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CONTENTS

PRECAUTIONS	2
Precautions for Supplemental Restraint System	
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
SIONER"	2
Wiring Diagrams and Trouble Diagnosis	2
AUDIO	3
System Description	3
KING CAB WITH BASE AUDIO SYSTEM	3
KING CAB WITH PREMIUM AUDIO SYSTEM	3
CREW CAB WITHOUT AMPLIFIER	3
CREW CAB WITH AMPLIFIER	4
Schematic — With Audio Amplifier	
Wiring Diagram — AUDIO —	6
KING CAB WITH BASE AUDIO SYSTEM	
KING CAB WITH PREMIUM AUDIO SYSTEM	7
CREW CAB WITHOUT AMPLIFIER	9
CREW CAB WITH AMPLIFIER	11

Trouble Diagnoses	. 14
AUDIO UNIT (EXCEPT CREW CAB WITH	
AMPLIFIER)	
AUDIO UNIT (CREW CAB WITH AMPLIFIER)	. 15
Inspection	
SPEAKER	
ANTENNA	
AUDIO UNIT	. 16
AUDIO UNIT VOLTAGES	. 16
AMPLIFIER VOLTAGES	. 16
STEERINGWHEELAUDIOCONTROLSWITCH	
RESISTANCE CHECK	. 17
AUDIO ANTENNA	
Location of Antenna	
Fixed Antenna Rod Replacement	
REMOVAL	
INSTALLATION	. 18

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PRECAUTIONS

PRECAUTIONS PFP:00001

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

KS006X4

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 may include seat belt switch inputs and dual stage front air bag modules. If equipped with 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.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

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 harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

Wiring Diagrams and Trouble Diagnosis

EKS006X5

When you read wiring diagrams, refer to the following:

- GI-13, "How to Read Wiring Diagrams"
- PG-9, "POWER SUPPLY ROUTING"

When you perform trouble diagnosis, refer to the following:

- GI-9, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"
- GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident"

Check for any Service bulletins before servicing the vehicle.

AUDIO PFP:28111 Α System Description EKS006X6 Refer to Owner's Manual for audio system operating instructions. KING CAB WITH BASE AUDIO SYSTEM Power is supplied at all times through 15A fuse (No. 41, 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. 18, located in the fuse block (J/B)] D to audio unit terminal 10. Ground is supplied through the case of the audio unit. With the audio unit ON, audio signals are supplied Е through audio unit terminals 2, 4, 14 and 16 to front door speakers and pillar tweeters. KING CAB WITH PREMIUM AUDIO SYSTEM Power is supplied at all times through 15A fuse (No. 41, located in the fuse and fusible link box) to audio unit terminal 6 and With the ignition switch in the ACC or ON position, power is supplied through 10A fuse [No. 18, located in the fuse block (J/B)] Н to audio unit terminal 10. Ground is supplied through the case of the audio unit. With the audio unit ON, audio signals are supplied through audio unit terminals 2, 4, 14 and 16 to door speakers and pillar tweeters and to subwoofer amplifier terminals 2 and 4. When the steering wheel audio control switches are pushed, audio signals are supplied through audio unit terminal 23 to steering wheel audio control switch terminal 15 and through steering audio control switch terminal 16 to audio unit terminal 9. **CREW CAB WITHOUT AMPLIFIER** Power is supplied at all times M through 15A fuse (No. 41, 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. 18, located in the fuse block (J/B)] to audio unit terminal 10. Ground is supplied through the case of the audio unit. With the audio unit ON, audio signals are supplied through audio unit terminals 2, 4, 14 and 16 to front door speakers, pillar tweeters and rear door speakers. When the steering wheel audio control switches are pushed, audio signals are supplied through audio unit terminal 23 to steering wheel audio control switch terminal 15 and

through steering audio control switch terminal 16

to audio unit terminal 24.

CREW CAB WITH AMPLIFIER

Power is supplied at all times

- through 15A fuse (No. 41, located in fuse and fusible link box)
- to audio unit terminal 6 and
- through 30A fusible link (letter h, located in fuse and fusible link box)
- to audio amplifier terminals 5 and 12.

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

- through 10A fuse [No. 18, located in fuse block (J/B)]
- to audio unit terminal 10.

Ground is supplied through the case of the audio unit.

Ground is also supplied

- through audio amplifier terminals 4 and 11
- to body grounds M14 and M68.

With the audio unit ON, audio signals are supplied

- through audio unit terminals 1, 2, 3, 4, 12, 13, 14, 15 and 16
- to audio amplifier terminals 13, 15, 16, 17, 20, 21, 22, 23, and 24
- through amplifier terminals 1, 2, 3, and 9
- to front door speakers, pillar tweeters, rear speakers and subwoofer.

When the steering wheel audio control switches are pushed, audio signals are supplied

- through audio unit terminal 23
- to steering wheel audio control switch terminal 15 and
- through steering audio control switch terminal 16
- to audio unit terminal 24.

Schematic — With Audio Amplifier

EKS006X7

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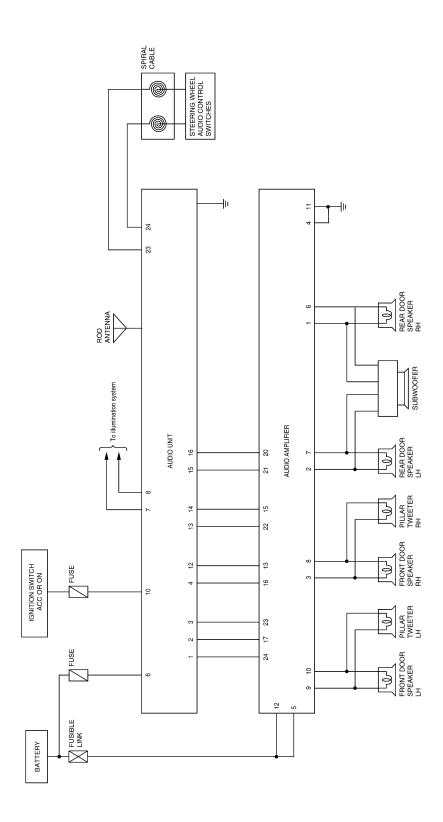
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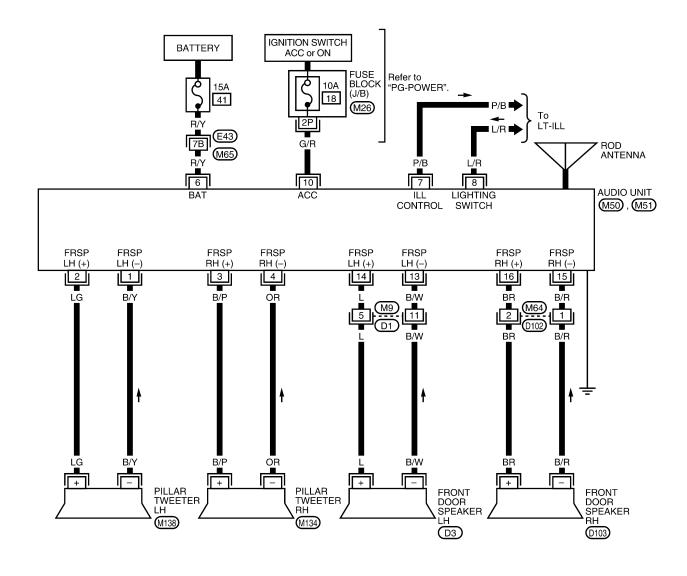
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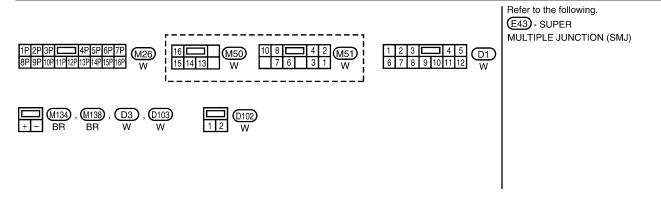


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EKS006X8

AV-AUDIO-01





WKWA0308E

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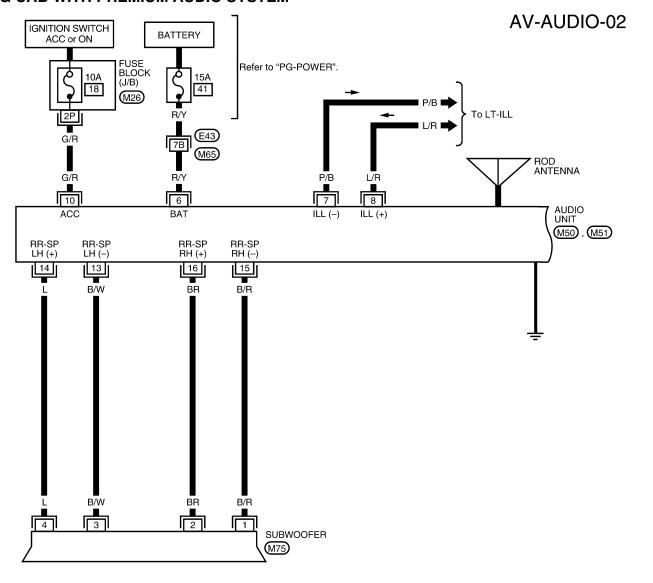
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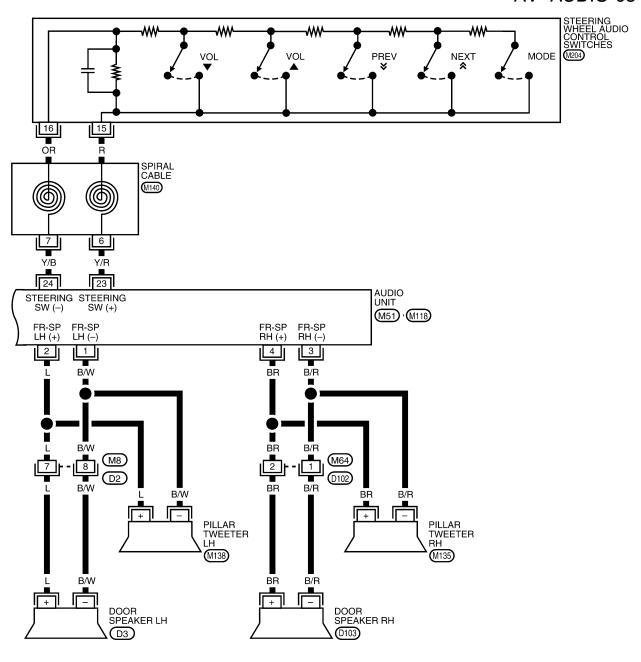
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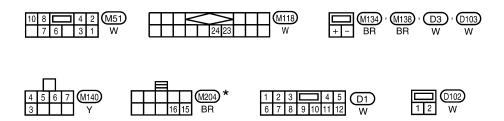
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KING CAB WITH PREMIUM AUDIO SYSTEM



AV -AUDIO-03





★: This connector is not shown in "HARNESS LAYOUT" of PG section.

WKWA0310E

CREW CAB WITHOUT AMPLIFIER

AV -AUDIO-04

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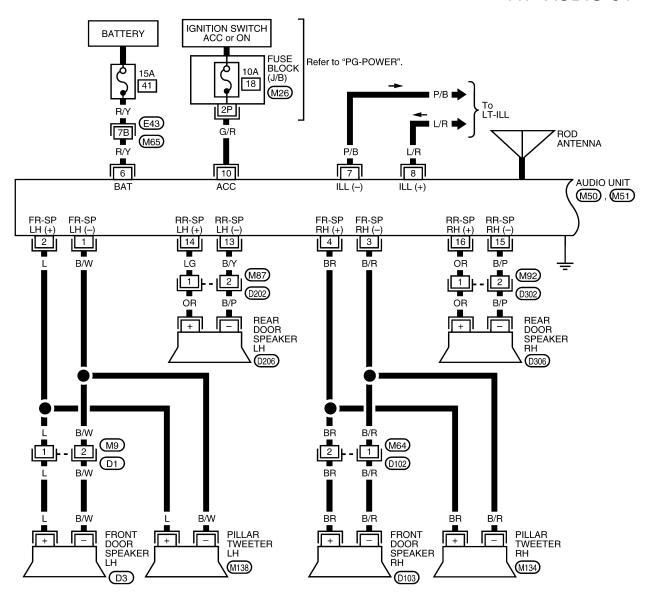
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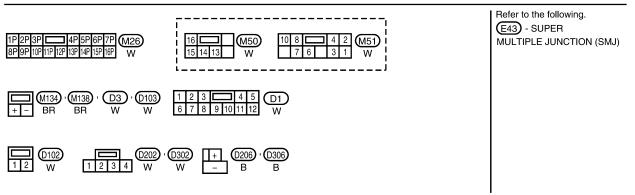
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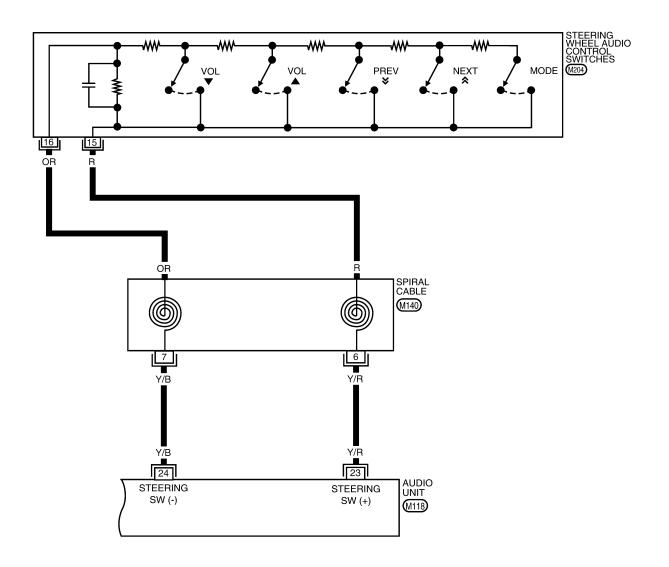
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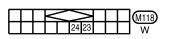




WKWA0311E

AV-AUDIO-05









★: This connector is not shown in "HARNESS LAYOUT" of PG section.

WKWA0312E

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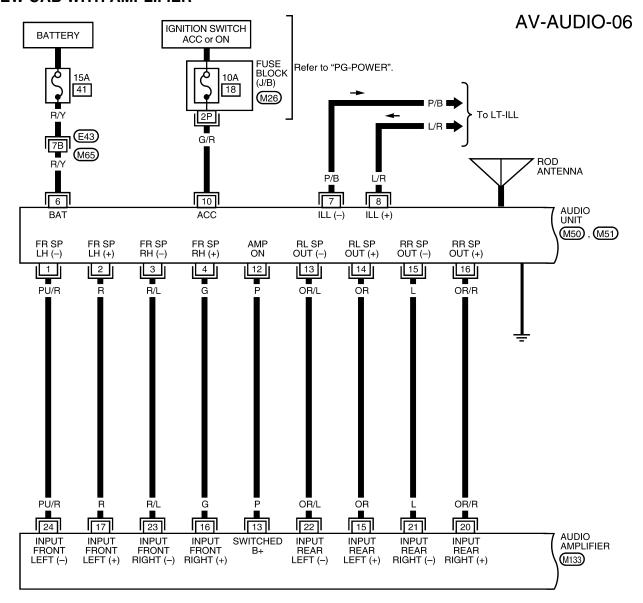
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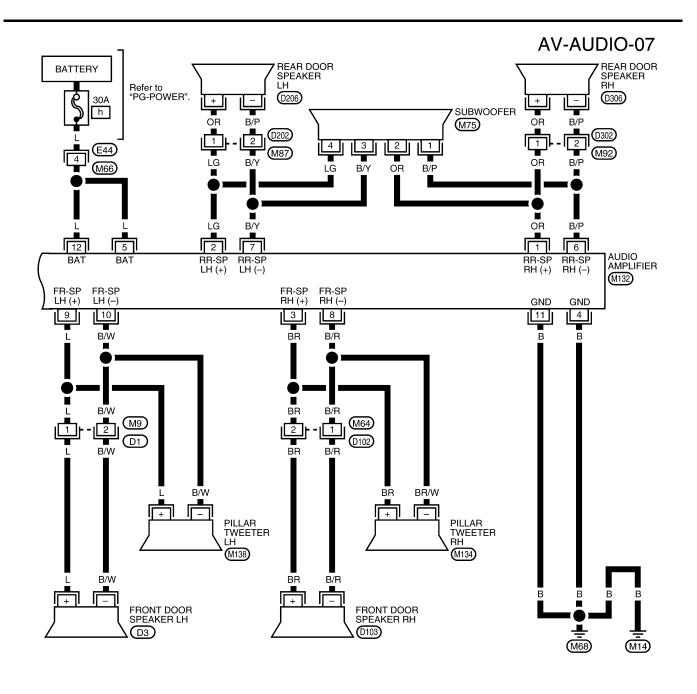
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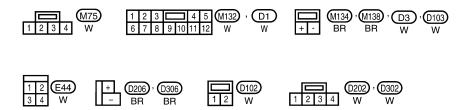
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CREW CAB WITH AMPLIFIER







WKWA0314E

AV-AUDIO-08

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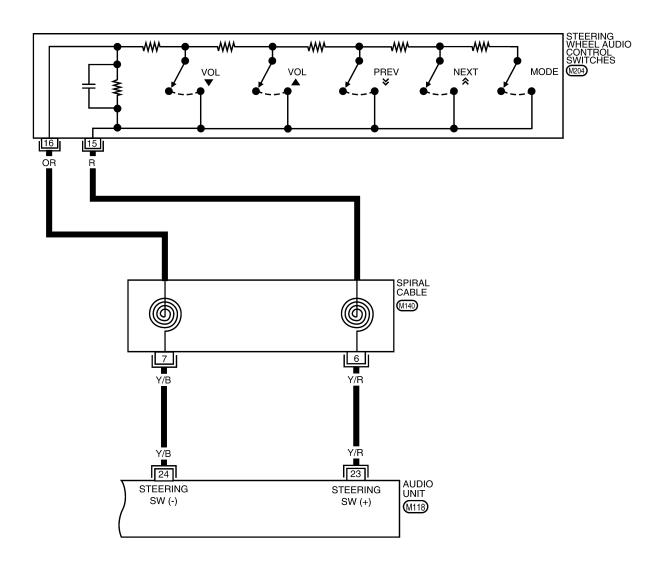
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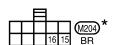
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★: This connector is not shown in "HARNESS LAYOUT" of PG section.

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Trouble Diagnoses AUDIO UNIT (EXCEPT CREW CAB WITH AMPLIFIER)

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Symptom	Possible causes	Repair order	
Audio unit inoperative (no digital display and no sound from speakers).	1. 10A fuse 2. Poor audio unit case ground 3. Audio unit	Check 10A fuse [No. 18, located in fuse block (J/B)]. Turn ignition switch ON and verify that battery positive voltage is present at terminal 10 of audio unit.	
	3. Addio driit	2. Check audio unit case ground.	
		3. Remove audio unit for repair.	
Audio unit controls are	1. Audio unit output	Check audio unit output voltages.	
operational, but no sound is heard from any speaker.	2. Audio unit	2. Remove audio unit for repair.	
Audio unit presets are lost when ignition switch is turned OFF.	1.15A fuse 2. Audio unit	Check 15A fuse (No. 41, located in fuse and fusible link box) and verify that battery positive voltage is present at terminal 6 of audio unit.	
		2. Remove audio unit for repair.	
Individual speaker is noisy	1. Speaker	1. Check speaker.	
or inoperative.	2. Audio unit output	2. Check audio unit output voltages.	
	Speaker circuit A. Audio unit	Check wires for open or short between audio unit and speaker.	
		4. Remove audio unit for repair.	
Subwoofer speaker is noisy	1. Speaker	1. Check speaker.	
or inoperative (king cab models with premium audio	Speaker circuit Audio unit output	Check wires for open or short between audio unit and speaker.	
system).	Contacto and Catpat	3. Check audio unit output voltages to speaker.	
Audio unit stations are	1. Antenna	1. Check antenna.	
weak or noisy.	2. Poor audio unit ground	2. Check audio unit ground.	
	3. Audio unit	3. Remove audio unit for repair.	
Audio unit generates noise	1. Poor audio unit ground	1. Check audio unit ground.	
in AM and FM modes with	2. Loose or missing ground bonding straps	2. Check ground bonding straps.	
engine running.	3. Ignition condenser or rear window defog- ger noise suppressor condenser (Crew	Replace ignition condenser or rear window defogger noise suppressor condenser (Crew Cab models).	
	Cab models)	4. Check generator.	
	4. Generator	5. Check ignition coil and secondary wiring.	
	Ignition coil or secondary wiring Audio unit	6. Remove audio unit for repair.	
Audio unit generates noise	1. Poor audio unit ground	1. Check audio unit ground.	
in AM and FM modes with	2. Antenna	2. Check antenna.	
accessories on (switch pops and motor noise).	3. Accessory ground	3. Check accessory ground.	
	4. Faulty accessory	4. Replace accessory.	
Steering wheel audio control switch does not operate (except base audio sys-	Steering wheel audio control switch Audio unit output Steering wheel audio control switch circuit	Check steering wheel audio control switch, refer to AV- T, "STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE CHECK".	
tem).	4. Audio unit	2. Check audio unit output voltage.	
	T. Audio unit	Check harness between audio unit and steering switch.	
		4. Remove audio unit for repair.	

Symptom	Possible causes	Repair order	
Audio unit inoperative (no digital display and no sound from speakers).	1. 10A fuse 2. Poor audio unit case ground	1. Check 10A fuse [No. 18, located in fuse block (J/B)]. Turn ignition switch ON and verify that battery positive voltage is present at terminal 10 of audio unit.	
ocama mom opeamero).	3. Audio unit	Check audio unit case ground.	
		3. Remove audio unit for repair.	
Audio unit controls are operational, but no sound is heard from any speaker.	1. 30A fusible link 2. Audio amplifier ground 3. Audio amplifier	Check 30A fusible link (letter h. located in fuse and fusible link box). Verify battery positive voltage is present at terminal 5 and 12.	
	S. Audio ampliller	2. Check harness continuity between audio amplifier terminals 4 and 11, and ground.	
		3. Remove audio amplifier for repair.	
Audio unit presets are lost when ignition switch is turned OFF.	1. 15A fuse 2. Audio unit	Check 15A fuse (No. 41, located in fuse and fusible link box) and verify that battery positive voltage is present at terminal 6 of audio unit.	
		2. Remove audio unit for repair.	
Individual speaker is noisy	1. Each speaker	1. Check speaker.	
or inoperative.	2. Output circuit to each speaker	2. Check the output circuit to each speaker	
		- between audio unit and audio amplifier	
		 between audio amplifier and each speaker 	
Audio unit stations are	1. Antenna	1. Check antenna.	
weak or noisy.	2. Poor audio unit ground	2. Check audio unit ground.	
	3. Audio unit	3. Remove audio unit for repair.	
Audio unit generates noise	1. Poor audio unit ground	1. Check audio unit ground.	
in AM and FM modes with	2. Loose or missing ground bonding straps	2. Check ground bonding straps.	
engine running.	Ignition condenser or rear window defog- ger noise suppressor condenser	3. Replace ignition condenser or rear window defogger noise suppressor condenser.	
	4. Generator	4. Check generator.	
	5. Ignition coil or secondary wiring	5. Check ignition coil and secondary wiring.	
	6. Audio unit	6. Remove audio unit for repair.	
Audio unit generates noise	1. Poor audio unit ground	1. Check audio unit ground.	
in AM and FM modes with accessories on (switch	2. Antenna	2. Check antenna.	
pops and motor noise).	3. Accessory ground	3. Check accessory ground.	
p - p	4. Faulty accessory	4. Replace accessory.	
Steering wheel audio control switch does not operate.	Steering wheel audio control switch Audio unit output Steering wheel audio control switch circuit	1. Check steering wheel audio control switch, refer to "STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE CHECK", \$\$\$\$:NEEL0083S06.	
	4. Audio unit	2. Check audio unit output voltage.	
	T. Audio dilit	Check harness between audio unit and steering switch.	
		4. Remove audio unit for repair.	

Inspection SPEAKER

- 1. Disconnect speaker harness connector.
- 2. Measure the resistance between speaker terminals + and -.
 - The resistance should be 2 4Ω .
- 3. Using jumper wires, momentarily connect a 9V battery between speaker terminals + and -.
 - A momentary hum or pop should be heard.

ANTENNA

- 1. Using a jumper wire, clip an auxiliary ground between antenna and body.
 - If reception improves, check antenna ground (at body surface).

• If reception does not improve, check main feeder cable for short circuit or open circuit.

AUDIO UNIT

All voltage inspections are made with:

- Ignition switch ON or ACC
- Audio unit ON
- Audio unit connected (If removed for inspection, supply a ground to the case using a jumper wire.)

AUDIO UNIT VOLTAGES

	Wire color		Voltage (V) (Approx.)		
Terminal	2-Door Models	4-Door Models	2-Door Models with Base Audio System	2-Door Models with Pre- mium Audio System	4-Door Models
1	B/W	B/W	5 - 7.5	5 - 7.5	5 - 7.5
2	L	L	5 - 7.5	5 - 7.5	5 - 7.5
3	B/R	B/R	5 - 7.5	5 - 7.5	5 - 7.5
4	BR	BR	5 - 7.5	5 - 7.5	5 - 7.5
5	_	_	_	_	_
6	R/Y	R/Y	10.8 - 15.6	10.8 - 15.6	10.8 - 15.6
7	P/B	P/B	0 (Illumination)	0 (Illumination)	0 (Illumination)
8	L/R	L/R	0 - 12 (Illumination)	0 - 12 (Illumination)	0 - 12 (Illumination)
9	_	_	_	_	_
10	G/R	G/R	10.8 - 15.6	10.8 - 15.6	10.8 - 15.6
11	_	_	_	_	_
12	P*	_	_	10.5	_
13	B/Y	B/Y	5 - 7.5	5 - 7.5	5 - 7.5
14	LG	LG	5 - 7.5	5 - 7.5	5 - 7.5
15	B/P	B/P	5 - 7.5	5 - 7.5	5 - 7.5
16	OR	OR	5 - 7.5	5 - 7.5	5 - 7.5

^{*:} With amplifier only.

AMPLIFIER VOLTAGES

Terminal	Wire color	Voltage (V) (Approx.)
1	OR	5 - 7.5
2	LG	5 - 7.5
3	BR	5 - 7.5
4	В	Body ground
5	SB	Battery
6	B/P	5 - 7.5
7	B/Y	5 - 7.5
8	R/R	5 - 7.5
9	L	5 - 7.5
10	B/W	5 - 7.5
11	В	Body ground
12	L	Battery
13	Р	10.5
15	OR	5 - 7.5
16	G	5 - 7.5
17	R	5 - 7.5

20	OR/R	5 - 7.5
21	L	5 - 7.5
22	OR/L	5 - 7.5
23	R/L	5 - 7.5
24	PU/R	5 - 7.5

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STEERING WHEEL	AUDIO CONTROL	_ SWITCH RESISTANC	E CHECK

	Terminal No.	Resistance (Ω) (Approx.)
VOLUM (DOWN) SW		21.7 - 22.2
VOLUM (UP) SW		69.3 - 70.7
PREVIOUS SW	15 - 16	108.9 - 111.1
NEXT SW		158.4 - 161.6
MODE SW		326.7 - 333.3

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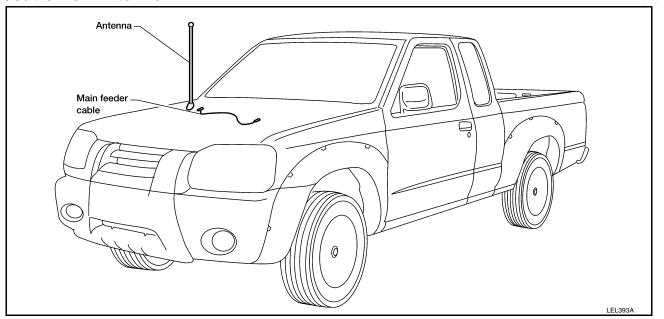
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AUDIO ANTENNA PFP:28200

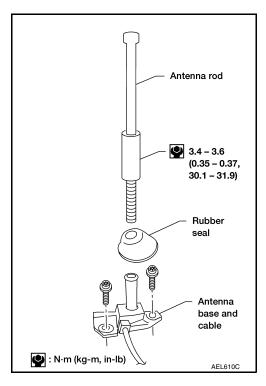
Location of Antenna

EKS006XB



Fixed Antenna Rod Replacement REMOVAL

- 1. Remove antenna rod.
- 2. Remove rubber seal.
- 3. Remove cowl screen top seal.
- 4. Remove right wiper arm.
- 5. Remove right cowl to grille.
- 6. Remove antenna base bolts.
- 7. Remove right fender splash shield.
- 8. Remove audio unit.
- 9. Disconnect antenna cable from audio unit.
- 10. Remove attachment clip from fender apron.
- 11. Remove antenna base and cable.



INSTALLATION

Install in reverse order of removal.

CAUTION:

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

EKS006XC