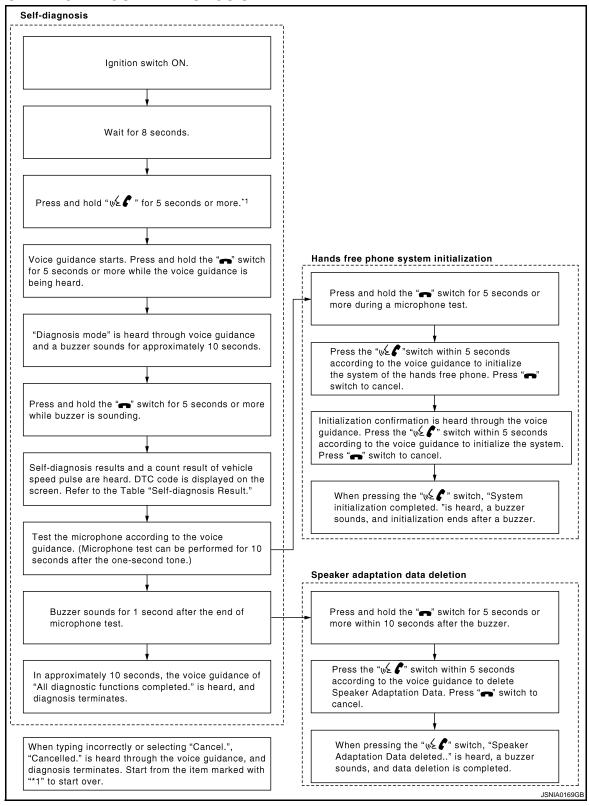
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AV-47 Revision: 2008 January 2008 Rogue

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[BOSE AUDIO]

FLOW CHART OF TROUBLE DIAGNOSIS



POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

AUDIO UNIT

AUDIO UNIT : Diagnosis Procedure

INFOID:0000000001700287

INFOID:0000000001700288

1.CHECK FUSE

Check that the following fuses of the audio unit are not blown.

Power source	Fuse No.	
Battery	35	
Ignition switch ACC or ON	20	

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK AUDIO UNIT POWER SUPPLY CIRCUIT

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Reference value
Battery power supply	M46	19	OFF	Battery voltage
ACC power supply	M46	7	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

BOSE AMP.

BOSE AMP.: Diagnosis Procedure

1.check fuse

Check that the following fuses of the BOSE amp. are not blown.

Power source	Fuse No.
Battery	13

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE speaker amp harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Reference value
Battery power supply	B64	11	OFF	Battery voltage

Is inspection result OK?

YES >> GO TO 3.

NO >> Check harness between BOSE amp. and fuse.

3.CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BOSE amp. connector.
- 3. Check continuity between BOSE amp. harness connector and ground.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B64	12	OFF	Continuity should exist.

Is inspection result OK?

YES >> INSPECTION END

NO >> Repair harness or connector.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER: Diagnosis Procedure

INFOID:0000000001700289

1. CHECK FUSES

Check that the following fuses of the satellite radio tuner are not blown.

Power source	Fuse No.	
Battery	35	
Ignition switch ACC or ON	20	

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between the satellite radio tuner and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Reference value
Battery power supply	B19	12	OFF	Battery voltage
ACC power supply	B19	16	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between satellite radio tuner and fuse.

TEL ADAPTER UNIT

TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:0000000001700290

1.CHECK FUSES

Check that the following fuses of the TEL adapter unit are not blown.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	20
Ignition switch ON or START	1

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between TEL adapter unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Reference value
Battery power supply	B6	1	OFF	Battery voltage
ACC power supply	B6	2	ACC	Battery voltage
Ignition signal	B6	3	ON	Battery voltage

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

YES >> GO TO 3.

NO >> Check harness between TEL adapter unit and fuse.

3. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect TEL adapter unit connector.
- 3. Check continuity between TEL adapter unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
		4	OFF	Continuity should exist.
		21	OFF	Continuity should exist.
Ground	B6	22	OFF	Continuity should exist.
		23	OFF	Continuity should exist.
		24	OFF	Continuity should exist.

Is inspection result OK?

YES >> INSPECTION END

NO >> Repair harness or connector.

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STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO TEL ADAPT-ER UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

Description

- Transmits the steering switch signal to TEL adapter unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

Diagnosis Procedure

INFOID:0000000001716721

1. Check steering switch signal a circuit (steering switch to tel adapter unit)

- 1. Turn ignition switch OFF.
- 2. Disconnect TEL adapter unit connector and spiral cable connector.
- Check continuity between TEL adapter unit harness connector terminal 12 and spiral cable harness connector terminal 24.

12 - 24

: Continuity should exist.

Check continuity between audio unit harness connector terminal 12 and ground.

12 - Ground

: Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK TEL ADAPTER UNIT VOLTAGE

- 1. Connect TEL adapter unit connector and spiral cable connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between TEL adapter unit harness connector terminals 12 and 14.

12 - 14

: Approx. 5 V

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace TEL adapter unit.

4. CHECK STEERING SWITCH

- 1. Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-52</u>, "Component Inspection".

Is inspection result OK?

YES >> INSPECTINON END

NO >> Replace steering switch.

Component Inspection

INFOID:0000000001716722

Measure the resistance between the steering switch connector terminals 20 to 17 and 16 to 17.

STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO TEL ADAPT-ER UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

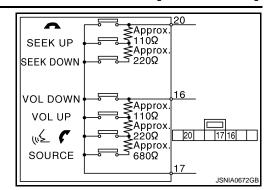
Between terminals 20 and 17

 $\begin{array}{lll} \text{SEEK DOWN switch ON} & : 327 - 333 \; \Omega \\ \text{SEEK UP switch ON} & : 109 - 111 \; \Omega \end{array}$

ightharpoonup switch ON : 0 Ω

Between terminals 16 and 17

VOL DOWN switch ON : $\mathbf{0} \Omega$



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STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO TEL ADAPT-ER UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

Description INFOID:000000001720223

- Transmits the steering switch signal to TEL adapter unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

Diagnosis Procedure

INFOID:0000000001720224

1. Check steering switch signal B circuit (steering switch to tel adapter unit)

- 1. Turn ignition switch OFF.
- 2. Disconnect TEL adapter unit connector and spiral cable connector.
- Check continuity between TEL adapter unit harness connector terminal 13 and spiral cable harness connector terminal 32.

13 - 32

: Continuity should exist.

Check continuity between audio unit harness connector terminal 13 and ground.

13 – Ground

: Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK TEL ADAPTER UNIT VOLTAGE

- 1. Connect TEL adapter unit connector and spiral cable connector.
- Turn ignition switch ON.
- 3. Check voltage between TEL adapter unit harness connector terminals 13 and 14.

13 - 14

: Approx. 5 V

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace TEL adapter unit.

4. CHECK STEERING SWITCH

- 1. Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-54, "Component Inspection"</u>.

Is inspection result OK?

YES >> INSPECTINON END

NO >> Replace steering switch.

Component Inspection

INFOID:0000000001720225

Measure the resistance between the steering switch connector terminals 20 to 17 and 16 to 17.

STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO TEL ADAPT-ER UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

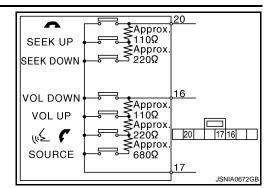
Between terminals 20 and 17

 $\begin{array}{lll} \text{SEEK DOWN switch ON} & : 327 - 333 \ \Omega \\ \text{SEEK UP switch ON} & : 109 - 111 \ \Omega \end{array}$

ightharpoonup switch ON : 0 Ω

Between terminals 16 and 17

VOL DOWN switch ON : $\mathbf{0} \Omega$



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STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

Description INFOID:000000001720649

- Transmits the steering switch signal to TEL adapter unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

Diagnosis Procedure

INFOID:0000000001720650

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

- 1. Turn ignition switch OFF.
- 2. Disconnect TEL adapter unit connector and spiral cable connector.
- Check continuity between TEL adapter unit harness connector terminal 14 and spiral cable harness connector terminal 31.

14 - 31

: Continuity should exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK GROUND CIRCUIT

- Connect TEL adapter unit connector.
- 2. Check continuity between TEL adapter unit harness connector terminal 14 and ground.

14 – Ground

: Continuity should exist.

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace TEL adapter unit.

4. CHECK STEERING SWITCH

- 1. Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-56</u>, "Component Inspection".

Is inspection result OK?

YES >> INSPECTINON END

NO >> Replace steering switch.

Component Inspection

INFOID:0000000001720651

Measure the resistance between the steering switch connector terminals 20 to 17 and 16 to 17.

STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

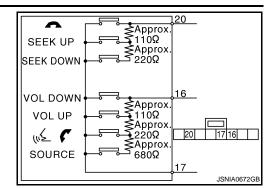
Between terminals 20 and 17

 $\begin{array}{lll} \text{SEEK DOWN switch ON} & : 327 - 333 \; \Omega \\ \text{SEEK UP switch ON} & : 109 - 111 \; \Omega \end{array}$

ightharpoonup switch ON : 0 Ω

Between terminals 16 and 17

VOL DOWN switch ON : $\mathbf{0} \Omega$



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STEERING SWITCH SIGNAL A CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

STEERING SWITCH SIGNAL A CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

Description INFOID:000000001721220

- Transmits the steering switch signal to TEL adapter unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

Diagnosis Procedure

INFOID:0000000001721144

1. CHECK STEERING SWITCH SIGNAL A (TEL ADAPTER UNIT TO AUDIO UNIT) CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector and TEL adapter unit connector.
- Check continuity between audio unit harness connector terminal 6 and TEL adapter unit harness connector terminal 17.

: Continuity should exist.

- 6 17
- 4. Check continuity between audio unit harness connector terminal 6 and ground.
 - 6 Ground : Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AUDIO UNIT VOLTAGE

- 1. Connect audio unit connector and TEL adapter unit connector.
- Turn ignition switch ON.
- Check voltage between audio unit harness connector terminals 6 and 15.

6 – 15 : Approx. 3.3 V

Is inspection result OK?

YES >> Replace TEL adapter unit.

NO >> Replace audio unit.

STEERING SWITCH SIGNAL B CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT) [BOSE AUDIO] < COMPONENT DIAGNOSIS >

STEERING SWITCH SIGNAL B CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

Description INFOID:0000000001721228

- Transmits the steering switch signal to TEL adapter unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

Diagnosis Procedure

1.check steering switch signal B (tel adapter unit to audio unit) circuit

- Turn ignition switch OFF.
- 2. Disconnect audio unit connector and TEL adapter unit connector.
- 3. Check continuity between audio unit harness connector terminal 16 and TEL adapter unit harness connector terminal 18.

16 - 18: Continuity should exist.

Check continuity between audio unit harness connector terminal 16 and ground.

16 - Ground : Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK AUDIO UNIT VOLTAGE

- Connect audio unit connector and TEL adapter unit connector.
- Turn ignition switch ON.
- Check voltage between audio unit harness connector terminals 16 and 15.

16 – 15 : Approx. 3.3 V

Is inspection result OK?

YES >> Replace TEL adapter unit.

NO >> Replace audio unit.

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AV-59 Revision: 2008 January 2008 Rogue Α

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INFOID:0000000001721758

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STEERING SWITCH SIGNAL GND CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

STEERING SWITCH SIGNAL GND CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

Description INFOID:000000001721273

- Transmits the steering switch signal to TEL adapter unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

Diagnosis Procedure

INFOID:0000000001721150

1. CHECK STEERING SWITCH SIGNAL GND (TEL ADAPTER UNIT TO AUDIO UNIT) CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector and TEL adapter unit connector.
- Check continuity between audio unit harness connector terminal 15 and TEL adapter unit harness connector terminal 19.

15 – 19 : Continuity should exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK GROUND CIRCUIT

- 1. Connect audio unit connector.
- 2. Check continuity between audio unit harness connector terminal 15 and ground.

15 – Ground : Continuity should exist.

Is inspection result OK?

YES >> Replace TEL adapter unit.

NO >> Replace audio unit.

COMMUNICATION SIGNAL CIRCUIT [BOSE AUDIO] < COMPONENT DIAGNOSIS > COMMUNICATION SIGNAL CIRCUIT Α Description INFOID:0000000001700307 Satellite radio tuner and audio unit are connected with a serial communication. They transmit the operation signal from audio unit to satellite radio tuner. Diagnosis Procedure INFOID:0000000001700308 1. CHECK CONTINUITY COMMUNICATION SIGNAL (AUDIO-SAT) CIRCUIT Turn ignition switch OFF. D Disconnect satellite radio tuner connector and audio unit connector. 3. Check continuity between satellite radio tuner harness connector terminals 9, 10 and audio unit harness connector terminals 39, 40. Е 9 - 39: Continuity should exist. 10 - 40: Continuity should exist. F 4. Check continuity between satellite radio tuner harness connector terminals 9, 10 and ground. 9, 10 - Ground : Continuity should not exist. Is inspection result OK? YES >> GO TO 2. NO >> Repair harness or connector. Н 2.CHECK AUDIO UNIT Connect audio unit connector. Turn ignition switch ON. Check voltage between audio unit harness connector terminal 39 and ground. 39 - Ground : Approx. 4 V Is inspection result OK? YES >> GO TO 3. NO >> Replace audio unit. K

3.CHECK SATELLITE RAIDIO TUNER

- Turn ignition switch OFF.

- Check voltage between satellite radio tuner harness connector terminal 10 and ground.

NO >> Replace satellite radio tuner.

4. CHECK COMMUNICATION SIGNAL (SAT-AUDIO)

- Connect audio unit connector. 2.
- 3.

AV-61 Revision: 2008 January 2008 Rogue

- 2. Disconnect audio unit connector, and connect satellite radio tuner connector.
- Turn ignition switch ON.

10 - Ground : Approx. 7.5 V

Is inspection result OK?

YES >> GO TO 4.

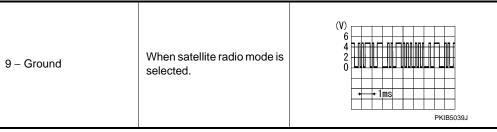
- Turn ignition switch OFF.
- Turn ignition switch ON.
- Check signal between satellite radio tuner harness connector terminal 9 and ground.

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COMMUNICATION SIGNAL CIRCUIT

[BOSE AUDIO]



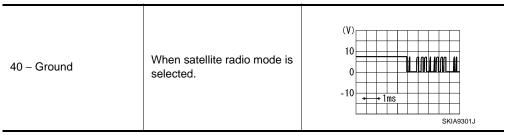
Is inspection result OK?

YES >> GO TO 5.

NO >> Replace satellite radio tuner.

 ${\bf 5.} {\tt CHECK\ COMMUNICATION\ SIGNAL\ (AUDIO-SAT)}$

Check signal between audio unit harness connector terminal 40 and ground.



Is inspection result OK?

YES >> INSPECTION END

NO >> Replace audio unit.

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

Description INFOID:000000001722582

Request signal transmits the signal to recognize the connection of satellite radio tuner from satellite radio tuner to audio unit.

Diagnosis Procedure

INFOID:0000000001722583

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1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect satellite radio tuner connector and audio unit connector.
- 3. Check continuity between satellite radio tuner unit harness connector terminal 8 and audio unit harness connector terminal 38.

8 – 38 : Continuity should exist.

4. Check continuity between satellite radio tuner harness connector terminal 8 and ground.

8 – Ground : Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AUDIO UNIT

- Connect audio unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between audio unit harness connector terminal 38 and ground.

38 – Ground : Approx. 4 V

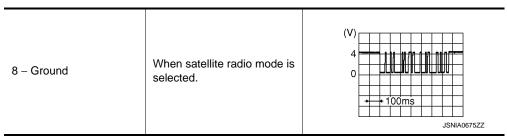
Is inspection result OK?

YES >> GO TO 3.

NO >> Replace audio unit.

3. CHECK CONTINUITY REQUEST SIGNAL

- 1. Turn ignition switch OFF.
- 2. Connect satellite radio tuner connector.
- 3. Turn ignition switch ON.
- 4. Check signal between satellite radio tuner harness connector terminal 8 and ground.



Is inspection result OK?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

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[BOSE AUDIO]

AMP. ON SIGNAL CIRCUIT

Description INFOID:000000001700302

When the audio system is turned on, a voltage signal is supplied from the audio unit to the BOSE amp. When this signal is received, the BOSE amp. will turn on.

Diagnosis Procedure

INFOID:0000000001700303

1. CHECK CONTINUITY AMP. ON SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector and BOSE amp. connector.
- 3. Check continuity between audio unit harness connector terminal 1 and BOSE amp. harness connector terminal 31.

1 – 31 : Continuity should exist.

4. Check continuity between audio unit harness connector terminal 1 and ground.

1 – Ground : continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE AMP. ON SIGNAL

- 1. Connect audio unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between audio unit harness connector terminal 1 and ground.

1 – Ground : Approx. 12 V

Is inspection result OK?

YES >> Replace BOSE amp.

NO >> Replace audio unit.

WOOFER AMP. ON SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO]

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WOOFER AMP. ON SIGNAL CIRCUIT

Description INFOID:000000001871933

When the audio system is turned on, a voltage signal is supplied from the BOSE amp. to the woofer. When this signal is received, the woofer will turn on.

Diagnosis Procedure

INFOID:0000000001871946

1. CHECK CONTINUITY WOOFER AMP. ON SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BOSE amp. connector and woofer connector.
- Check continuity between BOSE amp. harness connector terminal 25 and woofer harness connector terminal 4.

25 – 4 : Continuity should exist.

4. Check continuity between BOSE amp. harness connector terminal 25 and ground.

25 – Ground : continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE AMP. ON SIGNAL

- 1. Connect BOSE amp. connector
- 2. Turn ignition switch ON.
- 3. Check voltage between BOSE amp. harness connector terminal 25 and ground.

25 – Ground : Approx. 12 V

Is inspection result OK?

YES >> Replace woofer.

NO >> Replace BOSE amp.

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Revision: 2008 January AV-65 2008 Rogue

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[BOSE AUDIO]

MICROPHONE SIGNAL CIRCUIT

Description INFOID:000000001700311

Supply power from TEL adapter unit to microphone. The microphone transmits the sound voice to the TEL adapter unit.

Diagnosis Procedure

INFOID:0000000001722804

1. CHECK CONTINUITY BETWEEN TEL ADAPTER UNIT AND MICROPHONE CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect TEL adapter unit connector and microphone connector.
- 3. Check continuity between TEL adapter unit harness connector terminals 7, 8, 29 and microphone harness connector terminals 1, 2, 4.

7 - 1 : Continuity should exist.
8 - 2 : Continuity should exist.
29 - 4 : Continuity should exist.

4. Check continuity between TEL adapter unit harness connector terminals 7, 29 and ground.

7, 29 – Ground : Continuity should not exist.

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK MICROPHONE POWER SUPPLY

- 1. Connect TEL adapter unit connector.
- Turn ignition switch ON.
- 3. Check voltage between TEL adapter unit harness connector terminals 29 and ground.

29 – Ground : Approx. 5 V

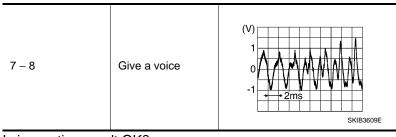
Is inspection result OK?

YES >> GO TO 3.

NO >> Replace TEL adapter unit.

3.CHECK MICROPHONE SIGNAL

- Turn ignition switch OFF.
- 2. Connect microphone connector.
- 3. Turn ignition switch ON.
- Check signal between TEL adapter unit harness connector terminals 7 and 8.



Is inspection result OK?

YES >> INSPECTION END NO >> Replace microphone.

TELEPHONE ON SIGNAL CIRCUIT [BOSE AUDIO] < COMPONENT DIAGNOSIS > TELEPHONE ON SIGNAL CIRCUIT Α Description INFOID:0000000001722666 When telephone is being used. TEL adapter unit transmits telephone ON signal to audio unit. В Diagnosis Procedure INFOID:0000000001722667 1. CHECK CONTINUITY TELEPHONE ON SIGNAL CIRCUIT C 1. Turn ignition switch OFF. Disconnect TEL adapter unit connector and audio unit connector. 3. Check continuity between TEL adapter unit harness connector terminal 11 and audio unit harness con-D nector terminal 28. 11 - 28: Continuity should exist. Е 4. Check continuity between TEL adapter unit harness connector terminal 11 and ground. 11 - Ground : Continuity should not exist. F Is inspection result OK? YES >> GO TO 2. NO >> Repair harness or connector. 2.CHECK TELEPHONE ON SIGNAL Connect audio unit connector. Н Turn ignition switch ON. 2. Check voltage between audio unit harness connector terminal 28 and ground. 28 - Ground While using hands-free phone : 0 V system While not using hands-free phone : 5 V system

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace audio unit.

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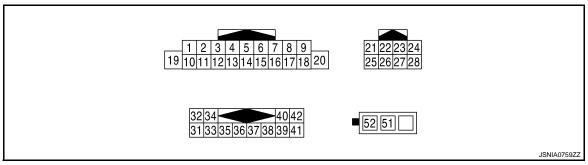
< ECU DIAGNOSIS > [BOSE AUDIO]

ECU DIAGNOSIS

AUDIO UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (BR)	Ground	Amp. ON signal	Output	Ignition switch ON	_	12 V
2 (R)	3 (G)	Sound signal front LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E
4 (V)	5 (LG)	Sound signal rear LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E
					Keep pressing SOURCE switch	0 V
6	15 (GR)	Steering switch signal A	Input	Ignition switch	Keep pressing SEEK UP switch	1.1 V
(W)	(GK)			ON	Keep pressing VOL UP switch	2.2 V
					Except for above	3.3 V
7 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
10	_	Shield	_	_		_

AUDIO UNIT

< ECU DIAGNOSIS > [BOSE AUDIO]

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Terminal Description (Wire color)				Condition	Reference value		
+	_	Signal name	Input/ Output		Condition	(Approx.)	
11 (O)	12 (W)	Sound signal front RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E	
13 (L)	14 (P)	Sound signal rear RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E	
15 (GR)	Ground	Steering switch signal ground	_	Ignition switch ON	_	0 V	
					Keep pressing POWER switch*	0 V	
16 (O)	15 (GR)	Steering switch signal B	Input	Ignition switch	Keep pressing SEEK DOWN switch	1.1 V	
				ON	Keep pressing VOL DOWN switch	2.2 V	
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	3.3 V NOTE: The maximum voltage varies depending on the specification (destination unit).	
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
20	_	shield	_	_	_	_	
21 (L)		AV communication signal (H)	_	Input/ Output	_	_	
22 (P)	_	AV communication signal (L)	_	Input/ Output	_	_	
23		Shield	_	_	_	_	
25	_	Shield	_	_	_	_	

< ECU I	DIAGNO)SIS >				[BOSE AUDIO]
	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output	Condition		(Approx.)
26 (BR)	27 (Y)	Sound signal (Telephone voice, tele- phone guidance)	Input	Ignition switch ON	Give a voice	(V) 1 0 -1 + 2ms SKiB3609E
28	_			Ignition	While using hands-free phone system	0 V
(V)	Ground	Telephone ON signal	Input	switch ON	While not using hands-free phone system	5 V
32 (L)	31 (R)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected	(V) 1 0 -1 + 2ms SKIB3609E
34 (W)	33 (G)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected	(V) 1 0 -1 + 2ms SKIB3609E
35	_	Shield	_	_	_	_
36		Shield	_		_	_
38 (Y)	Ground	Request signal (SAT TO AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected	(V) 4 0 + 100ms JSNIA0675ZZ
39 (B)	Ground	Communication signal (SAT-AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected	(V) 6 4 2 0 + 1ms PKiB5039J
40 (L)	Ground	Communication signal (AUDIO-SAT)	Output	Ignition switch ON	When satellite radio mode is selected	(V) 10 0 -10 + 1ms SKIA9301J

AUDIO UNIT

< ECU DIAGNOSIS > [BOSE AUDIO]

	minal e color)	Description		Condition		Reference value	
+	_	Signal name	Input/ Output			(Approx.)	
51	_	Antenna signal	Input	_	_	_	
52	Ground	Antenna amp. ON signal	Output	Ignition switch ON	_	12 V	

^{*:} Without telephone system

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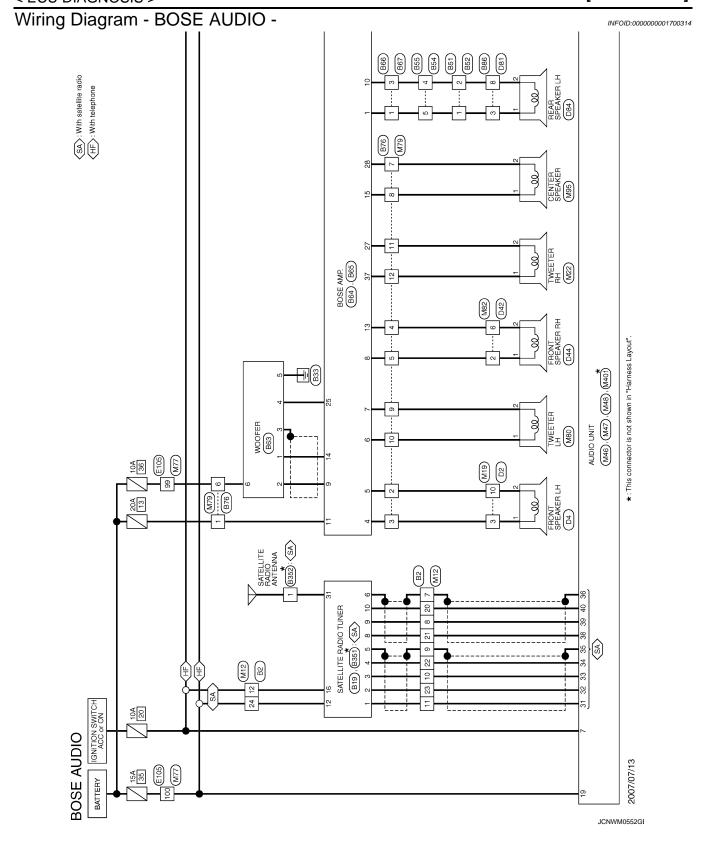
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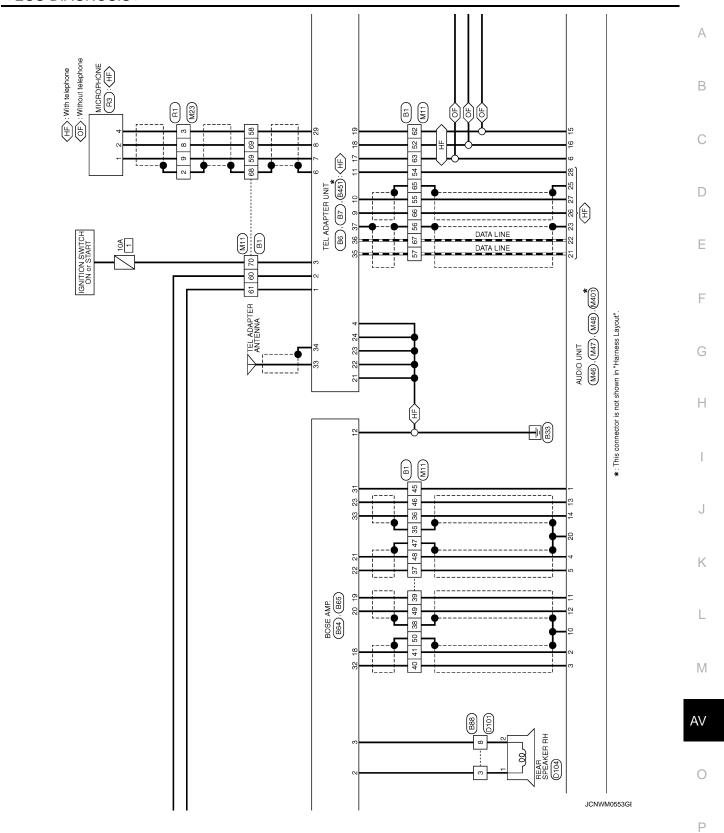
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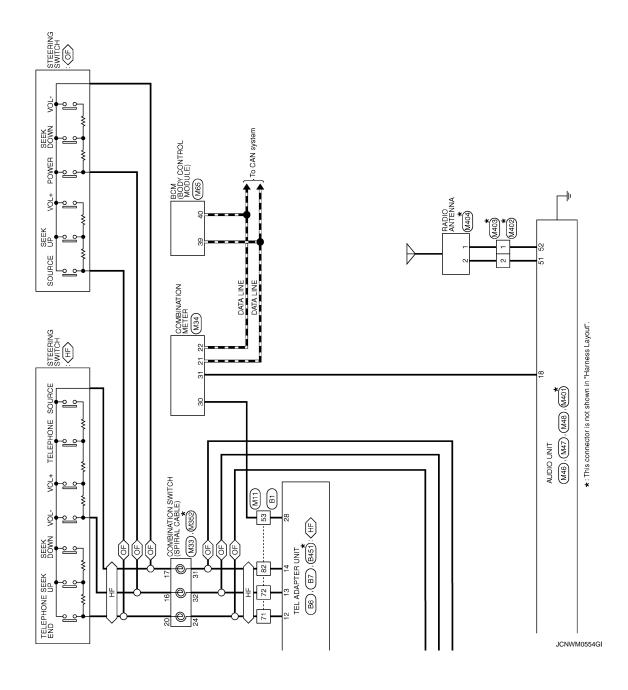
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	Connector Name SATELLITE RADIO TUNER Connector Name SATELLITE RADIO TUNER Connector Type A16FW A
Connector Name WIRE TO WIRE	Connector Name TEL ADAPTER UNIT
90 SHELD 52 C	13 Y STEERING SW SIGNAL B 14 GR STEERING SW SIGNAL GND 17 W STEERING SW SIGNAL A 18 L STEERING SW SIGNAL A 18 GND CND C
BOSE AUDIO Connector Name WIRE TO WIRE Connector Type TH80MW-CSIG-TM4 TH	Connector Name TEL ADAPTER UNIT

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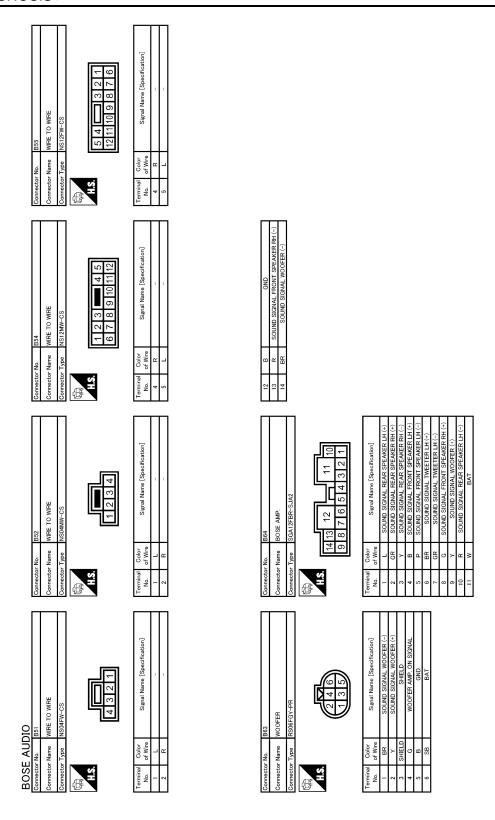
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Connector No. B87 Connector Type NSDBMW-CS H.S. 1	Terminal Color No. of Wire 1 L - 3 R	Connector No. 888 Connector Name WIRE TO WIRE Connector Type NS12MW-CS H.S. 1 2 3 - 4 5 6 7 8 9 10 11 12	Terminal Color Signal Name [Specification] Color Signal Name [Specification] 3 GR - -		A B C
Connector No. B86 Connector Name WIRE TO WIRE Connector Type NISOBEW-CS H.S. 2 1 1	Terminal Color Signal Name [Specification] 1	Connector No. 886 Connector Name WIRE TO WIRE Connector Type NISI2IMN-CS H.S. 1 2 3 10 11 12 6 7 8 9 10 11 12	Terminal Color Signal Name [Specification]		E F G
32 G SOUND SIGNAL FRONT LH (-) 33 R SOUND SIGNAL FRAF PH (-) 37 O SOUND SIGNAL TWEETER RH (+)					I J K
BOSE AUDIO	Terminal Color Signal Name [Specification] Of Wire SOUND SIGNAL CENTER SPEAKER (+) 18	Connector No. 876 Connector Name WIRE TO WIRE Connector Type NS12MW-CS H.S. 1 2 3	Terminal Color No. of Wire 1 W Wre 2 B B C C C C C C C C C C C C C C C C C	JCNWM0557GI	AV O

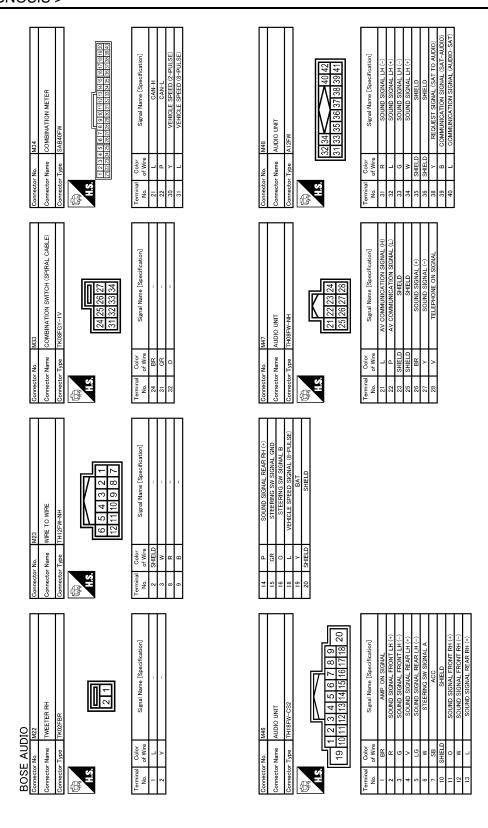
Revision: 2008 January AV-77 2008 Rogue

Connector No. D2	Connector Name WIRE TO WIRE Connector Type NSI 16FW-CS Connector Type Connector Type NSI 16FW-CS Connector Type Connec	Terminal Color Signal Name [Specification]	Connector No. D81	Signal Name [Specification] Terminal Golor Signal Name [Specification]
Connector No. B451	Connector Name TEL ADAPTER UNIT	Terminal Color Signal N	Connector No. D44 Connector Name FRONT SPEAKER RH Connector Type NS02FW-CS H.S.	Terminal Golor Signal M. of Wire
Gonnector No. B352	Connector Name SATELLITE RADIO ANTENNA Connector Type GT16C-IPP-HU	Terminal Color No. of Wire Signal Name (Specification)	Connector No. D42 Connector Name WIRE TO WIRE Connector Type NSIGFW-CS 1	Terminal Color Signal Name [Specification]
BOSE AUDIO Connector No. B351 C	ne SATELLITE RADIO TUNER FAKRA JACK	No. of Wire Signal Name [Specification]	Connector No. D4 Connector Name FRONT SPEAKER LH Connector Type NSOZPW-CS Connector Type NSOZPW-CS	Terminal Color Signal Name [Specification]

JCNWM0558GI

		А
W-CS16-TM4 W-CS16-TM4 Signal Name [Specification]	WRE -CS 11 12 13 14 15 16 11 12 13 14 15 16 Signal Name (Specification)	В
Connector No. E105 Connector Name WIFE TO WIFE Connector Type TH80FW-CS16 H.S. R. H.S.	Connector No. M19	C
EAKER RH 1-CS 2-1 Signal Name [Specification]	Signal Name [Specification]	E
D104 REAR SP NS02PBR NS02PBR NS7 R	MI12 11110 9 11110 9 1110 9 110 9 110 9 110 9 110 9 110 9 110 9 110 9 110 9 110	F G
Connector No. Connector Type Connector Type H.S. H.S. Terminal Color 1 Color 7 Terminal Color Terminal Colo	Connector No. Connector Name Connector Name Connector Type Conne	Н
NST2PH-CS Signal Name Specification		I
Connector No. Digit	50 50 50 50 50 50 50 50	К
		L
NSOZEBR-CS NSOZEBR-CS Signal Name [Specification]	WIRE TO WRE TH80FW-CS I6-TM4	M
S H	M WR 11 1 H80 N 12 N 1	AV
BOSE AUDIO Commetcor No. 1084 Commetcor No. 1082 A.S. Terminal Color 1 R. 1 R. 2 R. 1 R.	Connector No. M Connector No. M Connector No. M Connector Type Treminal Color No. SHIELD S SHIELD S SHIELD S S SHIELD S S S S S S S S S	0
	JCNWM0559Gf	P

Revision: 2008 January AV-79 2008 Rogue

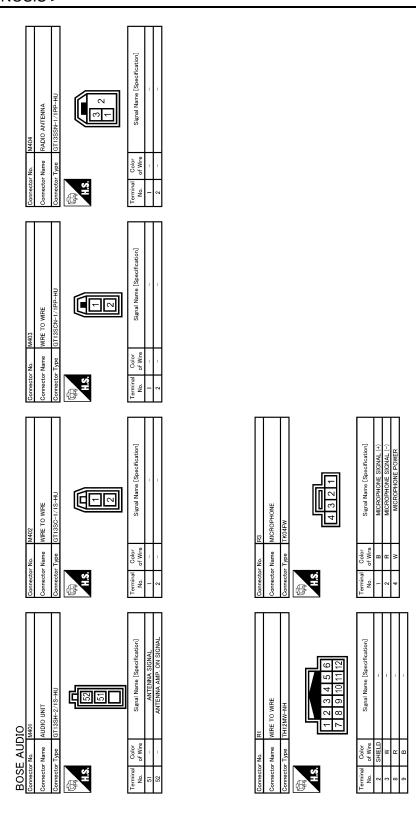


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	Connector No. M352 Connector Name COMBINATION SWITCH (SPIRAL CABLE) Connector Type TK08FGY H.S. 14 15 16 17 18 19 20 21	Terminal Golor Signal Mame [Specification] No. 16		A B C
Connector No. M79 Connector No. M79 Connector Name WIRE TO WIRE	Connector No. M95 Connector Name CENTER SPEAKER Connector Type TK02FBR ##\$	Terminal Color No. of Wire Signal Name [Specification] 1 V V 2 P -		E F G
Connector No. M77 Connector Type TH60MM-CS16-TM4 Connector Type TH60MM-CS16-TM4 Terminal Color Signal Name (Specification) 99 SB 100 Y	Connector No. M82 Connector Type WIRE TO WIRE Connector Type NS10MW-CS 1 2	Terminal Color Signal Name [Specification] No. Of Wire Color Col		J K
BOSE AUDIO Connector No. Miss Connector No. Miss Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FW TH40FW TH20 State of No. Th40FW TH20 State of No. Th40FW Signal Name (Specification) No. of Wire Signal Name (Specification) No. of Wire Signal Name (Specification) August Color Signal Name (Specification) No. Of Wire CAN-H COM-H COM-H	Connector No M80 Connector Name TWETER LH Connector Type TR02FBR	Terminal Golor Signal Name [Specification] Of Wire Signal Name [Specification] BR	JCNWM0561GI	M AV

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Revision: 2008 January AV-81 2008 Rogue



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BOSE AMP.

Reference Value

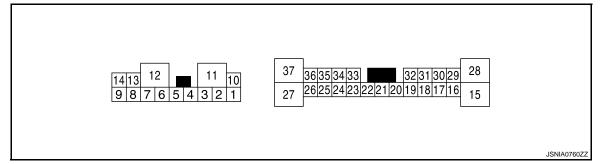
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TERMINAL LAYOUT



PHYSICAL VALUES

	minal	Description					F
+ (vvire	color)	Signal name	Input/ Output		Condition	Reference value (Approx.)	G
1 (L)	10 (R)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E	Н
2 (GR)	3 (Y)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 2ms SKIB3609E	J K
4 (B)	5 (P)	Sound signal front speaker LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E	M
6 (BR)	7 (GR)	Sound signal tweeter LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E	O P

Terr	minal e color)	Description				Defense
+	-	Signal name	Input/ Output		Condition	Reference value (Approx.)
8 (G)	13 (R)	Sound signal front speaker RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E
9 (Y)	14 (BR)	Sound signal woofer	Output	Ignition switch ON	Voice output	(V) 1 0 -1 *** 2ms SKIB3609E
11 (W)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
12 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
15 (V)	28 (O)	Sound signal center speaker	Output	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E
18 (R)	32 (G)	Sound signal front LH	Input	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E
19 (O)	20 (W)	Sound signal front RH	Input	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E
21 (V)	22 (LG)	Sound signal rear LH	Input	Ignition switch ON	Voice output	(V) 1 0 -1 → 2ms SKIB3609E

BOSE AMP.

< ECU DIAGNOSIS > [BOSE AUDIO]

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output	(Approx.)		(Approx.)
23 (W)	33 (R)	Sound signal rear RH	Input	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E
25 (G)	Ground	Woofer Amp. ON signal	Output	Ignition switch ACC	_	12 V
31 (L)	Ground	Amp. ON signal	Input	Ignition switch ACC	_	12 V
37 (O)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E

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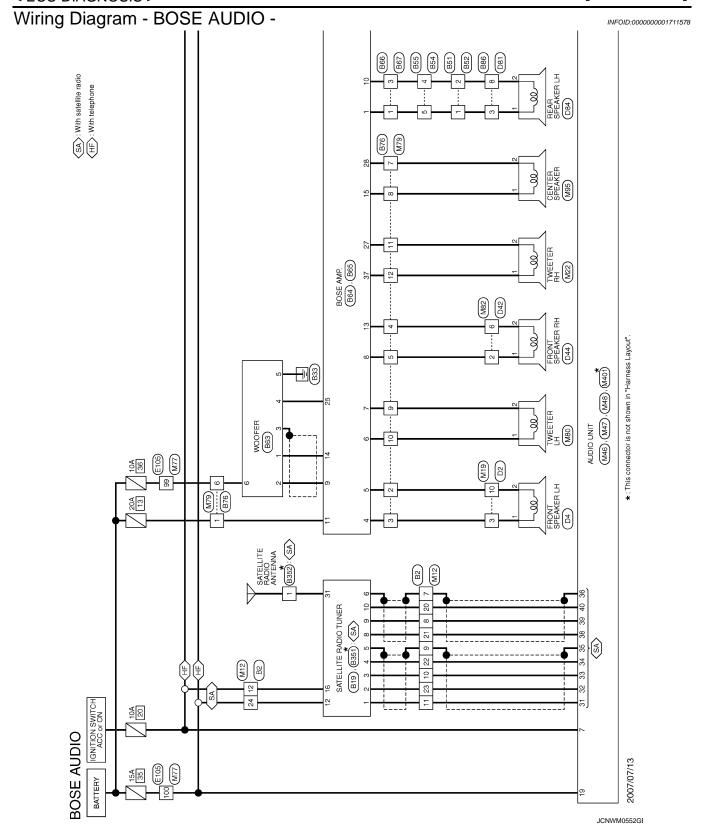
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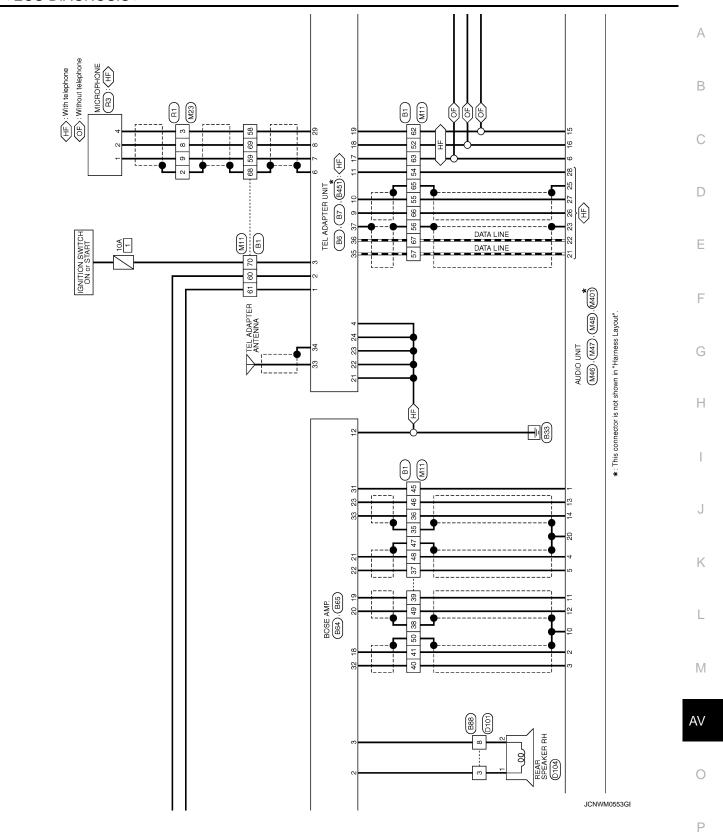
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AV

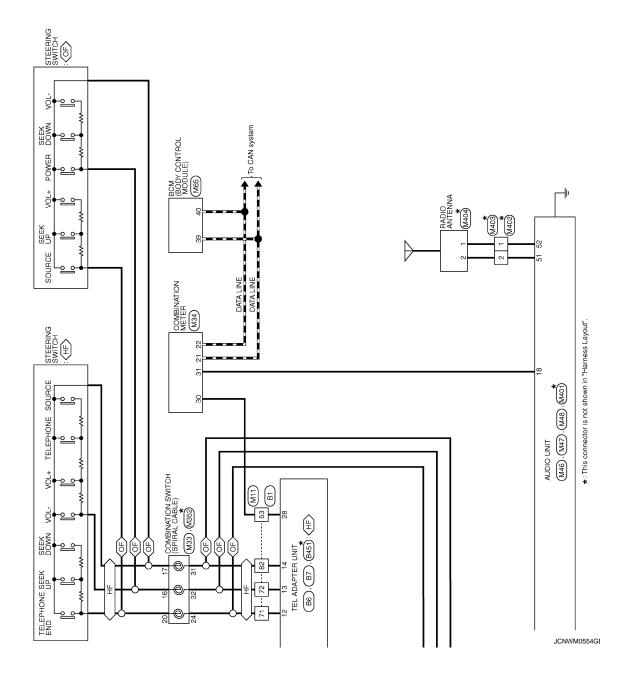
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	Connector Name SATELLTE RADIO TUNER Connector Type A16FW A16FW 2 4 6 7 8 9 10 11 13 15	Terminal Color Signal Name [Specification] 1	
Connector No. B2 Connector Type TH2AMM-NH H.S. T12 3 4 5 6 7 8 9 10 11112 To vi Nire No. of Nire No.	Connector No. B7 Connector Name TEL ADAPTER UNIT Connector Type TH08FW-NH H.S. 35 37 39 41 36 38 40 42	Terminal Color Signal Name [Specification] No of Wive Signal Name [Specification] 35	
49 W 52 C 53 C C 54 C C 54 C C 54 C C 55 C	13 Y STEEPING SW SIGNAL B 14 GR STEEPING SW SIGNAL GND 17 W STEEPING SW SIGNAL A 18 L STEEPING SW SIGNAL A 18 CR STEEPING SW SIGNAL GND 21 B GND CAD 22 B GND CAD		
Connector Name	Connector No. Connector Type TH32FW-NH Connector Type TH32FW-NH H.S. L.S. L.S.	Terminal Color Signal Name [Specification] 1	JCNWM0555GI

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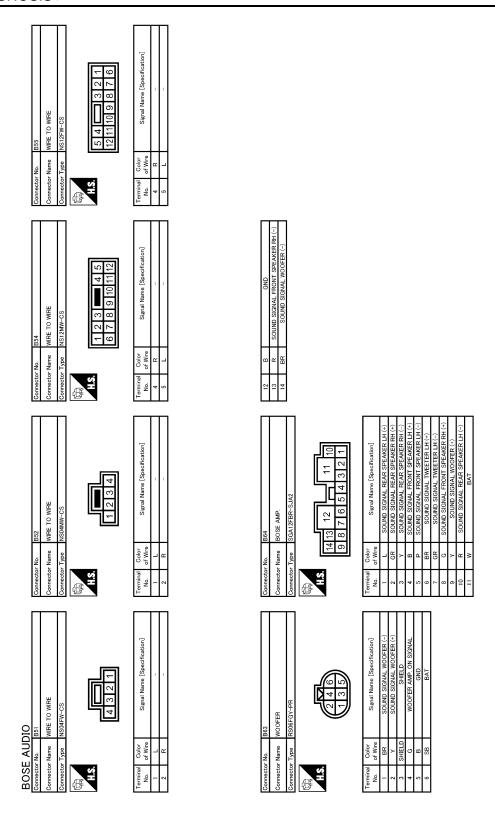
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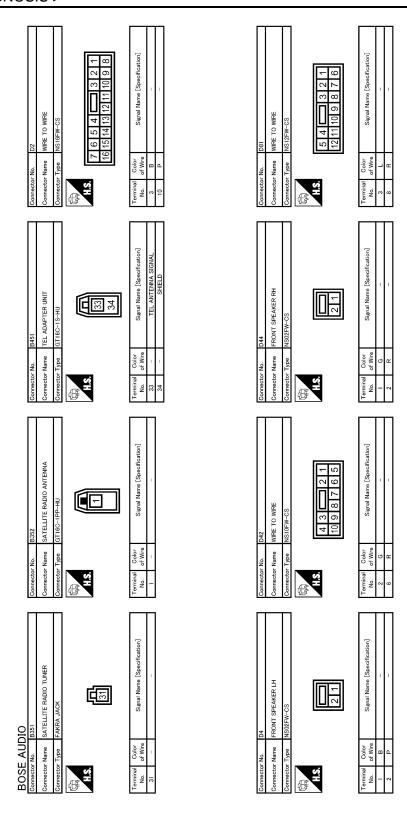
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Connector No. B67 Connector Name WIRE TO WIRE Connector Type NISOBAW-CS 1	Terminal Color No. of Wire Signal Name [Specification]	Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Type NS12MW-CS MAS. 1 2 3 4 5 6 7 8 9 10 11 12	Terminal Color Signal Name Specification		A B C
Connector No. B56 Connector Name WIRE TO WIRE Connector Type NISGRIW-CS H.S. 2 1 1 6 5 4 3	Terminal Color No. of Wire Signal Name [Specification] 1 L - 3 R -	Connector No. B86 Connector Name WIRE TO WIRE Connector Type NSI2MW-CS H.S. 1 2 3 1 4 5 6 7 8 9 10 11 12	Terminal Color No. of Wire Signal Name [Specification] 3 L – 8 R –		E F G
22 G SOUND SIGNAL FRONT LH (~) 33 R SOUND SIGNAL REAR RH (~) 37 O SOUND SIGNAL TWEETER RH (~)		12 0 -			J K
BOSE AUDIO Connector No. 865 Connector Type SCA19FBR-SGA4 LA. 37 33 22221201918 15	Terminal Color Signal Name (Specification)	Connector No. 876 Connector Name WIRE TO WIRE Connector Type NS12AMV-CS MS12AMV-CS 1 2 3	Terminal Color No. of Wire 1 W	JCNWM0557Gł	M AV

Revision: 2008 January AV-91 2008 Rogue



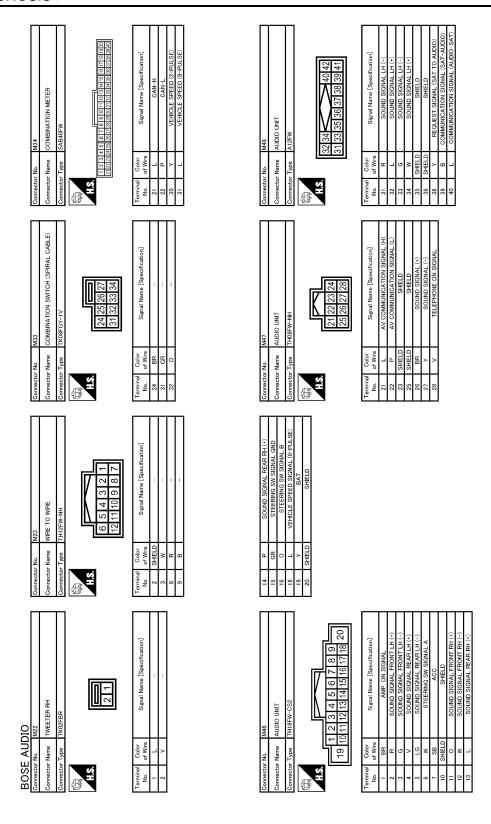
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Revision: 2008 January

FIGS THROPP-CS IG-TM4 THROPP-CS IG-TM4 Signal Name [Specification]	Signal Name [Specification]	АВ
Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16 TH80FW-CS16 Terminal Color No. of Wire 99 SB 100 L	Connector No. MI9	C
EAKER RH -CS 21 Signal Name [Specification]	Signal Name [Specification]	E
Connector No. D104 Connector Name REAR SPEAKER RH Connector Type NS0ZFBR-CS H.S. Terminal Color No. of Wire 1 GR	Connector No. M12	G H
CS 10 9 8 7 6 Signal Name [Specification]		I
Connector No. D101	49 W Single D Single	J K
COS COS Signai Name [Specification]	Signal Name (Specification)	L M
BOSE AUDIO Connector No. D04 Connector Name REAR SPEAKER LH Connector Type INSZFBR-CS Terminal Color No. of Wive Signal Nam 1 L 2 R	Connector No. MII	AV
	JCNWM0559GI	

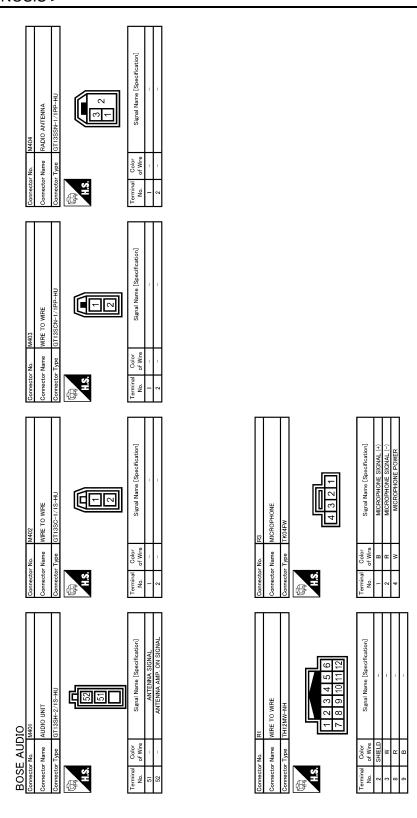
AV-93 2008 Rogue

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13 L L	Connector No. M352 Connector Type COMBINATION SWITCH (SPIRAL CABLE) Connector Type TK08FGY H.S. [14] 15 16 17 18 19 20 21	Terminal Color No. of Wire Signal Name (Specification) 16	A B C
Connector No. M79 Connector No. M79 Connector Type NS12FW-CS	Connector No. M95 Connector Name CENTER SPEAKER Connector Type TK02FBR H.S.	Terminal Golor Signal Name (Specification)	E F G
Connector No. M77 Connector Type TH80MV-CSI 6-TM4 Later Type Th80MV-CSI	Connector No. M82 Connector Name WIRE TO WIRE Connector Type NS10MW-CS H.S. 1 2 3 4 5 6 7 8 9 10	Terminal Color Signal Name [Specification]	J K
Connector No. M65 Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FW Tonnector Type TH40FW TH40FW TONNECTOR TYPE TH40FW TH40FW TONNECTOR TYPE TH40FW TH40FW	Connector No. M80 Connector Name TWETER LH Connector Type TRUZEBR H.S.	Terminal Color No. of Wire Signal Name [Specification] 1 BR[With BOSE system] 2 P[Without BOSE system]	AV O JCNWM0561GI



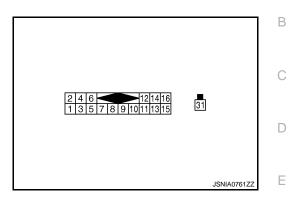
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< ECU DIAGNOSIS > [BOSE AUDIO]

SATELLITE RADIO TUNER

Reference Value

TERMINAL LAYOUT



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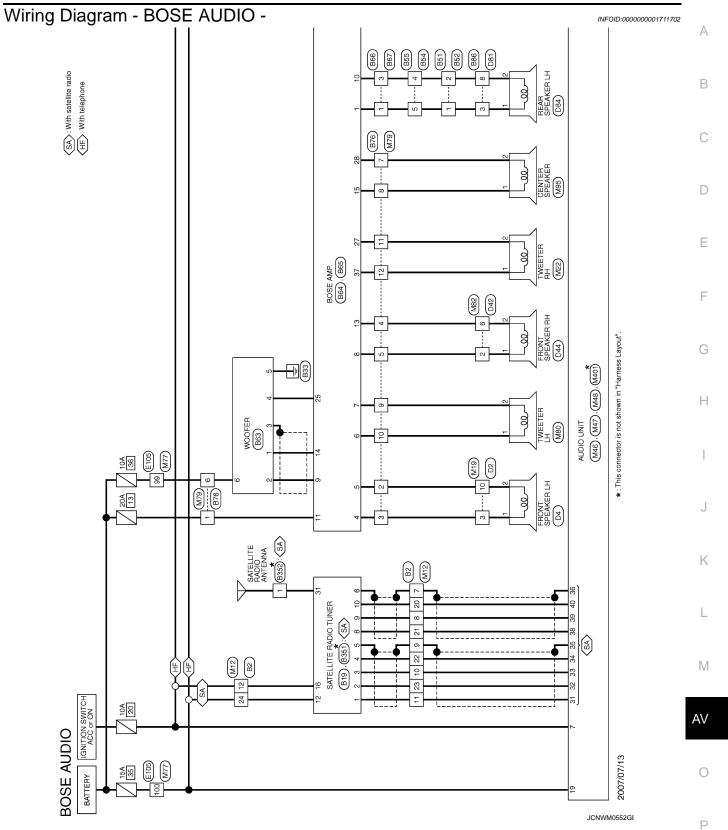
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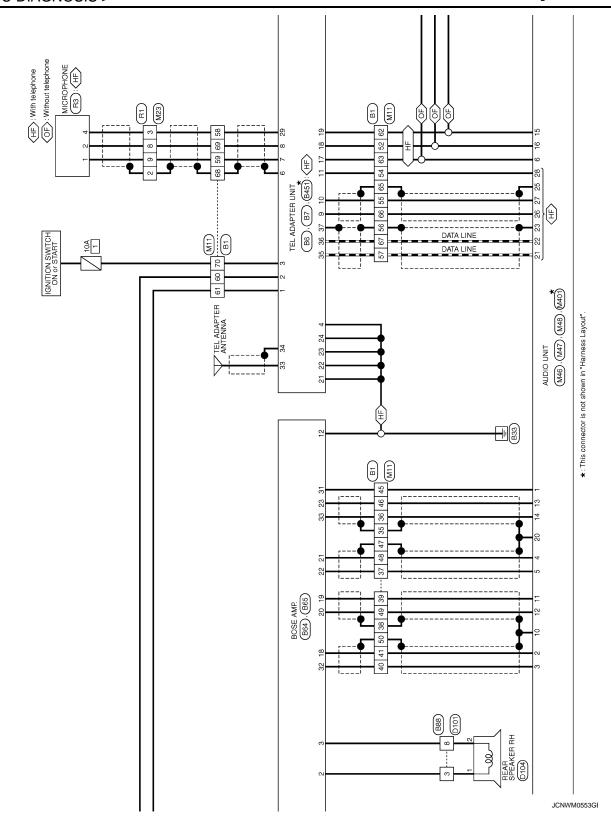
Terminal Description					Reference value		
+	-	Signal name	Input/ Output	Condition		(Approx.)	
2 (L)	1 (R)	Satellite radio sound signal LH	Output	Ignition switch ON	When satellite radio mode is selected	(V) 1 0 -1 + 2ms SKIB3609E	
4 (W)	3 (G)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected	(V) 1 0 -1 + 2ms SKIB3609E	
5	_	Shield	_	_	_	_	
6	_	Shield	_	_	_	_	
8 (Y)	Ground	Request signal (SAT TO AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected	(V) 10 0 -10 + 10ms SKIA9299J	
9 (G)	Ground	Communication signal (SAT-AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected	(V) 6 4 2 0 + 1ms	

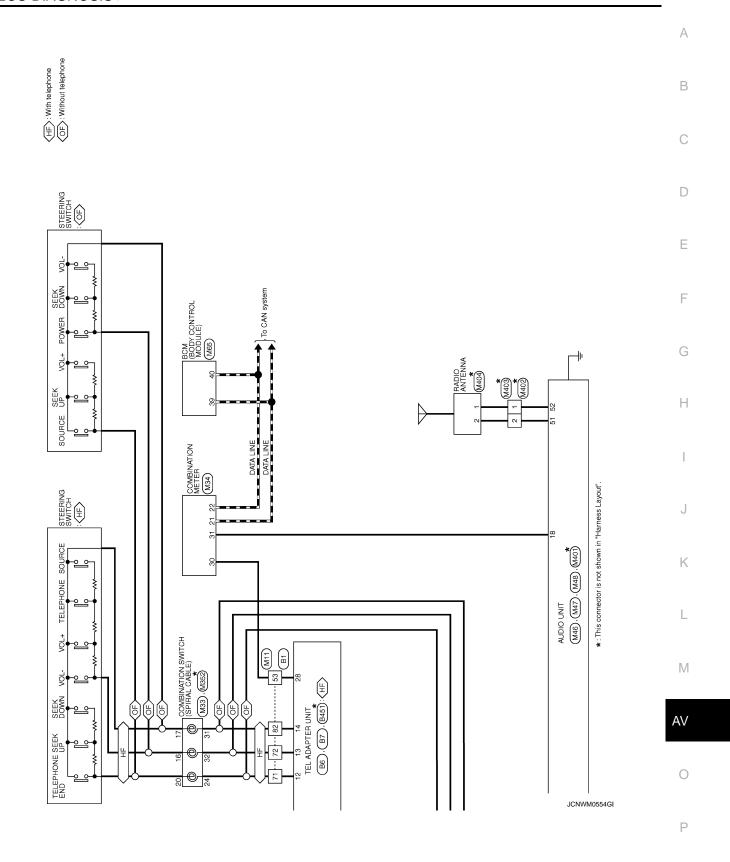
< ECU DIAGNOSIS > [BOSE AUDIO]

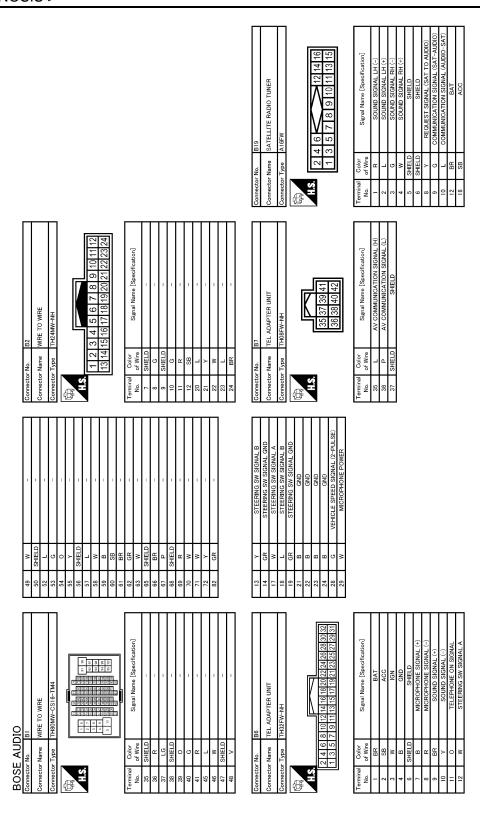
Terminal		Description				Reference value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
10 (L)	Ground	Communication signal (AUDIO→SAT)	Input	Ignition switch ON	When satellite radio mode is selected	(V) 10 0 -10 + 1ms SKIA9301J	
12 (BR)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
16 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage	
31	_	Satellite antenna	Input	_	_	_	

< ECU DIAGNOSIS > [BOSE AUDIO]









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< ECU DIAGNOSIS > [BOSE AUDIO]

	[iou]			А
3 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name (Specification)			В
lone WIRE TO WIRE Type NS12PW-CS 5 4	Color Sir			С
Connector No. Connector Name Connector Type	No. o			D
120	officetton]	SPEAKER RH (-)		Е
9 10 11 4 4 T	Signal Name (Specification)	GMD SOUND SIGNAL PRONT SPEAKER RH (~) SOUND SIGNAL WOOFFR (~)		F
r Type	Del Color of Wire R R R R R R R R R R R R R R R R R R R	ω α & &		G
Connecto Connecto Connecto H.S.	Terminal No. 6 4 4 4 5			Н
	Signal Name (Specification)	BOSE AMP.		I
BS2 WIRE TO WIRE NSD4MW-CS 1 2 3 1	Signal Name	BOSE AMP. SGAIZFBR-SJAZ SGAIZFBR-SJAZ 13 12 1 5 5 4 8 7 6 5 4 8 7 6 5 4 SOUND SIGNAL RY		J
Connector No. B Connector Type M Connector Type M	Terminal Color No. of Wire 2 R R	Connector No. B Connector Name B Connector Type S Connecto		K
				L
	Signal Name (Specification)	Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Sould Signal Woofer (-) Sould Signal Woofer (-) Sould Signal Name (-) BATT		M
WIRE TO WIRE NSOAFW-CS A NSOAFW-CS	Ш	B63 WOOFE		AV
BOSE AUDIO Connector No. 851 Connector Type NS04 H.S.	Terminal Color No. of Wire 1 L L L L L L L L L L L L L L L L L L	Connector No. Connector Name Connector Type H.S. H.S. H.S. H.S. A. 2. 4. 3. SHELD 4. 4. 6. 6. 6. 8. 8. 8. 8. 6. 8. 8		0
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Revision: 2008 January AV-103 2008 Rogue

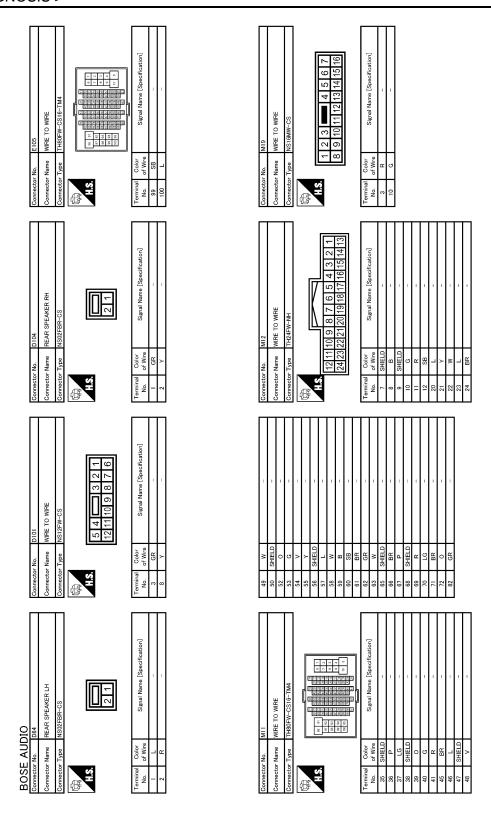
Connector No. 667 Connector Name WIRE TO WIRE Connector Type NSDBAW-CS H.S. 1 2 2 3 4 5 6	Terminal Color No. of Wire Signal Name [Specification]	Connector No. 888 Connector Name WIRE TO WIRE Connector Type INSTRMM-CS	Terminal Color No. of Vifre Signal Name [Specification] 3 GR –
Connector No. B66 Connector Name WIRE TO WIRE Connector Type NISOBETW-CS H.S. 2 1	Terminal Color Signal Name [Specification] No. of Wire 1 L	Connector No. 886 Connector Name WIRE TO WIRE Connector Type NSI2MW-CS H.S. 1 2 3 4 5 6 7 8 9 10 11 12	Terminal Color No. of Wire Signal Name [Specification] 3 Lr – 8 R –
32 G SOUND SIGNAL FRONT LH (-) 33 R SOUND SIGNAL REAR RH (-) 37 O SOUND SIGNAL TWEETER RH (+)		- 0 21	
BOSE AUDIO	Terminal Color Signal Name [Specification]	Connector No. 876 Connector Name WIRE TO WIRE Connector Type NS12MV-CS H.S. 1 2 3 4 5 6 7 8 9 10 1112	Terminal Color Nume [Specification] No. of Wire Signal Name [Specification] 2 3

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< ECU DIAGNOSIS > [BOSE AUDIO]

Cornector No. D2 Connector Name WISTERTO WISE Connector Type NST IBFW-CS T 6 5 4 T 1 <th>Of Wire B B B B B B B B B B B B B B B B B B B</th> <th>Terminal Color No. or Wire 8 R 8 R</th> <th>A B C</th>	Of Wire B B B B B B B B B B B B B B B B B B B	Terminal Color No. or Wire 8 R 8 R	A B C
Connector No. B451 Connector Name TEL ADAPTER UNIT Connector Type GT16C-1S-HU #\$3 Terminal Color Connector Name Connector Services Servic	D44 FRONT S NS02FW	Terminal Color No. of Wire 1 G. Signal Name (Specification) 2 R. — — — —	E F G
Connector No. B352 Connector Name SATELLITE RADIO ANTENNA Connector Type GT16C-IPP-HU H.S. Terminal Color Connector No. B352 Connector Type GT16C-IPP-HU Con	Or Wire No. 042 179pe NSTGFW 14 5 1 1 1 1 1 1 1 1 1	Terminal Color No. of Wire 2 G G 6 R R	J K
BOSE AUDIO Connector No. B351 Connector Type FAKRA JACK ALS. This Color Connector Type Connect	D4 FRONT S NS02FW-	Terminal Color No. of Wire Signal Name [Specification] No. of Wire 2 P P P P P P P P P	M AV

Revision: 2008 January AV-105 2008 Rogue

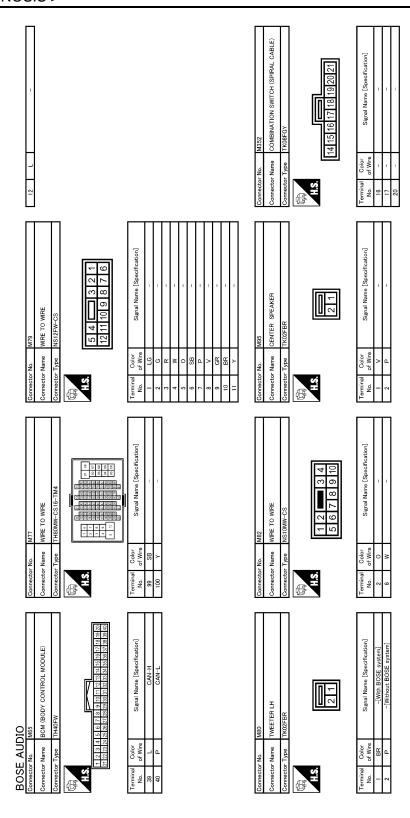


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< ECU DIAGNOSIS > [BOSE AUDIO]

Connector No. M34	L VEHICLE SPEED	A B C
Connector No. M33	Story N	E F G
Connector No. M23	9 B	J K
BOSE AUDIO Gonnector No. M22 Connector No. M22 Connector Type TK0ZFBR	Connector No. M46 Connector Name AUDIO UNIT Connector Type THIBFW-CS2 THIBFW-CS3 THIBFW-CS3	AV
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Revision: 2008 January AV-107 2008 Rogue



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SATELLITE RADIO TUNER

< ECU DIAGNOSIS > [BOSE AUDIO]

[egg]		А
NTENNA PI/IPP-HU Signal Name [Specification]		В
M404 RADIO A GT13SSN		С
Connector No. Connector Type Connector Type H.S. H.S. To of Wir.		D
offcation)		Е
M403 WIRE TO WIRE GT13SCN-1/IPP-HU Signal Name [Specification]		F
No. Name		G
Connecton Connecton I terminal No. 1		Н
Specification)	Specification SignAL (-) SignAL (-) NE POWER	1
WIRE TO WIRE GTISSC-IVIS-HU Signal Name [Specification]	MICROPHONE Trickapw Signal Name [Specification] MICROPHONE SIGNAL (+) MICROPHONE SIGNAL (+) MICROPHONE POWER	J
Connector No. M402 Connector Name WIRE Connector Type GTI3 H.S. H.S. Terminal Color No. of Wire 1	Connector No. R3 Connector Name MIC Connector Type TK0 No. of Wire No. of Wire 1 B B 2 R 4 W	К
		L
Signal Name (Specification) ANTENNA AMP. ON SIGNAL.	WIRE 2 3 4 5 6 8 9 10 11 12 Signal Name [Specification]	М
	WIRE TO	AV
BOSE AUDIO Connector Non Connector Name AUDI Connector Type Terminal Color No. of Wife 51 - 52 - 52	Connector No. Connector Type Connector Type Connector Type Connector Type Color Connector Type Color Connector Type Color Connector Type Conn	0
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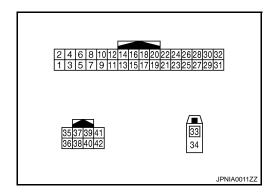
Revision: 2008 January AV-109 2008 Rogue

< ECU DIAGNOSIS > [BOSE AUDIO]

TEL ADAPTER UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal e color)	Description		Condition		Reference value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
1 (BR)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
2 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage	
3 (W)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage	
4 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
6	_	Shield	_	_	_	_	
7 (B)	8 (R)	Microphone signal	Input	Ignition switch ON	Give a voice	(V) 1 0 -1 *** 2ms SKIB3609E	
9 (BR)	10 (Y)	Sound signal (Telephone voice, tele- phone guidance)	Output	Ignition switch ON	During voice guide output with the w≤	(V) 1 0 -1 *** 2ms SKIB3609E	
11 (O)	Ground	Telephone ON signal	Output	Ignition switch	While using hands-free phone system	0 V	
(0)		<u>-</u>	-	ON	While not using hands-free phone system	5 V	

TEL ADAPTER UNIT

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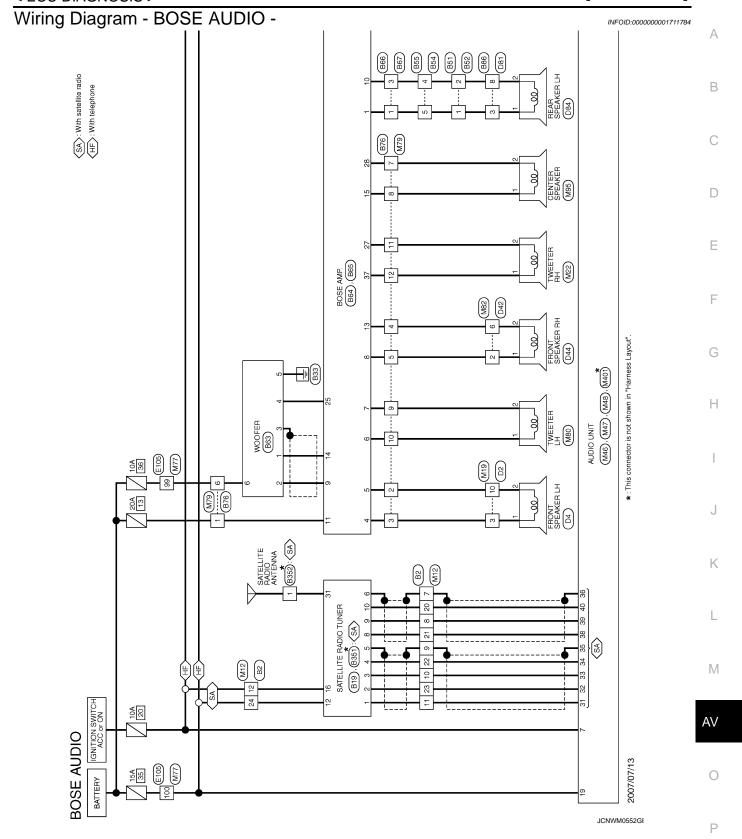
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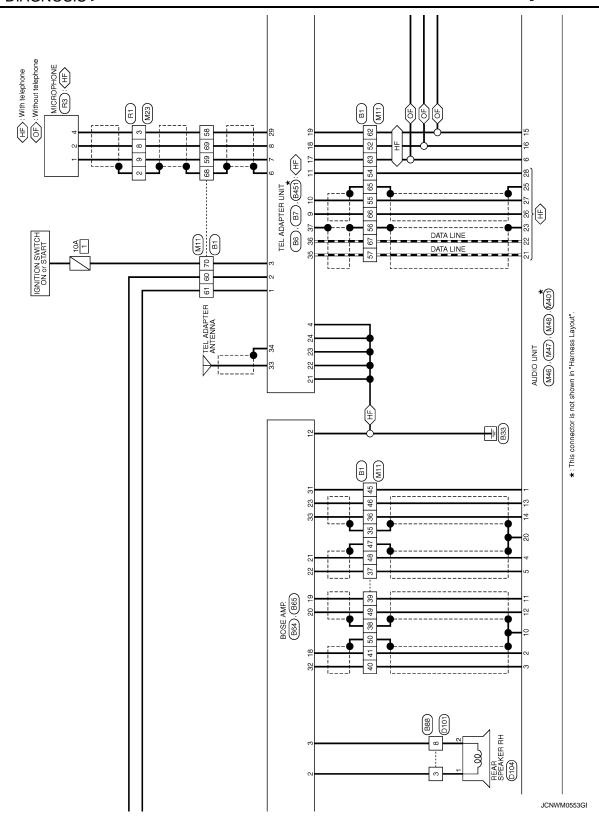
ECU [DIAGNO	SIS >				[BOSE AUDIO]		
	minal color)	Description			Condition	Reference value		
+	_	Signal name	Input/ Output			(Approx.)		
					Keep pressing A switch	0 V		
12	14	Steering switch signal A	Input	ignition	Keep pressing SEEK UP switch	1.25 V		
(W)	(GR)			ON	Keep pressing SEEK DOWN switch	2.5 V		
					Except for above	5 V		
					Keep pressing VOL DOWN switch	0 V		
				Ignition	Keep pressing VOL UP switch	1.25 V		
13 (Y)	14 (GR)	Steering switch signal B	Input	switch ON	Keep pressing w/2 (2.5 V		
					Keep pressing SOURCE switch	3.7 V		
					Except for above.	5 V		
14 (GR)	Ground	Steering switch signal ground	_	Ignition switch ON	_	0 V		
				Keep pressing SOURCE switch	0 V			
17	19	Steering switch signal A	Output	Output	Output	Ignition switch	Keep pressing SEEK UP switch	1.1 V
(W)	(GR)			ON	Keep pressing VOL UP switch	2.2 V		
					Except for above	3.3 V		
40	40			Ignition	Keep pressing SEEK DOWN switch	1.1 V		
18 (L)	19 (GR)	Steering switch signal B	Output	switch ON	Keep pressing VOL DOWN switch	2.2 V		
					Except for above	3.3 V		
19 (GR)	Ground	Steering switch signal ground	_	Ignition switch ON	_	0 V		
21 (B)	Ground	Ground	_	Ignition switch ON	_	0 V		
22 (B)	Ground	Ground	_	Ignition switch ON	_	0 V		
23 (B)	Ground	Ground	_	Ignition switch ON	_	0 V		
24 (B)	Ground	Ground	_	Ignition switch ON	_	0 V		

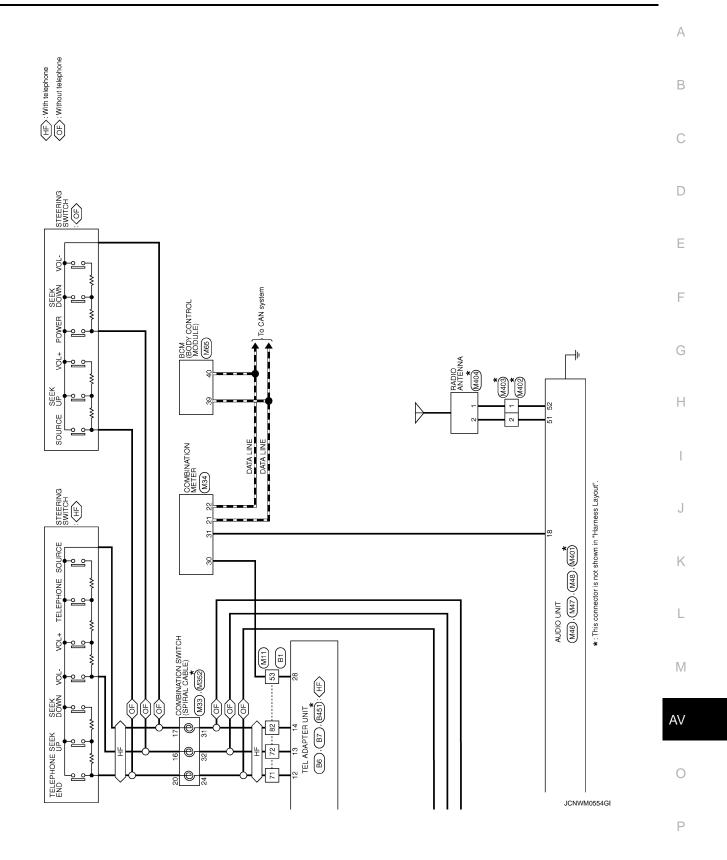
TEL ADAPTER UNIT

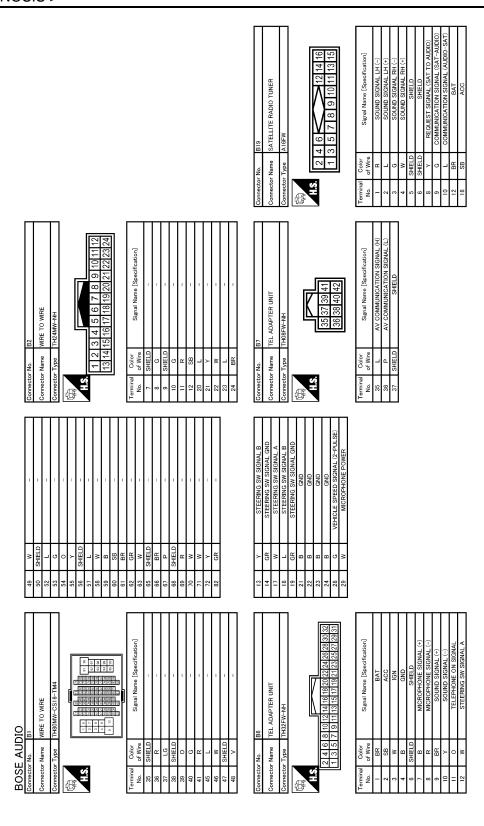
< ECU DIAGNOSIS > [BOSE AUDIO]

	minal e color)	Description		Condition		Condition Reference value		Reference value
+	-	Signal name	Input/ Output		Condition	(Approx.)		
28 (G)	Ground	Vehicle speed signal (2-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).		
29 (W)	Ground	Microphone power supply	Output	Ignition switch ON	_	5 V		
33	_	TEL antenna signal	Input	_	Not connected to TEL antenna connector	_		
34	_	Shield	_	_	_	_		
35 (L)	_	AV communication signal (H)	Input/ Output	_	_	_		
36 (P)	_	AV communication signal (L)	Input/ Output	_	_	_		
37	_	Shield	_	_	_	_		









JCNWM0555GI

	ation]				Α
35 10 9 8 7 6	Signal Name [Specification]				В
B55 WIRE TO V NS12FW-C	Oolor R				С
Connector No. Connector Name Connector Type	Terminal No. 4				D
13.5	oification)	SPEAKER RH (-)			Е
MYRE TO WIRE NSTRAW-CS 1 2 3	Signal Name (Specification)	GND SOUND SIGNAL WOOFER (-) SOUND SIGNAL WOOFER (-)			F
9 9	of Wire	B & R			G
Connector No.	Terminal No. 4 4 5 5	1 2 2 4 4			Н
	pecification]	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name (Specification) SOUND SIGNAL REAR SPEAKER LH (+) SOUND SIGNAL REAR SPEAKER RH (+) SOUND SIGNAL REAR SPEAKER RH (+) SOUND SIGNAL ROTH SPEAKER LH (+) SOUND SIGNAL REONT SPEAKER LH (+) SOUND SIGNAL TWEETER LH (+) SOUND SIGNAL TWEETER H (+) SOUND SIGNAL TWEETER RH (+) SOUND SIGNAL TWEETER LH (-) SOUND SIGNAL TREAT SPEAKER RH (+) SOUND SIGNAL TREAT SPEAKER RH (+)		I
BSZ WIPE TO WIPE NSGMAWF-CS	Signal Name [Specification]	BE84 BOSE AMP. SGA12FBR-SJA2 13 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 11	Signal Name (Specification) Signal Name (Specification) SOUND SIGNAL REAR SPEAKER HH (+) SOUND SIGNAL REAR SPEAKER HH (+) SOUND SIGNAL ROUT SPEAKER H (+) SOUND SIGNAL ROUT SPEAKER H (+)		J
Connector No. 652 Connector Name WIRE Connector Type NISSA	of Wire	Connector No. 964 Connector Name 90SI Connector Type 90SI (14 13	Color of Wire GR GR GR X X X X X X X X X X X X X X X		K
Conne	Terminal No. No. 2	Conne	Terminal No. 1		L
	Specification		Specification) L WOOFER (-) L WOOFER (-) L WOOFER (-) L D C ON SIGNAL D		M
BSI BSI WIRE TO WIRE NSOMEW-CS	Signal Name [Specification]	WOOFER RSOBEGY-PR	Signal Name (Specification) SOUND SIGNAL WOOFER (-) SOUND SIGNAL WOOFER (-) WOOFER AMP ON SIGNAL BAT BAT		AV
BOSE AUDIO Connector No. B51 Connector Name WIRE Connector Type INSQ	Dolor Color L L L L L L L L L L L L L L L L L L L	Connector No. B63 Connector Name WOC Connector Type RSD	10 10 10 10 10 10 10 10		0
Conne	Terminal No.	Conne	Terminal 76.00 No. 0. 10.00 No.	JCNWM0556GI	U
					Р

Revision: 2008 January AV-117 2008 Rogue

Connector No. 867 Connector Name WIRE TO WIRE Connector Type NSDBAW-CS H.S. 1 2 3 4 5 6	Terminal Color No. of Wire Signal Name [Specification]	Connector No. 888 Connector Name WIRE TO WIRE Connector Type INSIZMW-CS H.S. (6 7 8 9 10 11 12	Terminal Color Signal Name Specification
Connector No. B66 Connector Name WIRE TO WIRE Connector Type NSOBEW-CS A.S. A.S. Connector Type NSOBEW-CS	Terminal Color No. of Wire Signal Name [Specification]	Connector No. 886 Connector Name WIRE TO WIRE Connector Type NS12MW-CS H.S. 1 2 3 4 5 6 7 8 9 10 11 12	Terminal Color Nigral Name [Specification] 3 L – 8 R –
32 G SOUND SIGNAL FRONT LH (-) 33 R SOUND SIGNAL REAR RH (-) 37 O SOUND SIGNAL TWEETER RH (+)		- 0 21	
BOSE AUDIO Connector No. B65 Connector Name B0SE AMP. Connector Type SCA19FBR-SGA4 S	Terminal Color Signal Name [Speeification]	Connector No. 876 Connector Type NIRE TO WIRE Connector Type NST2MW-CS H.S. 1 2 3 4 5 6 7 8 9 10 11 12	Terminal Color Signal Name [Specification] 1 W - 2 W - 4 R - 5 G - 6 SB - 7 O - 8 V - 10 GR - 10 BR - 11 W -

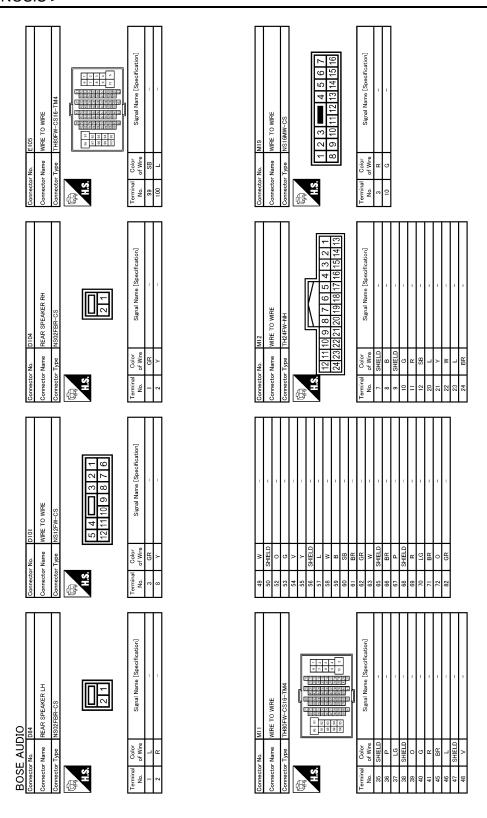
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TEL ADAPTER UNIT

< ECU DIAGNOSIS > [BOSE AUDIO]

Cornector No. D2 Connector Name WIFE TO WIFE Connector Type NSI BFW-CS Image: Connector Type Image: Connector Type Image: Connector Type Image: C	Of Wire B B B B B B B B B B B B B B B B B B B	Terminal Color No. or Wire 8 R 8 R	A B C
Corrector No. B451 Corrector Name TEL ADAPTER UNIT Corrector Type GT16C-1S-HU #1.5. 33 34 34 34 34 34 34 3	D44 FRONT S NS02FW	Terminal Color No. of Wire 1 G. Signal Name (Specification) 2 R. — — — —	E F G
Connector No. B352 Connector Name SATELLITE RADIO ANTENNA Connector Type GT16C-IPP-HU H.S.	Or Wire No. 042 179pe NSTGFW 14 5 1 1 1 1 1 1 1 1 1	Terminal Color No. of Wire 2 G G 6 R R	J K
BOSE AUDIO Connector No. B351 Connector Name SATELLITE RADIO TUNER Connector Type FAKEA JACK ALS. Terminal Color Terminal Color Connector Conn	D4 FRONT S NS02FW-	Terminal Color No. of Wire Signal Name [Specification] No. of Wire 2 P P P P P P P P P	M AV

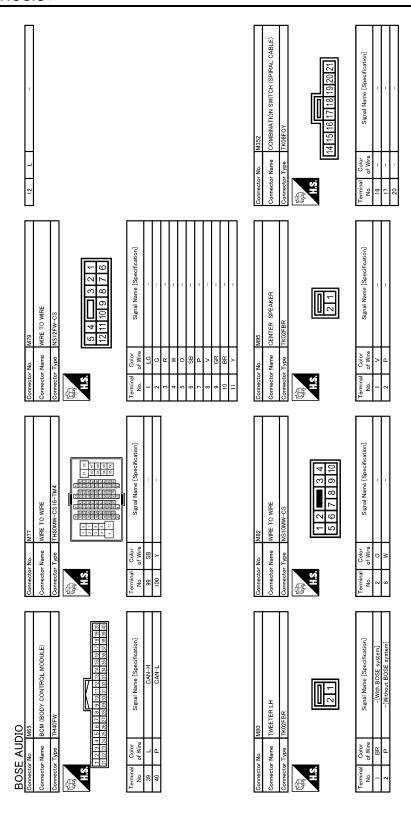
Revision: 2008 January AV-119 2008 Rogue



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24 (5) [40]	me [Specification] CAN-H CAN-L SPEED (3-PULSE) SPEED (4-PULSE)	40 42 38 39 41	Specification] NAL LH (-) SAT TO AUDIO) SATAL (SAT"-AUDIO) GNAL (SAT"-AUDIO) GNAL (SAT"-AUDIO)		A B
M34 COMBINATION METER SAB40FW SAB40FW	Color Signal Name Specification of Wire CANH	M48 ne AUDIO UNIT 32 34 4 5 31 33 35 36 37	Color Signal Name [Specification] R SOUND SIGNAL LH (-) C SOUND SIGNAL LH (-) SHELD SIGNAL LH (-) SHELD SHELD FEQUEST SIGNAL (SAT TO AUDIO) C COMMUNICATION SIGNAL (SAT-AUDIO) C COMMUNICATION SIGNAL (AUDIO-SAT) C C C C C C C C C C		С
Connector No. Connector Type A.S. 1 2 3	Terminal Co. No. of 22 22 22 30 31	Connector Name Connector Type	1 Ferminal Of No. of		D
(SPIRAL CABLE)	pecification)		predication) ION SIGNAL (1) D. D		Е
M33 COMBINATION SWITCH (SPIRAL CABLE) TK08FGY-1V 24 25 26 27 31 32 33 34	Signal Name [Specification]	мл новеч-ин 21222324 25262728	Signal Name (Specification) AV COMMUNICATION SIGNAL (H) AV COMMUNICATION SIGNAL (H) SOUND SIGNAL (L) SOUND SIGNAL (-) SOUND SIGNAL (-) TELEPHONE ON SIGNAL		F
ПаП	of Wire OR R GR C O	9 0 E	of Wire of Wire SHIELD SHIELD A Y Y		G
Connector No. Connector Type	Terminal No. 24 24 31 31 32	Connector No. Connector Type	Terminal No. No. 21 22 22 23 26 26 26 26 26 26 28 28 28 28 28		Н
8 2 1 8 2 1	Signal Name [Specification]	SOUND SIGNAL REAR RH (+) STEERING SW SIGNAL GND STEERING SW SIGNAL B VEHICLE SPEED SIGNAL (8-PULSE) BAT SHIELD			I
MZS WIRE TO WIRE THISPW-NH 6 5 4 7	Signal N	SOUND S STEERIN STEERIN VEHICLE SPE			J
Connector No. M Connector Type T	Terminal Calor No. of Ware No. of Ware SHELD 2 2 SHELD 9 8 8 9 P	15 GR P P P P P P P P P P P P P P P P P P			K
	F I		M H (+) (+) (+) (+) (+) (+) (+)		L
	Signal Name [Specification]	6 7 8 9 115161718	Signal Name [Spredication] AMP: ON SIGNAL SOUND SIGNAL FRONT LH (+) SOUND SIGNAL FRONT LH (+) SOUND SIGNAL REAR HH (+) SOUND SIGNAL REAR RH (+)		M
DIO M22 TWEFTER RH TROZFBR	Ш	M46 AUDIO UNIT THIBFW-CS2 1 2 3 4 5 1011121314			AV
BOSE AUDIO Connector No. M22 Connector Name TVE Connector Type TR62 H.S.	Terminal Color No. of Wire 2 2 Y	Connector Name Connector Type	Terminal Color No. of Wire No. of	_	0
— <u>61 0 101 125 - 3</u>				JCNWM0560GI	Р

Revision: 2008 January AV-121 2008 Rogue



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	А
NTENNA 1-1/1PP-HU Signal Name [Specification]	В
M404 RADIO A GT135SSN fire	С
Connector No. Connector Name Connector Type No. Of Wire 1 2 2 - 2 2	D
offication]	E
Wite TO WIRE GTI35CN-1/IPD-HU Signal Name [Specification]	F
الله الله الله الله الله الله الله الله	G
Connector Name Connector Type No. of W. of	Н
WIRE 1/15-HU Signal Name [Specification]	Signal Name (Specification) MICROPHONE SIGNAL (+) MICROPHONE POWER
202 1385C- 1385C- 1385C-	Signal Name MICROPHON MICROPHON MICROPHON
Connector No. M4 Connector Type GT H.S. H.S. Connector No. R3 Connector No. R3 Connector No. R3 Connector No. R4 Connector No	Terminal Color No. of Wire A A W W A A A A A A A A A A A A A A A
	Signal Name [Specification]
	AV
BOSE AUDIO Connector Name AUDI Connector Name AUDI Connector Name AUDI Si Si Color Si Connector Name WIFE	Terminal Color No. of Wire SHIELD SHIE
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Revision: 2008 January AV-123 2008 Rogue

[BOSE AUDIO]

SYMPTOM DIAGNOSIS

AUDIO SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000001700318

AUDIO SYSTEM

Symptoms Check items		Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	 Audio unit power supply and ground circuit. Refer to AV-49. "AUDIO UNIT: Diagnosis Procedure". BOSE amp. power supply and ground circuit. Refer to AV-49. "BOSE AMP.: Diagnosis Procedure". Amp. ON signal circuit. Refer to AV-64. "Diagnosis Procedure".
	Sound is not heard from woofer.	Sound signal woofer circuit Woofer amp. ON signal circuit. Refer to AV-65, "Diagnosis Procedure".
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.
	When "RADIO" switch is pressed, it change to satellite radio mode.	Satellite radio sound signal circuit Satellite radio antenna
Satellite radio is not received.	When "RADIO" switch is pressed, it does not change to satellite radio mode.	 Satellite radio tuner power supply and ground circuit. Refer to AV-50, "SATELLITE RADIO TUNER: Diagnosis Procedure". Request signal circuit. Refer to AV-63, "Diagnosis Procedure". Communication circuit between audio unit and satellite radio tuner. Refer to AV-61, "Diagnosis Procedure".

RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to AV-56, "Diagnosis Procedure".
Only specified switch cannot be operated.	Steering switch
"SEEK UP", "SEEK DOWN" and " " switches are not operated.	Steering switch signal A circuit (steering switch to TEL adapter unit). Refer to AV-52, "Diagnosis Procedure".
" 🌿 🌓 ", "VOL UP", "VOL DOWN", "SOURCE" switches are not operated.	Steering switch signal B circuit (steering switch to TEL adapter unit). Refer to AV-54, "Diagnosis Procedure".
"VOL UP", "SEEK UP" and "SOURCE" switches are not operated.	Steering switch signal A circuit (TEL adapter unit to audio unit). Refer to AV-58, "Diagnosis Procedure".
"VOL DOWN" and "SEEK DOWN" switches are not operated.	Steering switch signal B circuit (TEL adapter unit to audio unit). Refer to AV-59. "Diagnosis Procedure".

[BOSE AUDIO]

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HANS-FREE PHONE SYMPTOMS

Symptom Table

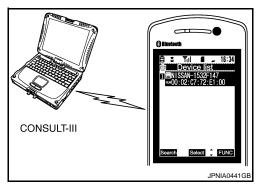
RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth[®] enabled) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a
 corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type
 phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or
 cellular phone. Check to ensure the customer's phone is supported by checking the phone compatibility for
 the hands-free system.

Simple check for Bluetooth® communication

If cellular phone and TEL adapter unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- 1. Turn on a cellular phone, not connecting Bluetooth® communication.
- 2. Start CONSULT-III, then start Windows®.
- 3. Set CONSULT-III near a cellular phone.
- 4. When operated Bluetooth[®] registration by cellular phone, check if CONSULT-III^{*} would be displayed on the device name. (If other Bluetooth[®] device is located near cellular phone, a name of the device would be displayed also.)
 NOTE:
 - *:Displayed device name is "NISSAN-******."
- If no device name is displayed, cellular phone is malfunction. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location/Action to take
Does not recognize cellular phone connection.	Repeat the registration of cellular phone.	TEL adapter unit
Hands-free phone cannot be	 Both the reception and the speech cannot be performed. Audio cannot be operated by steering switch. 	TEL adapter unit power supply and ground circuit. Refer to AV-50, "TEL ADAPTER UNIT: Diagnosis Procedure".
established.	 Both the reception and the speech cannot be performed. Audio can be operated by steering switch. 	Telephone ON signal circuit. Refer to AV-67, "Diagnosis Procedure".
The other party's voice cannot be heard by hands-free phone.	Audio system sound is normal.	Sound signal (telephone voice, telephone guidance) circuit
be fleatu by flatius-free priorie.	Audio system sound does not sound.	Refer to AV-124, "Symptom Table".
Originating sound is not heard	Sound operation function is normal.	TEL adapter unit
by the other party with hands- free phone communication.	Sound operation function does not work.	Microphone signal circuit. Refer to AV-66, "Diagnosis Procedure".
When hands-free phone is in use, the information (connection time etc.) is not displayed on the audio screen.		AV communication signal (H, L)

RELATED TO STEERING SWITCH

HANS-FREE PHONE SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO]

Symptoms	Possible malfunction location / Action to take
Only specified switch cannot be operated.	Steering switch
"SEEK UP", "SEEK DOWN" and " " switches are not operated.	Steering switch signal A (steering switch to TEL adapter unit) circuit. Refer to AV-52, "Diagnosis Procedure".
" w w ", "VOL UP", "VOL DOWN" SOURCE" switches are not operated.	Steering switch signal B (steering switch to TEL adapter unit) circuit. Refer to AV-54, "Component Inspection".

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO]

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NORMAL OPERATING CONDITION

Description INFOID:000000001700319

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning.
 Check that noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment. Then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check that the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the red book Compact Disc Standard and may not play.

Symptoms	Cause and Counter measure	
	Check that the CD was inserted correctly.	
Cannot play	Check that the CD is scratched or dirty.	
	Check that there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.	
	The player will play correctly after it returns to the normal temperature if there is a temperature increase error.	
	Only the music CD files (CD-DA data) will be played if there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD.	
	Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played.	
	Check that the finalization process, such as session close and disc close, is done for the disc.	
	Check that the CD is protected by copyright.	
Poor sound quality	Check that the CD is scratched or dirty.	
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multi session disc, some time may be required before the music starts playing.	
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.	

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

RELATED TO TELEPHONE

Symptom	Possible cause	Possible solution	
The voice on the other side is diffi- cult to be heard. The voice is difficult to reach the other side of the connection.	The interior of the vehicle is too noisy.	Close the windows or have other occupants be quiet.	С
	The volume of the voice is too low.	Speak louder.	
	Pronunciation is unclear.	Speak clearly.	Р

Revision: 2008 January AV-127 2008 Rogue

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PRECAUTIONS

< PRECAUTION > [BOSE AUDIO]

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

WARNING:

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

FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING.

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

PREPARATION

< PREPARATION > [BOSE AUDIO]

PREPARATION

PREPARATION

Commercial Service Tools

		Description
Power tool	PBIC0191E	Loosening bolts and nuts

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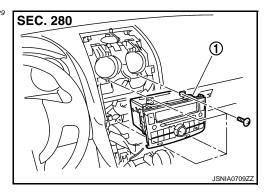
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ON-VEHICLE REPAIR

AUDIO UNIT

Exploded View

INFOID:0000000001724729



1. Audio unit

Removal and Installation

INFOID:0000000001700322

REMOVAL

- 1. Remove cluster lid C and cluster lid D. Refer to IP-12, "Exploded View".
- 2. Remove audio unit with bracket.
- 3. Remove bracket screws, and then remove audio unit.

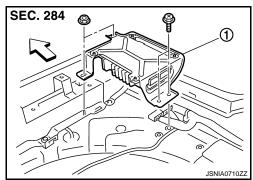
INSTALLATION

Install in the reverse order of removal.

BOSE AMP.

Exploded View

INFOID:0000000001724730



1. BOSE amp.

Removal and Installation

INFOID:0000000001700323

REMOVAL

1. Remove luggage floor spacer assembly (FR, RH). Refer to INT-32, "Removal and Installation".

2. Remove BOSE amp.

INSTALLATION

Install in the reverse order of removal.

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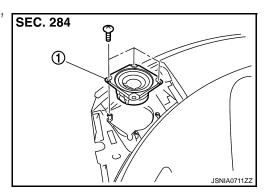
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TWEETER

Exploded View

INFOID:0000000001724731



Tweeter

Removal and Installation

INFOID:0000000001700325

REMOVAL

- 1. Remove instrument panel. Refer to IP-13, "Removal and Installation".
- 2. Remove tweeter from instrument panel.

INSTALLATION

Installation is the reverse order of removal.

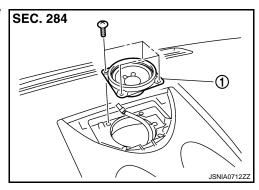
CENTER SPEAKER

< ON-VEHICLE REPAIR > [BOSE AUDIO]

CENTER SPEAKER

Exploded View

INFOID:0000000001724732



Center speaker

Removal and Installation

REMOVAL

- 1. Remove center speaker grille. Refer to IP-12, "Exploded View".
- 2. Remove center speaker.

INSTALLATION

Installation is the reverse order of removal.

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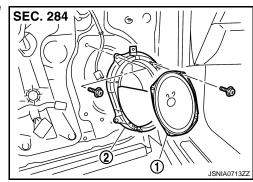
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[BOSE AUDIO]

FRONT SPEAKER

Exploded View

INFOID:0000000001724733



- Front speaker
- 2. Bracket

Removal and Installation

INFOID:0000000001700327

REMOVAL

- 1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Remove front door speaker from bracket.

INSTALLATION

Install in the reverse order of removal.

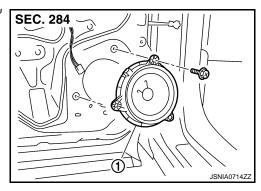
REAR SPEAKER

< ON-VEHICLE REPAIR > [BOSE AUDIO]

REAR SPEAKER

Exploded View

INFOID:0000000001724734



Rear speaker

Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER: Removal and Installation".
- 2. Remove rear speaker.

INSTALLATION

Installation is the reverse order of removal.

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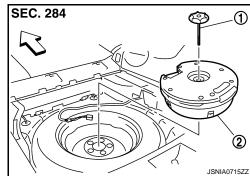
ΑV

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WOOFER

Exploded View

INFOID:0000000001724735



- Vehicle front
- 1. Clamp
- 2. Woofer

Removal and Installation

INFOID:0000000001700331

REMOVAL

- 1. Remove luggage floor center box. Refer to INT-32, "Removal and Installation".
- 2. Remove clamp, and then remove woofer.

INSTALLATION

Install in the reverse order of removal.

SATELLITE RADIO TUNER

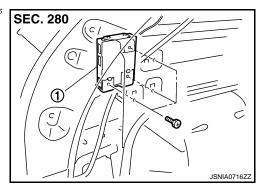
< ON-VEHICLE REPAIR >

[BOSE AUDIO]

SATELLITE RADIO TUNER

Exploded View

INFOID:0000000001724736



Satellite radio tuner

Removal and Installation

INFOID:0000000001700332

REMOVAL

- 1. Remove luggage side lower finisher (LH). Refer to INT-32, "Removal and Installation".
- 2. Remove satellite radio tuner.

INSTALLATION

Install in the reverse order of removal.

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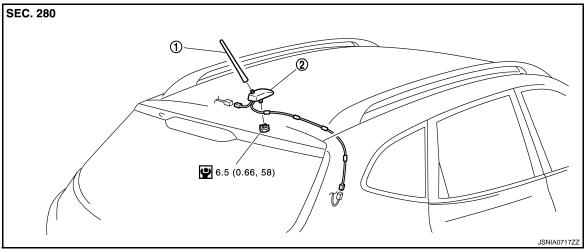
M

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RADIO & SATELLITE RADIO ANTENNA

Exploded View



1. Antenna lod

2. Antenna base & satellite radio antenna

Removal and Installation

INFOID:0000000001700333

REMOVAL

- 1. Remove headlining assembly. Refer to INT-24, "NORMAL ROOF: Removal and Installation" (normal roof models) or INT-27, "SUNROOF: Removal and Installation" (sunroof models).
- 2. Remove nuts, and then remove radio & satellite radio antenna.

INSTALLATION

Installation is the reverse order of removal.

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when roof antenna mounting nut tightening torque is loose.

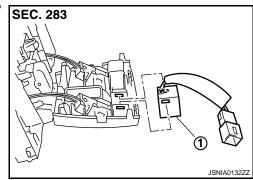
STEERING SWITCH [BOSE AUDIO] < ON-VEHICLE REPAIR > STEERING SWITCH Α **Exploded View** INFOID:0000000001724841 Refer to SR-5, "Exploded View". В Removal and Installation INFOID:0000000001724842 С **REMOVAL** Refer to SR-5, "Removal and Installation". **INSTALLATION** D Installation is the reverse order of removal. Е F G Н J K L M ΑV

0

MICROPHONE

Exploded View

INFOID:0000000001724739



1. Microphone

Removal and Installation

INFOID:0000000001700339

REMOVAL

- 1. Remove map lamp. Refer to INL-65, "Removal and Installation".
- 2. Remove microphone from map lamp.

INSTALLATION

Installation is the reverse order of removal.

TEL ADAPTER UNIT

< ON-VEHICLE REPAIR >

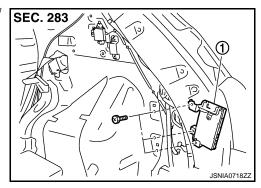
[BOSE AUDIO]

INFOID:0000000001700341

TEL ADAPTER UNIT

Exploded View

INFOID:0000000001724741



1. TEL adapter unit

Removal and Installation

REMOVAL

- 1. Remove luggage side lower finisher (RH). Refer to INT-32, "Removal and Installation".
- 2. Remove TEL adapter unit.

INSTALLATION

Install in the reverse order of removal.

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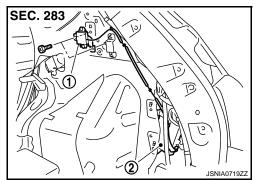
C

[BOSE AUDIO]

TEL ANTENNA

Exploded View

INFOID:0000000001724740



- 1. TEL antenna
- 2. TEL adapter unit

Removal and Installation

INFOID:0000000001700340

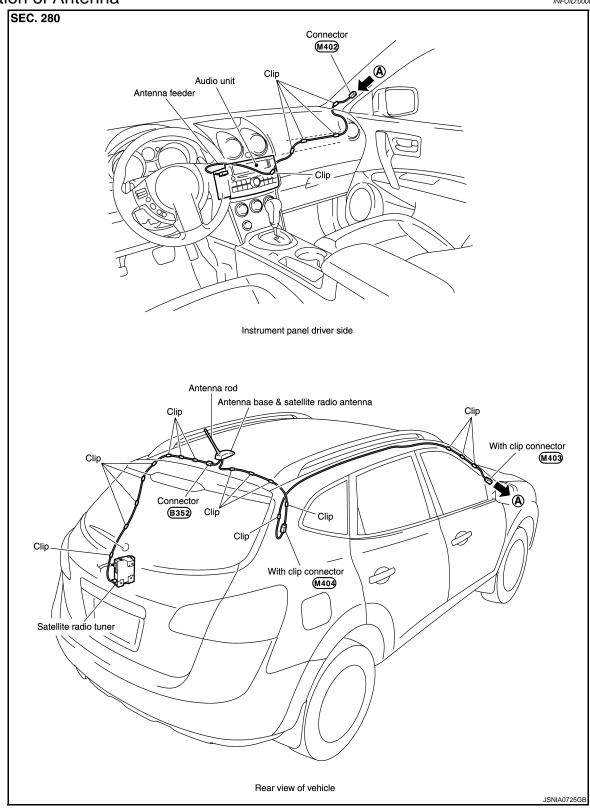
REMOVAL

- 1. Remove luggage side upper finisher (RH). Refer to INT-32, "Removal and Installation".
- 2. Remove TEL antenna.

[BOSE AUDIO]

ANTENNA FEEDER

Location of Antenna



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