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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 harness connectors.

Wiring Diagrams and Trouble Diagnosis

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When you read wiring diagrams, refer to the following:

- GI-13, "How to Read Wiring Diagrams"
- PG-8, "POWER SUPPLY ROUTING" for power distribution circuit.

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 EKS003LY Refer to Owner's Manual for audio system operating instructions. MODELS WITHOUT AUDIO AMPLIFIER 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. When the audio unit power knob is pushed to the ON position, audio signals are supplied Е through audio unit terminals 2, 4, 14 and 16 to door speakers, pillar tweeters and rear speakers. MODELS WITH AUDIO AMPLIFIER Power is supplied at all times through 30A fusible link (letter h, located in the fuse and fusible link box) to audio amplifier terminals 5 and 12 through 15A fuse (No. 41, located in the fuse and fusible link box) to audio unit terminal 6. Н 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 for the audio unit is supplied through the case of the audio unit. Ground for the audio amplifier is supplied to terminals 4 and 11 through body grounds M68 and M14. When the audio unit power knob is pushed to the ON position, audio signals are supplied through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16 to audio amplifier terminals 15, 16, 17, 20, 21, 22, 23, and 24 through audio amplifier terminals 1, 2, 3, and 9 to front door speakers, pillar tweeters and rear speakers When the steering switch is pushed, audio signals are supplied through audio unit terminal 23 to steering wheel audio control switch terminal 15, and through steering wheel audio control switch terminal 16 M to audio unit terminal 24. MODELS WITH AUDIO AMPLIFIER AND SUBWOOFER Power is supplied at all times through 30A fusible link (letter h, located in the fuse and fusible link box) to audio amplifier terminals 5 and 12

- 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 for the audio unit is supplied through the case of the audio unit. Ground for the audio amplifier is supplied to terminals 4 and 11 through body grounds M68 and M14.

When the audio unit power knob is pushed to the ON position, audio signals are supplied

through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16

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

When the steering switch is pushed, audio signals are supplied

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

Schematic WITH AUDIO AMPLIFIER

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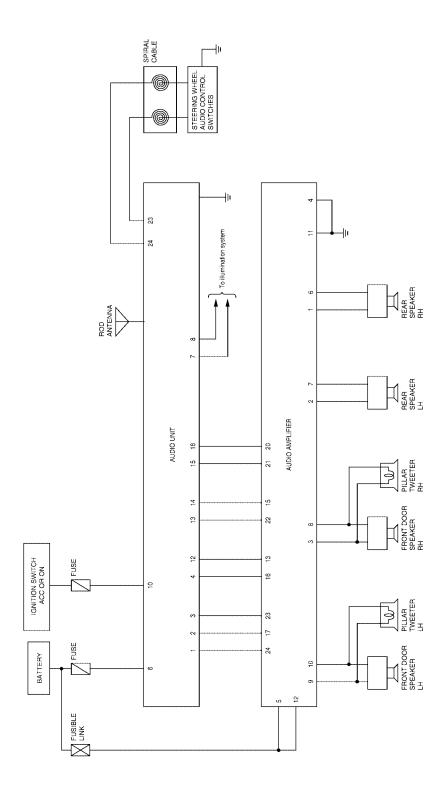
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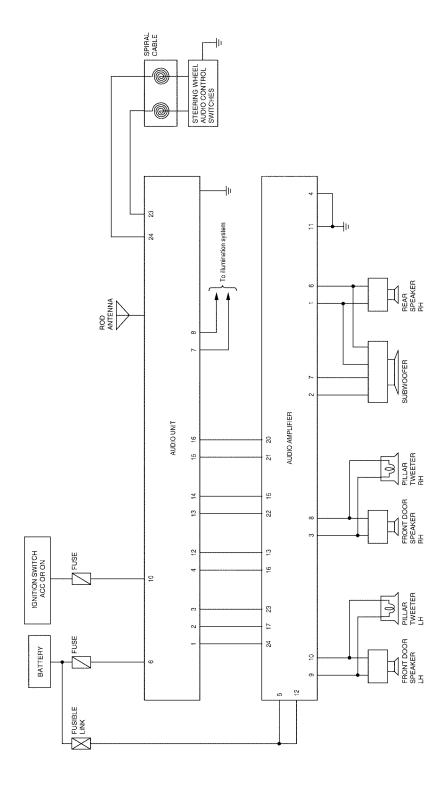
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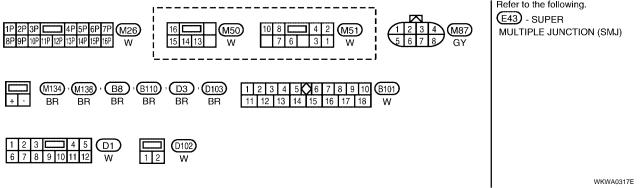


WITH AUDIO AMPLIFIER AND SUBWOOFER

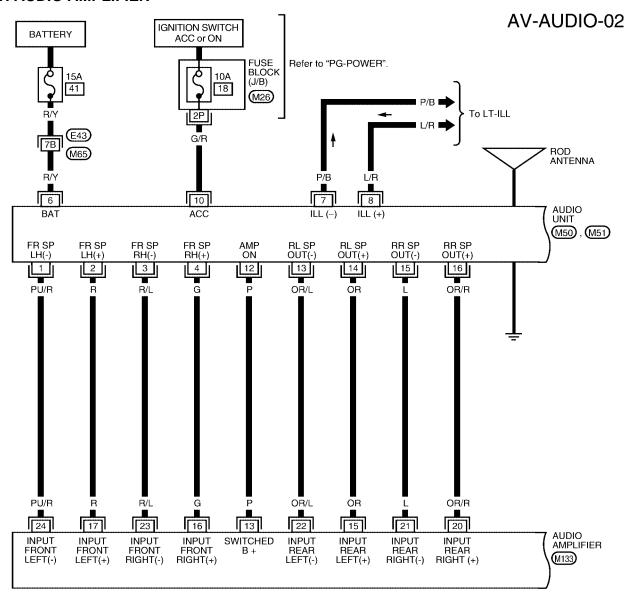


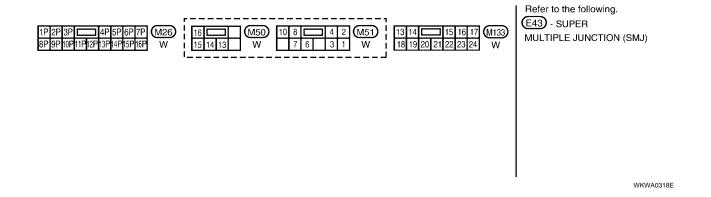
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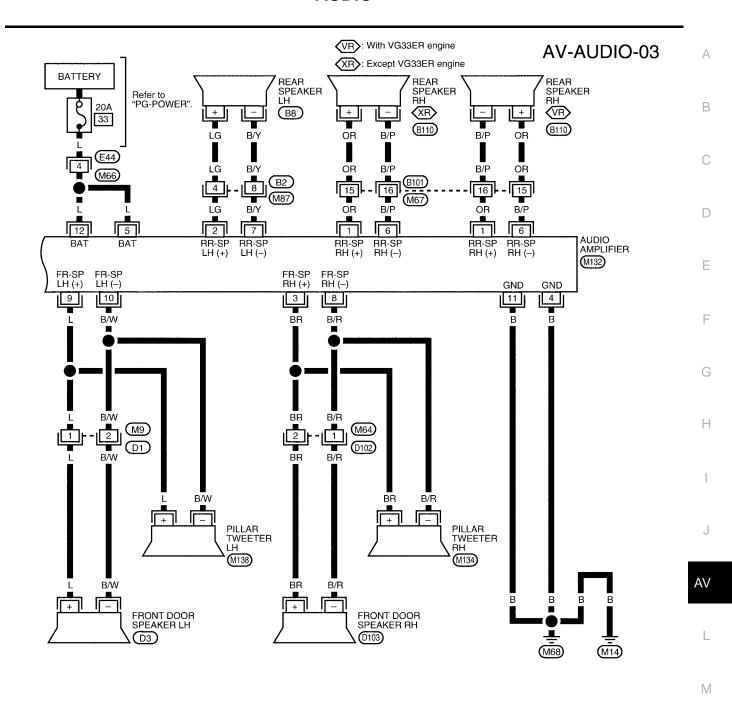
AUDIO Wiring Diagram — AUDIO — EKS003M0 WITHOUT AUDIO AMPLIFIER Α **AV-AUDIO-01** В IGNITION SWITCH ACC OR ON PR: With premium audio system BATTERY FUSE BLOCK Refer to "PG-POWER". 10A (J/B) 18 41 (M26) , To LT-ILL D 7B G/R ROD ANTENNA M65 R/Y P/B 7 6 8 10 Е **AUDIO UNIT** BAT ACC ILL (-) ILL (+) M50), M51) FR-SP FR-SP FR-SP FR-SP RR-SP RR-SP RR-SP RR-SP LH (+) RH (+) F 4 16 2 14 3 13 15 1 BR B/R B/P B/W LG B/Y OR **(**M67) 15 16 B/P BR B/R OR Н PILLAR REAR BR B/R TWEETER 2 **SPEAKER** 1 (M64) RH RH (M134) (D102) (B110) B/R (PR) M87 (B2) B/W PILLAR TWEETER LH REAR SPEAKER ΑV (B6) (M138) B/W 2 B/W M9 B/R (D1) BR M FRONT DOOR SPEAKER RH FRONT DOOR SPEAKER LH (D103) (D3) Refer to the following.

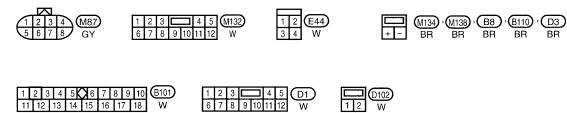


WITH AUDIO AMPLIFIER





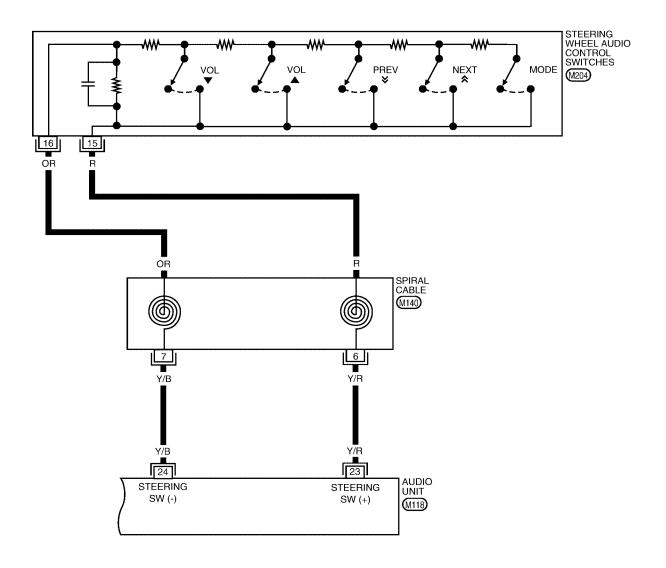


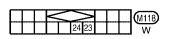


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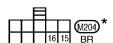
D103

AV-AUDIO-04









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

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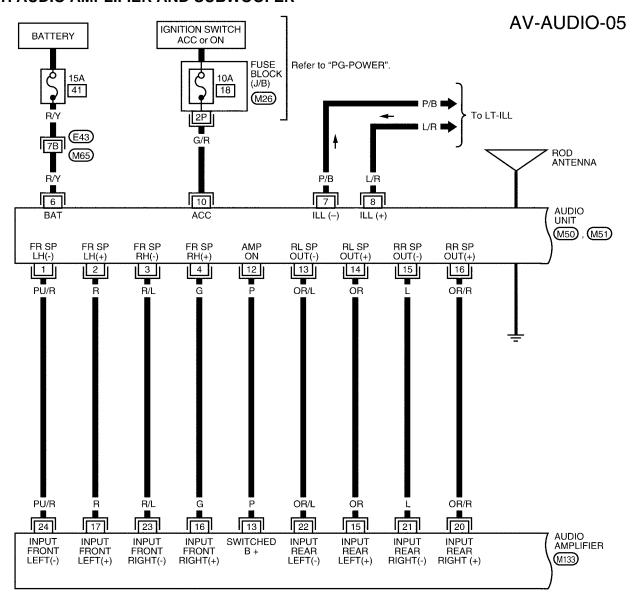
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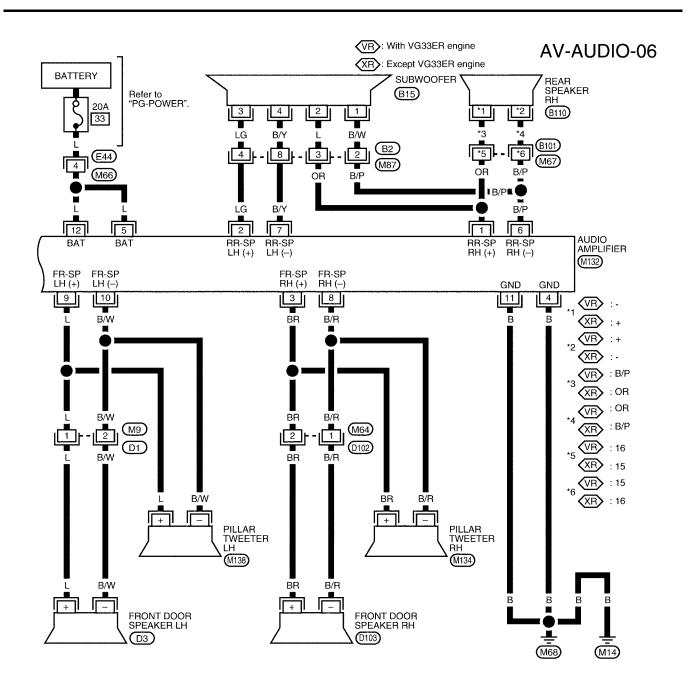
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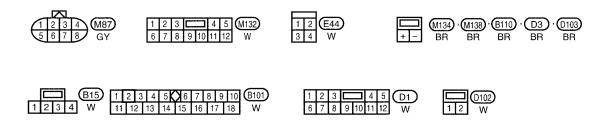
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WITH AUDIO AMPLIFIER AND SUBWOOFER



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AV-AUDIO-07

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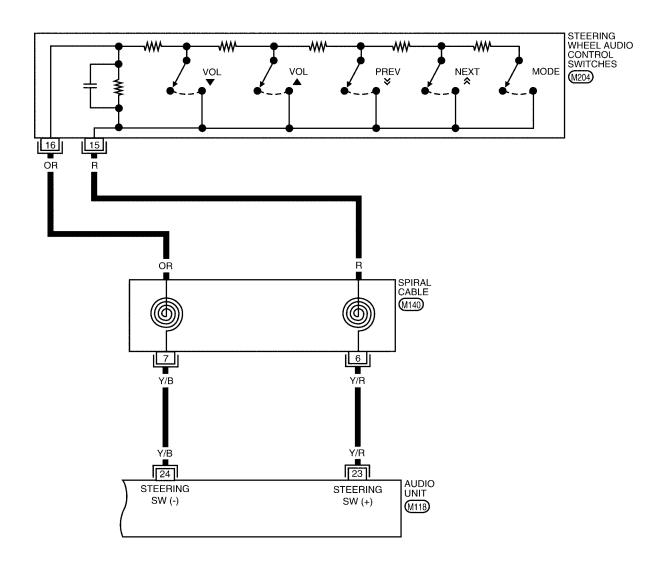
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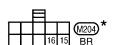
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(M118) W





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

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Trouble Diagnoses AUDIO UNIT (WITHOUT AUDIO AMPLIFIER)

EKS003M

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. Audio unit	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 or inoperative.	1. Speaker	1. Check speaker.		
	2. Audio unit output	2. Check audio unit output voltages.		
	Speaker circuit Audio unit	3. Check wires for open or short between audio unit and speaker.		
		4. Remove audio unit for repair.		
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	Replace ignition condenser or rear window defogge noise suppressor condenser.		
	4. Alternator	4. Check alternator.		
	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	2. Antenna	2. Check antenna.		
accessories on (switch pops and motor noise).	3. Accessory ground	3. Check accessory ground.		
F - F 3 a a	4. Faulty accessory	4. Replace accessory.		

AUDIO UNIT (WITH AUDIO AMPLIFIER)

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. Check audio unit case ground. 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 terminals 5 and 12. Check harness continuity between audio amplifier terminals 4 and 11, and ground. 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. Remove audio unit for repair.

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Symptom	Possible causes	Repair order 1. Check speaker. 2. Check the output circuit to each speaker - between audio unit and audio amplifier - between audio amplifier and each speaker 1. Check antenna. 2. Check audio unit ground. 3. Remove audio unit for repair. 1. Check audio unit ground. 2. Check ground bonding straps. 3. Replace ignition condenser or rear window defogger noise suppressor condenser. 4. Check generator. 5. Check ignition coil and secondary wiring.		
Individual speaker is noisy or inoperative.	Each speaker Output circuit to each speaker			
Audio unit stations are weak or noisy. Audio unit generates noise in AM and FM modes with engine running.	1. Antenna 2. Poor audio unit ground 3. Audio unit 1. Poor audio unit ground 2. Loose or missing ground bonding straps 3. Ignition condenser or rear window defogger noise suppressor condenser 4. Generator 5. Ignition coil or secondary wiring			
6. Audio unit udio unit generates noise AM and FM modes with ccessories on (switch ops and motor noise). teering wheel audio con- ol switch does not oper- ie. 1. Poor audio unit ground 2. Antenna 3. Accessory ground 4. Faulty accessory 1. Steering wheel audio control switch 2. Audio unit output 3. Steering wheel audio control switch circ 4. Audio unit		1. Check audio unit ground. 2. Check antenna. 3. Check accessory ground. 4. Replace accessory. 1. Check steering wheel audio control switch, refer to AV. 17. "STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE". 2. Check audio unit output voltage. 3. Check harness between audio unit and steering switch. 4. Remove audio unit for repair.		

AUDIO UNIT (WITH AUDIO AMPLIFIER AND SUBWOOFER)

Symptom	Symptom Possible causes	
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.
	S. Audio unit	2. 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 presen at terminals 5 and 12.
	S. Addio amplifier	Check harness continuity between audio amplifier ter minals 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	Check the output circuit to each speaker and sub- woofer
		 between audio unit and audio amplifier
		 between audio amplifier and each speaker and sub- woofer
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.

Symptom	Possible causes	Repair order
Audio unit generates noise in AM and FM modes with engine running.	Poor audio unit ground Loose or missing ground bonding straps Ignition condenser or rear window defogger noise suppressor condenser Generator Ignition coil or secondary wiring Audio unit	 Check audio unit ground. Check ground bonding straps. Replace ignition condenser or rear window defogger noise suppressor condenser. Check generator. Check ignition coil and secondary wiring. Remove audio unit for repair.
Audio unit generates noise in AM and FM modes with accessories on (switch pops and motor noise).	Poor audio unit ground Antenna Accessory ground Faulty accessory	Check audio unit ground. Check antenna. Check accessory ground. Replace accessory.
Steering wheel audio control switch does not operate.	Steering wheel audio control switch Audio unit output Steering wheel audio control switch circuit Audio unit	1. Check steering wheel audio control switch, refer to AV- 17, "STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE". 2. Check audio unit output voltage. 3. Check harness between audio unit and steering switch. 4. Remove audio unit for repair.

Inspection SPEAKER

EKS003M2

- 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

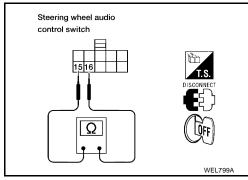
All voltage inspections are made with:

- 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

		Volta	ge (V)		Terminal Wire color	Voltage (V)	
Terminal	Wire color	Base Audio Sys- tem	Premium Audio System	Terminal		Base Audio Sys- tem	Premium Audio System
1	B/W	5 - 7.5	5 - 7.5	9	_	_	_
2	L	5 - 7.5	5 - 7.5	10	G/R	10.8 - 15.6	10.8 - 15.6
3	B/R	5 - 7.5	5 - 7.5	11	_	_	_
4	BR	5 - 7.5	5 - 7.5	12	_	_	_
5	_	_	_	13	B/Y	5 - 7.5	5 - 7.5
6	R/Y	10.8 - 15.6	10.8 - 15.6	14	LG	5 - 7.5	5 - 7.5
7	P/B	0 - 12 (Illumina- tion)	0 - 12 (Illumina- tion)	15	B/P	5 - 7.5	5 - 7.5
8	L/R	0 (Illumination)	0 (Illumination)	16	OR	5 - 7.5	5 - 7.5

STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE



Connector	Terminal	Switch	Resistance Ω (Approx.)
		VOLUME (down) sw	21.7 - 22.2
		VOLUME (up) sw	69.3 - 70.7
M204	15 - 16	PREVIOUS sw	108.9 - 111.1
		NEXT sw	158.4 - 161.6
		MODE sw	326.7 - 333.3

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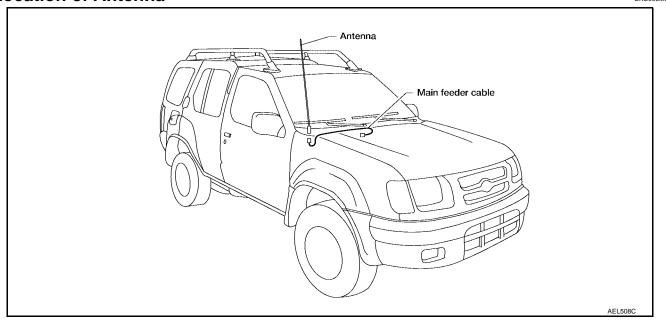
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AUDIO ANTENNA PFP:28200

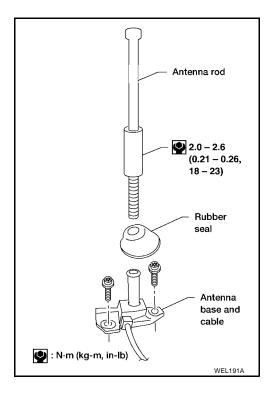
Location of Antenna

EKS003M3



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.

EKS003M4