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AUDIO, VISUAL, NAVIGATION & TELEPHONE SYS-**TEM**

CONTENTS

PRECAUTIONS	2	Noise Inspection	28
Precautions for Supplemental Restraint System		TYPE OF NOISE AND POSSIBLE CAUSE	28
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-		Power Supply Circuit Inspection	28
SIONER"	2	Satellite Radio Tuner (Factory Installed) Power and	
PREPARATION	3	Ground Supply Circuit Inspection	
Commercial Service Tool	3	Satellite Radio Tuner (Factory Installed) Commu-	
AUDIO		nication Circuit Inspection	
Component Parts and Harness Connector Location.		Satellite Radio Tuner (Factory Installed) Left Chan-	
System Description		nel Audio Signal Circuit Inspection	
BASE SYSTEM		Satellite Radio Tuner (Factory Installed) Right	
PREMIUM SYSTEM	5	Channel Audio Signal Circuit Inspection	34
Schematic	7	Steering Switch Check (Premium System)	
PREMIUM SYSTEM	7	Sound Is Not Heard From Front Door Speaker or	
Wiring Diagram — AUDIO —	8	Front Tweeter (Base System)	37
BAŠE SYSTEM		Sound Is Not Heard From Rear Door Speaker (Base	
PREMIUM SYSTEM	. 10	System)	
Terminals and Reference Value for Audio Unit (Base		Sound Is Not Heard From Front Door Speaker or	
System)	. 18	Front Tweeter (Premium System)	41
Terminals and Reference Value for Audio Unit (Pre-		Sound Is Not Heard From Rear Door Speaker or	
mium System)	. 19	Rear Door Tweeter (Premium System)	44
Terminals and Reference Value for Audio Amplifier		Sound Is Not Heard From Subwoofer (Premium	
(Premium System)	. 21	System)	48
Terminals and Reference Value for Satellite Radio		Removal and Installation	49
Tuner	. 23	AUDIO AMPLIFIER	49
Audio Unit Self-Diagnosis Function (Premium Sys-		AUDIO UNIT	49
tem)		FRONT DOOR SPEAKER	49
STARTING THE SELF-DIAGNOSIS MODE	. 25	FRONT TWEETER	50
EXITING THE SELF-DIAGNOSIS MODE	. 25	REAR DOOR SPEAKER	50
DIAGNOSIS FUNCTION	. 25	REAR DOOR TWEETER (PREMIUM SYSTEM).	50
Trouble Diagnosis	. 26	SATELLITE RADIO ANTÈNNA	51
MALFUNCTION WITH RADIO AND CD (BASE		SATELLITE RADIO TUNER	51
SYSTEM)	. 26	STEERING WHEEL SWITCHES	51
MALFUNCTION WITH RADIO AND CD (PRE-		SUBWOOFER (PREMIUM SYSTEM)	52
MIUM SYSTEM)	. 26	AUDIO ANTENNA	53
FOR RADIO ONLY		Location of Audio Antenna System Components	
FOR CD ONLY	. 27	Removal and Installation	
FOR SATELLITE RADIO TUNER (FACTORY		AUDIO ANTENNA	53
INSTALLED) ONLY	. 27		

TYPE OF NOISE AND POSSIBLE CAUSE	28
Power Supply Circuit Inspection	28
Satellite Radio Tuner (Factory Installed) Power and	
Ground Supply Circuit Inspection	29
Satellite Radio Tuner (Factory Installed) Commu-	
nication Circuit Inspection	31
Satellite Radio Tuner (Factory Installed) Left Chan-	
nel Audio Signal Circuit Inspection	33
Satellite Radio Tuner (Factory Installed) Right	
Channel Audio Signal Circuit Inspection	34
Steering Switch Check (Premium System)	
Sound Is Not Heard From Front Door Speaker or	
Front Tweeter (Base System)	37
Sound Is Not Heard From Rear Door Speaker (Base	
System)	39
Sound Is Not Heard From Front Door Speaker or	
Front Tweeter (Premium System)	41
Sound Is Not Heard From Rear Door Speaker or	
Rear Door Tweeter (Premium System)	44
Sound Is Not Heard From Subwoofer (Premium	
System)	48
Removal and Installation	49
AUDIO AMPLIFIER	49
AUDIO UNIT	49
FRONT DOOR SPEAKER	49
FRONT TWEETER	
REAR DOOR SPEAKER	
REAR DOOR TWEETER (PREMIUM SYSTEM)	50
SATELLITE RADIO ANTENNA	51
SATELLITE RADIO TUNER	51
STEERING WHEEL SWITCHES	
SUBWOOFER (PREMIUM SYSTEM)	52
UDIO ANTENNA	53
Location of Audio Antenna System Components	53
Removal and Installation	
AUDIO ANTENNA	

PRECAUTIONS

PRECAUTIONS PFP:00001

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

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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 and SB section of this Service Manual.

WARNING:

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

PREPARATION

PREPARATION	PFP:00002			
Commercial Service	e Tool		EKS00DKF	А
Tool name		Description		
Power tool		Loosening bolts and nuts		В
				С
	PBIC0191E			D

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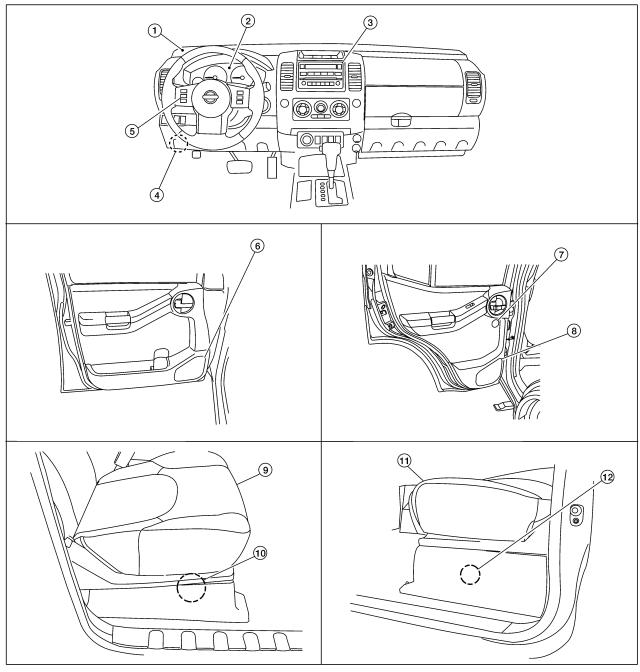
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AUDIO PFP:28111

Component Parts and Harness Connector Location

EKS00H07



WKIA5078E

- Front tweeter LH M109 **RH M111**
- Satellite radio tuner (factory installed) or Satellite radio tuner (pre-wiring) M41
- Rear door tweeter LH D208 **RH D308**
- 10. Audio amplifier (premium system) B158, B159

- Combination meter M24
- Steering wheel audio control switches 6.
- Rear door speaker LH D207 RH D307
- 11. Driver seat

- Audio unit M42, M43, M44, M45
- Front door speaker LH D12 RH D112
- Passenger seat
- 12. Subwoofer (premium system) B72

System Description EKS00DKH Α BASE SYSTEM Refer to Owner's Manual for audio system operating instructions. Power is supplied at all times through 20A fuse (No. 29, located in the fuse and fusible link box) to audio unit terminal 6. With the ignition switch in the ACC or ON position, power is supplied through 10A fuse [No. 4, located in the fuse block (J/B)] to audio unit terminal 10. Ground is supplied through the case of the audio unit. Then audio signals are supplied through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16 to terminals + and - of front door speaker LH and RH Е to terminals + and - of front tweeter LH and RH to terminals + and - of rear door speaker LH and RH. PREMIUM SYSTEM Refer to Owner's Manual for audio system operating instructions. Power is supplied at all times through 15A fuse [No. 17, located in the fuse block (J/B)] to audio amplifier terminals 1 and 17 through 20A fuse (No. 29, located in the fuse and fusible link box) Н to audio unit terminal 6. With the ignition switch in the ACC or ON position, power is supplied through 10A fuse [No. 4, located in the fuse block (J/B)] to audio unit terminal 10. Ground is supplied through the case of the audio unit. Ground is also supplied to audio amplifier terminals 4 and 20 through body grounds B117 and B132. Then audio signals are supplied through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16 to audio amplifier terminals 5, 6, 7, 8, 21, 22, 23 and 24. Audio signals are amplified by the audio amplifier. The amplified audio signals are supplied through audio amplifier terminals 2, 3, 11, 12, 13, 14, 15, 16, 18, 19, 27, 28, 29, 30, 31 and 32

- to terminals + and of front door speaker LH and RH
- to terminals + and of front tweeter LH and RH
- to terminals + and of rear door speaker LH and RH
- to terminals + and of rear door tweeter LH and RH
- to terminals 1, 2, 3 and 4 of subwoofer.

When one of steering wheel audio control switches is pushed, the resistance in steering switch circuit changes depending on which button is pushed.

Satellite Radio Tuner (Pre-wiring)

The satellite radio tuner pre-wiring allows connection of a satellite radio tuner. Power is supplied at all times

- ower is supplied at all tillies
- through 15A fuse [No. 17, located in the fuse block (J/B)]
- to satellite radio tuner pre-wiring terminal 32.

With the ignition switch in the ACC or ON position, power is supplied

- through 10A fuse [No. 4, located in the fuse block (J/B)]
- to satellite radio tuner pre-wiring terminal 36.

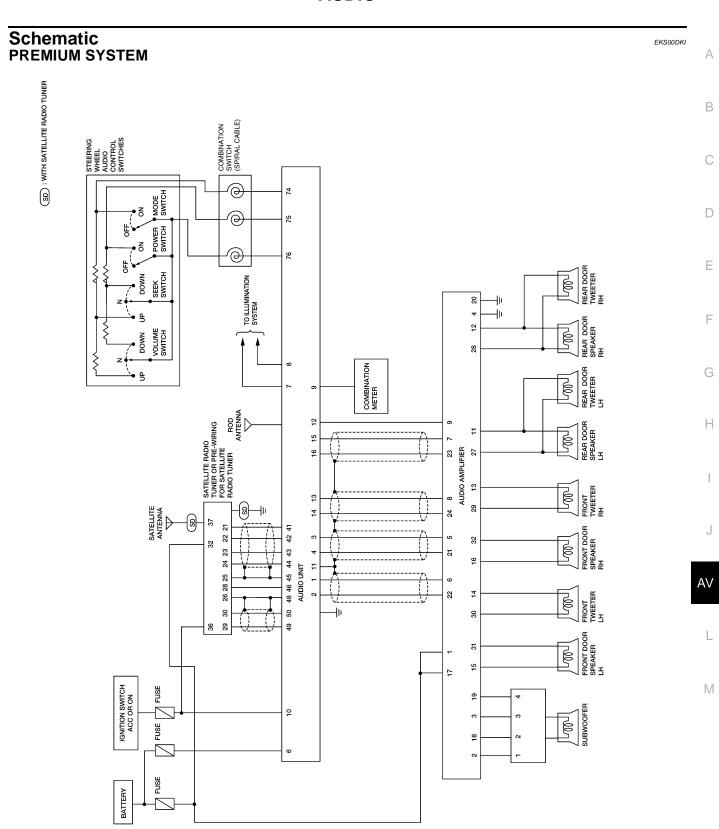
Revision: September 2005 AV-5 2006 Xterra

Ground is supplied through the case of the satellite radio tuner. Then audio signals are supplied

- through satellite radio tuner pre-wiring terminals 21, 22, 23 and 24
- to audio unit terminals 41, 42, 43 and 44.

Speed Sensitive Volume System

Volume level of this system goes up and down automatically in proportion to the vehicle speed. The control level can be selected by the customer. Refer to Owner's Manual for operating instructions.

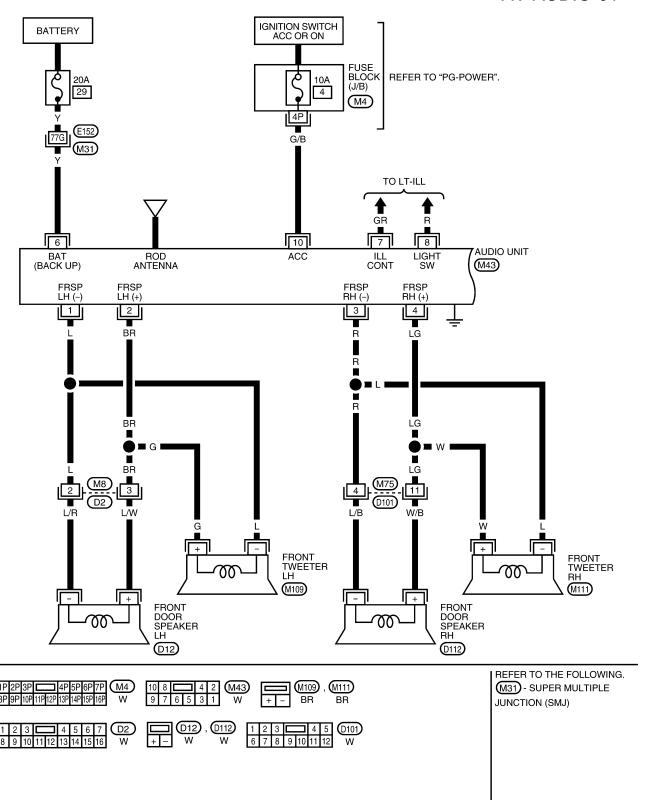


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Wiring Diagram — AUDIO — BASE SYSTEM

EKS00DKJ

AV-AUDIO-01



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(D307)

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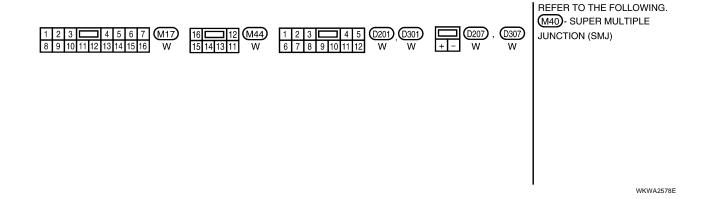
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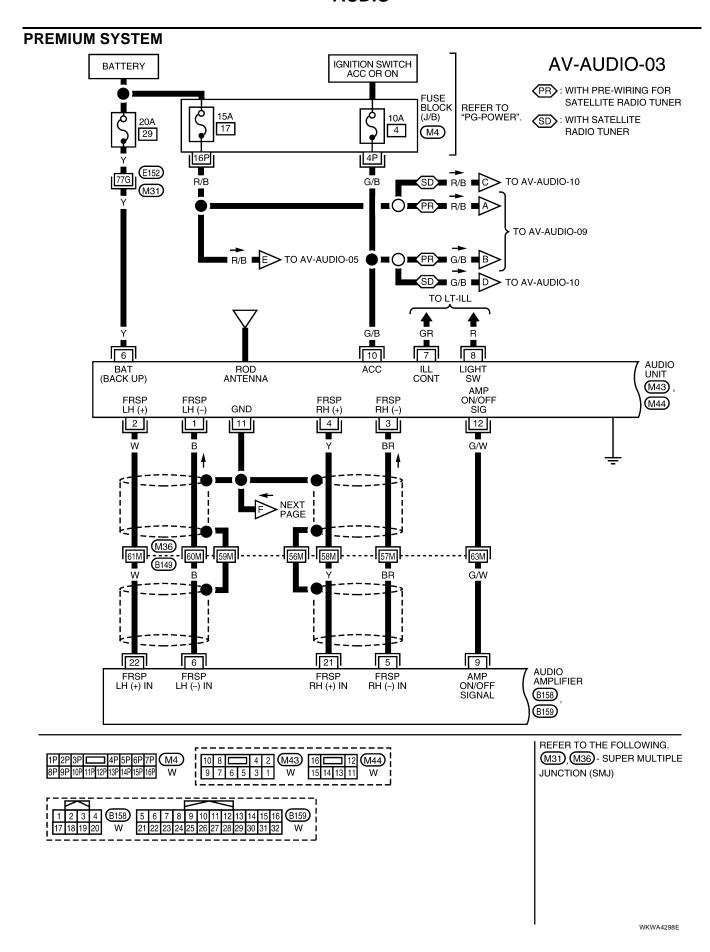
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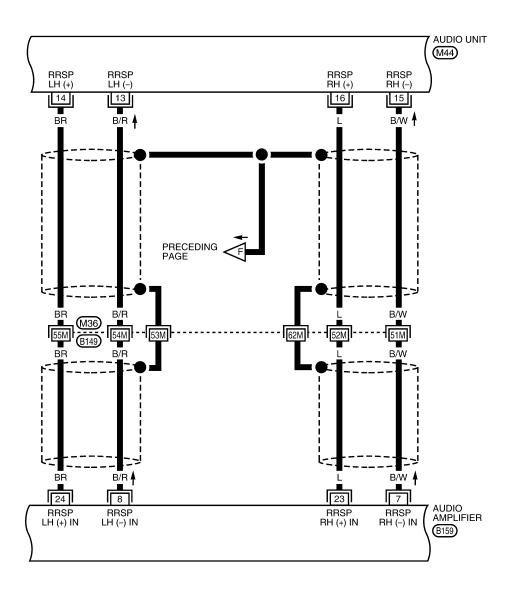
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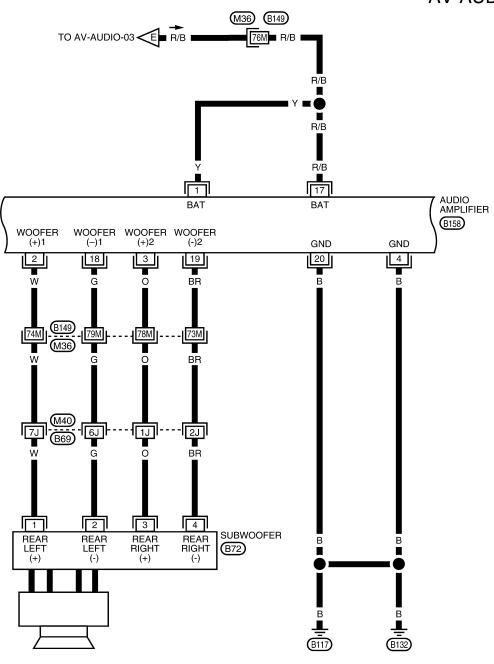
16 12 M44 5 6 7 8 9 10 11 12 13 14 15 16 B159 W 21 22 23 24 25 26 27 28 29 30 31 32 W

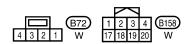
REFER TO THE FOLLOWING.

(M36) - SUPER MULTIPLE

JUNCTION (SMJ)

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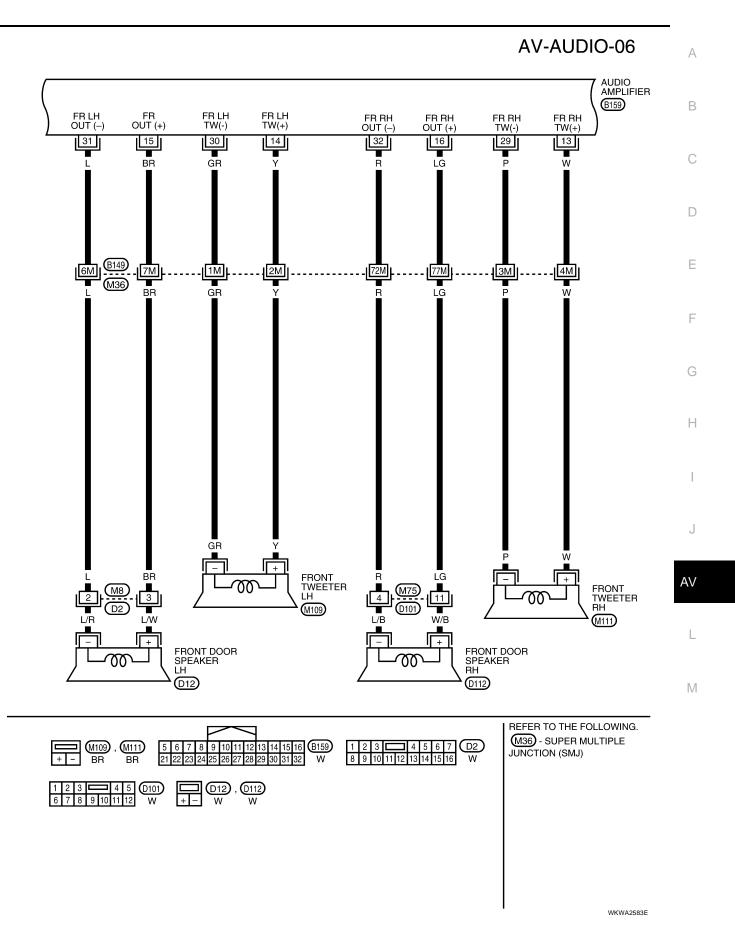


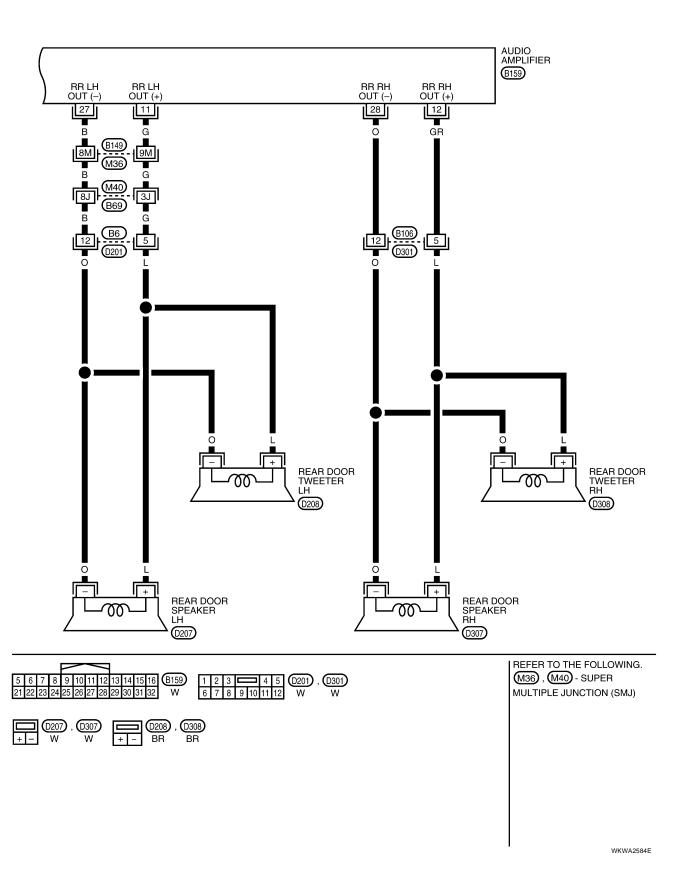


REFER TO THE FOLLOWING.

(M36), (M40) - SUPER MULTIPLE
JUNCTION (SMJ)

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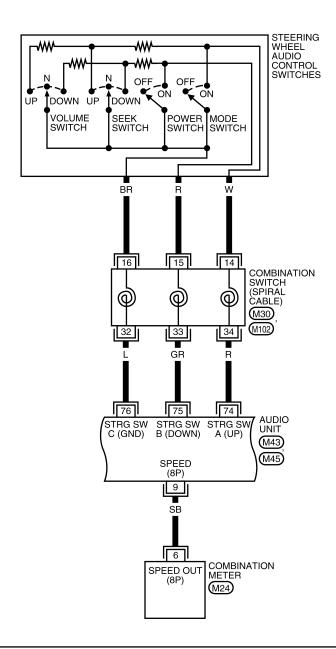
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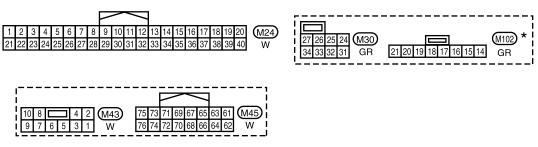
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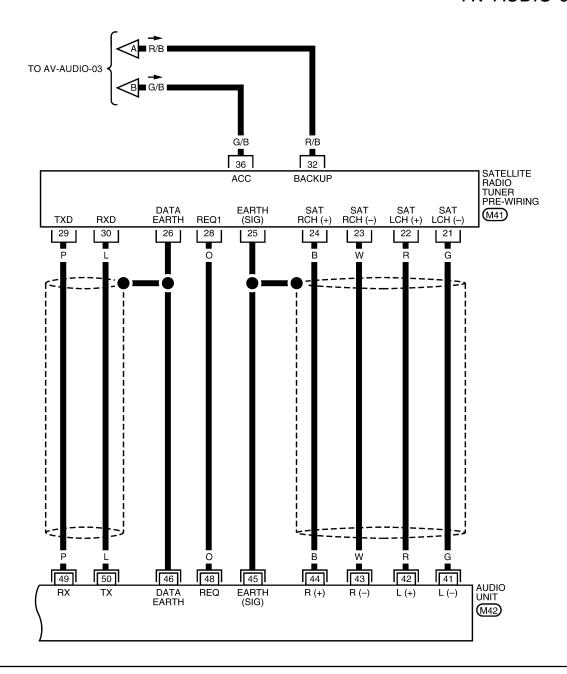
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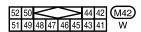


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

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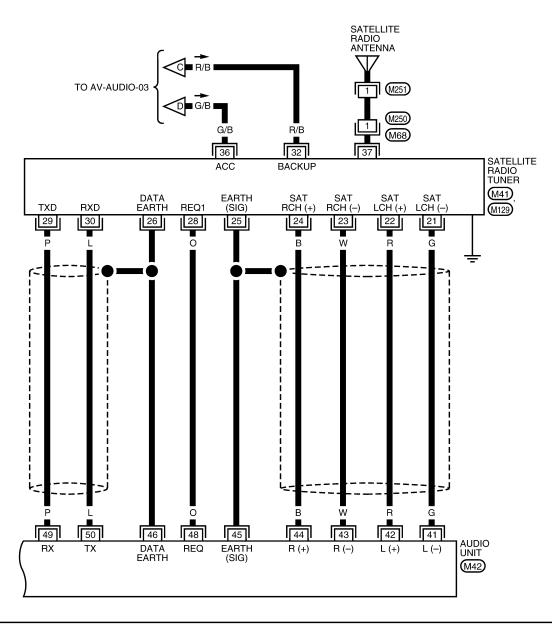
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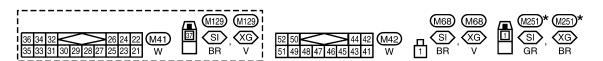
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SI : WITH SIRIUS SATELLITE RADIO TUNER

XG : WITH XM SATELLITE RADIO TUNER





*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WKWA4302E

Terminals and Reference Value for Audio Unit (Base System) EKS00DKK Terminal Condition Signal (Wire color) Reference value Item input/ Example of symptom (Approx.) Ignition output Operation + switch Audio sound No sound from front Receive audio 2 (BR) Output ON 1 (L) signal front door speaker LH or signal LH front tweeter LH. Audio sound No sound from front Receive audio ON 4 (LG) 3 (R) signal front Output door speaker RH or signal RH front tweeter RH. SKIA0177E Battery System does not 6 (Y) Ground Input Battery voltage work properly. power Illumination control switch Audio unit illumina-Illumination is operated by 7 (GR) Ground control sig-Input ON Changes between 0 and 12V tion cannot be conlighting switch trolled. nal in 1st position. Lighting switch Audio unit illuminais in 1st posi-Battery voltage tion does not come Illumination tion. OFF 8 (R) Ground Input on when lighting signal switch is in 1st posi-Lighting switch 3V or less tion. is OFF. Ignition switch System does not ACC 10 (G/B) Ground ACC power Input Battery voltage ACC or ON work properly. Audio sound No sound from rear Receive audio ON 14 (G) 13 (B) signal rear Output signal door speaker LH. LH SKIA0177E Audio sound Receive audio No sound from rear 16 (GR) 15 (O) signal rear Output ON signal door speaker RH. RH

	ninal color)		Signal		Condition	Reference value	
+	_	Item	input/ output	Ignition switch	Operation	(Approx.)	Example of symptom
2 (W)	1 (B)	Audio sound signal front LH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from front door speaker LH or front tweeter LH.
4 (Y)	3 (BR)	Audio sound signal front RH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms	No sound from front door speaker RH or front tweeter RH.
6 (Y)	Ground	Battery power	Input	_	_	Battery voltage	System does not work properly.
7 (GR)	Ground	Illumination control sig- nal	Input	ON	Illumination control switch is operated by lighting switch in 1st position.	Changes between 0 and 12V	Audio unit illumina- tion cannot be con- trolled.
8 (R)	Ground	Illumination signal	Input	OFF	Lighting switch is in 1st position. Lighting switch is OFF.	Battery voltage 3V or less	Audio unit illumination does not come on when lighting switch is in 1st position.
9 (SB)	Ground	Vehicle speed sig- nal	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	Vehicle speed : approx 40km/h a = 3.5V b = 1.5V SKIA0168E	Speed sensitive volume inoperative.
10 (G/B)	Ground	ACC power	Input	ACC	_	Battery voltage	System does not work properly.
11	_	Shield ground	_	_	_	_	-
12 (G/W)	Ground	Amp. ON/ OFF signal	Output	ON	_	More than 6.5V	Audio amplifier does not work properly.
14 (BR)	13 (B/R)	Audio sound signal rear LH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms	No sound from rear door speaker LH or rear door tweeter LH.

	minal e color)	11	Signal		Condition	Reference value		
+	_	Item	input/ output	Ignition switch	Operation	(Approx.)	Example of symptom	
16 (L)	15 (B/W)	Audio sound signal rear RH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from rear door speaker RH or rear door tweeter RH.	
42 (R)	41 (G)	Audio left channel sound sig- nal from sat- ellite radio tuner	Input	ON	Receive audio signal	(V) 1 0 -1 1 ms	No sound from satellite radio tuner left channel.	
44 (B)	43 (W)	Audio right channel sound sig- nal from sat- ellite radio tuner	Input	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from satel- lite radio tuner right channel.	
45	-	Shield ground (audio sig- nal)	_	_	_	_	_	
46	_	Shield ground (data)	_	_	_	_	_	
48 (O)	Ground	Satellite radio tuner request to audio unit	Input	ON	Turn audio unit ON	5V	Satellite radio tuner does not operate properly.	
49 (P)	Ground	Audio RX	Input	ON	Operate audio volume	(V) 6 4 2 0 → 5ms SKIA4403E	Satellite radio tuner audio information does not display properly.	
50 (L)	Ground	Audio TX	Output	ON	Operate audio volume	(V) 6 4 2 0 +	Satellite radio tuner audio information does not display properly.	

	ninal color)	ltom	Signal		Condition	Reference value	Everyle of everyters
+	_	Item	input/ output	Ignition switch	Operation	(Approx.)	Example of symptom
					Press MODE switch	OV	
74 (R)	Ground	Remote control A	Input	ON	Press SEEK UP switch	0.75V	Steering wheel audio controls do not func-
		CONITOL A			Press VOL UP switch	2V	tion.
					Except for above	5V	
					Press POWER switch	OV	
'5 (GR)	Ground	Remote	Input	ON	Press SEEK DOWN switch	0.75V	Steering wheel audio controls do not func-
		control B			Press VOL DOWN switch	2V	tion.
					Except for above	5V	
76 (L)	_	Remote control ground	_	_	-	-	Steering wheel audio controls do not function.
		T Kelelel	ICE V	ilue 10	r Audio Amp	olifier (Premium Sys	tem) EKS00E17
Ter	minal e color)	ltem	Sign	nal ut/	Condition	Reference value	Example of
Ter	minal		Sign	nal ut/	Condition		
Ter (wire	minal		Sign	nal ut/ lgnitic switc	Condition	Reference value	Example of
Ter (wire	minal e color) –	- Item	Sign inpu outp	ut Ignitic switc	Condition	Reference value (Approx.)	Example of symptom System does not
Ter (wire + 1 (Y)	minal e color) - Ground	- Item Battery	Sign inpu outp	lgnitic switc	Condition Operation - Receive audio	Reference value (Approx.) Battery voltage	Example of symptom System does not work properly.
1 (Y) 2 (W)	minal e color) Ground 18 (G)	- Item Battery Subwoofer	Sign inpu outp	lgnitic switc	Condition Operation Receive audio signal Receive audio	Reference value (Approx.) Battery voltage (V) 1 0 -1 1 ms SKIA0177E	Example of symptom System does not work properly. No sound from subwoofer.

Receive audio

signal

No sound from rear door speaker

LH or rear door

tweeter LH.

SKIA0177E

Rear door

11 (G)

27 (B)

speaker LH

tweeter LH

and rear door

Output

ON

	ninal color)	Item	Signal	(Condition	Reference value	Example of	
+	_	item	input/ output	Ignition switch	Operation	(Approx.)	symptom	
12 (GR)	28 (O)	Rear door speaker RH and rear door tweeter RH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms skia0177E	No sound from rear door speaker RH or rear door tweeter RH.	
13 (W)	29 (P)	Front tweeter RH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms	No sound from front tweeter RH.	
14 (Y)	30 (GR)	Front tweeter LH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms	No sound from front tweeter LH.	
15 (BR)	31 (L)	Front door speaker LH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from front door speaker LH.	
16 (LG)	32 (R)	Front door speaker RH	Output	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from front door speaker RH.	
17 (R/B)	Ground	Battery	Input	_	_	Battery voltage	System does not work properly.	
20 (B)	Ground	Ground	_	ON	_	_	_	
21 (Y)	5 (BR)	Audio sound signal front RH	Input	ON	Receive audio signal	(V) 1 0 -1 1 ms	No sound from front door speaker RH or front tweeter RH.	

	ninal color)	tem	Signal input/	(Condition	Reference value	Example of	/
+	_	nem	output	Ignition switch	Operation	(Approx.)	symptom	
22 (W)	6 (B)	Audio sound signal front LH	Input	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from front door speaker LH or front tweeter LH.]
23 (L)	7 (B/W)	Audio sound signal rear RH	Input	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from rear door speaker RH or rear door tweeter RH.	E
24 (BR)	8 (B/R)	Audio sound signal rear LH	Input	ON	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	No sound from rear door speaker LH or rear door tweeter LH.	(-

Terminals and Reference Value for Satellite Radio Tuner

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	minal color)	Itom	Signal		Condition	Voltage
+	_	- Item	input/ output	Ignition switch	Operation	(approx.)
22 (R)	21 (G)	Audio signal LH	Output	ON	Receive audio signal.	(V) 1 0 -1 + 2ms skiB3609E
24 (B)	23 (W)	Audio signal RH	Output	ON	Receive audio signal.	(V) 1 0 -1 + 2ms SKIB3609E
25	_	Shield	_	_	_	-
26		0.110.0		ON		Approx. 0 V

	ninal color)	Item	Signal input/		Condition	Voltage
+	ı	nem	output	Ignition switch	Operation	(approx.)
28 (O)	Ground	REQ1 (SAT-AUDIO)	Output	ON	Set to the satellite radio mode	(V) 15 10 5 0 *** 20ms SKIB3825E
29 (P)	Ground	Communication signal (SAT-AUDIO)	Output	ON	Set to the satellite radio mode	(V) 15 10 5 0
30 (L)	Ground	Communication signal (AUDIO-SAT)	Input	ON	Set to the satellite radio mode	(V) 15 10 5 0 +10ms ± SKIB3826E
32 (R/B)	Ground	Battery power supply		OFF	_	Battery voltage
36 (G/B)	Giodila	ACC power supply	Input	ACC	_	Dattery voltage
37	_	Antenna signal		_	-	_

Audio Unit Self-Diagnosis Function (Premium System)

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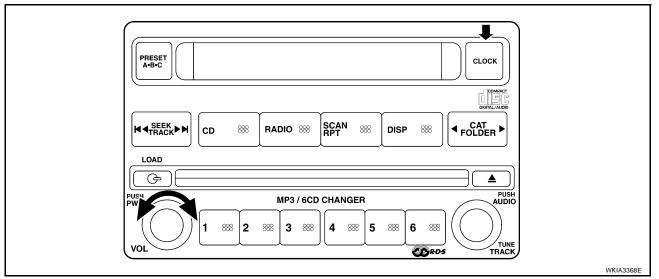
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It can check ON/OFF operation of each switch in the audio unit and diagnose the input signals from the steering switch.

STARTING THE SELF-DIAGNOSIS MODE

- 1. Turn ignition switch from OFF to ACC.
- 2. Press and hold the "CLOCK" switch and turn the volume control dial clockwise or counterclockwise for 30 clicks or more.



Then the self-diagnosis operates. A single beep indicates self-diagnosis mode is active.

- 3. Initially, all display segments will be illuminated.
- 4. Press each switch. When each switch is pressed, its name and communication code will be displayed.

NOTE:

CD player LOAD and EJECT buttons are not included in this test and will not change the display when pressed.

EXITING THE SELF-DIAGNOSIS MODE

Turn ignition switch OFF. Then the self-diagnosis ends.

DIAGNOSIS FUNCTION

- It can check for continuity of the switches by sounding a beep when each audio unit switch and steering switch is pressed.
- It can check for continuity of harness between audio unit and steering switch.

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Trouble Diagnosis

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The majority of the audio troubles are the result of outside causes (bad CD, electromagnetic interference, etc.). Check the inspection items below to diagnose the malfunction.

MALFUNCTION WITH RADIO AND CD (BASE SYSTEM)

Symptom	Possible cause
Inoperative	 Audio unit power circuit check. Refer to <u>AV-28, "Power Supply Circuit Inspection"</u>.
	If above check is OK, replace audio unit.
All speakers do not sound	Audio unit
One or several speakers do not sound	 Front door speaker check. Refer to <u>AV-37</u>, "Sound Is Not Heard From Front <u>Door Speaker or Front Tweeter (Base System)</u>". Rear door speaker check. Refer to <u>AV-39</u>, "Sound Is Not Heard From Rear <u>Door Speaker (Base System)</u>".
Poor sound	Audio unit Speaker
Noisy	Audio unitElectrical equipment (generator, bonding wire, etc.)

MALFUNCTION WITH RADIO AND CD (PREMIUM SYSTEM)

Symptom	Possible cause
Inoperative	Audio unit power circuit check. Refer to AV-28, "Power Supply Circuit Inspection".
	If above check is OK, replace audio unit.
Steering switch does not operate	Steering switch check. Refer to AV-34, "Steering Switch Check (Premium System)".
	If above check is OK, replace audio unit.
	Audio unit
All speakers do not sound	 Audio amplifier power supply and ground circuit check. Refer to <u>AV-28</u>, <u>"Power Supply Circuit Inspection"</u>.
	Audio amplifier ON signal
	Audio amplifier
	Front door speaker check. Refer to <u>AV-41</u> , "Sound Is Not Heard From Front <u>Door Speaker or Front Tweeter (Premium System)"</u> .
One or several speakers do not sound	Rear door speaker check. Refer to <u>AV-44, "Sound Is Not Heard From Rear Door Speaker or Rear Door Tweeter (Premium System)"</u> .
	Subwoofer check. Refer to <u>AV-48</u> , "Sound Is Not Heard From Subwoofer (<u>Premium System</u>)".
	Audio unit
Poor sound	Audio amplifier
	Speaker
	Audio unit
Noisy	Audio amplifier
	Electrical equipment (generator, bonding wire, etc.)

Symptom	Possible cause
No sound	Audio unitAntenna feeder, wiring or connections
	Audio unit
	Audio unit case ground
Noine	 Antenna feeder, wiring or connections
Noisy	Noise prevention parts
	Electrical equipment
	Wire harness of each piece of electrical equipment
All radio stations stored in memory are deleted	Audio unit power circuit. Refer to AV-28, "Power Supply Circuit Inspection".
·	Audio unit

NOTE:

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

- 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 the waves sent directly from the broadcast station arriving at the antenna at a different time from the waves which reflect off mountains or buildings.

FOR CD ONLY

Symptom	Possible cause
CD cannot be inserted.	
CD cannot be ejected.	• CD
The CD cannot be played.	Audio unit
The sound skips, stops suddenly, or is distorted.	

FOR SATELLITE RADIO TUNER (FACTORY INSTALLED) ONLY

Symptom	Possible cause	
	 Satellite radio tuner (factory installed) power and ground circuit inspection. Refer to AV-29, "Satellite Radio Tuner (Factory Installed) Power and Ground Supply Circuit Inspection". 	A'
Inoperative	 Satellite radio tuner (factory installed) communication circuit inspection. Refer to AV-31, "Satellite Radio Tuner (Factory Installed) Communication Circuit Inspection" 	
	If above check is OK, replace satellite radio tuner. Refer to <u>AV-51, "SATEL-LITE RADIO TUNER"</u> .	ľ
	Satellite radio tuner (factory installed) right channel audio signal circuit inspection. Refer to AV-34, "Satellite Radio Tuner (Factory Installed) Right Channel Audio Signal Circuit Inspection".	
Right or left channel does not sound	 Satellite radio tuner (factory installed) left channel audio signal circuit inspection. Refer to <u>AV-33</u>, "<u>Satellite Radio Tuner (Factory Installed) Left</u> <u>Channel Audio Signal Circuit Inspection</u>". 	
	If above check is OK, replace satellite radio tuner. Refer to AV-51, "SATEL-LITE RADIO TUNER".	
	Location of vehicle. Make certain vehicle is in an open area.	
Poor reception	 Satellite radio antenna or antenna feeder. Refer to <u>AV-53, "Location of Audio Antenna System Components"</u>. 	
	Satellite radio tuner (factory installed) ground.	
Noisy	Satellite radio tuner (factory installed) harness shield wires.	
INOISY	 Electrical equipment (generator, bonding wire, etc.). Refer to <u>AV-28, "Noise Inspection"</u>. 	

Revision: September 2005 AV-27 2006 Xterra

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Noise Inspection

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The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and determine the cause.

NOTE:

The source of the noise can be found easily by listening to the noise while removing the fuses of electrical components, one by one.

TYPE OF NOISE AND POSSIBLE CAUSE

C	Occurrence condition	Possible cause
	A continuous growling noise occurs. The speed of the noise varies with changes in the engine speed.	Ignition components
Occurs only when engine is ON.	A whistling noise occurs while the engine speed is high. A booming noise occurs while the engine is running and the lighting switch is ON.	Generator
The occurrence of the noise is linked with the operation of the fuel pump.		Fuel pump condenser
Noise only occurs when various	A cracking or snapping sound occurs with the operation of various switches.	Relay malfunction, audio unit malfunction
electrical components are operating.	The noise occurs when various motors are operating.	Motor case ground Motor
The noise occurs constantly, not just under certain conditions.		 Rear defogger coil malfunction Open circuit in printed heater Poor ground of antenna feeder line
A cracking or snapping sound occurs while the vehicle is being driven, especially when it is vibrating excessively.		 Ground wire of body parts Ground due to improper part installation Wiring connections or a short circuit

Power Supply Circuit Inspection

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1. CHECK FUSES

Check that the following fuses are not blown.

Unit	it Terminals Signal name		Fuse No.
Audio unit	6	6 Battery power	
Audio unit	10	Ignition switch ACC or ON	4
Audio amplifior (promium system)	1	Pottory power	17
Audio amplifier (premium system)	17	Battery power	17

OK or NG

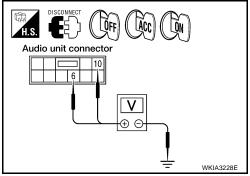
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of problem before installing new fuse. Refer to <u>PG-4</u>, "POWER SUPPLY ROUTING CIRCUIT".

2. POWER SUPPLY CIRCUIT CHECK

- 1. Disconnect audio unit connector M43 and audio amplifier connector B158 (premium system).
- 2. Check voltage between the audio unit and ground.

	Terminal No.					
Unit	(+)		()	OFF	ACC	ON
	Connector	Terminal	(-)			
Audio unit M43	6	Ground	Battery voltage	Battery voltage	Battery voltage	
	WITS	10	Ground	0V	Battery voltage	Battery voltage



Check voltage between audio amplifier (premium system) and ground.

	Terminal No.					
Unit	(+)		(-)	OFF	ACC	ON
	Connector	Terminal	(-)			
Audio	Audio amplifier B158		Ground	Battery	Battery	Battery
amplifier			Ground	voltage	voltage	voltage

OK or NG

OK >> GO TO 3.

NG

>> • Check connector housings for disconnected or loose terminals.

Repair harness or connector.

3. GROUND CIRCUIT CHECK

- 1. Turn ignition switch OFF.
- Check continuity between audio amplifier (premium system) harness connector B158 terminal 4 and terminal 20 and ground.

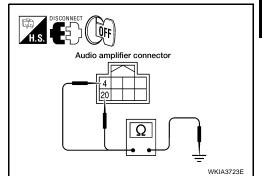
Continuity should exist.

OK or NG

OK >> Inspection End.

NG

- >> Check connector housings for disconnected or loose terminals.
 - Repair harness or connector.



Satellite Radio Tuner (Factory Installed) Power and Ground Supply Circuit Inspection

1. CHECK FUSES

Check that the following fuses are not blown.

Unit	Terminals	Signal name	Fuse No.
Satellite radio tuner (factory	32	Battery power	17
installed)	36	Ignition switch ACC or ON	4

Audio amplifier connector

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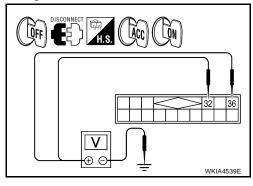
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of problem before installing new fuse. Refer to <u>PG-4</u>, "POWER SUPPLY ROUTING CIRCUIT" .

2. POWER SUPPLY CIRCUIT CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect satellite radio tuner (factory installed) connector M41.
- 3. Check voltage between the satellite radio tuner (factory installed) and ground.

	Terminal No.					
Unit	(+)		()	OFF	ACC	ON
	Connector	Terminal	(-)			
Satellite radio tuner	M41	32	Ground	Battery voltage	Battery voltage	Battery voltage
(factory installed)		36	Ground	0V	Battery voltage	Battery voltage



OK or NG

OK >> GO TO 3.

NG

- >> Check connector housings for disconnected or loose terminals.
 - Repair harness or connector.

3. ground circuit check

- 1. Turn ignition switch OFF.
- 2. Inspect satellite radio tuner (factory installed) case ground.
- 3. Disconnect satellite radio tuner (factory installed) connector M41 (A) and audio unit connector M42 (B).
- 4. Check continuity between satellite radio tuner (factory installed) and audio unit.

Satellite ra	Satellite radio tuner Audio unit				
Connector	Terminal	Connector Terminal			
A: M41	25	B: M42	45	Yes	
A. W41	26	D. 1VI42	46	165	

OK or NG

OK >> Inspection End.

NG

- >> Check connector housings for disconnected or loose terminals.
 - Repair harness, connector or satellite radio tuner (factory installed) case ground.

Satellite Radio Tuner (Factory Installed) Communication Circuit Inspection EKSOOHOA

1. CHECK HARNESS - 1

- Turn ignition switch OFF.
- 2. Disconnect satellite radio tuner (factory installed) connector M41 and audio unit connector M42.
- 3. Check continuity between satellite radio tuner (factory installed) harness connector M41 (A) terminal 28 and audio unit harness connector M42 (B) terminal 48

Continuity should exist.

4. Check continuity between satellite radio tuner (factory installed) harness connector M41 (A) terminal 28 and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 2.

NG >> Repair harness or connector.

2. CHECK HARNESS - 2

Check continuity between satellite radio tuner (factory installed) harness connector M41 (A) terminal 29 and audio unit harness connector M42 (B) terminal 49

Continuity should exist.

Check continuity between satellite radio tuner (factory installed) harness connector M41 (A) terminal 29 and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair harness or connector.

3. check harness - 3

Check continuity between satellite radio tuner (factory installed) harness connector M41 (A) terminal 30 and audio unit harness connector M42 (B) terminal 50

Continuity should exist.

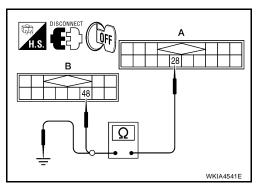
Check continuity between satellite radio tuner (factory installed) harness connector M41 (A) terminal 30 and ground.

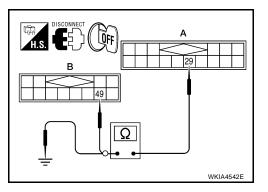
Continuity should not exist.

OK or NG

OK >> GO TO 4.

NG >> Repair harness or connector.





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4. CHECK REQ1 SIGNAL

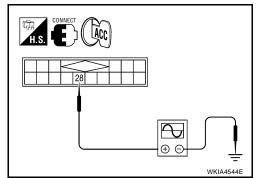
- 1. Connect satellite radio tuner (factory installed) connector and audio unit connector.
- 2. Turn ignition switch to ACC
- Check signal between satellite radio tuner (factory installed) harness connector M41 terminal 28 and ground with CONSULT-II or oscilloscope.

28 - Ground : Refer to AV-23, "Terminals and Reference Value for Satellite Radio Tuner".

OK or NG

OK >> GO TO 5.

NG >> Replace audio unit. Refer to AV-49, "AUDIO UNIT".



5. CHECK TXD SIGNAL

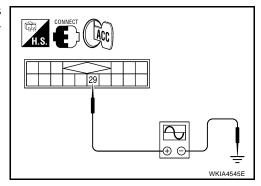
Check signal between satellite radio tuner (factory installed) harness connector M41 terminal 29 and ground with CONSULT-II or oscilloscope.

29 - Ground : Refer to AV-23, "Terminals and Reference Value for Satellite Radio Tuner".

OK or NG

OK >> GO TO 6.

NG >> Replace audio unit. Refer to AV-49, "AUDIO UNIT".



6. CHECK RXD SIGNAL

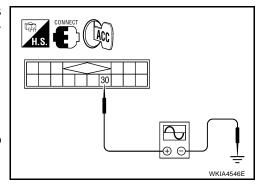
Check signal between satellite radio tuner (factory installed) harness connector M41 terminal 30 and ground with CONSULT-II or oscilloscope.

30 - Ground : Refer to AV-23, "Terminals and Reference Value for Satellite Radio Tuner".

OK or NG

OK >> Replace satellite radio tuner (factory installed). Refer to AV-51, "SATELLITE RADIO TUNER".

NG >> Replace audio unit. Refer to AV-49, "AUDIO UNIT".



Satellite Radio Tuner (Factory Installed) Left Channel Audio Signal Circuit Inspection

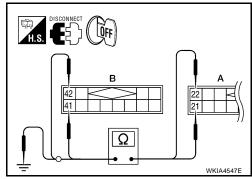
1. CHECK HARNESS

- 1. Turn ignition switch OFF.
- 2. Disconnect satellite radio tuner (factory installed) connector M41 (A) and audio unit connector M42 (B).
- 3. Check continuity between satellite radio tuner (factory installed) and audio unit.

Satellite radio insta	Continuity			
Connector	Terminal	Connector Terminal		
A: M41	21	B: M42	41	Yes
A. W41	22	D. 1VI42	42	165

4. Check continuity between satellite radio tuner (factory installed) and ground.

Satellite radio	Continuity		
Connector	Terminal		
A: M41	21	Ground	No
A. W4 I	22	Giodila	140
		· ·	The state of the s



OK or NG

OK >> GO TO 2.

NG >> Repair harness or connector.

2. CHECK LEFT CHANNEL AUDIO SIGNAL

- 1. Connect satellite radio tuner (factory installed) and audio unit.
- 2. Turn ignition switch ON.
- Check signal between satellite radio tuner (factory installed) connector M41 terminals 21 and 22 with CONSULT-II or oscilloscope.

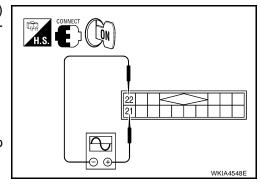
21 - 22

: Refer to AV-23, "Terminals and Reference Value for Satellite Radio Tuner".

OK or NG

OK >> Replace satellite radio tuner (factory installed). Refer to AV-51, "SATELLITE RADIO TUNER".

NG >> Replace audio unit. Refer to AV-49, "AUDIO UNIT".



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Revision: September 2005

Satellite Radio Tuner (Factory Installed) Right Channel Audio Signal Circuit Inspection

1. CHECK HARNESS

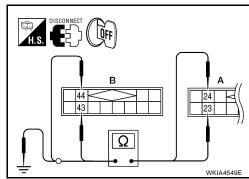
1. Turn ignition switch OFF.

- 2. Disconnect satellite radio tuner (factory installed) connector M41 (A) and audio unit connector M42 (B).
- 3. Check continuity between satellite radio tuner (factory installed) and audio unit.

Terminals				
Satellite radio tuner (factory installed)		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
A: M41	23	B: M42	43	Yes
	24		44	

 Check continuity between satellite radio tuner (factory installed) and ground.

Satellite radio	Continuity		
Connector	Terminal	_	
A: M41	23	Ground	No
A. W41	24	Giouna	NO



OK or NG

OK >> GO TO 2.

NG >> Repair harness or connector.

2. CHECK RIGHT CHANNEL AUDIO SIGNAL

- 1. Connect satellite radio tuner (factory installed) and audio unit.
- 2. Turn ignition switch ON.
- Check signal between satellite radio tuner (factory installed) connector M41 terminals 23 and 24 with CONSULT-II or oscilloscope.

23 - 24

: Refer to AV-23, "Terminals and Reference Value for Satellite Radio Tuner".

OK or NG

OK >> Replace satellite radio tuner (factory installed). Refer to AV-51, "SATELLITE RADIO TUNER".

NG >> Replace audio unit. Refer to AV-49, "AUDIO UNIT" .

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Steering Switch Check (Premium System)

1. SELF-DIAGNOSIS FUNCTION CHECK

- 1. Start audio unit self-diagnosis function. Refer to AV-25, "Audio Unit Self-Diagnosis Function (Premium System)".
- 2. Operate steering switch.

Does steering switch operate normally?

YES >> Inspection End.

NO >> GO TO 2.

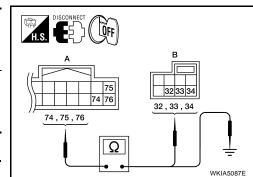
$\overline{2}$. CHECK HARNESS

- Turn ignition switch OFF. 1.
- 2. Disconnect audio unit connector M45 (B) and spiral cable connector M30.
- Check continuity between spiral cable harness connector terminal and audio unit harness connector terminal.

Terminals				
Spiral cable		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
	32		76	
B: M30	33	A: M45	75	Yes
	34		74	

Check continuity between audio unit and ground.

Terminals			
Audio unit		Continuity	
Terminal	_		
74		No	
75	Ground		
76			
	Audio unit Terminal 74 75	Audio unit Terminal 74 75 Ground	



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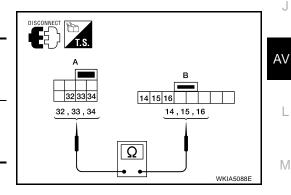
OK >> GO TO 3.

NG >> Repair harness.

3. SPIRAL CABLE CHECK

- 1. Disconnect spiral cable connectors M30 (A) and M102 (B).
- Check continuity between spiral cable terminals.

Terminals		
Spiral cable		Continuity
Terminal	Terminal	
32	16	
33	15	Yes
34	14	



OK or NG

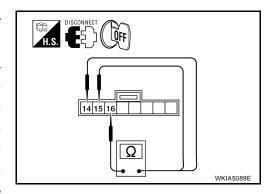
OK >> GO TO 4.

>> Replace spiral cable. Refer to SRS-44, "Removal and Installation" . NG

4. CHECK STEERING SWITCH RESISTANCE

Check resistance between steering switch terminals.

Teri	minal	Signal name	Condition	Resistance (Ω) (Approx.)
		Seek (down)	Depress (station) down switch.	165
15 1	16	Power	Depress power switch.	0
		Volume (down)	Depress volume down switch.	652
14 16	Seek (up)	Depress (station) up switch.	165	
	16	Mode	Depress mode switch.	0
		Volume (up)	Depress volume up switch.	652



OK or NG

OK >> Inspection End.

NG >> Replace steering switch. Refer to <u>AV-51, "STEERING WHEEL SWITCHES"</u>.

Sound Is Not Heard From Front Door Speaker or Front Tweeter (Base System)

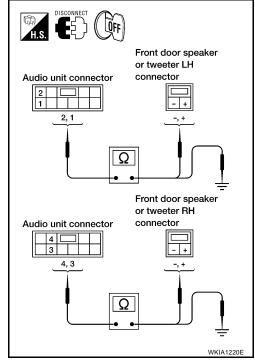
1. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M43 and suspect speaker or tweeter connector.
- Check continuity between audio unit harness connector M43 terminal and suspect speaker or tweeter harness connector terminal.

	Term			
Audio unit		Speaker	or tweeter	Continuity
Connector	Terminal	Connector Terminal		
	2	D12	+	
	1	012	-	
	4	D112	+	
M43	3	DIIZ	-	Yes
10/43	2	M109	+	163
	1	WITOS	-	
	4	M111	+	
	3	IVIIII	-	

Check continuity between audio unit harness connector M43 terminal and ground.

	Audio unit		Continuity
Connector	Terminal	_	
	2	2	
M43	1	Ground	No
10143	4		
	3		



OK or NG

NG

OK >> GO TO 2.

>> • Check connector housings for disconnected or loose terminals.

Repair harness or connector.

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2. FRONT SPEAKER SIGNAL CHECK

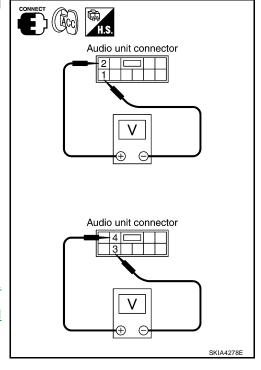
- 1. Connect audio unit connector and front speaker or tweeter connector.
- 2. Turn ignition switch to ACC.
- 3. Push "POWER" switch.
- 4. Check the signal between audio unit harness connector terminal and ground with CONSULT-II or oscilloscope.

	Terminals					
	(+)	(-)		Condi-	Reference	
Con- nec- tor	Termi- nal	Con- nec- tor	Termi- nal	tion	signal	
	2		1			
M43	4	M43	3	Receive audio signal	(V) 1 0 -1 1 ms	

OK or NG

OK >> Replace speaker. Refer to <u>AV-49, "FRONT DOOR SPEAKER"</u> or <u>AV-50, "FRONT TWEETER"</u>.

NG >> Replace audio unit. Refer to <u>AV-49, "Removal and Installation"</u>.



Sound Is Not Heard From Rear Door Speaker (Base System)

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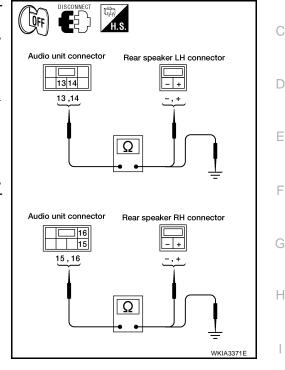
1. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M44 and suspect speaker connector.
- 3. Check continuity between audio unit harness connector M44 terminal and suspect speaker harness connector terminal.

	Tern			
Audi	o unit	Speaker	or tweeter	Continuity
Connector	Terminal	Connector	Terminal	
	13	D207	-	
M44	14	D201	+	Yes
	15	D307	-	165
	16	D301	+	

4. Check continuity between audio unit harness connector M44 terminal and ground.

	Audio unit		Continuity
Connector	Terminal	_	
	13	Ground	No
M44	14		
IVI44	15		
	16	16	



OK or NG

NG

OK >> GO TO 2.

>> • Check connector housings for disconnected or loose terminals.

Repair harness or connector.

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$\overline{2}$. REAR SPEAKER SIGNAL CHECK

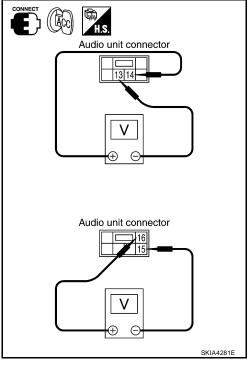
- 1. Connect audio unit connector and rear speaker connector.
- 2. Turn ignition switch to ACC.
- 3. Push "POWER" switch.
- 4. Check the signal between audio unit harness connector terminals with CONSULT-II or oscilloscope.

	Terminals				
(-	(+) (-)		Condi-	Reference	
Con- nector	Termi- nal	Con- nector	Terminal	tion	signal
	14		13		
M44	16	M44	15	Receive audio signal	1 0 -1 SKIA0177E

OK or NG

OK >> Replace rear door speaker. Refer to <u>AV-50, "REAR DOOR SPEAKER"</u>.

NG >> Replace audio unit. Refer to <u>AV-49, "Removal and Installation"</u>.



Sound Is Not Heard From Front Door Speaker or Front Tweeter (Premium System)

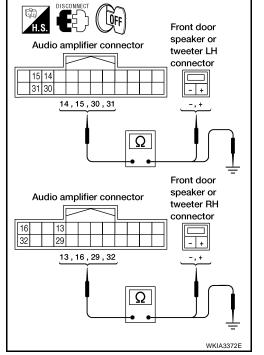
1. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio amplifier connector B159 and suspect speaker connector.
- 3. Check continuity between audio amplifier harness connector terminal B159 and suspect speaker harness connector terminal.

Audio a	Audio amplifier		or tweeter	Continuity
Connector	Terminal	Connector	Terminal	
	15	D12	+	
	31	012	-	
	16	D112	+	
B159	32	DIIZ	-	Yes
D139	14	M109	+	165
	30	101109	-	
	13	M111	+	
	29	1 IVIIII	-	

4. Check continuity between audio amplifier harness connector terminal B159 and ground.

	Terminals						
Au	dio amplifier		Continuity				
Connector	Terminal	_					
	13		No				
	14						
	15	Ground					
B159	16						
D159	29						
	30						
	31						
	32						



OK or NG

OK >> GO TO 2. NG >> • Check of

>> • Check connector housings for disconnected or loose terminals.

Repair harness or connector.

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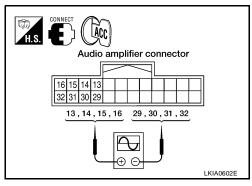
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$\overline{2}$. FRONT SPEAKER SIGNAL CHECK

- 1. Connect audio amplifier connector B159 and suspect speaker connector.
- 2. Turn ignition switch to ACC.
- 3. Push "POWER" switch.
- 4. Check the signal between audio amplifier harness connector B159 terminals with CONSULT-II or oscilloscope.

	Terminals				
(-	+)) (-)		Condi-	Reference
Con- nector	Termi- nal	Con- nector	Termi- nal	tion	signal
	13		29		(V)
	14	B159	30	Receive audio	
B159	15		31		
	16		32	signal	-1 1 ms SKIA0177E



OK or NG

OK >> Replace suspect speaker. Refer to <u>AV-49, "FRONT DOOR SPEAKER"</u> or <u>AV-50, "FRONT TWEETER"</u>.

NG >> GO TO 3.

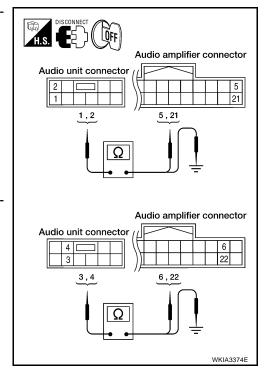
3. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M43 and audio amplifier connector B159.
- Check continuity between audio unit harness connector terminals and audio amplifier harness connector terminals.

Audio unit		Audio a	Continuity	
Connector	Terminal	Connector	Terminal	
	1		6	
M43	2	B159	22	Yes
IVI43	3	D139	5	165
	4		21	

 Check continuity between audio unit harness connector terminals and ground.

	Audio unit		Continuity
Connector	Terminal	_	
	1	Ground	No
M43	2		
IVI43	3		
	4		



OK or NG

OK >> GO TO 4.

NG >> • Check connector housings for disconnected or loose terminals.

• Repair harness or connector.

4. FRONT SPEAKER SIGNAL CHECK

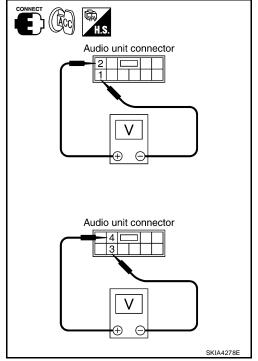
- 1. Connect audio unit connector and audio amplifier connector.
- 2. Turn ignition switch to ACC.
- 3. Push "POWER" switch.
- 4. Check the signal between audio unit harness connector terminals with CONSULT-II or oscilloscope.

Terminals						
(+) (-)		Condi-	Reference			
Con- nector	Termi- nal	Con- nector	Termi- nal	tion	signal	
	2		1			
M43	4	M43	3	Receive audio signal	(V) 1 0 -1 1 ms	

OK or NG

OK >> Replace audio amplifier. Refer to <u>AV-49, "AUDIO AMPLIFIER"</u>.

NG >> Replace audio unit. Refer to <u>AV-49, "Removal and Installation"</u>.



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Sound Is Not Heard From Rear Door Speaker or Rear Door Tweeter (Premium System)

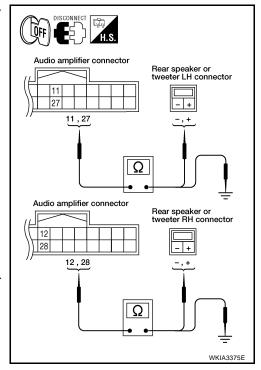
1. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio amplifier connector B159 and suspect speaker connector.
- 3. Check continuity between audio amplifier harness connector terminal B159 and suspect speaker harness connector terminal.

Audio amplifier		Speaker or tweeter		Continuity
Connector	Terminal	Connector Terminal		
	11	D207	+	
	27	D201	-	
	12	D307	+	
B159	28		-	Yes
D139	11	D208	+	163
	27		-	
	12	D200	+	
	28	D308	-	

4. Check continuity between audio amplifier harness connector B159 terminal and ground.

Au	Continuity		
Connector	Terminal	_	
	11		No
B159	27	Ground	
D139	12	Glound	
	28	28	



OK or NG

NG

OK >> GO TO 2.

>> • Check connector housings for disconnected or loose terminals.

• Repair harness or connector.

2. REAR SPEAKER SIGNAL CHECK

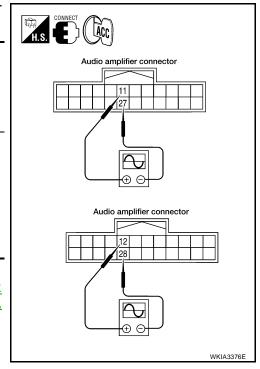
- 1. Connect audio amplifier connector B159 and suspect speaker connector.
- 2. Turn ignition switch to ACC.
- 3. Push "POWER" switch.
- 4. Check the signal between audio amplifier harness connector B159 terminals with CONSULT-II or oscilloscope.

Terminals						
(+) (-)		(-) Condi-		Reference		
Con- nec- tor	Terminal	Con- nec- tor	Terminal	tion	signal	
	11		27		_	
B159	12	B159	28	Receive audio signal	(V) 1 0 -1 1 ms SKIA0177E	

OK or NG

OK >> Replace suspect speaker. Refer to <u>AV-50</u>, "<u>REAR DOOR TWEETER (PREMIUM SYSTEM)</u>" or <u>AV-50</u>, "<u>REAR DOOR SPEAKER</u>".

NG >> GO TO 3.



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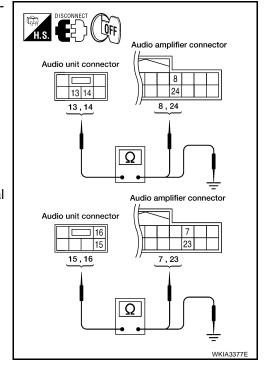
3. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M44 and audio amplifier connector B159.
- 3. Check continuity between audio unit harness connector M44 terminals and audio amplifier harness connector B159 terminals.

Audi	o unit	Audio amplifier		Continuity
Connector	Terminal	Connector	Terminal	
	13	B159	8	Yes
M44	14		24	
IVI44	15		7	165
	16		23	

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

	Audio unit		Continuity
Connector	Terminal	_	
M44	13		
	14	Ground	No
	15	Ground	NO
	16		



OK or NG

OK >> GO TO 4.

NG

- >> Check connector housings for disconnected or loose terminals.
 - Repair harness or connector.

4. REAR SPEAKER SIGNAL CHECK

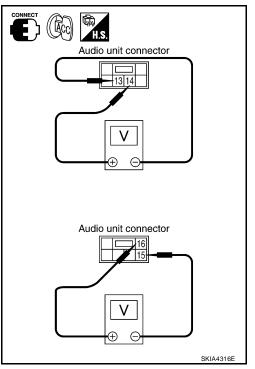
- 1. Connect audio unit connector M44 and audio amplifier connector B159.
- 2. Turn ignition switch to ACC.
- 3. Push "POWER" switch.
- 4. Check the signal between audio unit harness connector M44 terminals with CONSULT-II or oscilloscope.

	Terminals				
(+)		(-)		Condi-	Reference
Con- nector	Terminal	Con- nector	Terminal	tion	signal
	14		13		
M44	16	M44	15	Receive audio signal	(V) 1 0 -1 1 ms

OK or NG

OK >> Replace audio amplifier. Refer to <u>AV-49, "AUDIO AMPLIFIER"</u>.

NG >> Replace audio unit. Refer to <u>AV-49, "Removal and Installation"</u>.



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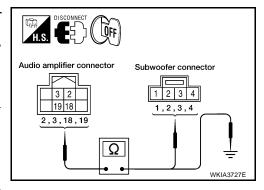
Sound Is Not Heard From Subwoofer (Premium System)

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1. HARNESS CHECK

- 1. Turn ignition switch OFF.
- 2. Disconnect audio amplifier connector B158 and subwoofer connector B72.
- Check continuity between audio amplifier harness connector terminal and subwoofer harness connector terminal.

Audio a	Continuity			
Connector	Terminal	Connector	Terminal	
B158	2		1	Yes
	3	B72	3	
	18	672	2	
	19		4	



4. Check continuity between audio amplifier harness connector terminal and ground.

	Continuity		
Connector	Terminal	_	
	2		No
B158	3	Ground	
Б136	18	Ground	
	19		

OK or NG

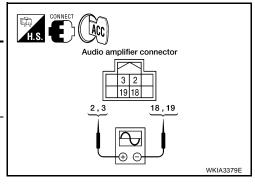
OK NG

- >> GO TO 2.
- >> Check connector housings for disconnected or loose terminals.
 - Repair harness or connector.

2. SUBWOOFER SIGNAL CHECK

- 1. Connect audio amplifier connector and subwoofer connector.
- 2. Turn ignition switch to ACC.
- 3. Check the signal between audio amplifier harness connector terminals with CONSULT-II or oscilloscope.

	Terminals					
(+) (-)		Condi-	Reference			
Con- nector	Termi- nal	Con- nector	Termi- nal	tion	signal	
	2		18		(V) 	
B158	3	B158	19	Receive audio signal	1 0 -1 1 ms SKIA0177E	



OK or NG

OK >> Replace subwoofer. Refer to AV-52, "SUBWOOFER (PREMIUM SYSTEM)".

NG >> Replace audio amplifier. Refer to AV-49, "AUDIO AMPLIFIER".

Removal and Installation AUDIO AMPLIFIER

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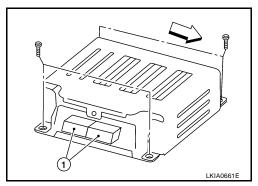
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Removal

- 1. Remove passenger side front seat. Refer to SE-10, "FRONT SEAT".
- 2. Remove audio amplifier and kick shield screws.
 - ⇒: Vehicle front
- 3. Disconnect the connectors (1) and remove audio amplifier from the bracket.

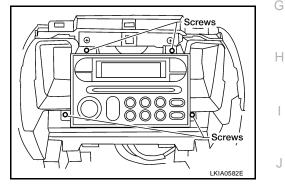


Installation

Installation is in the reverse order of removal.

AUDIO UNIT

- 1. Remove cluster lid C. Refer to IP-11, "CLUSTER LID C".
- 2. Remove the audio unit screws, using power tool.
- 3. Pull out audio unit, then disconnect connectors.



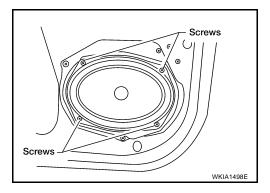
Installation

Installation is in the reverse order of removal.

FRONT DOOR SPEAKER

Removal

- 1. Remove door finisher. Refer to EI-24, "DOOR FINISHER" .
- 2. Remove the front door speaker screws.
- 3. Disconnect the connector and remove speaker from front door.



Installation

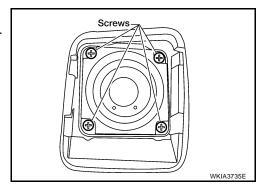
Installation is in the reverse order of removal.

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FRONT TWEETER

Removal

- 1. Remove the front tweeter grille.
- 2. Remove the front tweeter screws.
- 3. Disconnect the connector, and remove front tweeter from instrument panel.



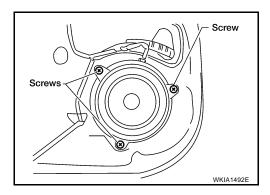
Installation

Installation is in the reverse order of removal.

REAR DOOR SPEAKER

Removal

- 1. Remove the rear door finisher. Refer to EI-25, "REAR DOOR".
- 2. Remove the rear door speaker screws.
- 3. Disconnect the connector and remove speaker from rear door.

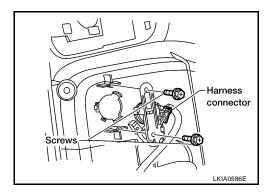


Installation

Installation is in the reverse order of removal.

REAR DOOR TWEETER (PREMIUM SYSTEM) Removal

- 1. Remove rear door finisher. Refer to EI-25, "REAR DOOR".
- 2. Remove the rear door tweeter screws.
- 3. Remove rear door tweeter from rear door finisher.



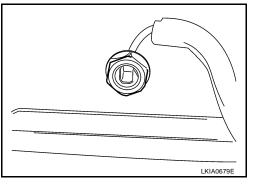
Installation

Installation is in the reverse order of removal.

SATELLITE RADIO ANTENNA

Removal

- 1. Lower headlining. Refer to EI-30, "HEADLINING".
- 2. Disconnect satellite radio antenna connector.
- 3. Remove satellite radio antenna nut.
- 4. Remove satellite radio antenna.

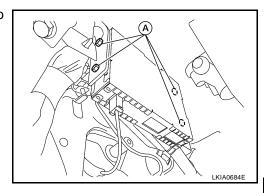


Installation

Installation is in the reverse order of removal.

SATELLITE RADIO TUNER

- 1. Disconnect battery negative terminal.
- 2. Disconnect satellite radio tuner connectors.
- 3. Remove satellite radio tuner screws, and remove satellite radio tuner.



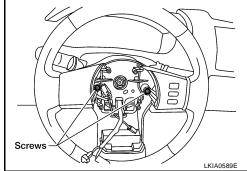
Installation

Installation is in the reverse order of removal.

STEERING WHEEL SWITCHES

Removal

- 1. Remove driver air bag module. Refer to SRS-42, "Removal and Installation".
- 2. Remove steering wheel audio control switch assembly screws.
- 3. Disconnect the switch connector, and remove from steering wheel.



Installation

Installation is in the reverse order of removal.

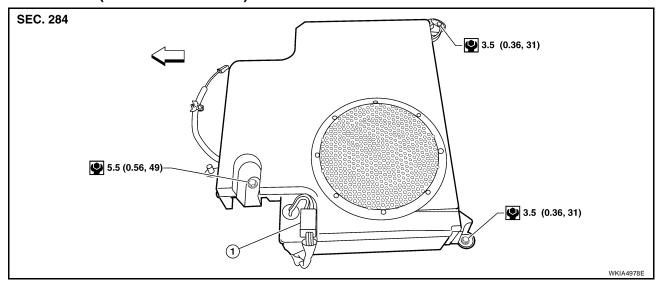
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SUBWOOFER (PREMIUM SYSTEM)



1. Connector

Removal

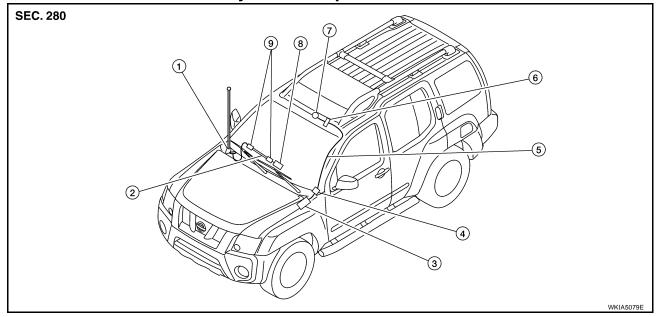
- 1. Remove the driver side front seat. Refer to SE-10, "FRONT SEAT".
- 2. Remove the subwoofer bolts.
- 3. Disconnect the connector and remove the subwoofer.

Installation

Installation is in the reverse order of removal.

AUDIO ANTENNA PFP:28200

Location of Audio Antenna System Components



- 1. Audio antenna
- 4. Harness Connectors M250, M68
- 7. Satellite antenna

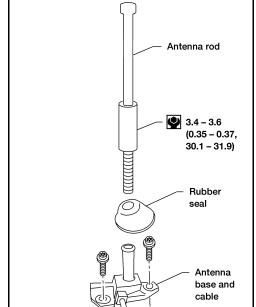
- 2. Antenna feeder
- Satellite antenna feeder
- 8. Audio unit

- 3. Satellite radio tuner M41, M129
- 6. Connector M251
- 9. Harness connectors

Removal and Installation AUDIO ANTENNA

Removal

- 1. Remove lower glove box. Refer to $\underline{\text{IP-14}}$, "LOWER INSTRUMENT PANEL RH AND LOWER GLOVE $\underline{\text{BOX}}$ ".
- 2. Disconnect audio antenna cable from antenna feeder.
- 3. Remove antenna rod.
- 4. Remove rubber seal.
- Remove cowl top. Refer to <u>EI-17, "COWL TOP"</u>.
- 6. Remove fender protector. Refer to $\underline{\text{EI-19}}$, "FENDER PROTECTOR" .
- 7. Remove antenna base bolts.
- 8. Remove antenna base and cable.



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AUDIO ANTENNA

Installation

Installation is in the reverse order of removal.

CAUTION:

Always properly tighten the antenna rod during installation or the antenna rod may bend or break during vehicle operation.