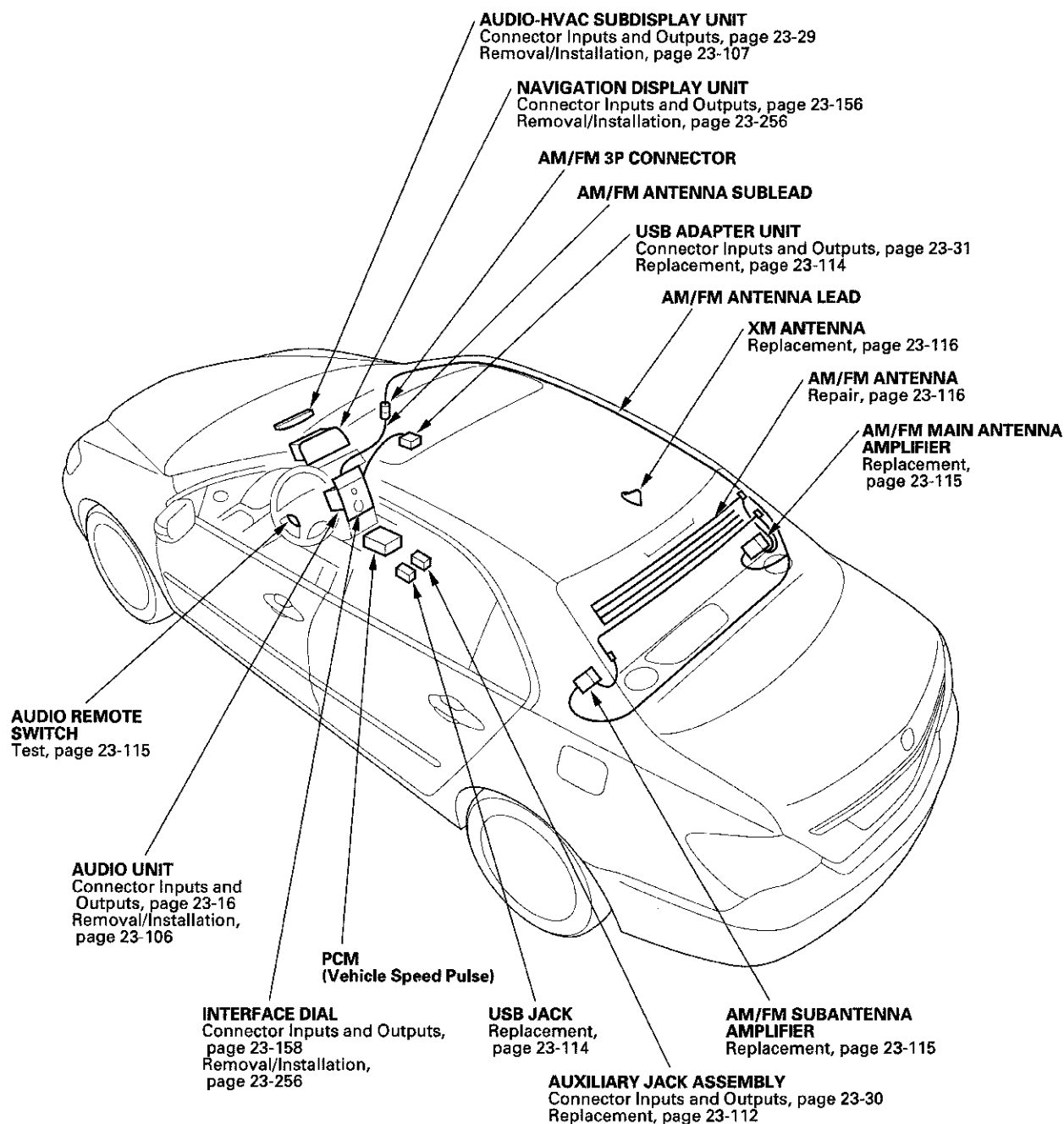


Audio System



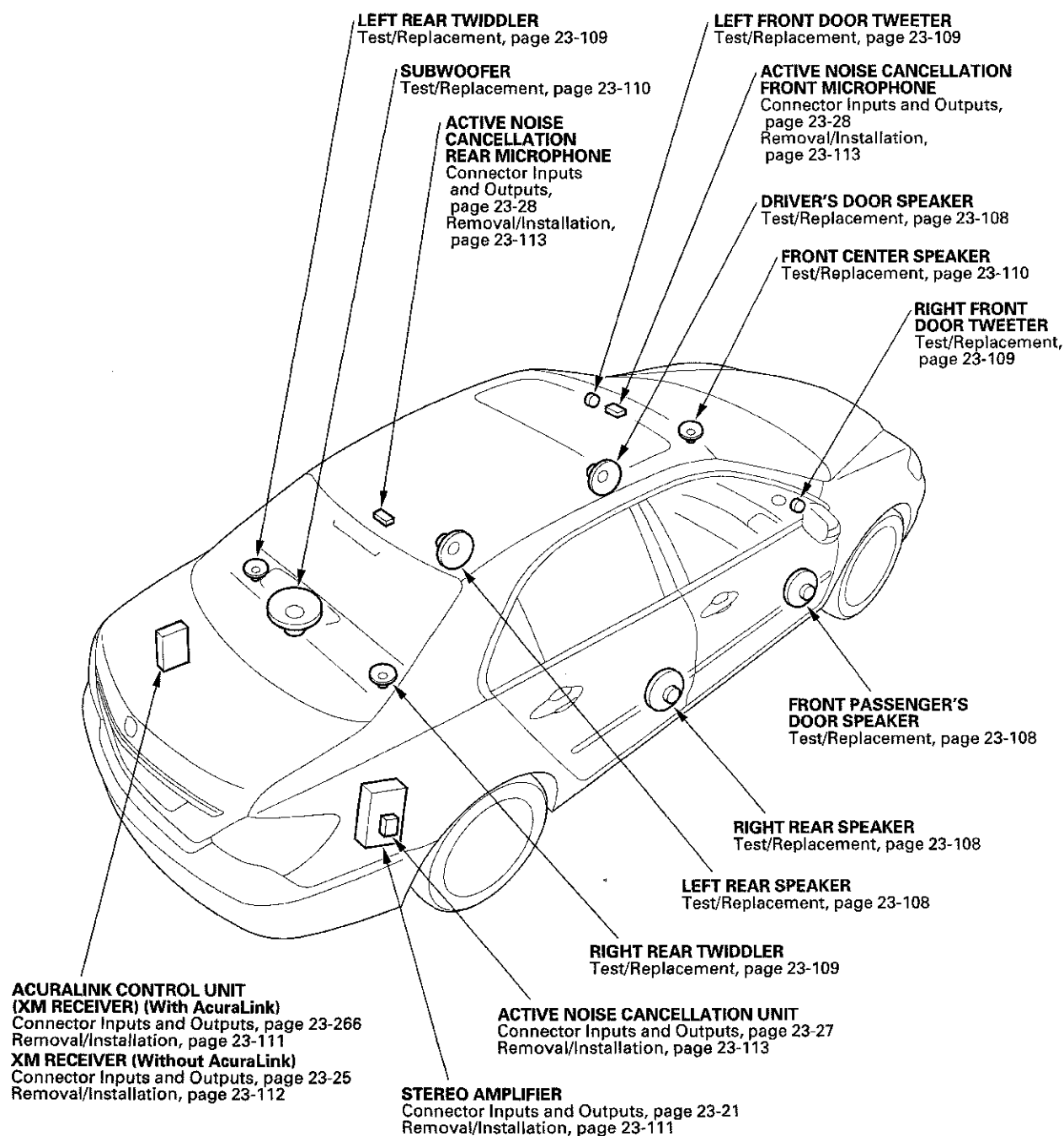
Component Location Index



(cont'd)

Audio System

Component Location Index (cont'd)





Symptom Troubleshooting Index

Symptom	Diagnostic procedure	Also check for
Poor AM or FM radio reception or interference	Symptom Troubleshooting (see page 23-43)	- AM/FM antenna lead and/or sublead short or open in the wire - Antenna module unit
Audio unit power switch will not turn on (No information display and no sound)	Symptom Troubleshooting (see page 23-47)	
Audio unit power switch will not turn off	Symptom Troubleshooting (see page 23-48)	
No sound is heard from the speaker(s) (display is normal)	Symptom Troubleshooting (see page 23-49)	
Audio system sound is weak or distorted (display is normal)	Symptom Troubleshooting (see page 23-54)	
Auxiliary input sound is low or cannot be heard	Symptom Troubleshooting (see page 23-54)	
Radio preset memory is lost	Symptom Troubleshooting (see page 23-56)	
Volume does not change	Symptom Troubleshooting (see page 23-57)	
Radio tuner does not change stations	Symptom Troubleshooting (see page 23-58)	
Audio unit button illumination does not work	Symptom Troubleshooting (see page 23-58)	
Audio remote switch does not work properly	Symptom Troubleshooting (see page 23-59)	
Audio disc does not load	Symptom Troubleshooting (see page 23-61)	Damaged disc
Audio disc does not eject	Symptom Troubleshooting (see page 23-61)	- Damaged disc - Disc with a label
Audio disc changer does not load all six discs	Symptom Troubleshooting (see page 23-62)	Tire pressure (over-inflated), disc smudged, dirty, or scratched
Audio disc changer does not move between discs	Symptom Troubleshooting (see page 23-62)	Foreign objects such as coins or paper labels inserted into the CD changer/player
Audio disc does not play	Symptom Troubleshooting (see page 23-63)	
Audio disc skips	Symptom Troubleshooting (see page 23-63)	Tire pressure (over-inflated), disc smudged, dirty, or scratched
Booming sound while driving with audio unit on or off	Symptom Troubleshooting (see page 23-64)	
USB device does not function	Symptom Troubleshooting (see page 23-73)	
There is no sound from the left speaker when the USB device is connected	Symptom Troubleshooting (see page 23-79)	
There is no sound from the right speaker when the USB device is connected	Symptom Troubleshooting (see page 23-81)	

(cont'd)

Audio System

Symptom Troubleshooting Index (cont'd)

Symptom	Diagnostic procedure	Also check for
Error code: XM NO SIGNAL is displayed	Symptom Troubleshooting (see page 23-83)	
Error code: XM ANTENNA is displayed	Symptom Troubleshooting (see page 23-87)	
XM radio display is blank and no station information is displayed (with AcuraLink)	Symptom Troubleshooting (see page 23-88)	
XM radio display is blank and no station information is displayed (without AcuraLink)	Symptom Troubleshooting (see page 23-92)	
XM radio preset memory is lost (with AcuraLink)	Symptom Troubleshooting (see page 23-95)	
XM radio preset memory is lost (without AcuraLink)	Symptom Troubleshooting (see page 23-96)	
Poor or no sound with XM radio (Audio unit does display XM channels)	Symptom Troubleshooting (see page 23-98)	
No sound when Bluetooth audio is used	HFL Symptom Troubleshooting (see page 23-325)	• Bluetooth phone • GA-NET line open/short • HandsFreeLink control unit • Audio unit-navigation unit
Bluetooth audio does not work	HFL Symptom Troubleshooting (see page 23-330)	• Bluetooth phone • GA-NET line open/short • HandsFreeLink control unit
Bluetooth cell phone cannot be paired	HFL Symptom Troubleshooting (see page 23-332)	• Bluetooth phone • HandsFreeLink control unit • Audio unit-navigation unit
The communication with cell phone is interrupted or changes	HFL Symptom Troubleshooting (see page 23-333)	• Electric wave interference • HandsFreeLink control unit • Audio unit • Bluetooth phone • Harness/connector
Pairing instructions are not displayed on the screen	HFL Symptom Troubleshooting (see page 23-335)	• Navigation display unit • Bluetooth phone • HandsFreeLink control unit • The Bluetooth phone may not be compatible (Some mobile phones do not support a part of the guide.)
Bluetooth cell phone audio function SKIP and PAUSE/RESUME do not work	HFL Symptom Troubleshooting (see page 23-336)	• Bluetooth phone (Some Bluetooth phones do not support the function.) (For further information, please contact the cell phone manufacturer.)



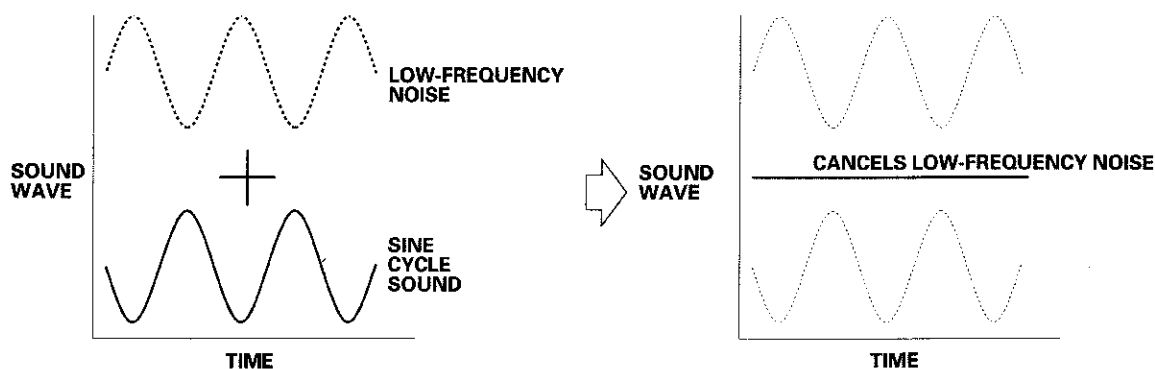
System Description

Active Noise Cancellation (ANC)/Active Sound Control (ASC)

Both the active noise cancellation and active sound control are built into the active sound control unit. Both systems help eliminate unwanted sound from entering the passenger compartment. There are two microphones mounted in the headliner, one just behind the front overhead console and the other just ahead of the overhead rear light module. The microphones listen for frequencies entering the passenger compartment and send a signal to the active noise cancellation unit. The active noise cancellation unit then creates a sound wave that sent out through the speakers to eliminate the unwanted sound.

Active Noise Cancellation (ANC) System

The active noise cancellation system works to cancel engine booming sound up to 2,000 rpm. The audio unit receives the engine speed pulse (NEP) from the PCM and outputs a sine wave through the audio speakers to cancel the low frequency sound from the engine. The active noise cancellation also uses the two microphones to detect and monitor low frequency sound noise in the passenger compartment. The microphones feed information back to the audio unit which adjusts the speaker output to reduce the noise. The active noise cancellation also receives an input from the door open/close (INTR LT) signal from the MICU so that when a door is opened, the active noise cancellation system temporarily stops working.



Active Sound Control (ASC) System

The active sound control is the next generation of eliminating unwanted sound in the passenger compartment. The active sound control has a much broader range than the active noise cancellation system. In addition to the microphones in the headliner, the active sound control also receives input from the engine speed pulse (NEP).

(cont'd)

Audio System

System Description (cont'd)

Overview

The audio unit acts as the processor for all audio functions. You can select the audio functions from the front panel, the audio remote (on steering wheel), or by using the navigation voice control system. The audio display provides the current front and rear audio status. For vehicles with the navigation option, additional audio information is available by touching the audio button. (See the owner's manual for more details.)

Each audio component passes its audio signal to the audio unit. In addition, it communicates with the audio unit via the GA-Net bus. Any open connection in this circuit will cause audio and navigation functions to appear inoperative.

With the premium sound system, an audio amplifier unit powers the speakers, otherwise the speakers are powered directly by the audio unit.

The 6CD changer output can be directed to the audio unit.

The XM radio plays through the audio unit.

A security signal is daisy-chained between the audio and navigation components and integrated into the vehicle's alarm system.

The optional navigation system provides voice control for the front/rear audio, the XM, and the CD player. Voice control commands are communicated through the GA-Net (audio unit). When using the TALK/BACK or route guidance (RG), only the center speaker is muted and the front speakers give the navigation instructions. When using the HFL/AcuraLink, the center speaker, the rear speakers, and the subwoofer are muted and the front speakers give the telephone sound. When using the HFL/AcuraLink and the RG (Route Guidance) or voice response, the center speaker, the rear speakers, and the subwoofer are muted and the front speakers give the telephone sound and the navigation instructions. Muting commands are passed on the GA-Net bus. For more information, see the navigation section. The outline of the audio interruption function is shown in the following table.

Contents	Audio output					
	Center CH	Left front CH	Right front CH	Right rear CH	Left rear CH	Subwoofer CH
Voice Response	MUTE	Navigation sound	Navigation sound	Audio	Audio	Audio
Route Guidance	MUTE	Navigation sound	Navigation sound	Audio	Audio	Audio
HFL/AcuraLink	MUTE	Telephone sound	Telephone sound	MUTE	MUTE	MUTE
HFL/AcuraLink and RG or TALK/BACK	MUTE	Telephone sound and navigation sound	Telephone sound and navigation sound	MUTE	MUTE	MUTE



Bluetooth Audio

Bluetooth audio allows music phones to play music via a car audio system using Bluetooth technology. You can control the phone's music player remotely using the wireless connection. Bluetooth phones must be paired to the vehicle to use the Bluetooth audio function.

- You can play music stored in your cell phone using the wireless connection^{*1}
- You can choose next song, previous song and resume/pause via wireless^{*2}

* 1: The phone must support AVRC1.0, A2DP1.0 for bluetooth technology.

* 2: Not all phones support the Bluetooth audio function.

Supported Devices

- Bluetooth music phones that support AVRC1.0/A2DP1.0.
- Bluetooth adapters for portable music devices including iPod are not supported.

NOTE:

- Availability of the functions depends on the connected device.
- The latest support information is updated through the website www.acura.com/handsfreelink.

Pairing a Cell Phone

To pair a cell phone, refer to pairing a cell phone in the HandsFreeLink system (see page 23-298). Once a cell phone is paired, the process does not have to be repeated for the phone.

(cont'd)

Audio System

System Description (cont'd)

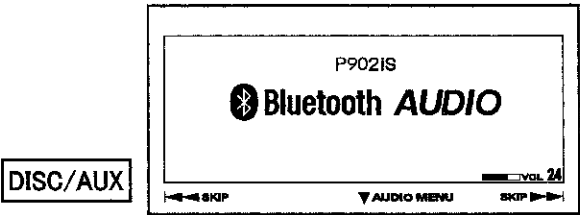
How to play the Bluetooth Audio

Procedure

1. Push the DISP/AUX button to select the Bluetooth Audio source.

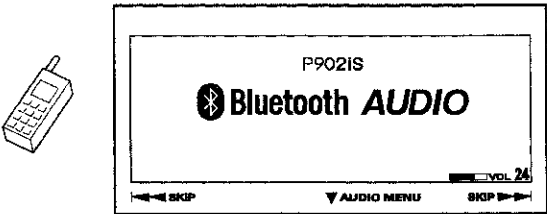
NOTE:

- If you push the DISC/AUX button when no cell phone is connected, NO CONNECT is displayed.
- If you see NO CONNECT when you are using cell phone music function, check that the device is properly paired, the cell phone may not be compatible. See www.acura.com/hansfreelink for more information.
- Music titles and artist names are not displayed.



2. Start playing the music in the paired cell phone.

NOTE: Depending on the cell phone, the music may start automatically, or the user may need to select headset as an audio output.

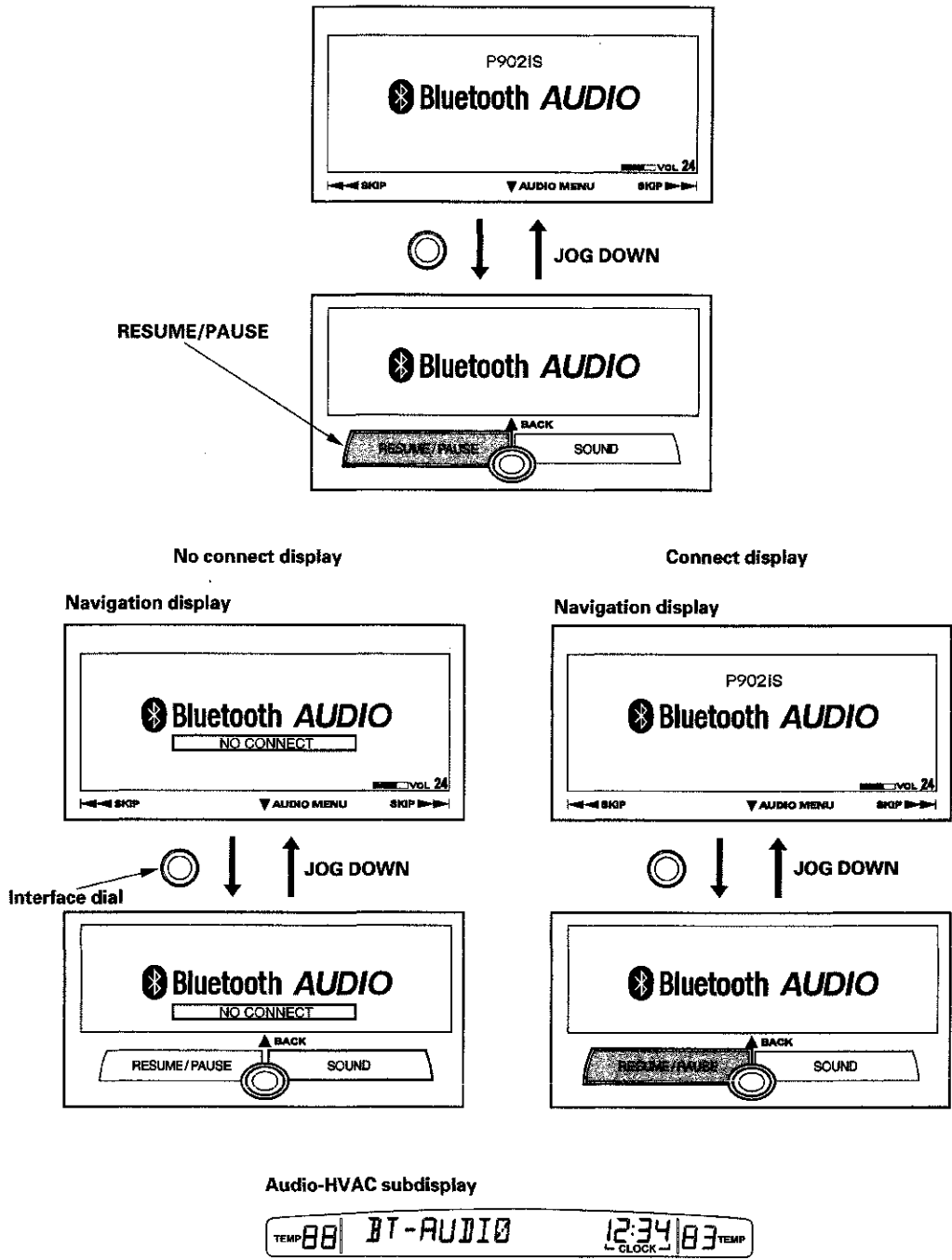


3. A user can select the next song or the previous song using the SKIP button.





4. A user can select pause and resume by selecting [RESUME/PAUSE] in the AUDIO MENU, using the interface dial.

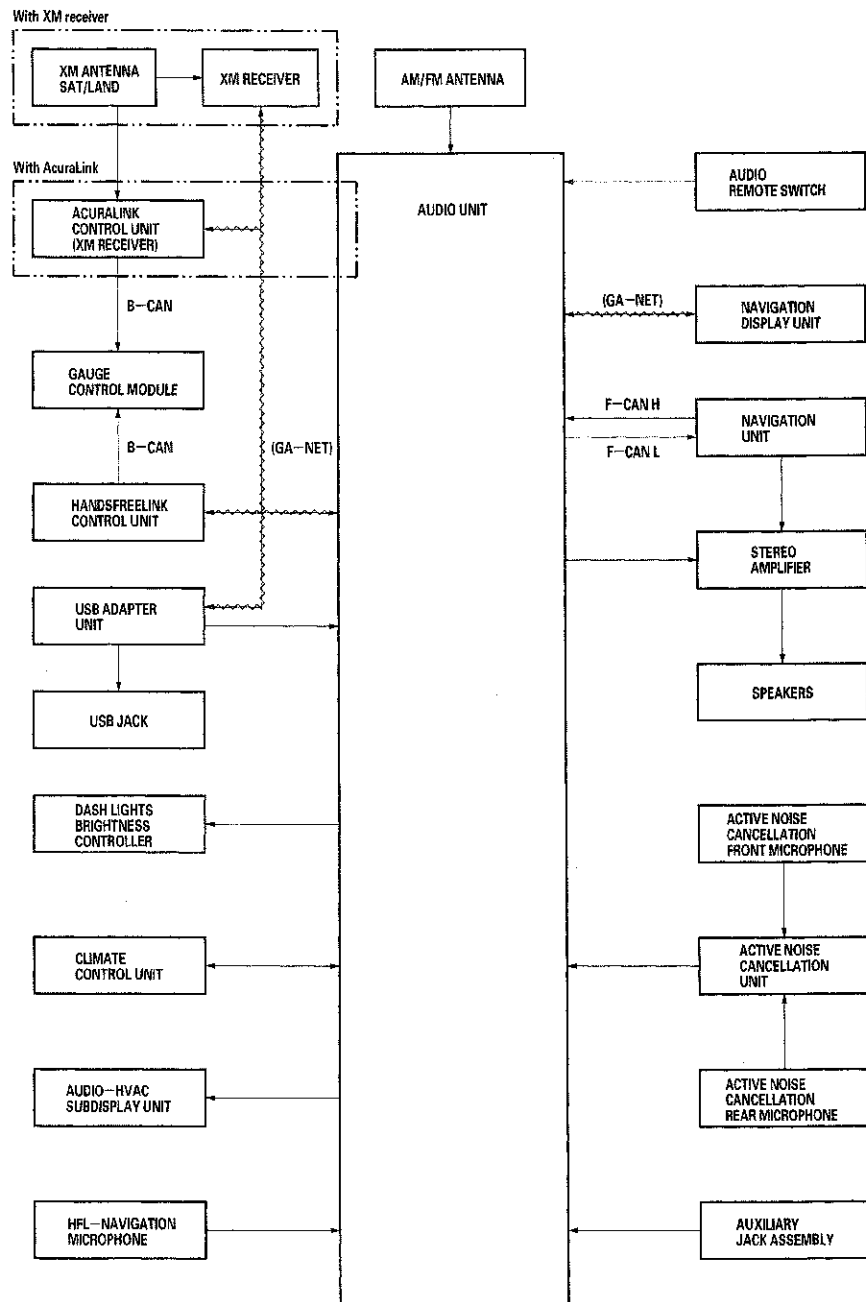


(cont'd)

Audio System

System Description (cont'd)

System Diagram





NOTE: All items may not apply to this vehicle. See the owner's manual for more information.

Audio Glossary

Item	Definition
Active noise cancellation	The active noise cancellation system cancels some of the vehicle noise. This occurs in the 1,500—2,400 rpm range. Microphones detect the low frequency sound, and the system outputs a canceling sound from the audio speaker.
Active sound control	The active sound control is the next generation of sound cancellation technology that is built into the same unit as the active noise cancellation. The active sound control cancels noise in a broader rpm range than the active noise cancellation unit.
AM (Amplitude Modulation)	The type of transmission used in the standard radio broadcast band from 530 to 1710 kHz.
Amplifier	A device that increases the level of a signal by increasing the current or voltage.
Antenna	A device used to send or receive electromagnetic waves through the air.
ATA (PC Card)	A type of card that has been tested for use in playing WMA, and MP3 music files in the PC Card slot. Sizes of up to 1 GB have been tested.
Audio remote switch	The switches on the steering wheel that control the audio system.
Auxiliary jack	Allows the client to use a portable audio device to input audio recordings.
Balance	A control that changes the relative volume of the left and right channels.
Band	A range of frequencies between two definite limits. Bands are assigned by the Federal Communications Commission for specific uses.
Bass	An adjustment for the low frequency sounds of around 160 Hz and below.
Bluetooth Audio	Allows the client to play audio recordings stored on their cell phone through the audio system.
Byte	A unit of storage for computer files and memory. A CD holds approximately 700 million bytes.
Cassette	Audio or video magnetic tape container having two reels. Clients can insert it for play back.
Compact flash	A standard for small-size (3 x 4 cm), memory cards used in mobile computers, PDAs, digital cameras. Compact flash memory cards are available in size of 32 MB up to 4 GB or more and can be played in the audio PC slot. Sizes above 1 GB have not been tested.
CD (Compact Disc)	A 4.5-inch plastic disc containing digital audio recording that is played optically on a laser equipped player. Never use discs with a paper label. In a hot vehicle, labels can curl up and jam the unit.
CD (audio disc) changer	CD player that can store and play more than one CD. Two types are available. Some units accept CDs fed into the changer one at a time, and others accept a magazine (with CDs stacked in a container).
CD player	A component designed to play compact disc recordings using a laser optical pickup. The signal from a CD player usually requires amplification.
CSF (Cold Start Fix) screens	These screens are displayed if the system requires a GPS initialization. The vehicle should be moved outside into an open area away from buildings/power lines.
Decibels (db)	A method of measuring sound or radio signal strength received by the audio unit antenna.
Distortion	Inexact reproduction of an audio signal caused by playing music at levels the audio system cannot handle. You will typically hear this as static, pops, or crackles.
Dolby (noise reduction)	A processing system developed by Dolby Laboratories that reduces the background noise on recording media. The result is a cleaner playback from the audio system.
DUET	A serial data communication line used for sub display.
DVD (Digital Versatile Disc)	A 4.5-inch CD-like format used for storing movies with digital audio and video features. The DVD-A format is a DVD format designed for DVD audio systems. Some vehicles can play DVD and DVD-A formats.

(cont'd)

Audio System

System Description (cont'd)

Audio Glossary

Item	Definition
Equalizer	A device that changes the relative volume of individual frequency bands to suit personal tastes of the listener.
Fader	The control that adjusts the relative volume levels of front and rear speakers in a four-speaker system.
Format	To prepare a PC Card to receive files this function is done on a PC. Always choose either FAT or FAT32, as the NTFS format is not accepted by the system. Pick the default sectors for the format method selected.
FM (Frequency Modulation)	The form of modulation used for radio and television sound transmission in most of the world. Less prone to interference than AM. The FM broadcast band in North America covers roughly 87.7 to 107.9 MHz.
GA-Net	The GA-Net allows the audio unit to communicate with all the audio and navigation components in a vehicle. If there is an open in the GA-Net or components, the entire audio and navigation system may appear inoperative.
GB (Gigabyte)	A unit of memory or disc storage equal to billion bytes (1000 million bytes).
HDD	Abbreviation for hard disc drive. They are sensitive to heat and it is not recommended that they be used in the PC card slot for playing audio files.
Hertz (Hz)	The unit of frequency equal to one cycle per second (cps). One kilohertz (kHz) equals 1,000 cps; one megahertz (MHz) equals 1 million cps.
Integrated amplifier	A component that combines a pre amp and a power amp into a single unit. A receiver combines an integrated amp and a tuner into a single unit.
Jewel case	The hard plastic case that contains a compact disc or DVD. Always use a jewel case to prevent scratches on the underside of a CD or DVD.
LCD (Liquid Crystal Display)	A type of digital display that changes reflectance or transmittance when an electrical field is applied to it.
Memory	Circuitry or devices that hold information in electrical or magnetic form, such as the AM/FM radio presets.
MB (Megabyte)	One million bytes. Written as 1 MB. Megabytes are used as a measure of digital storage space. For example, a CD can hold 650 MB.
Mic	An abbreviation for microphone. For vehicles with navigation, the microphone accepts navigation voice commands to control audio and navigation functions.
MP3 music files	MP3 is an audio coding format. MP3 is a popular audio compression format on the Internet and computers. CDs and PC Cards with these files can be played on some vehicle's audio system.
Mute	When the navigation gives guidance, the front speakers are muted (no music). When you use the voice control system, all of the speakers are muted.
Noise	Unwanted random sounds like buzzing, hiss, pops, static, whine, etc.
PC card	The slot used for playing MP3 and WMA music files. The PC Card is usually a combination of a small flash card in a PCMCIA adaptor that slides into the slot. The ATA, SD, and compact flash types of cards have been tested up to 1 GB.
PCMCIA	A computer standard for the slot that the PC card slides into. Another term for the PC card slot.
Processor	The part of an audio device that performs tasks/calculations. In the audio unit, the processor handles muting to allow the navi to speak its voice commands, and the decoding/playback of the sound files etc.
Radio	A head unit that combines a tuner, a preamplifier, and often a power-amplifier.
Route guidance (RG)	Spoken voice used for turn-by-turn navigation from the audio speakers.



Audio Glossary

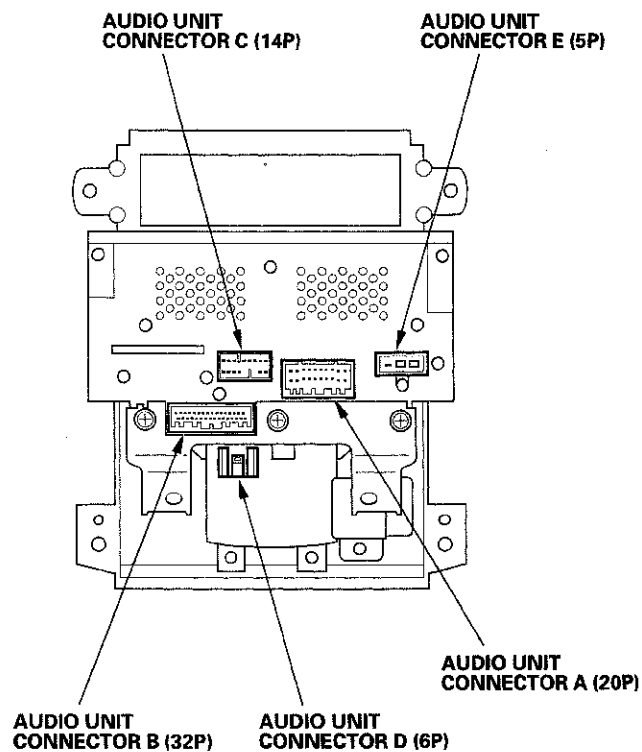
Item	Definition
Stereo	A recording of at least two channels where you can hear sound or music from the left or right side.
SD (Secure Digital) card	This compact type of memory card allows for fast data transfer and has built-in security functions. SD cards have a small write-protection switch on the side.
Shield	A metallic foil or braided wire layer surrounding conductors which are designed to prevent electrostatic or electromagnetic interference (noise) from external sources such as buzzing, or popping sounds heard on the speakers.
Speaker (Loudspeaker)	A device that converts electrical energy into acoustical energy (sound).
Speed-sensitive volume compensation (SVC)	The SVC increases the audio volume to compensate for increased interior noise when the vehicle is driven at freeway speeds.
Subwoofer	A loudspeaker made to reproduce the lowest audio frequencies, about 25 Hz to 125 Hz.
Track	A sound recording on a CD, tape, or PC Card.
Treble	An adjustment to control the volume of the high frequency sounds.
Tuner	A component (or part of a component) that receives radio signals and selects one broadcast from many.
Tweeter	A speaker designed to reproduce the higher frequencies (treble) only.
USB jack	Allows the client to play data such as input audio recording from portable audio devices (such as i-pod) or data from USB flash memory.
Voice coil	A coil of wire wrapped around a tube and then attached to the speaker cone or diaphragm. When an audio signal is applied, the coil becomes an electromagnet and interacts with the permanent magnet causing the cone or diaphragm to vibrate. We interpret these vibrations as sound.
Volume control	Allows you to control the loudness of the music.
WMA music file	Windows Media Audio File. This is an accepted format for music files to be played on either a CD-R, a CD-RW or a PC Card.
Woofer	A speaker that is designed to reproduce low (bass) frequencies only.
XM radio	Satellite based radio transmission, which also uses a ground based repeater network to ensure seamless reception. The channels originate from XM's broadcast center, in Washington, DC, and uplink to two satellites. These satellites transmit the signal across the entire continental United States.
XM receiver	The external component that receives and processes the XM signals from the XM satellites, and terrestrial (land) stations. The audio unit communicates to the XM receiver over the GA-Net bus.

(cont'd)

Audio System

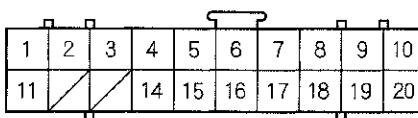
System Description (cont'd)

Audio Unit Connector for Inputs and Outputs





AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
A1	WHT	RADIO SW +B	Stereo amplifier
A2	PUR	ACC	No. 32 (10 A) fuse in the driver's under-dash fuse/relay box
A3	ORN	REMOTE SW	Audio remote switch
A4	BRN	NAVI SCTY	Navigation display unit
A5	BLU	RR R+	Stereo amplifier
A6	PUR	RR L+	Stereo amplifier
A7	GRN	FR R+	Stereo amplifier
A8	PNK	FR L+	Stereo amplifier
A9	LT BLU	ILL+	No. 7 (7.5 A) fuse in the passenger's under-dash fuse/relay box
A10	WHT	+B	No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box
A11	BRN	REMOTE SW GND	Audio remote switch
A14	GRY	PRE AMP SHILD	Shield for terminals No. 5, No. 6, No. 7, No. 8, No. 15, No. 16, No. 17, and No. 18
A15	BRN	RR R-	Stereo amplifier
A16	LT GRN	RR L-	Stereo amplifier
A17	LT BLU	FR R-	Stereo amplifier
A18	RED	FR L-	Stereo amplifier
A19	ORN	ILL-	Dash lights brightness control
A20	BLK	GND	Body ground to G504

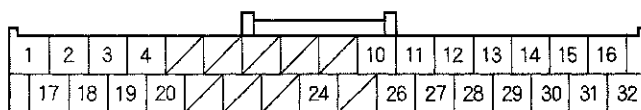
* : The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the schematic.

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Audio System

System Description (cont'd)

AUDIO UNIT CONNECTOR B (32P)



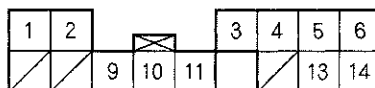
Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
B1	BRN	FR CTR+	Stereo amplifier
B2	PNK	SUB+	Stereo amplifier
B3	GRY*	BOSE BUS SHILD	Shield for terminals No. 4 and No. 20
B4	GRN	BOSE BUS+	Stereo amplifier
B10	RED	CLK-AC	Climate control unit
B11	ORN	IMS 1	Smart ECU
B12	PNK	ACC	Audio-HVAC subdisplay unit
B13	GRN	BLANK	Audio-HVAC subdisplay unit
B14	YEL	CLOCK	Audio-HVAC subdisplay unit
B15	RED	LOAD	Audio-HVAC subdisplay unit
B16	BLU	LCD BL+	Audio-HVAC subdisplay unit
B17	LT GRN	FR CTR-	Stereo amplifier
B18	LT BLU	SUB-	Stereo amplifier
B19	GRY*	AMP SHILD	Shield for terminals No. 1, No. 2, No. 17, No. 18
B20	RED	BOSE BUS-	Stereo amplifier
B24	LT GRN	HFL MUTE	HandsFreeLink control unit, HFL/navigation microphone
B26	YEL	SO-AC	Climate control unit
B27	PNK	IMS 2	Smart ECU
B28	PUR	5V GND	Audio-HVAC subdisplay unit
B29	GRY*	SHILD	Shield for terminals No. 13, No. 14, No. 15, No. 18, No. 30, and No. 31
B30	BLK	SEG TEST	Audio-HVAC subdisplay unit
B31	WHT	DATA	Audio-HVAC subdisplay unit
B32	ORN	LCD BL-	Audio-HVAC subdisplay unit

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the schematic.



AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
C1	WHT	+B	USB adapter unit, XM receiver unit ^{*2}
C2	PUR	SYS ON	USB adapter unit, XM receiver unit ^{*2}
C3	GRY ^{*3}	GA-NET BUS SH	Shield for terminals No. 9 and No. 10
C4	GRY	AUDIO SH	Shield for terminal No. 5, No. 6, No. 13, and No. 14
C5	GRN	AUDIO R+	USB adapter unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , MX receiver unit ^{*2}
C6	WHT	AUDIO L+	USB adapter unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver unit ^{*2}
C9	GRN	GA-NET BUS+	Navigation display unit
C10	RED	GA-NET BUS-	Navigation display unit
C11	BLK	GND	USB adapter unit, XM receiver unit ^{*2}
C13	BLK	AUDIO R-	USB adapter unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver unit ^{*2}
C14	RED	AUDIO L-	USB adapter unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver unit ^{*2}

* 1: With AcuraLink

* 2: With XM receiver

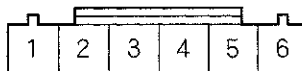
* 3: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the schematic.

(cont'd)

Audio System

System Description (cont'd)

AUDIO UNIT CONNECTOR D (6P)

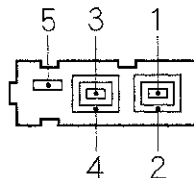


Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
D1	YEL	AUX DET	Auxiliary jack assembly
D2	BLK	AUX GND	Auxiliary jack assembly
D3	RED	AUX R— CH	Auxiliary jack assembly
D4	GRN	AUX SIG GND	Auxiliary jack assembly
D5	WHT	AUX L— CH	Auxiliary jack assembly
D6	GRY*	AUX SH GND	Shield for terminals No. 1, No. 2, No. 3, No. 4, and No. 5

* : The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the schematic.

AUDIO UNIT CONNECTOR E (5P)



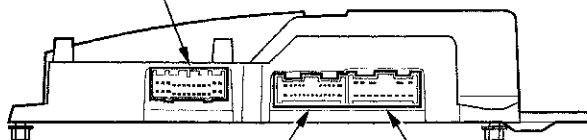
Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
E1	—	RF IN	AM/FM subantenna amplifier
E2	—	RF SH	Shield for terminal No. 1
E3	—	RF IN	AM/FM main antenna amplifier
E4	—	RF SH (AM/FM)	Shield for terminal No. 3
E5	—	ANT	AM/FM antenna amplifier



Stereo Amplifier Connector for Inputs and Outputs

STEREO AMPLIFIER CONNECTOR A (26P)



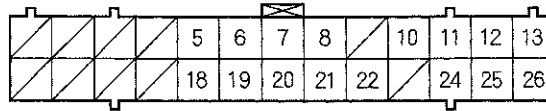
STEREO AMPLIFIER CONNECTOR C (23P)

STEREO AMPLIFIER CONNECTOR B (14P)

Audio System

System Description (cont'd)

STEREO AMPLIFIER CONNECTOR A (26P)

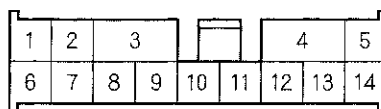


Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
A5	BLU	RR R+	Audio unit
A6	BRN	RR R-	Audio unit (RR R-)
A7	PNK	SUB+	Audio unit
A8	LT BLU	SUB-	Audio unit
A10	GRN	BOSE BUS+	Audio unit
A11	RED	BOSE BUS-	Audio unit
A12	GRN	FR R+	Audio unit
A13	LT BLU	FR R-	Audio unit
A18	WHT	DIAG	Active noise cancellation unit
A19	PUR	RR L+	Audio unit
A20	LT GRN	RR L-	Audio unit
A21	BRN	FR CTR+	Audio unit
A22	LT GRN	FR CTR-	Audio unit
A24	GRY	REMOTE ON	Active noise cancellation unit
A25	PNK	FR L+	Audio unit
A26	RED	FR L-	Audio unit



STEREO AMPLIFIER CONNECTOR B (14P)



Wire side of female terminals

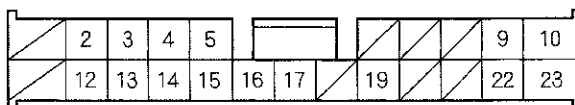
Cavity	Wire Color	Terminal Name	Connects to
B1	GRY	FR SP—	Front passenger's door speaker and right front door tweeter
B2	BRN	RL SP—	Left rear speaker
B3	BLK	GND	Body ground to G652
B4	WHT	+B	No. 3 (30 A) fuse in the passenger's under-dash fuse/relay box
B5	BRN	SUBW SP+	Subwoofer
B6	LT GRN	FR SP+	Front passenger's door speaker and right front door tweeter
B7	GRY	RL SP+	Left rear speaker
B8	BLU	RR SP+	Right rear speaker
B9	ORN	RR SP—	Right rear speaker
B10	PUR	RL TWD+	Left rear twiddler
B11	LT BLU	RL TWD—	Left rear twiddler
B12	GRY	RR TWD+	Right rear twiddler
B13	BLU	RR TWD—	Right rear twiddler
B14	GRN	SUBW SP—	Subwoofer

(cont'd)

Audio System

System Description (cont'd)

STEREO AMPLIFIER CONNECTOR C (23P)

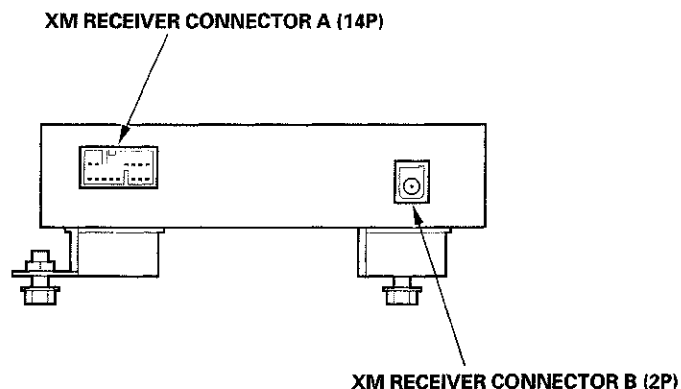


Wire side of female terminals

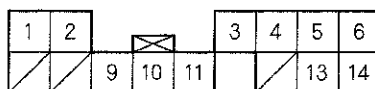
Cavity	Wire Color	Terminal Name	Connects to
C2	RED	RG-L+	Navigation unit
C3	GRN	RG-L GND	Navigation unit
C4	BLU	MIC R IN—	Active noise cancellation unit, Active noise cancellation rear microphone
C5	RED	MIC R IN+	Active noise cancellation unit, Active noise cancellation rear microphone
C9	PNK	CTR SP—	Front center speaker
C10	LT GRN	FL SP—	Driver's door speaker and left front door tweeter
C12	GRN	TELM SIG+	HandsFreeLink control unit
C13	RED	TELM SIG—	HandsFreeLink control unit
C14	PUR	F+	Active noise cancellation unit
C15	ORN	F—	Active noise cancellation unit
C16	PNK	R+	Active noise cancellation unit
C17	GRN	R—	Active noise cancellation unit
C19	WHT	RADIO SW +B	Audio unit
C22	BLU	CTR SP+	Front center speaker
C23	LT BLU	FL SP+	Driver's door speaker and left front door tweeter



XM Receiver Connector for Inputs and Outputs (With XM receiver)



XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
A1	WHT	+B	Audio unit, USB adapter unit
A2	PUR	SYS ON	Audio unit, USB adapter unit
A3	GRY*	GA-NET BUS SH	Shield for terminals No. 9 and No. 10
A4	GRY*	AUDIO SH	Shield for terminals No. 5, No. 6, No. 13, and No. 14
A5	GRN	AUDIO R+	Audio unit, HandsFreeLink control unit, USB adapter unit
A6	WHT	AUDIO L+	Audio unit, HandsFreeLink control unit, USB adapter unit
A9	GRN	GA-NET BUS+	HandsFreeLink control unit, USB adapter unit, Navigation display unit, Navigation unit
A10	RED	GA-NET BUS-	HandsFreeLink control unit, USB adapter unit, Navigation display unit, Navigation unit
A11	BLK	GND	Audio unit, USB adapter unit
A13	BLK	AUDIO R-	Audio unit, HandsFreeLink control unit, USB adapter unit
A14	RED	AUDIO L-	Audio unit, HandsFreeLink control unit, USB adapter unit

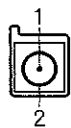
* : The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the schematic.

(cont'd)

Audio System

System Description (cont'd)

XM RECEIVER CONNECTOR B (2P)

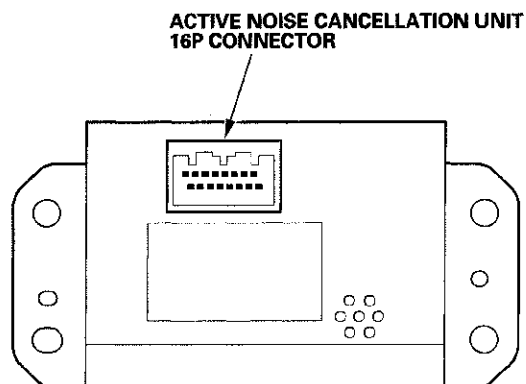


Terminal side of female terminals

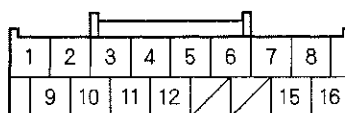
Cavity	Wire Color	Terminal Name	Connects to
B1	—	INPUT	XM antenna
B2	—	GND	Shield for terminal No. 1



Active Noise Cancellation Unit Connector for Inputs and Outputs



ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

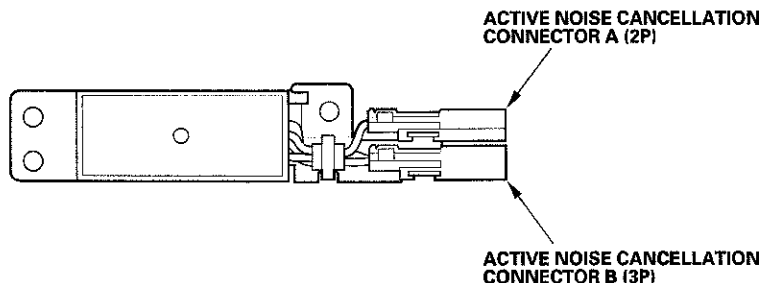
Cavity	Wire Color	Terminal Name	Connects to
1	PNK	R+	Stereo amplifier
2	PUR	F+	Stereo amplifier
3	LT GRN	MIC F IN+	Active noise cancellation front microphone
4	RED	MIC R IN+	Stereo amplifier, Active noise cancellation rear microphone
5	BLU	MIC R IN-	Stereo amplifier, Active noise cancellation rear microphone
6	GRY	REMOTE ON	Stereo amplifier
7	BLK	GND	Body ground to G652
8	WHT	+B	No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box
9	GRN	R-	Stereo amplifier
10	ORN	F-	Stereo amplifier
11	LT BLU	MIC F IN-	Active noise cancellation front microphone
12	WHT	DIAG	Stereo amplifier
15	GRN	NEP	PCM, Test tachometer connector
16	PNK	INTR LT-	Multiplex integrated control unit (MICU)

(cont'd)

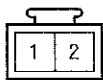
Audio System

System Description (cont'd)

Active Noise Cancellation Microphone Connector for Inputs and Outputs



ACTIVE NOISE CANCELLATION FRONT or REAR MICROPHONE CONNECTOR A (2P)



Terminal side of male terminals

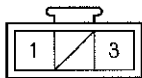
(Front)

Cavity	Wire Color	Terminal Name	Connects to
A1	LT BLU	MIC F IN—	Active noise cancellation unit
A2	LT GRN	MIC F IN+	Active noise cancellation unit

(Rear)

Cavity	Wire Color	Terminal Name	Connects to
A1	BLU	MIC R IN—	Stereo amplifier, Active noise cancellation unit
A2	RED	MIC R IN+	Stereo amplifier, Active noise cancellation unit

ACTIVE NOISE CANCELLATION FRONT or REAR MICROPHONE CONNECTOR B (3P)

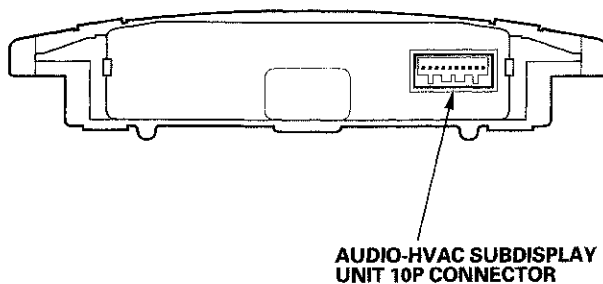


Terminal side of male terminals

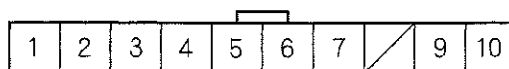
Cavity	Wire Color	Terminal Name	Connects to
B1	BLK	GND	Body ground to G652
B3	PUR	ACC	No. 32 (10 A) fuse in the driver's under-dash fuse/relay box



Audio-HVAC Subdisplay Unit Connector for Inputs and Outputs



AUDIO-HVAC SUBDISPLAY UNIT 10P CONNECTOR



Wire side of female terminals

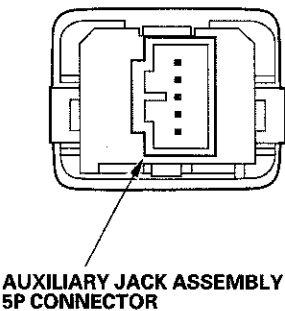
Cavity	Wire Color	Terminal Name	Connects to
1	PUR	5 V GND	Audio unit
2	PNK	ACC	Audio unit
3	BLK	SEG TEST	Audio unit
4	GRN	BLANK	Audio unit
5	YEL	CLOCK	Audio unit
6	WHT	DATA	Audio unit
7	RED	LOAD	Audio unit
9	ORN	LCD BL—	Audio unit
10	BLU	LCD BL+	Audio unit

(cont'd)

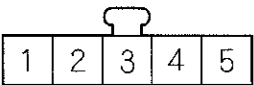
Audio System

System Description (cont'd)

Auxiliary Jack Assembly Connector for Inputs and Outputs



AUXILIARY JACK ASSEMBLY 5P CONNECTOR

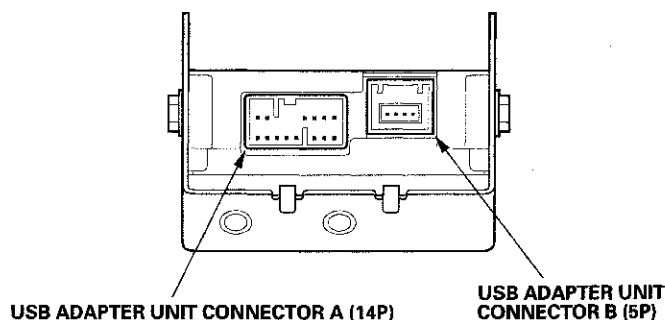


Wire side of female terminals

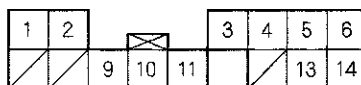
Cavity	Wire Color	Terminal Name	Connects to
1	YEL	AUX DET	Audio unit
2	BLK	AUX GND	Audio unit
3	GRN	AUX SIG GND	Audio unit
4	WHT	AUX L-CH	Audio unit
5	RED	AUX R-CH	Audio unit



USB Adapter Unit for Inputs and Outputs



USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
A1	WHT	+B	Audio unit, XM receiver ^{*1}
A2	PUR	SYS ON	Audio unit, XM receiver ^{*1}
A3	GRY ^{*3}	GA-NET BUS SH	Shield for terminals No. 9 and No. 10
A4	GRY ^{*3}	AUDIO SH	Shield for terminals No. 5, No. 6, No. 13, and No. 14
A5	GRN	AUDIO R+	Audio unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver ^{*2}
A6	WHT	AUDIO L+	Audio unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver ^{*2}
A9	GRN	GA-NET BUS+	HandsFreeLink control unit, Navigation display unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver ^{*2} , Navigation unit
A10	RED	GA-NET BUS-	HandsFreeLink control unit, Navigation display unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver ^{*2} , Navigation unit
A11	BLK	GND	Audio unit, XM receiver ^{*2}
A13	BLK	AUDIO R-	Audio unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver ^{*2}
A14	RED	AUDIO L-	Audio unit, HandsFreeLink control unit, AcuraLink control unit (XM receiver) ^{*1} , XM receiver ^{*2}

* 1: With AcuraLink

* 2: With XM receiver

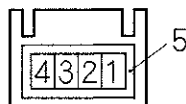
* 3: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire shown on the circuit diagram.

(cont'd)

Audio System

System Description (cont'd)

USB Adapter Unit Connector B (5P)

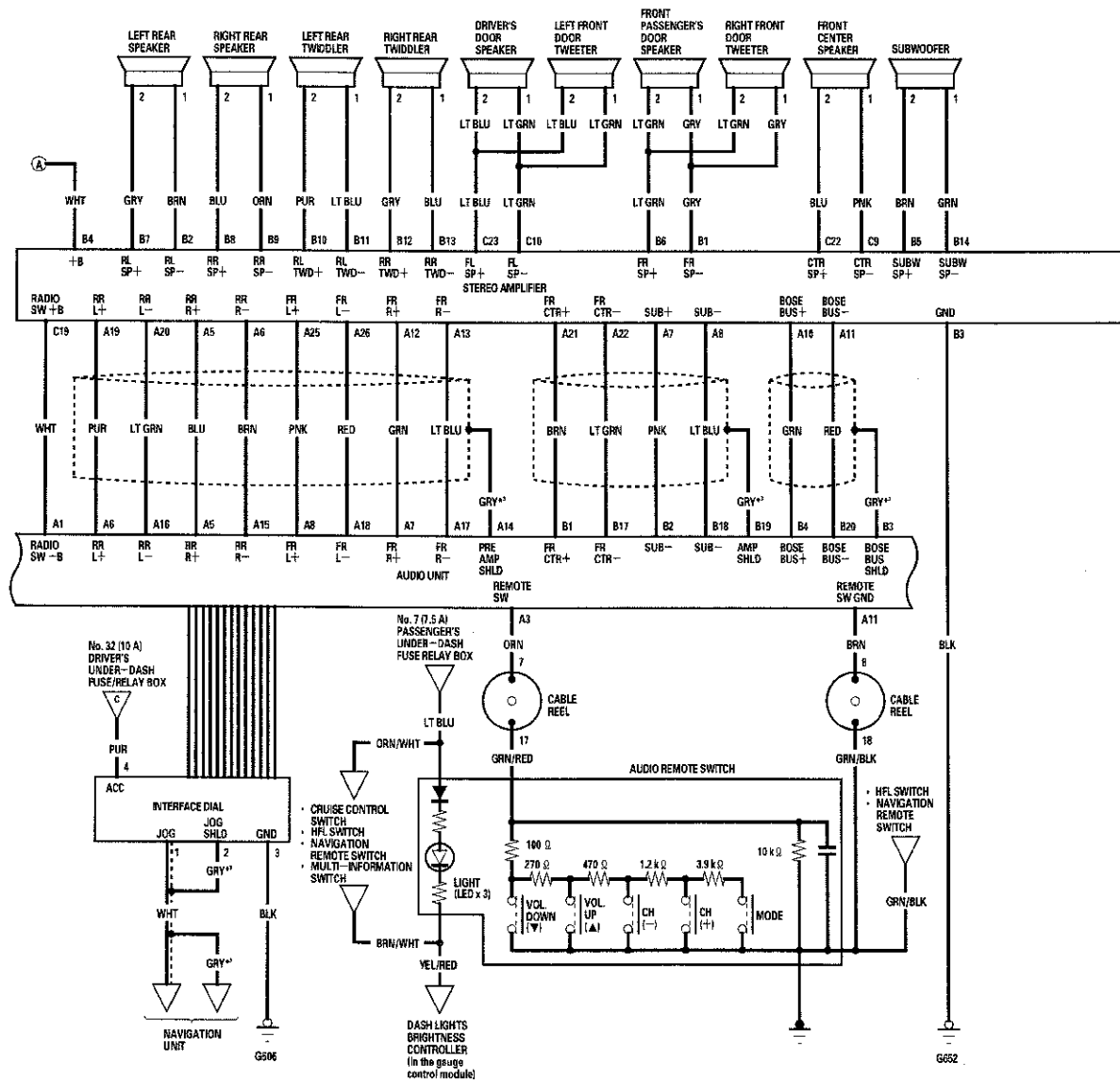


Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Connects to
B1	—	USB VBUS	USB Jack
B2	—	USB DATA—	USB Jack
B3	—	USB DATA+	USB Jack
B4	—	USB GND	USB Jack
B5	—	USB SH	Shield for terminals No. 1, No. 2, No. 3, and No. 4

Audio System

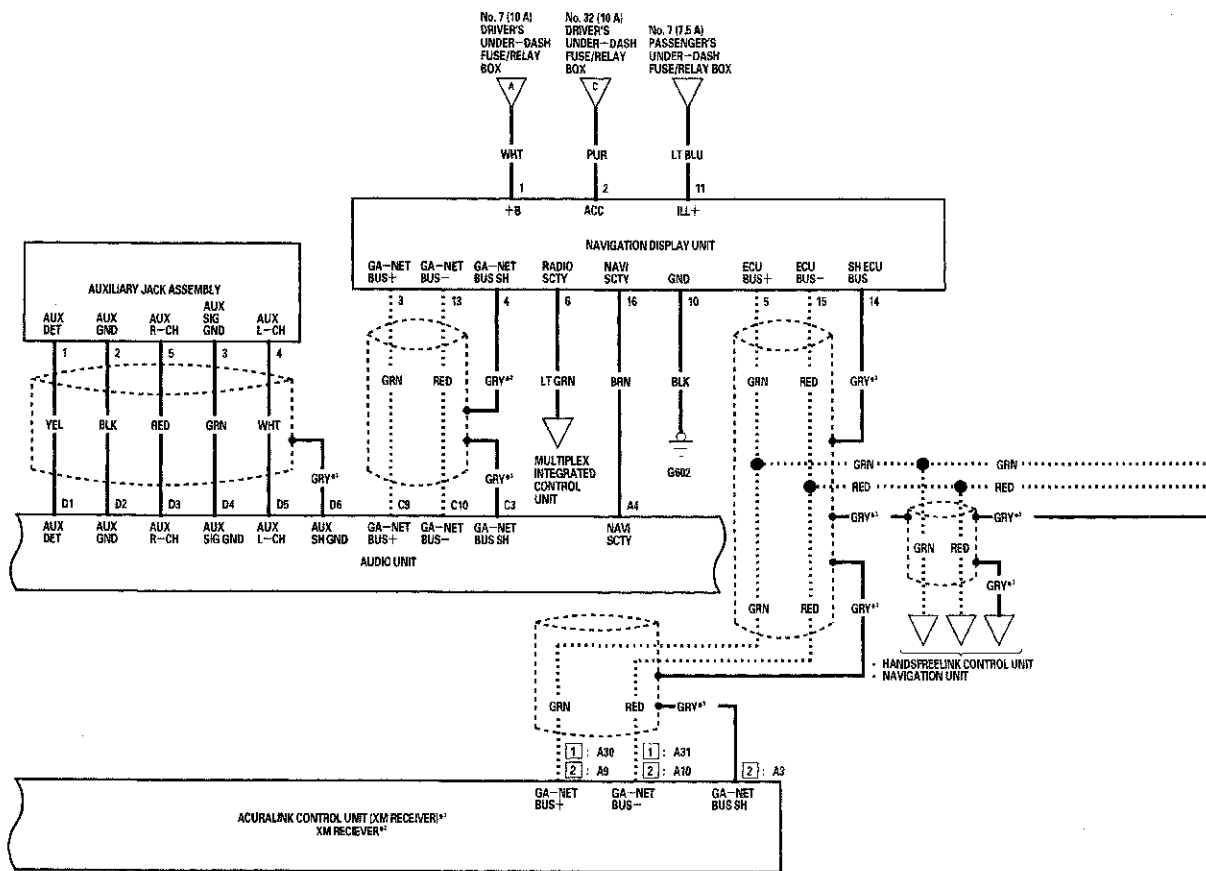
Circuit Diagram (cont'd)

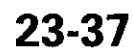




Audio System

Circuit Diagram (cont'd)





Audio System

Self-diagnostic Function

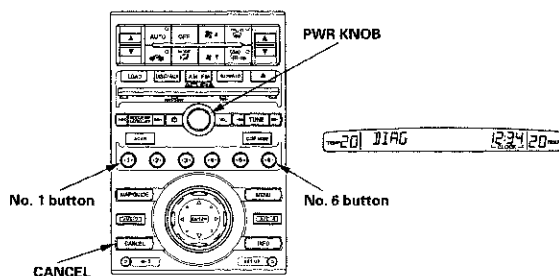
The audio system has a self-diagnostic function.

NOTE:

- Not all self-diagnostic functions appear on all models.
- They may be other self-diagnostic functions that are for factory use only.
- The self diagnostic function does not find every problem with the audio system. Check any official Honda service website for more information about the audio system.

How to Use the Audio System Self-diagnostic Function

1. Turn the ignition switch to ON (II).
2. Enter the anti-theft code.
3. Push, and hold the No. 1 and No. 6 buttons. While holding the buttons, push the PWR knob to on. Release the buttons, and the self-diagnostic function begins.
4. The word DIAG appears on the subdisplay.



How to exit the self-diagnosis mode

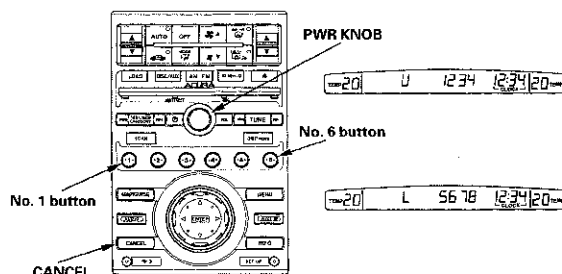
Turn the audio power off or the ignition switch to LOCK (0).

How to Obtain the Audio Unit Serial Number

NOTE: This procedure can only when the power has been disconnected from the audio unit, and the audio unit displays CODE.

With the audio unit switched off, push and hold the preset buttons No. 1, No. 6, and the PWR knob.

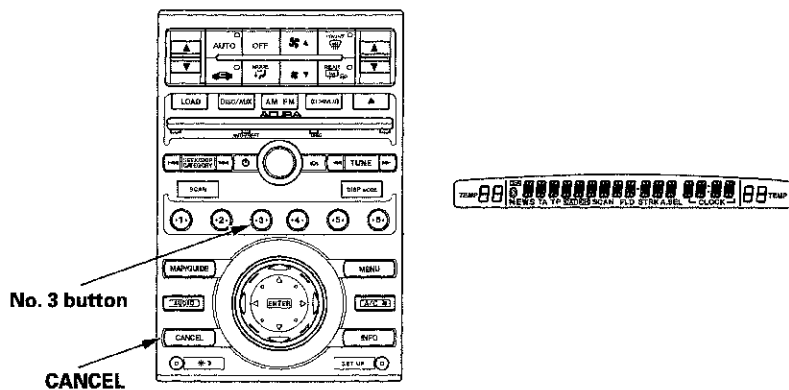
The audio unit displays the letter U with the first four digits of the serial number (example U1234). The display then changes and displays the letter L and the last four digits of the serial number (example L5678). Use all eight digits as the serial number when using the interactive network iN to get the 4 digit anti-theft code.





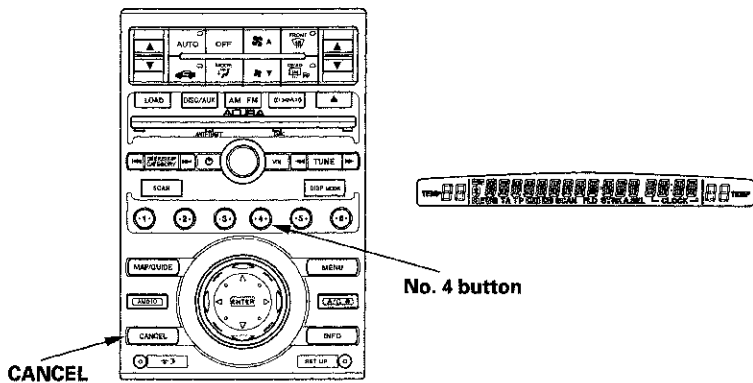
LCD lighting mode

When you press the No. 3 button, the entire LCD turns on to show if any LCDs are dead (off).



LCD lights-out mode

When you press the No. 4 button, the entire LCD turns off to show if any LCDs are stuck on.



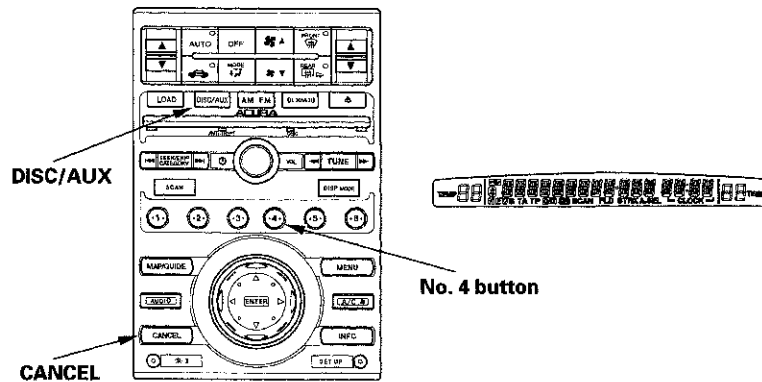
(cont'd)

Audio System

Self-diagnostic Function (cont'd)

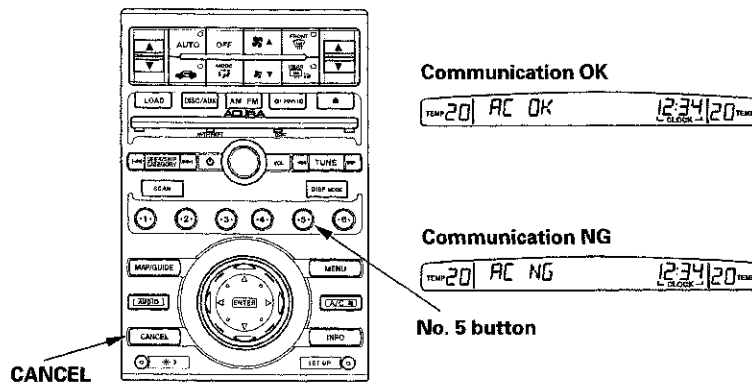
LCD back-up light lighting/lights-out mode

Press the No. 4 button to turn off the entire LCD, then press and hold the DISC/AUX button for 5 seconds. The LCD back-up lights should come on. When you press and hold the DISC/AUX button for 5 seconds again, and the LCD back-up lights should go off.



Climate control system communication check mode

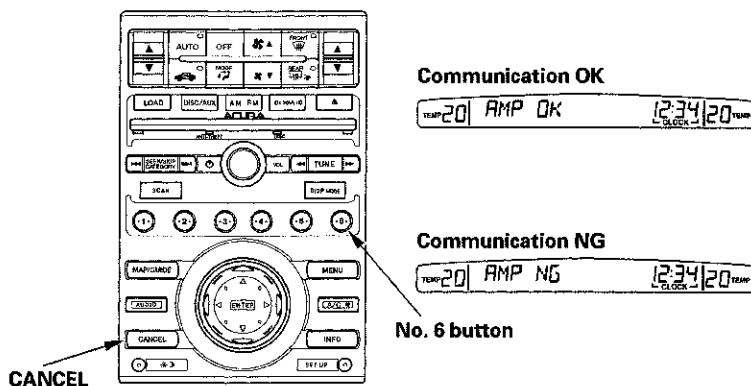
When you press the No. 5 button, the self-diagnostic checks the climate control unit communication line.





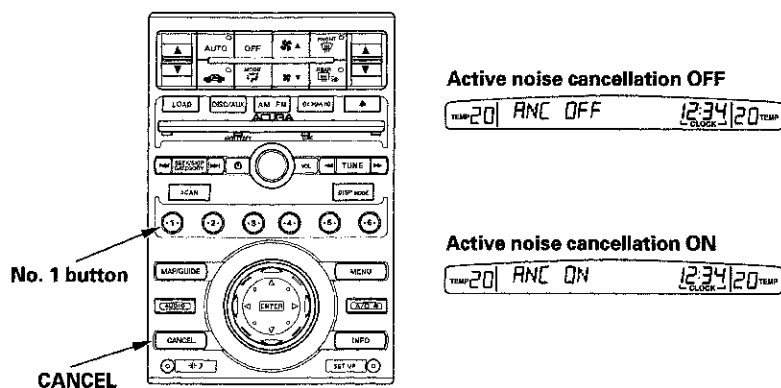
Audio amplifier communication check mode

When you press the No. 6 button, the self-diagnostic checks the audio amplifier communication line.



Active Noise Cancellation (ANC) system check mode

Active noise cancellation can be turned ON or OFF, and you can check the current status. The active noise cancellation switches ON and OFF with every push of the No. 1 button. If "—" appears on the display, use this check mode to check for loose wires or poor connections at the active noise cancellation control unit connector (16P).



How to check the active noise cancellation system in this check mode

- With the engine stopped, and while in DIAG mode, turn the ANC ON to OFF by pressing the No. 1 button. A low-frequency hum (50 Hz) should sound for about a minute.
 - If the hum does not sound, check for an open in the wire between the active noise cancellation unit and the audio unit.
 - If the hum does not sound for a minute, check for an open in the wire between active noise cancellation unit and the microphone.
- Enter the DIAG mode with the engine running (900 rpm), apply the brake pedal and shift to D position, turn the ANC ON to ANC OFF by pressing the No. 1 button on the audio unit, then turn the ANC OFF to ANC ON. After about 3 seconds, the active noise cancellation system should activate. (NOTE: When any of the doors are opened, the function stops.)

Audio System

Error Codes

The audio system can display error codes when a problem is detected with the CD changer, the audio disc, the XM radio, or the anti-theft code. This not a complete list of audio error codes. Refer to symptom troubleshooting, or go to any official Honda service website for more service information.

CD Error Codes

Error Code Displayed	Possible Cause	Solution
DISC	Cannot read disc.	Eject the disc and try another one.
DISC ERROR	There is a problem with the disc player. A common problem is disc labels coming off the disc while in the player.	Try to eject the disc and try another one. If there is still a problem, replace the audio unit (see page 23-106) or the navigation unit (see page 23-255).
DISC FORMAT	A disc was inserted that has a format that is not recognized.	Eject the disc, and try another one.
DISC-H	Disc player is hot. This can happen if the vehicle is parked out in the hot sun all day.	Park the vehicle in a cooler place for a while and try the disc player again. If the error code is still present, try another disc. If the error code is still present, replace the audio unit (see page 23-106) or the navigation unit (see page 23-255).

XM Error Codes

Error Code Displayed	Possible Cause	Solution
XM LOADING	XM radio is acquiring audio or program information.	Wait until the radio receives the information.
XM OFF AIR	XM channel not in service.	Try another XM channel.
XM NO SIGNAL	Loss of signal.	Both terrestrial and satellite antennas have lost signal. Park the vehicle outside with a clear view of the southern horizon.
XM UPDATING	XM radio is receiving information update from the network.	This message disappears once the update finishes.
XM ANTENNA	XM antenna error.	Repair open or short in the terrestrial or satellite antenna. Substitute the XM antenna and recheck. If the error is gone, replace the original XM antenna (see page 23-116). If the error is still present, replace the antenna lead.
----	No signal from XM.	Check a known-good vehicle with XM radio. If the known-good vehicle has the same symptoms, contact XM Satellite Radio at (800) 852—9696.

NOTE: Do these checks with the vehicle parked outside with a clear view of the southern horizon.

Audio Unit Error Codes

Error Code Displayed	Possible Cause	Solution
CODE ERROR 1	Anti-theft code mismatch (1 st try).	Enter the correct anti-theft code.
CODE ERROR E	Anti-theft code mismatch (10 th try).	Remove fuse No. 5 (7.5 A) in the driver's under-dash fuse/relay box, then reinsert it. You will have 10 more tries to enter the correct anti-theft code.



Symptom Troubleshooting

Poor AM or FM radio reception or interference

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connection or loose terminals.
- Check the radio reception in an open area. Poor reception/interference can be caused by any of these conditions:
 - The radio station is too far away.
 - Atmospheric conditions are unfavorable.
 - After market metallic window tint.
 - A tall buildings, mountains, or a high-voltage power lines are nearby.

1. Turn the ignition switch to ON (II).

2. Do the seek stop test (see page 23-105).

Is the test vehicle within 10 % of the known-good vehicle?

YES—Multipath interference or weak station.
Operation is normal. ■

NO—Go to step 3.

3. Check if the radio reception/interference is the same in several locations.

Is the reception/interference the same?

YES—Go to step 4.

NO—Multipath interference or weak station.
Operation is normal. ■

4. Check the reception/interference while the engine is running.

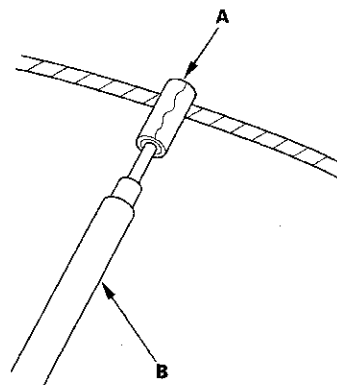
Is there noise (static or whine) only with the engine running?

YES—Check the antenna and radio grounds. If OK, check the charging system and the ignition system. ■

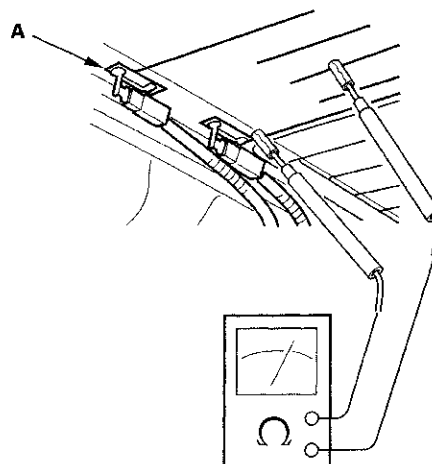
NO—Go to step 5.

5. Turn the ignition switch to LOCK (0).

6. Wrap aluminum foil (A) around the tip of a tester probe (B) as shown.



7. Touch one tester probe to the window near the antenna terminal (A), and move the other tester probe along the antenna wires to check for continuity. Repair if there is no continuity.



8. Remove the audio unit (see page 23-106). Check the audio unit connector E (5P) connection.

Is it properly connected?

YES—Go to step 9.

NO—Reconnect the audio unit connector E (5P), and recheck the function. ■

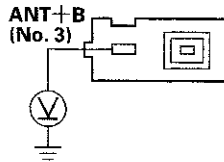
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

9. Disconnect the AM/FM antenna amplifier 3P connector (see page 23-115).
10. Turn the ignition switch to ON (II).
11. Turn on the audio unit, and select AM or FM.
12. Measure the voltage between AM/FM main antenna amplifier 3P connector terminal No. 3 AM/FM antenna amplifier lead and body ground.

AM/FM MAIN ANTENNA AMPLIFIER 3P CONNECTOR



Terminal side of female terminals

Is there battery voltage?

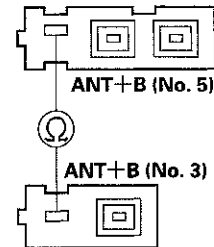
YES—Go to step 17.

NO—Go to step 13.

13. Turn the ignition switch to LOCK (0).
14. Remove the audio unit (see page 23-106).
15. Disconnect audio unit connector E (5P).

16. Check for continuity between audio unit connector E (5P) terminal No. 5 and the AM/FM main antenna amplifier 3P connector terminal No. 3.

AUDIO UNIT CONNECTOR E (5P) Terminal side of female terminals



AM/FM MAIN ANTENNA AMPLIFIER 3P CONNECTOR Terminal side of female terminals

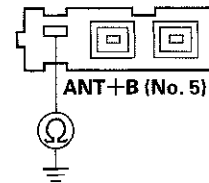
Is there continuity?

YES—Go to step 17.

NO—Repair an open in the wire between the audio unit and the main antenna amplifier. Also check the AM/FM antenna lead/sublead connector. ■

17. Check for continuity between audio unit connector E (5P) terminal No. 5 and body ground.

AUDIO UNIT CONNECTOR E (5P)



Terminal side of female terminals

Is there continuity?

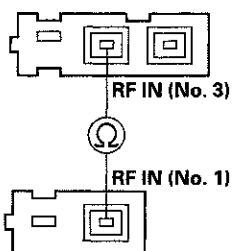
YES—Repair a short to body ground in the wire between the audio unit and the AM/FM antenna amplifier. ■

NO—Replace the audio unit (see page 23-106). ■



18. Check for continuity between audio unit connector E (5P) terminal No. 3 and the AM/FM main antenna amplifier 3P connector terminal No. 1.

AUDIO UNIT CONNECTOR E (5P)
Terminal side of female terminals



AM/FM MAIN ANTENNA AMPLIFIER 3P CONNECTOR
Terminal side of female terminals

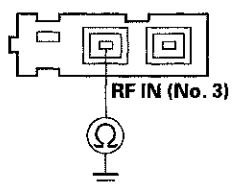
Is there continuity?

YES—Go to step 19.

NO—Replace the AM/FM antenna sublead and/or main lead. ■

19. Check for continuity between audio unit connector E (5P) terminal No. 3 and body ground.

AUDIO UNIT CONNECTOR E (5P)



Terminal side of female terminals

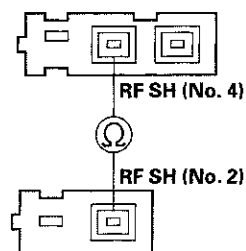
Is there continuity?

YES—Replace the AM/FM antenna sublead and/or main lead. ■

NO—Go to step 20.

20. Check for continuity between audio unit connector E (5P) terminal No. 4 and the AM/FM main antenna amplifier 3P connector terminal No. 2.

AUDIO UNIT CONNECTOR E (5P)
Terminal side of female terminals



AM/FM MAIN ANTENNA AMPLIFIER 3P CONNECTOR
Terminal side of female terminals

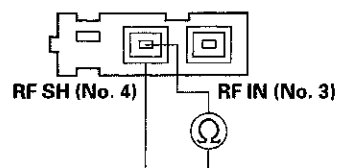
Is there continuity?

YES—Go to step 21.

NO—Replace the AM/FM antenna sublead and/or main lead. ■

21. Check for continuity between audio unit connector E (5P) terminals No. 3 and No. 4.

AUDIO UNIT CONNECTOR E (5P)



Terminal side of female terminals

Is there continuity?

YES—Replace the AM/FM antenna sublead and/or main lead. ■

NO—Go to step 22.

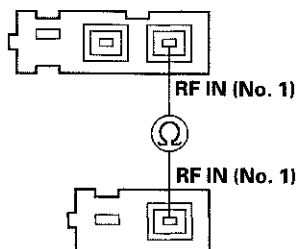
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

22. Check for continuity between audio unit connector E (5P) terminal No. 1 and the AM/FM subantenna amplifier 3P connector terminal No. 1.

AUDIO UNIT CONNECTOR E (5P)
Terminal side of female terminals



AM/FM SUBANTENNA AMPLIFIER 3P CONNECTOR
Terminal side of female terminals

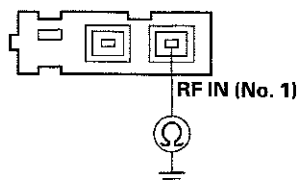
Is there continuity?

YES—Go to step 23.

NO—Replace the AM/FM antenna sublead and/or main lead. ■

23. Check for continuity between audio unit connector E (5P) terminal No. 1 and body ground.

AUDIO UNIT CONNECTOR E (5P)



Terminal side of female terminals

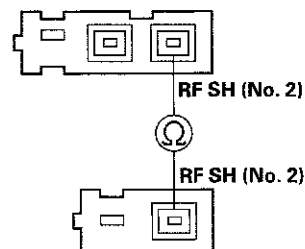
Is there continuity?

YES—Replace the AM/FM antenna sublead and/or main lead. ■

NO—Go to step 24.

24. Check for continuity between audio unit connector E (5P) terminal No. 2 and the AM/FM subantenna amplifier 3P connector terminal No. 2.

AUDIO UNIT CONNECTOR E (5P)
Terminal side of female terminals



AM/FM SUBANTENNA AMPLIFIER 3P CONNECTOR
Terminal side of female terminals

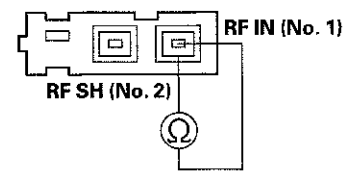
Is there continuity?

YES—Go to step 25.

NO—Replace the AM/FM antenna sublead and/or main lead. ■

25. Check for continuity between audio unit connector E (5P) terminals No. 1 and No. 2.

AUDIO UNIT CONNECTOR E (5P)



Terminal side of female terminals

Is there continuity?

YES—Replace the AM/FM antenna sublead and/or main lead. ■

NO—Replace the AM/FM antenna amplifier (see page 23-115), and recheck. If the reception is still poor, replace the audio unit (see page 23-106). ■



Audio unit power switch will not turn on (No information display and no sound)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Eject all the CDs before removing the audio unit and CD changer to prevent damaging the CD player's load mechanism.

1. Turn the ignition switch to ON (II).
2. Push the power switch on to see if the audio unit turns on.

Does the audio unit display operate properly, and does the audio unit sound normal?

YES—Intermittent failure, the system is OK at this time. ■

NO—Go to step 3.

3. Turn the ignition switch to LOCK (0).
4. Check the No. 5 (7.5 A) fuse and the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box.

Are the fuses OK?

YES—Go to step 5.

NO—Replace the fuse, and recheck. ■

5. Remove the audio unit (see page 23-106). Check that the audio unit is properly connected.

Are they connected properly?

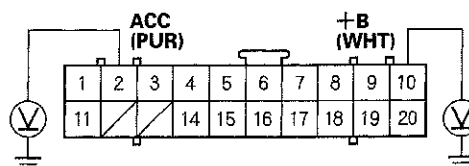
YES—Go to step 6.

NO—Repair poor connections and reconnect the connectors, and recheck the function. ■

6. Turn the ignition switch to ON (II).

7. Measure the voltage between body ground and audio unit connector A (20P) terminals No. 2 and No. 10 individually.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

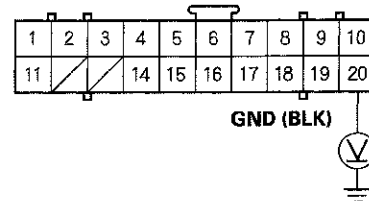
Is there battery voltage?

YES—Go to step 8.

NO—Repair an open in the wire(s) between the No. 5 (7.5 A) fuse and the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box and the audio unit. ■

8. Measure the voltage between audio unit connector A (20P) terminal No. 20 and body ground.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

NO—Repair an open in the wire between audio unit connector A (20P) terminal No. 20 and body ground (G504) (see page 22-36). ■

Audio System

Symptom Troubleshooting (cont'd)

Audio unit power switch will not turn off

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connection or loose terminals.
- Check for aftermarket accessories plugged into the vehicle accessory power sockets.
- Eject all the CDs before removing the audio unit and CD changer to prevent damaging the CD player's load mechanism.

1. Turn the ignition switch to ON (II).
2. Push the power switch off to see if the audio unit turns off.

Does the audio unit turn off?

YES—Go to step 3.

NO—Replace the audio unit (see page 23-106). ■

3. Push the power switch on, then turn the ignition switch to LOCK (0).

Does the audio unit turn off?

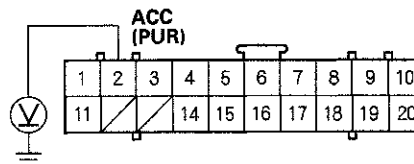
YES—Operation is normal. ■

NO—Go to step 4.

4. Turn the ignition switch to ON (II).

5. Measure the voltage between audio unit connector A (20P) terminal No. 2 and body ground.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Is there battery voltage?

YES—Check for short to power on the PUR wire. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■



No sound is heard from the speaker(s) (display is normal)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Set the fader and balance positions to the center.
- Before doing symptom troubleshooting, do the audio unit power switch will not turn on troubleshooting (see page 23-47).

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and check that the volume button is not set the MIN level.

Is it at the MIN level?

YES—Raise the volume level, and recheck the function. ■

NO—Go to step 3.

3. On the steering wheel, check the navigation talk command, and/or the HandsFreeLink talk command functions.

Are the navigation talk command and/or the HFL talk command functions set?

YES—Cancel the navigation talk command by pressing the navigation BACK button, and for the HFL talk command, press the HFL BACK button, then recheck the function.

NO—Go to step 4.

4. Check to see if there is a specific speaker(s) that has no sound.

Is there a specific speaker without sound?

YES—Go to step 5.

NO—Go to step 8.

5. Turn the ignition switch to LOCK (0).

6. Check the speaker(s) that has no sound for any damage.

Is there any damage?

YES—Replace the speaker(s), and recheck. ■

NO—Go to step 7.

7. Remove the speaker(s) that has no sound (see page 23-108), and disconnect its connector.

8. Check the speaker 2P connector for a loose or poor connection.

Reconnect the speaker 2P connector, and recheck the symptom; is the condition still present?

YES—Go to step 9.

NO—Intermittent failure. Operation is normal. ■

9. Measure the resistance between the terminals No. 1 and No. 2 of the speaker connector.

Is there speaker(s) OK?

YES—Go to step 10.

NO—Replace the speaker(s), and recheck. ■

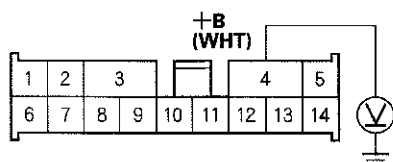
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

10. Measure the voltage between stereo amplifier connector B (14P) terminal No. 4 and body ground.

STEREO AMPLIFIER CONNECTOR B (14P)



Wire side of female terminals

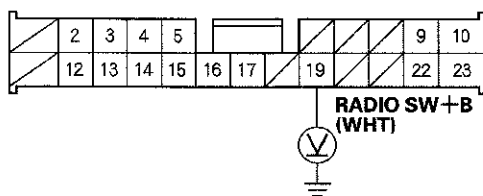
Is there battery voltage?

YES—Go to step 11.

NO—Repair an open in the wire between the No. 2 (30 A) fuse in the passenger's under-dash fuse/relay box and stereo amplifier connector B (14P) terminal No. 4. ■

11. Measure the voltage between stereo amplifier connector C (23P) terminal No. 19 and body ground.

STEREO AMPLIFIER CONNECTOR C (23P)



Wire side of female terminals

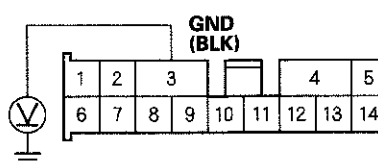
Is there battery voltage?

YES—Go to step 12.

NO—Repair an open in the wire between stereo amplifier connector C (23P) terminal No. 19 and audio unit connector A (20P) terminal No. 1. If the wire and pin fits are OK, substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

12. Measure the voltage between stereo amplifier connector B (14P) terminal No. 3 and body ground.

STEREO AMPLIFIER CONNECTOR B (14P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 13.

NO—Repair an open in the wire between stereo amplifier connector B (14P) terminal No. 3 and body ground (G652) (see page 22-46). ■

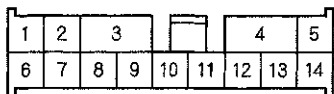


13. Disconnect stereo amplifier connector B (14P) and C (23P).

14. Measure the resistance of stereo amplifier connectors B (14P) and C (23P) according to the table.

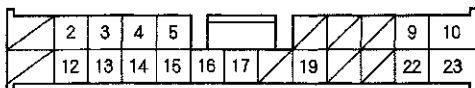
Speaker	Terminal	Wire color	Resistance
Driver's door speaker	C23 (+)	LT BLU	About 2 Ω
	C10 (-)	LT GRN	
Left front tweeter	C23 (+)	LT BLU	About 3.6 Ω
	C10 (-)	LT GRN	
Passenger's door speaker	B6 (+)	LT GRN	About 2 Ω
	B1 (-)	GRY	
Right front tweeter	B6 (+)	LT GRN	About 3.6 Ω
	B1 (-)	GRY	
Left rear speaker	B7 (+)	GRY	About 2 Ω
	B2 (-)	BRN	
Right rear speaker	B8 (+)	BLU	About 2 Ω
	B9 (-)	ORN	
Left rear twiddler speaker	B10 (+)	PUR	About 4 Ω
	B11 (-)	LT BLU	
Right rear twiddler speaker	B12 (+)	GRY	About 4 Ω
	B13 (-)	BLU	
Front center speaker	C22 (+)	BLU	About 2 Ω
	C9 (-)	PNK	
Subwoofer	B5 (+)	BRN	About 2 Ω
	B14 (-)	GRN	

STEREO AMPLIFIER CONNECTOR B (14P)



Wire side of female terminals

STEREO AMPLIFIER CONNECTOR C (23P)



Wire side of female terminals

Is there resistance OK?

YES—Go to step 15.

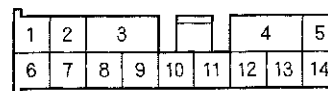
NO—Repair an open in the wire between the stereo amplifier and the speakers. ■

15. Disconnect the speaker 2P connector.

16. Check for continuity between stereo amplifier connector B (14P) and C (23P) terminals and body ground according to the table.

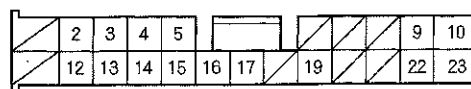
Speaker	Terminal	Wire color
Driver's door speaker	C23 (+)	LT BLU
	C10 (-)	LT GRN
Left front tweeter	C23 (+)	LT BLU
	C10 (-)	LT GRN
Front passenger's door speaker	B6 (+)	LT GRN
	B1 (-)	GRY
Right front tweeter	B6 (+)	LT GRN
	B1 (-)	GRY
Left rear speaker	B7 (+)	GRY
	B2 (-)	BRN
Right rear speaker	B8 (+)	BLU
	B9 (-)	ORN
Left rear twiddler speaker	B10 (+)	PUR
	B11 (-)	LT BLU
Right rear twiddler speaker	B12 (+)	GRY
	B13 (-)	BLU
Front center speaker	C22 (+)	BLU
	C9 (-)	PNK
Subwoofer	B5 (+)	BRN
	B14 (-)	GRN

STEREO AMPLIFIER CONNECTOR B (14P)



Wire side of female terminals

STEREO AMPLIFIER CONNECTOR C (23P)



Wire side of female terminals

Is there continuity?

YES—Go to step 17.

NO—Repair a short in the wire between the stereo amplifier and the appropriate speakers. ■

(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

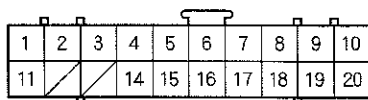
17. Reconnect the 2P connector(s) to the speaker(s).
18. Disconnect audio unit connector A (20P) and audio unit connector B (32P).

NOTE: Eject all the CDs before removing the audio unit and CD changer to prevent damaging the CD player's load mechanism.

19. Disconnect stereo amplifier connector A (26P).
20. Check for continuity between audio unit connector A (20P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and audio unit connector A (20P) terminal No. 14 (the harness shield).

Audio unit connector	Wire color
A5	BLU
A6	PUR
A7	GRN
A8	PNK
A15	BRN
A16	LT GRN
A17	LT BLU
A18	RED

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Is there continuity?

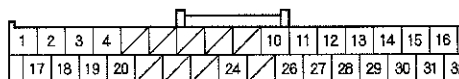
YES—There is a short in the wire between the audio unit and the stereo amplifier or a short between the shield wires. Replace the affected shielded harness. ■

NO—Go to step 21.

21. Check for continuity between audio unit connector B (32P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and audio unit connector B (32P) terminal No. 19 (the harness shield).

Audio unit connector	Wire color
B1	BRN
B2	PNK
B17	LT GRN
B18	LT BLU

AUDIO UNIT CONNECTOR B (32P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire between the audio unit and the stereo amplifier or a short between the shield wires. Replace the affected shielded harness.

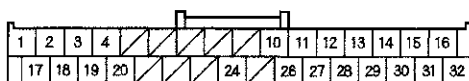
NO—Go to step 22.



22. Check for continuity between audio unit connector B (32P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and audio unit connector B (32P) terminal No. 3 (the harness shield).

Audio unit connector	Wire color
B4	GRN
B20	RED

AUDIO UNIT CONNECTOR B (32P)



Wire side of female terminals

Is there continuity?

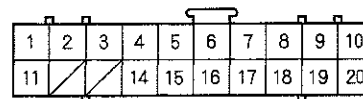
YES—There is a short in the wire(s) between the audio unit and the stereo amplifier or a short between the shield wires. Replace the affected shielded harness. ■

NO—Go to step 23.

23. Check for continuity between audio unit connectors A (20P) and B (32P) and stereo amplifier connector A (26P) according to the table.

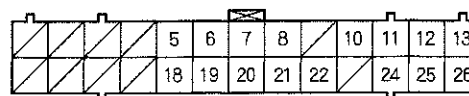
Audio unit connector	Stereo amplifier connector	Wire color
A5	A5	BLU
A6	A19	PUR
A7	A12	GRN
A8	A25	PNK
A15	A6	BRN
A16	A20	LT GRN
A17	A13	LT BLU
A18	A26	RED
B1	A21	BRN
B2	A7	PNK
B4	A10	GRN
B17	A22	LT GRN
B18	A8	LT BLU
B20	A11	RED

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

STEREO AMPLIFIER CONNECTOR A (26P)



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). If symptom is still present, substitute a known-good stereo amplifier (see page 23-111), and recheck. If the symptom/indication goes away, replace the original stereo amplifier (see page 23-111). ■

NO—Repair an open in the wire(s) between the audio unit and the stereo amplifier. ■

Audio System

Symptom Troubleshooting (cont'd)

Audio system sound is weak or distorted (display is normal)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connection or loose terminals.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and check for sound in each mode (AM, FM, XM, and CD).

Is there sound from the speakers, and is the sound quality normal in each mode?

YES—Intermittent failure. The system is OK at this time. Check for loose connections at the audio unit, the amplifier, and each speaker. ■

NO—Speakers all work, sound quality is poor. ■

- If sound quality is poor only with the XM radio, or the XM radio does not function, go to poor or no sound with XM radio (see page 23-98).
- If the sound quality is poor only with AM or FM, go to poor radio reception or interference (see page 23-43).
- If the sound is poor in all modes, go to sound quality diagnosis (see page 23-100).

Auxiliary input sound is low or cannot be heard

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Use auxiliary stereo cables with 3.5 mm ends only.
- Auxiliary accessories may be played on the audio unit using the auxiliary input.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit and connect an auxiliary accessory to the auxiliary input jack.
3. Adjust the audio unit volume and check the audio unit in all modes (AM, FM, CD, XM, etc.)

Is the sound normal from the vehicle speakers?

YES—Operation is normal at this time. ■

NO—Go to step 4.

4. Turn on the auxiliary audio accessory and make sure the auxiliary accessory volume is set to max.

Do you hear the auxiliary audio accessory?

YES—Tell the customer they need to adjust the volume on their accessory unit to high. ■

NO—Go to step 5.

5. Substitute a known-good auxiliary audio accessory and/or auxiliary stereo cable, and recheck.

Does the auxiliary audio accessory operate properly from the vehicle speakers?

YES—Original auxiliary audio accessory or the auxiliary stereo cable is faulty. ■

NO—Go to step 6.

6. Turn the ignition switch to LOCK (0).



7. Remove the auxiliary jack assembly (see page 23-112) and check that the auxiliary jack assembly is properly connected.

Is the auxiliary jack assembly connected properly?

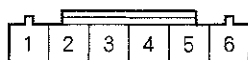
YES—Go to step 8.

NO—Reconnect the connector, and recheck the function. ■

8. Disconnect auxiliary jack assembly 5P connector.
9. Disconnect audio unit connector D (6P).
10. Check for continuity between body ground and audio unit connector D (6P) according to the table.

Audio unit connector	Wire color
D1	YEL
D2	BLK
D3	RED
D4	GRN
D5	WHT

AUDIO UNIT CONNECTOR (6P)



Wire side of female terminals

Is there continuity?

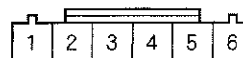
YES—There is a short to body ground in the wire(s) between the audio unit and the auxiliary jack assembly. Replace the affected shielded harness. ■

NO—Go to step 11.

11. Check for continuity between audio unit connector D (6P) according to the table.

From terminal	To terminals
D1 (YEL)	D2 (BLK), D3 (RED), D4 (GRN), D5 (WHT), D6 (GRY)
D2 (BLK)	D3 (RED), D4 (GRN), D5 (WHT), D6 (GRY)
D3 (RED)	D4 (GRN), D5 (WHT), D6 (GRY)
D4 (GRN)	D5 (WHT), D6 (GRY)
D5 (WHT)	D6 (GRY)

AUDIO UNIT CONNECTOR (6P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the audio unit and the auxiliary jack assembly. Replace the affected shielded harness. ■

NO—Go to step 12.

(cont'd)

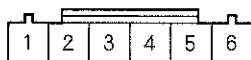
Audio System

Symptom Troubleshooting (cont'd)

12. Check for continuity between audio unit connector D (6P) and auxiliary jack assembly 5P connector according to the table.

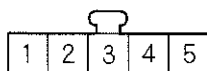
Audio unit connector	Auxiliary jack assembly 5P connector	Wire color
D1	1	YEL
D2	2	BLK
D3	5	RED
D4	3	GRN
D5	4	WHT

AUDIO UNIT CONNECTOR (6P)



Wire side of female terminals

AUXILIARY JACK ASSEMBLY 5P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good auxiliary jack assembly (see page 23-112), and recheck. If the symptom/indication goes away, replace the original auxiliary jack assembly (see page 23-112). If the symptom/indication is still present, replace the audio unit (see page 23-106). ■

NO—There is an open in the wire(s) between the audio unit and the auxiliary jack assembly. Replace the affected shielded harness. ■

Radio preset memory is lost

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- If only XM stations are lost, go to XM radio preset memory is lost (see page 23-95).
- Make sure the remotes are linked. Do this by checking to see if the MID displays "Welcome Drv 1" or "Welcome Drv 2" when you turn the ignition switch to ON (II).

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and set each of the radio station preset buttons.

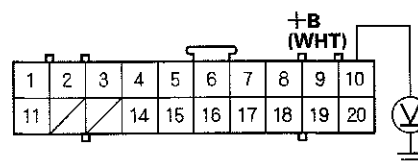
Does each preset button set properly?

YES—Go to step 4.

NO—Go to step 3.

3. Measure the voltage between audio unit connector A (20P) terminal No. 10 and body ground.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Is there battery voltage?

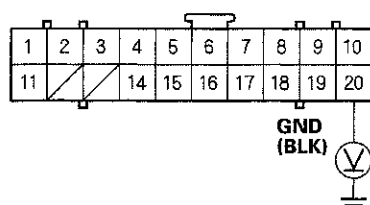
YES—Go to step 4.

NO—Repair an open in the wire between the No. 5 (7.5 A) fuse and driver's under-dash fuse/relay box and audio unit connector A (20P) terminal No. 10. ■



4. Measure the voltage between audio unit connector A (20P) terminal No. 20 and body ground.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 5.

NO—Repair an open in the wire between audio unit connector A (20P) terminal No. 20 and body ground (G504) (see page 22-36). ■

5. Turn the ignition switch to LOCK (0) for 1 minute, then turn it back to ON (II).
6. Test the preset buttons for proper recall operation.

Do the preset buttons recall the set radio stations?

YES—System is normal at this time. Check connections at the audio unit. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Volume does not change

NOTE:

- Check the connectors for poor connection or loose terminals.
- Set the fader and balance positions to the center.
- Check the vehicle battery condition first (see page 22-90).

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and check for sound in each mode (AM, FM, XM, and CD).

Is the sound normal?

YES—Go to step 3.

NO—Go to audio system sound is weak or distorted, or no sound is heard from speaker(s) (see page 23-49). ■

3. Operate the volume knob to see if the volume changes.

Does the volume change?

YES—Operation is normal. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Audio System

Symptom Troubleshooting (cont'd)

Radio tuner does not change stations

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and check the audio information on the display panel.

Does the audio information display properly?

YES—Go to step 3.

NO—Go to audio unit power switch will not turn on (see page 23-47). ■

3. Operate the tuning knob to see if the radio station changes.

Does the radio station change?

YES—Intermittent failure, the tuning knob is OK at this time. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Audio unit button illumination does not work

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Turn the ignition switch to ON (II).
2. Turn the combination lighting switch to the parking light position.
3. Check the illumination of the audio unit buttons.

Are the buttons illuminated?

YES—Intermittent problem: the audio unit is OK at this time. Check for loose or poor connections at audio unit connector A (20P). ■

NO—Go to step 4.

4. Check the illumination of several other buttons not related to the audio system.

Are the buttons illuminated?

YES—Go to step 5.

NO—Troubleshoot the interior lights. Start by checking the No. 7 (7.5 A) fuse in the passenger's under-dash fuse/relay box. If the fuse is OK, check for an open in the wire between the passenger's under-dash fuse/relay box and the audio unit. ■

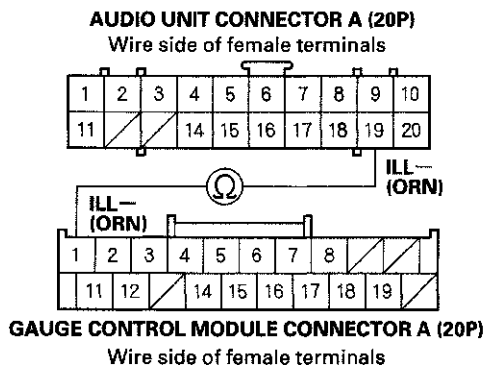
5. Turn the ignition switch to LOCK (0).
6. Disconnect audio unit connector A (20P).

NOTE: Eject all the CDs before removing the audio unit and CD changer to prevent damaging the CD player's load mechanism.

7. Disconnect gauge control module connector A (20P).



8. Check for continuity between audio unit connector A (20P) terminal No. 19 and gauge control module connector A (20P) terminal No. 1.

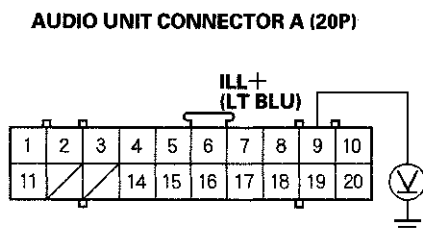


Is there continuity?

YES—Go to step 9.

NO—Repair an open in the wire between the gauge control module and the audio unit. ■

9. Turn the ignition switch to ON (II).
10. With the headlight switch still on, measure the voltage between audio unit connector A (20P) terminal No. 9 and body ground.



Wire side of female terminals

Is there battery voltage?

YES—Check the connections at audio unit connector A (20P). If all connections are OK, replace the audio unit (see page 23-106). ■

NO—Repair an open in the wire between the passenger's under-dash fuse/relay box and the audio unit. ■

Audio remote switch does not work properly

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and check the audio remote switch operation (volume up, volume down, CH (UP), CH (DOWN), MODE).

Is the audio remote switch operation OK?

YES—Intermittent failure, the audio remote switch is OK at this time. Check for loose connections. ■

NO—Go to step 3.

3. Test the audio remote switch (see page 23-115).

Is the audio remote switch OK?

YES—Go to step 4.

NO—Replace the audio remote switch (see page 17-23). ■

4. Turn the ignition switch to LOCK (0).
5. Remove the audio unit (see page 23-106).
6. Disconnect audio unit connector A (20P).

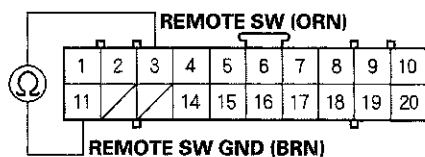
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

7. Reconnect the audio remote switch, and measure the resistance between audio unit connector A (20P) terminals No. 3 and No. 11 as specified in the table.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

AUDIO REMOTE SWITCH TABLE

Button held down	VOL DOWN	VOL UP	CH (-)	CH (+)	MODE	(No button pressed)
Resistance	about 100 Ω	about 357 Ω	about 775 Ω	about 1.7 k Ω	about 3.7 k Ω	about 10 k Ω

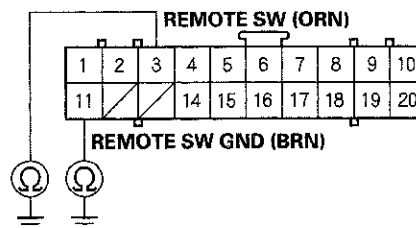
Is the resistance OK?

YES—Go to step 8.

NO—Repair a short or high resistance in the circuit between audio unit and the audio remote switch. If the wires are OK, replace the cable reel (see page 24-212). ■

8. Check for continuity between body ground and audio unit connector A (20P) terminals No. 3 and No. 11 individually.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Is there continuity?

YES—Repair a short to body ground in the circuit between the audio unit and the audio remote switch. If the wires are OK, replace the cable reel (see page 24-212). ■

NO—Substitute a known-good audio unit (see page 23-106) and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■



Audio disc does not load

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Disc labels should not be used in the audio unit. They may jam, and damage the player mechanism.
- Make sure the audio disc is compatible with the system (see the owner's manual for more information).

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and insert a known-good disc to see if the symptom can be duplicated.

Does the disc load?

YES—Operation is normal. If the disc loads normally, but will not play, go to audio disc does not play (see page 23-63). ■

NO—Go to step 3.

3. Insert another disc.

Does the disc load?

YES—The original disc is faulty. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Audio disc does not eject

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Disc labels should not be used in the audio unit. They may jam, and damage the player mechanism.

1. Turn the ignition switch to ON (II).
2. Turn on the audio system.

Does the system turn on?

YES—Go to step 3.

NO—Go to audio unit power switch will not turn on (see page 23-47). ■

3. Check to see if the disc ejects correctly with no binding by pushing the EJECT button.

Does the disc eject properly?

YES—Operation is normal. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Audio System

Symptom Troubleshooting (cont'd)

Audio disc changer does not load all six discs

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Disc labels should not be used in the audio unit. They may jam, and damage the player mechanism.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and try loading six discs into the audio unit.

Does the audio unit accept all six discs?

YES—Intermittent failure, the audio unit is OK at this time. ■

NO—Go to step 3.

3. Try loading the disc player with six known-good discs.

Does the audio unit/audio disc changer accept all six discs?

YES—At least one of the original discs is faulty. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Audio disc changer does not move between discs

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Disc labels should not be used in the audio unit. They may jam, and damage the player mechanism.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and insert six discs into the audio unit/audio disc changer and see if the changer moves between discs.

Does the changer operate normally?

YES—Intermittent failure, the disc changer is OK at this time. ■

NO—Go to step 3.

3. Insert six known-good discs into the audio unit.

Does the changer operate normally?

YES—At least one of the original discs is faulty. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■



Special tools required

Diagnostics CD 07AAZ-SDBA100

Audio disc does not play

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Disc labels should not be used in the audio unit. They may jam, and damage the player mechanism.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and try loading a disc.

Does the disc load?

YES—Go to step 3.

NO—Go to audio disc does not load (see page 23-61). ■

3. Insert a known-good disc to see if the symptom can be duplicated.

Does the disc play?

YES—Operation is normal. ■

NO—Go to step 4.

4. Insert audio diagnostic CD (T/N 07AAZ-SDBA100) in the audio unit.

Does the disc play?

YES—The original disc is faulty or has an unreadable format. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Special tools required

- Diagnostics CD 07AAZ-SDBA100
- Skip test CD 07AAZ-SDBA200
- Skip test CD 07AAZ-SDBA300

Audio disc skips

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Disc labels should not be used in the audio unit. They may jam, and damage the player mechanism.

1. Turn the ignition switch to ON (II).
2. Confirm the vehicles tires are properly inflated.
3. Check the client's CD for scratches and fingerprints.

NOTE: The following test should be done with the audio unit bass and treble set to the client's listening settings. When comparing to known-good vehicles, the comparison should be done on the same model and trim level.

4. Test-drive the vehicle to identify when the client's CD skips. The audio diagnostic CD (T/N 07AAZ-SDBA100) can be used if the client's CD is not available; use tracks 10—12.

Does the disc skip?

YES—Go to step 5.

NO—Operation is normal. ■

5. Compare the client's CD that is skips to a known-good vehicle under the same conditions.

Does the disc skip in the known-good vehicle under the same conditions?

YES—The CD player operation is normal, the problem is with the client's disc. ■

NO—Go to step 6.

NOTE: Do the following test with vehicle parked and the engine running.

(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

6. Insert the diagnostic skip test CD (T/N 07AAZ-SDBA300). Play tracks 2—11, and note on which track number(s) the disc starts skipping. Do the same test on a known-good vehicle.

Does the disc skip on same track(s) as the known-good vehicle?

YES—Operation is normal. ■

NO—Go to step 7.

7. Insert the diagnostic skip test CD (T/N 07AAZ-SDBA200). Play tracks 7—11 and tracks 13—15, and note on which track number(s) where the CD starts skipping. Do the same test on a known-good vehicle.

Does the disc skip on same track number(s) as the known-good vehicle?

YES—Operation is normal. ■

NO—Substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). ■

Booming sound while driving with audio unit on or off

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Turn the ignition switch to ON (II).

2. Operate the audio unit, and check the function of the speakers.

Is a booming sound heard from the speakers?

YES—Go to step 3.

NO—Go to no sound is heard from speaker(s) (see page 23-49). ■

3. Open the driver's door, with the booming sound present.

Is the booming sound still present?

YES—Do the electrical noise test (see page 23-101). ■

NO—Go to step 4.

4. Turn the audio power switch to off.

5. Do the active noise cancellation (ANC) self-diagnostic function (see page 23-41).

6. Press the No. 1 button.

Is the low-frequency hum sound heard?

YES—Go to step 7.

NO—Go to step 25.

7. Check that the low-frequency hum sound continues sounding for about 1 minute.

Does the low-frequency hum sound continue sounding for about 1 minute?

YES—Go to step 44.

NO—Go to step 8.



8. Check the No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box.

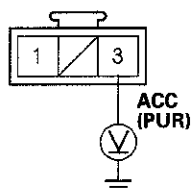
Is the fuse OK?

YES—Go to step 9.

NO—Replace the fuse, and recheck. ■

9. Measure the voltage between active noise cancellation front and rear microphone connector B (3P) terminal No. 3 and body ground.

ACTIVE NOISE CANCELLATION FRONT or REAR MICROPHONE CONNECTOR B (3P)



Terminal side of male terminals

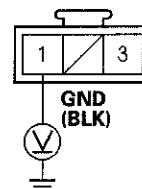
Is there battery voltage?

YES—Go to step 10.

NO—Repair an open in the wire between the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box and active noise cancellation front or rear microphone connector B (3P). ■

10. Measure the voltage between active noise cancellation front and rear microphone connector B (3P) terminal No. 1 and body ground.

ACTIVE NOISE CANCELLATION FRONT or REAR MICROPHONE CONNECTOR B (3P)



Terminal side of male terminals

Is there less than 0.2 V?

YES—Go to step 11.

NO—Repair an open in the wire between active noise cancellation front or rear microphone connector B (3P) terminal No. 1 and body ground (G652) (see page 22-46). ■

11. Turn the ignition switch to LOCK (0).
12. Disconnect active noise control front microphone connector A (2P) and active noise cancellation rear microphone connector A (2P), active noise control unit 16P connector, and stereo amplifier connector C (23P).

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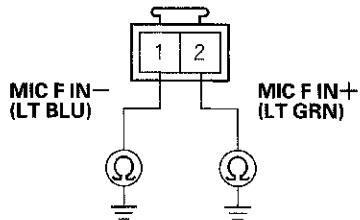
Audio System

Symptom Troubleshooting (cont'd)

13. Check for continuity between body ground and active noise cancellation front and rear microphone connector A (2P) terminals No. 1 and No. 2 individually.

FRONT

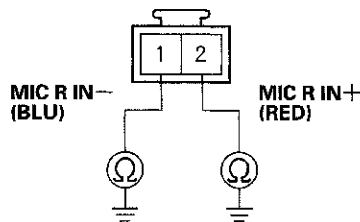
ACTIVE NOISE CANCELLATION FRONT MICROPHONE CONNECTOR A (2P)



Terminal side of male terminals

REAR

ACTIVE NOISE CANCELLATION REAR MICROPHONE CONNECTOR A (2P)



Terminal side of male terminals

Is there continuity?

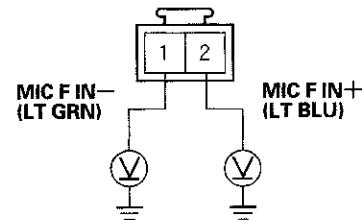
YES—Repair a short in the wire between body ground and active noise cancellation front or rear microphone connector A (2P) terminals No. 1 and No. 2. ■

NO—Go to step 14.

14. Reconnect the active noise cancellation front and rear microphone control unit, and the stereo amplifier connectors.
15. Turn the ignition switch to ON (II).
16. Measure the voltage between body ground and active noise cancellation front or rear microphone connector A (2P) terminals No. 1 and No. 2 individually while lightly tapping the microphones.

FRONT

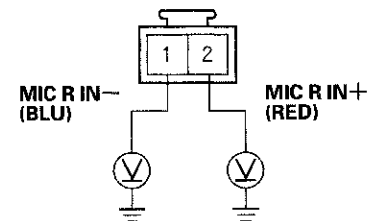
ACTIVE NOISE CANCELLATION FRONT MICROPHONE CONNECTOR A (2P)



Terminal side of male terminals

REAR

ACTIVE NOISE CANCELLATION REAR MICROPHONE CONNECTOR A (2P)



Terminal side of male terminals

Does the voltage fluctuate when you tap the microphones?

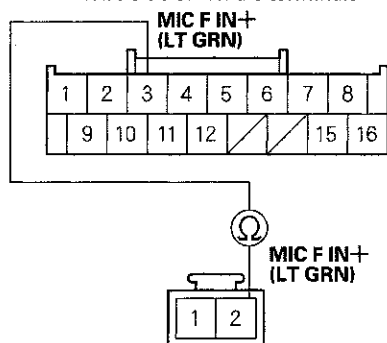
YES—Go to step 17.

NO—Replace the active noise cancellation front or rear microphone. ■



17. Turn the ignition switch to LOCK (0).
18. Disconnect the active noise cancellation unit 16P connector.
19. Disconnect active noise cancellation front microphone connector A (2P).
20. Check for continuity between active noise cancellation unit 16P connector terminal No. 3 and active noise cancellation front microphone connector A (2P) terminal No. 2.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR
Wire side of female terminals



ACTIVE NOISE CANCELLATION FRONT MICROPHONE CONNECTOR A (2P)
Terminal side of male terminals

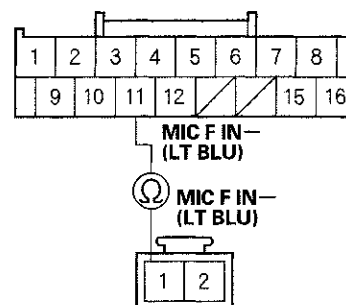
Is there continuity?

YES—Go to step 21.

NO—Repair an open in the wire between active noise control unit 16P connector terminal No. 3 and active noise cancellation front microphone connector A (2P) terminal No. 2. ■

21. Check for continuity between active noise cancellation unit 16P connector terminal No. 11 and active noise cancellation front microphone connector A (2P) terminal No. 1.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR
Wire side of female terminals



ACTIVE NOISE CANCELLATION FRONT MICROPHONE CONNECTOR A (2P)
Terminal side of male terminals

Is there continuity?

YES—Go to step 22.

NO—Repair an open in the wire between active noise cancellation unit 16P connector terminal No. 11 and active noise cancellation front microphone connector A (2P) terminal No. 1. ■

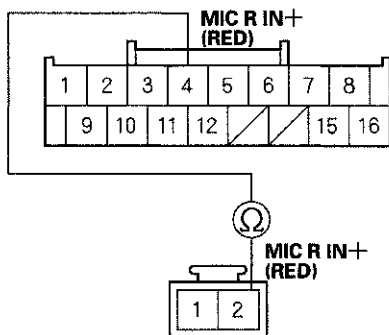
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Audio System

Symptom Troubleshooting (cont'd)

22. Disconnect active noise cancellation rear microphone connector A (2P) and stereo amplifier connector C (23P).
23. Check for continuity between active noise cancellation unit 16P connector terminal No. 4 and active noise cancellation rear microphone connector A (2P) terminal No. 2.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR
Wire side of female terminals



ACTIVE NOISE CANCELLATION REAR MICROPHONE CONNECTOR A (2P)
Terminal side of male terminals

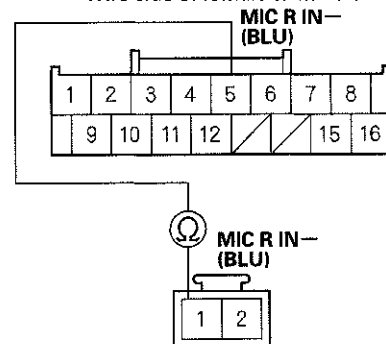
Is there continuity?

YES—Go to step 24.

NO—Repair an open in the wire between active noise cancellation unit 16P connector terminal No. 4 and active noise cancellation front microphone connector A (2P) terminal No. 2. ■

24. Check for continuity between active noise cancellation unit 16P connector terminal No. 5 and active noise cancellation rear microphone connector A (2P) terminal No. 1.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR
Wire side of female terminals



ACTIVE NOISE CANCELLATION REAR MICROPHONE CONNECTOR A (2P)
Terminal side of male terminals

Is there continuity?

YES—Replace the active noise cancellation unit (see page 23-113). ■

NO—Repair an open in the wire between active noise cancellation unit 16P connector terminal No. 5 and active noise cancellation rear microphone connector A (2P) terminal No. 1. ■

25. Check the No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box.

Is the fuse OK?

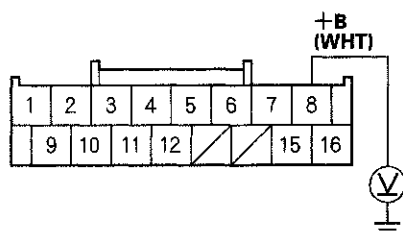
YES—Go to step 26.

NO—Replace the fuse, and recheck. ■



26. Measure the voltage between active noise cancellation unit 16P connector terminal No. 8 and body ground.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

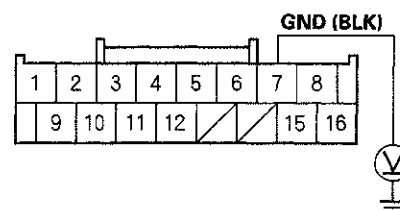
Is there battery voltage?

YES—Go to step 27.

NO—Repair an open in the wire between the No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box and the active noise cancellation unit 16P connector terminal No. 8. ■

27. Measure the voltage between active noise cancellation unit 16P connector terminal No. 7 and body ground.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 28.

NO—Repair an open in the wire between active noise cancellation unit 16P connector terminal No. 7 and body ground (G652) (see page 22-46). ■

28. Do the active noise cancellation (ANC) self-diagnostic function (see page 23-41).
29. Press the No. 1 button.
30. Disconnect the active noise cancellation unit 16P connector.

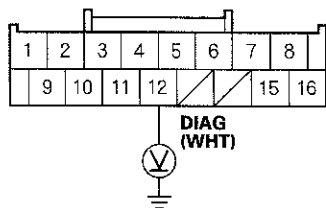
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Audio System

Symptom Troubleshooting (cont'd)

31. Measure the voltage between active noise cancellation unit 16P connector terminal No. 12 and body ground.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

Is there about 5 V?

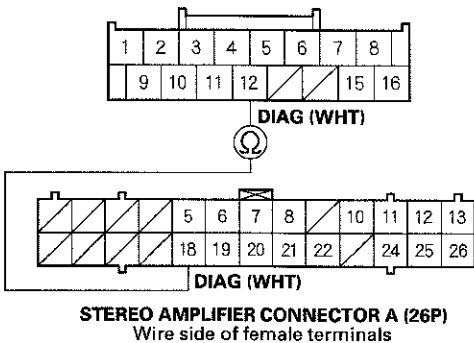
YES—Go to step 36.

NO—Go to step 32.

32. Turn the ignition switch to LOCK (0).
33. Disconnect stereo amplifier connector A (26P).
34. Check for continuity between active noise cancellation unit 16P connector terminal No. 12 and stereo amplifier connector A (26P) terminal No. 18.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR

Wire side of female terminals



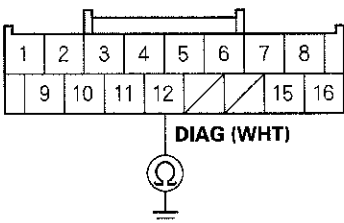
Is there continuity?

YES—Go to step 35.

NO—Repair an open in the wire between active noise cancellation unit 16P connector terminal No. 12 and stereo amplifier connector A (26P) terminal No. 18. ■

35. Check for continuity between body ground and active noise cancellation unit 16P connector terminal No. 12.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Repair a short in the wire between active noise cancellation unit 16P connector terminal No. 12 and stereo amplifier connector A (26P) terminal No. 18. ■

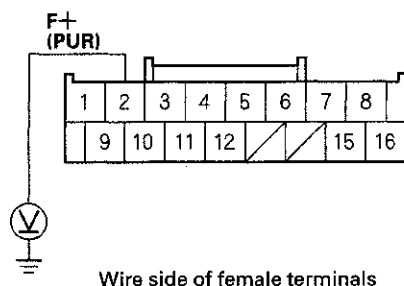
NO—Replace the stereo amplifier (see page 23-111). ■

36. Reconnect the active noise cancellation unit (16P) connector.



37. Do the active noise cancellation (ANC) self-diagnostic function (see page 23-41).
38. Press and release the No. 1 button.
39. Measure the voltage between active noise cancellation unit 16P connector terminal No. 2 and body ground.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Is there about 2.5 V?

YES—Replace the stereo amplifier (see page 23-111). ■

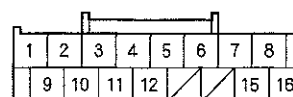
NO—Go to step 40.

40. Turn the ignition switch to LOCK (0).
41. Disconnect the active noise cancellation unit 16P connector and stereo amplifier connector C (23P).

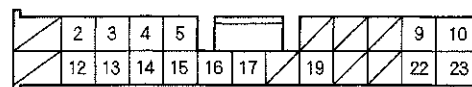
42. Check for continuity between the active noise cancellation unit 16P connector and stereo amplifier connector C (23P) according to the table.

Active noise cancellation unit connector	Stereo amplifier connector	Wire color
No. 1	C16	PNK
No. 2	C14	PUR
No. 9	C17	GRN
No. 10	C15	ORN

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



STEREO AMPLIFIER CONNECTOR C (23P)



Is there continuity?

YES—Go to step 43.

NO—Repair an open in the wire(s) between the active noise cancellation unit 16P connector and stereo amplifier connector C (14P). ■

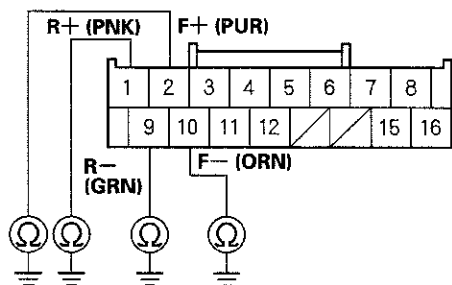
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

43. Check for continuity between body ground and active noise cancellation unit 16P connector terminals No. 1, 2, 9, and 10 individually.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Repair a short in the wire(s) between the active noise cancellation unit 16P connector and stereo amplifier connector C (14P). ■

NO—Replace the active noise cancellation unit (see page 23-113). ■

44. Start the engine, and let the vehicle idle.

45. Do the active noise cancellation (ANC) self-diagnostic function (see page 23-41).

46. Press the No. 1 button.

Can you hear the low-frequency hum?

YES—Go to step 47.

NO—The system is OK. ■

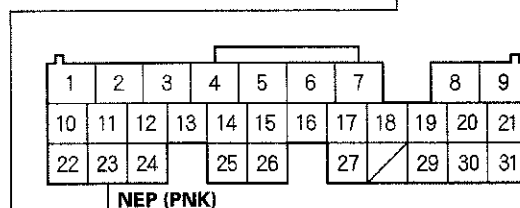
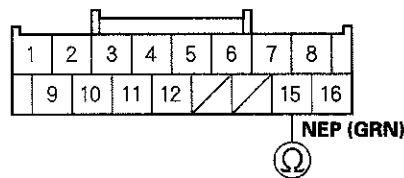
47. Turn the ignition switch to LOCK (0).

48. Disconnect the active noise cancellation unit 16P connector and PCM connector A (31P).

49. Check for continuity between active noise cancellation unit 16P connector terminal No. 15 and PCM connector A (31P) terminal No. 23.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR

Wire side of female terminals



PCM CONNECTOR A (31P)

Wire side of female terminals

Is there continuity?

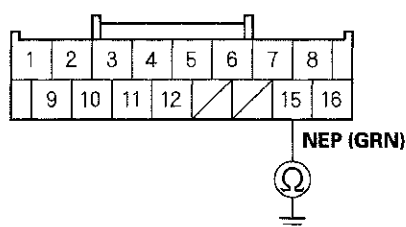
YES—Go to step 50.

NO—Repair an open in the wire between active noise cancellation unit 16P connector terminal No. 15 and PCM connector A (31P) terminal No. 23. ■



50. Check for continuity between active noise cancellation unit 16P connector terminal No. 15 and body ground.

ACTIVE NOISE CANCELLATION UNIT 16P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Repair a short in the wire between body ground and active noise cancellation unit 16P connector terminal No. 15 and PCM connector A (31P) terminal No. 23. ■

NO—Replace the PCM. ■

USB device does not function

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Make sure you have the client's USB device to use for testing.
- Some music players (connected through the USB port) may not work with all models.
- Make sure that the music player connected to the USB port works properly.
- The USB memory used for testing should conform to the USB mass storage class standard.
- The USB function is not compatible with a USB memory of 128 MB or below.
- The music must be saved to the player as WMA (Windows Media Audio) files or MP3. MP3 files saved in a variable bit rate are not compatible.

1. Connect a known-good music player to the USB port.
2. Turn the ignition switch to ON (II).
3. Press the AUX button, and check if it changes to USB mode.

Does it change to the USB mode?

YES—Go to step 4.

NO—Go to step 13.

4. Check that the client's USB memory device functions properly when connected to a known-good vehicle.

Does the music on the USB play?

YES—Go to step 5.

NO—The music player is either defective or incompatible. ■

(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

5. Return to the client's vehicle with the client's USB and check if NO DATA appears when the music player is connected to the USB port.

Does NO DATA appear?

YES—Go to step 6.

NO—Go to step 9.

6. Check the connectors at USB adapter unit connector B (5P) and the USB adapter cable and the USB jack.

Are the connectors and terminals connected properly?

YES—Go to step 7.

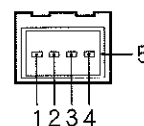
NO—Repair the connection, and recheck. ■

7. Disconnect USB adapter unit connector B (5P).

8. Check for continuity between USB adapter unit connector B (5P), and the USB jack according to the table.

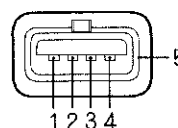
	USB adapter unit connector	USB jack
USB VBUS	B1	No. 1
USB DATA—	B2	No. 2
USB DATA+	B3	No. 3
USB GND	B4	No. 4
USB SH	B5	No. 5

USB ADAPTER UNIT CONNECTOR B (5P)



Terminal side of female terminals

USB JACK



Terminal side of female terminals

Is there continuity?

YES—Replace the USB adapter unit (see page 23-114) or the USB jack (see page 23-114). ■

NO—There is an open in the wire(s) between the USB adapter unit and the USB jack. Replace the affected shielded harness. ■

9. Turn on the audio unit, and check for sound in each mode (AM, FM, XM, and CD).

Is the sound normal?

YES—Go to step 10.

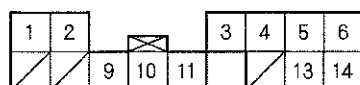
NO—Go to no sound is heard from the speaker(s) (see page 23-49). ■



10. Turn the ignition switch to ON (II).
11. Disconnect USB adapter unit connector A (14P) and audio unit connector C (14P).
12. Check for continuity between USB adapter unit connector A (14P) and audio unit connector C (14P) according to the table.

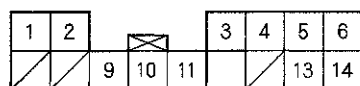
	USB adapter unit connector	Audio unit connector	Wire color
AUDIO R+	A5	C5	GRN
AUDIO R-	A13	C13	BLK
AUDIO L+	A6	C6	WHT
AUDIO L-	A14	C14	RED

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

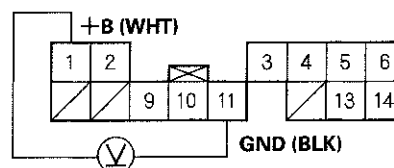
Is there continuity?

YES—Replace the USB adapter unit (see page 23-114). ■

NO—There is an open in the wire(s) between the USB adapter connector and the audio unit connector. Replace the affected shielded harness. ■

13. Measure the voltage between USB adapter unit connector A (14P) terminals No. 1 and No. 11.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there battery voltage?

YES—Go to step 14.

NO—Go to step 26.

(cont'd)

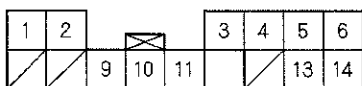
Audio System

Symptom Troubleshooting (cont'd)

14. Turn the ignition switch to LOCK (0).
15. Disconnect USB adapter unit connector A (14P), navigation display unit 20P connector, HandsFreeLink control unit 28P connector, AcuraLink control unit connector A (32P), and XM receiver unit connector A (14P).
16. Check for continuity between USB adapter unit connector A (14P) and the navigation display unit 20P connector according to the table.

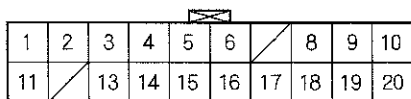
	USB adapter unit connector	Navigation display unit connector	Wire color
GA-NET BUS+	A9	No. 5	RED
GA-NET BUS-	A10	No. 15	GRN

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

NAVIGATION DISPLAY UNIT 20P CONNECTOR



Wire side of female terminals

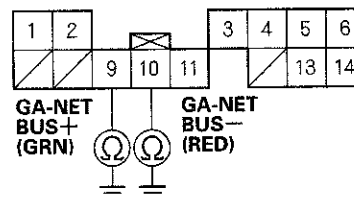
Is there continuity?

YES—Go to step 17.

NO—There is an open or short in the wire(s) between the USB adapter unit and the navigation display unit. Replace the affected shielded harness. ■

17. Check for continuity between body ground and USB adapter unit connector A (14P) terminals No. 9 and No. 10 individually.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there continuity?

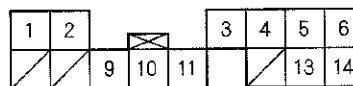
YES—There is a short in the wire(s) between USB adapter connector A (14P) and body ground. Replace the affected shielded harness. ■

NO—Go to step 18.

18. Check for continuity between terminals of USB adapter unit connector A (14P) according to the table.

From terminal	To terminals
A3 (GRY)	A9 (GRN), A10 (RED)

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the USB adapter unit and the navigation display unit. Replace the affected shielded harness. ■

NO—Go to step 19.



19. Turn the ignition switch to LOCK (0).
20. Disconnect USB adapter unit connector A (14P), and the navigation display unit 20P connector.
21. Check for continuity between audio unit connector C (14P) and the navigation display unit 20P connector according to the table.

	Audio unit connector	Navigation display unit connector	Wire color
GA-NET BUS+	C9	No. 3	GRN
GA-NET BUS-	C10	No. 13	RED

AUDIO UNIT CONNECTOR C (14P)

1	2		3	4	5	6
9	10	11		13	14	

Wire side of female terminals

NAVIGATION DISPLAY UNIT 20P CONNECTOR

1	2	3	4	5	6	8	9	10
11	13	14	15	16	17	18	19	20

Wire side of female terminals

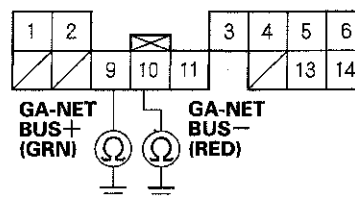
Is there continuity?

YES—Go to step 22.

NO—There is an open or short in the wire(s) between the audio unit and the navigation display unit. Replace the affected shielded harness. ■

22. Check for continuity between body ground and audio unit connector C (14P) terminals No. 9 and No. 10 individually.

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between audio unit connector C (14P) and body ground. Replace the affected shielded harness. ■

NO—Go to step 23.

23. Check for continuity between terminals of audio unit connector C (14P) according to the table.

From terminal	To terminals
C3 (GRY)	C9 (GRN), C10

AUDIO UNIT CONNECTOR C (14P)

1	2		3	4	5	6
9	10	11		13	14	

Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the audio unit and navigation display unit. Replace the affected shielded harness. ■

NO—Go to step 24.

(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

24. Turn on the audio unit, and check for sound in each mode (AM, FM, XM, and CD).

Is the sound normal?

YES—Replace the USB adapter unit (see page 23-114). ■

NO—Replace the audio unit (see page 23-106). ■

25. Turn the ignition switch to LOCK (0).

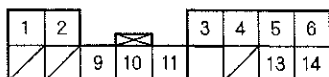
26. Disconnect USB adapter unit connector A (14P) and audio unit connector C (14P) [and XM receiver connector A (14P)] .

[] : With XM receiver

27. Check for continuity between USB adapter unit connector A (14P) and audio unit connector C (14P) according to the table.

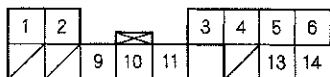
	USB adapter unit connector	Audio unit connector	Wire color
+B	A1	C1	WHT
SYS ON	A2	C2	PUR
GND	A11	C11	BLK

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—Go to step 28.

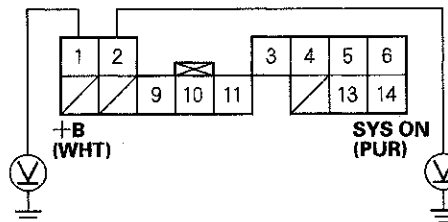
NO—Repair an open in the wire(s) between the USB adapter unit and the audio unit. ■

28. Reconnect audio unit connector C (14P).

29. Turn the ignition switch to ON (II).

30. Measure the voltage between body ground and USB adapter unit connector A (14P) terminals No. 1 and No. 2 individually.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there battery voltage?

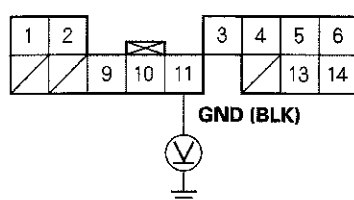
YES—Go to step 31.

NO—Repair an open in the wire(s) between the USB adapter unit and the audio unit. ■



31. Turn the ignition switch to LOCK (0).
32. Reconnect USB adapter unit connector A (14P).
33. Turn the ignition switch to ON (II).
34. Measure the voltage between USB adapter unit connector A (14P) terminal No. 11 and body ground.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Check pin fit and connection, then substitute a known-good audio unit (see page 23-106), and recheck. If the symptom/indication goes away, replace the original audio unit (see page 23-106). If the symptom is still present, substitute a known-good USB adapter unit (see page 23-114), and recheck. If the symptom/indication goes away, replace the original USB adapter unit (see page 23-114). ■

NO—Repair an open in the wire between the USB adapter unit and the audio unit. ■

There is no sound from the left speaker when the USB device is connected

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Turn the ignition switch to ON (II).
2. Check the sound output in AM/FM and CD modes.

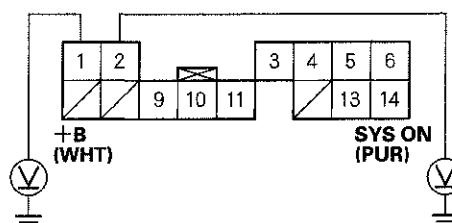
Is the sound normal?

YES—Go to step 3.

NO—Go to no sound is heard from the speaker(s) (see page 23-49). ■

3. Measure the voltage between body ground and USB adapter unit connector A (14P) terminals No. 1 and No. 2 and individually.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there battery voltage?

YES—Go to step 4.

NO—Repair an open in the wire(s) between the USB adapter unit and the audio unit. ■

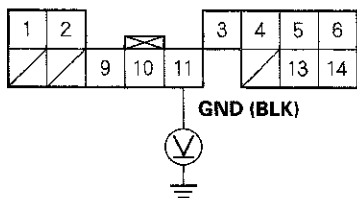
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

4. Measure the voltage between USB adapter unit connector A (14P) terminal No. 11 and body ground.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there less than 0.2 V?

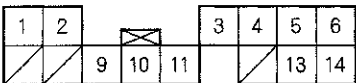
YES—Go to step 5.

NO—Repair an open in the wire(s) between the USB adapter unit and the audio unit. ■

5. Turn the ignition switch to LOCK (0).
6. Disconnect USB adapter unit connector A (14P) and audio unit connector C (14P).
7. Check for continuity between terminals of USB adapter unit connector A (14P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and USB adapter unit connector A (14P) terminal No. 4 (The harness shield).

	USB adapter unit connector	Wire color
Audio L+	A6	WHT
Audio L-	A14	RED

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the USB adapter unit and the audio unit. Replace the affected shielded harness.

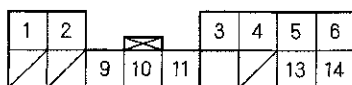
NO—Go to step 8.



8. Check for continuity between USB adapter unit connector A (14P) and audio unit connector C (14P) according to the table.

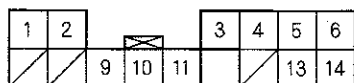
	USB adapter unit connector	Audio unit connector	Wire color
AUDIO L+	A6	C6	WHT
AUDIO L-	A14	C14	RED

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—Replace the USB adapter unit (see page 23-114). ■

NO—There is an open in the wire(s) between the USB adapter unit and the audio unit. Replace the affected shielded harness. ■

There is no sound from the right speaker when the USB device is connected

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Turn the ignition switch to ON (II).
2. Check the sound output in AM/FM and CD modes.

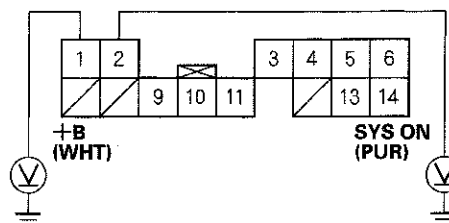
Is the sound normal?

YES—Go to step 3.

NO—Go to no sound is heard from the speaker(s) (see page 23-49).

3. Measure the voltage between body ground and USB adapter unit connector A (14P) terminal No. 1 and No. 2 individually.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there battery voltage?

YES—Go to step 4.

NO—Repair an open in the wire(s) between the USB adapter unit and the audio unit. ■

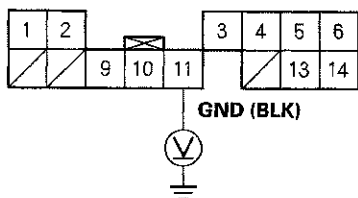
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

4. Measure the voltage between USB adapter unit connector A (14P) terminal No. 11 and body ground.

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there than 0.2 V?

YES—Go to step 5.

NO—Repair an open in the wire(s) between the USB adapter unit and the audio unit. ■

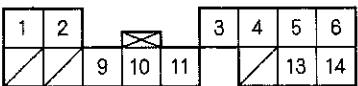
5. Turn the ignition switch to LOCK (0).

6. Disconnect USB adapter unit connector A (14P) and audio unit connector C (14P).

7. Check for continuity between terminals of USB adapter unit connector A (14P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and USB adapter unit connector A (14P) terminal No. 4 (The harness shield).

	USB adapter unit connector	Wire color
Audio L+	A5	GRN
Audio L-	A13	BLK

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the USB adapter unit and the audio unit. Replace the affected shielded harness. ■

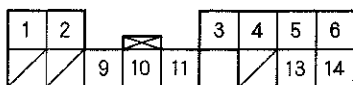
NO—Go to step 8.



8. Check for continuity between USB adapter unit connector A (14P) and audio unit connector C (14P) according to the table.

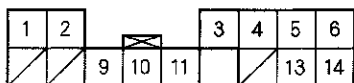
	USB adapter unit connector	Audio unit connector	Wire color
AUDIO R+	A5	C5	GRN
AUDIO R-	A13	C13	BLK

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—Replace the USB adapter unit (see page 23-114). ■

NO—There is an open in the wire(s) between the USB adapter unit and the audio unit. Replace the affected shielded harness. ■

Error code: XM NO SIGNAL is displayed

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connection or loose terminals.

1. Park the vehicle outside with a clear view of the southern horizon.
2. Turn the ignition switch to ON (II).
3. Turn on the audio unit, and select XM radio.

Does the XM radio receive a signal?

YES—Reception interference operation is normal. ■

NO—

- With AcuraLink: Go to step 4.
- Without AcuraLink: Go to step 10.

4. Turn the ignition switch to LOCK (0).
5. Check the XM antenna 2P connector and AcuraLink control unit (XM receiver) connector B (2P).

Are the connectors connected?

YES—Go to step 6.

NO—Reconnect the XM antenna 2P connector and AcuraLink control unit connector B (2P) connector, and recheck XM radio operation. If the signal is restored, the system is OK. If the signal is not restored go to step 3.

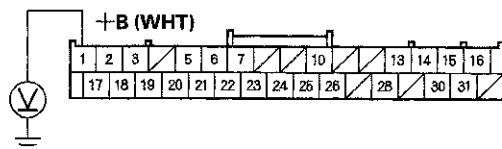
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

6. Turn the ignition switch to ON (II).
7. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 1 and body ground.

ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)



Wire side of female terminals

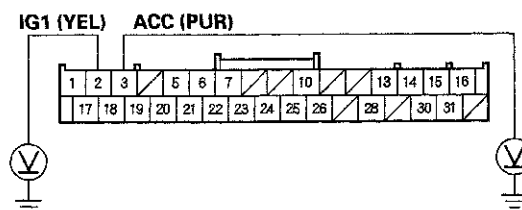
Is there battery voltage?

YES—Go to step 8.

NO—Repair an open in the wire between the No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box and AcuraLink control unit (XM receiver) connector A (32P) terminal No. 1. ■

8. Measure the voltage between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 2 and No. 3 individually.

ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)



Wire side of female terminals

Is there battery voltage?

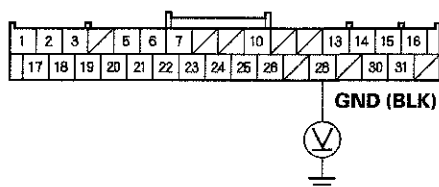
YES—Go to step 9.

NO—Repair an open in the wire between the No. 32 (10 A) or the No. 21 (10 A) fuse in the driver's under-dash fuse/relay box and XM receiver connector A (32P) terminals No. 2 and No.3. ■



9. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 28 and body ground.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 10.

NO—Repair an open in the wire between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 28 and body ground (G602) (see page 22-42). ■

10. Substitute known-good XM antenna.

Does the XM radio receive a signal?

YES—Replace the XM antenna (see page 23-116). ■

NO—Substitute a known-good XM antenna lead. If the AcuraLink control unit (XM receiver) receives a signal, replace the original XM antenna lead. If the AcuraLink control unit (XM receiver) does not receive a signal, substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111). ■

11. Turn the ignition switch to LOCK (0).

12. Check the connection at XM antenna connector B (2P) and XM receiver connector B (2P).

Are the connectors connected?

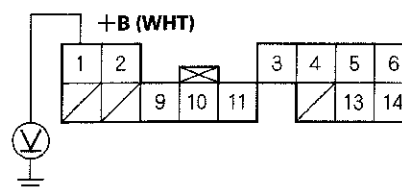
YES—Go to step 13.

NO—Reconnect the connectors, and recheck the XM radio operation. If the signal is restored, the system is OK. If the signal is not restored go to step 10.

13. Turn the ignition switch to ON (II).

14. Measure the voltage between XM receiver connector A (14P) terminal No. 1 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Is there battery voltage?

YES—Go to step 15.

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 1 and XM receiver connector A (14P) terminal No. 1. ■

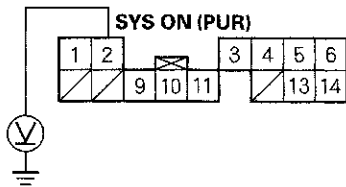
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

15. Measure the voltage between XM receiver connector A (14P) terminal No. 2 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

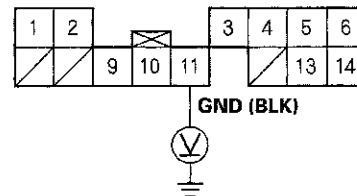
Is there less than 0.2 V?

YES—Go to step 16.

NO—Repair an open in the wire between audio unit connector E (14P) terminal No. 11 and USB adapter unit connector A (14P) terminal No. 11 and XM receiver connector A (14P) terminal No. 11. ■

16. Measure the voltage between XM receiver connector A (14P) terminal No. 11 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 17.

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 11 and XM receiver connector A (14P) terminal No. 11. ■

17. Substitute a known-good XM antenna.

Does the XM radio receive signal?

YES—Replace the XM antenna (see page 23-116). ■

NO—Substitute a known-good XM antenna lead. If the XM receiver receives signal, replace the original XM antenna lead. If the XM receiver does not receive a signal, substitute a known-good XM receiver (see page 23-112). ■



Error code: XM ANTENNA is displayed

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- If you replace the AcuraLink control unit (XM receiver), the AcuraLink must be reactivated by Acura Client Services.

[] : Without AcuraLink

1. Check the connector at the AcuraLink control unit (XM receiver) [or XM receiver] .

Is the connector connected?

YES—Go to step 2.

NO—Reconnect the connector(s). If the error message does not go away, go to step 2.

2. Check the connector at the XM terrestrial and satellite antenna module (GPS antenna).

Is the connector connected?

YES—Go to step 3.

NO—Reconnect the connector(s). If the error message does not go away, go to step 3.

3. Check the pin locations in the AcuraLink control unit (XM receiver) [or XM receiver] connector and the XM antenna module connectors.

Are the pins in the correct locations?

YES—Go to step 4.

NO—Correct the pin locations. If the error message does not go away, go to step 4.

4. Substitute a known-good XM terrestrial and satellite antenna module.

Is the error message gone?

YES—Replace the XM terrestrial and satellite antenna module. ■

NO—Go to step 5.

5. Substitute a known-good AcuraLink control unit (XM receiver) [or XM receiver] .

Is the error message gone?

YES—Update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111) [or XM receiver (see page 23-112)] . ■

NO—Replace the XM antenna lead. ■

Audio System

Symptom Troubleshooting (cont'd)

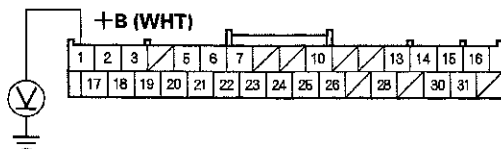
XM radio display is blank and no station information is displayed (with AcuraLink)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- If you replace the XM receiver, the AcuraLink must be reactivated by Acura Client Services.

1. Turn the ignition switch to ON (II).
2. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 1 and body ground.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

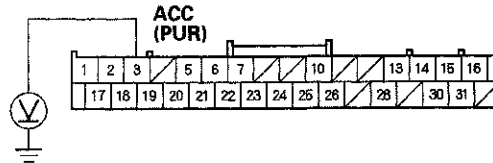
Is there battery voltage?

YES—Go to step 3.

NO—Repair an open in the wire between the No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box and XM receiver connector A (32P) terminal No. 1. ■

3. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 3 and body ground.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

Is there battery voltage?

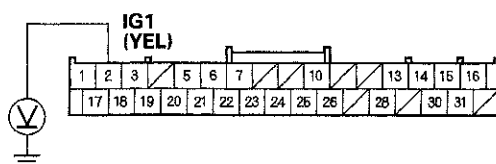
YES—Go to step 4.

NO—Repair an open in the wire between the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box and AcuraLink control unit (XM receiver) connector A (32P) terminal No. 3. ■



4. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 2 and body ground.

**ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)**



Wire side of female terminals

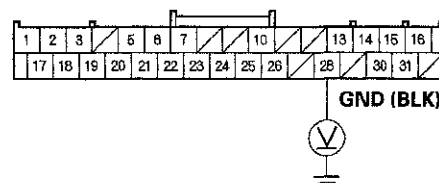
Is there battery voltage?

YES—Go to step 5.

NO—Repair open in the wire between the No. 21 (10 A) fuse in the driver's under-dash fuse/relay box and AcuraLink control unit (XM receiver) connector A (32P) terminal No. 2. ■

5. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 28 and body ground.

**ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)**



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 6.

NO—Repair open in the wire between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 28 and body ground (G602) (see page 22-42). ■

6. Turn the ignition switch to LOCK (0).

(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

7. Disconnect AcuraLink control unit (XM receiver) connector A (32P), navigation display unit 20P connector, HandsFreeLink control unit 28P connector, UBS adapter unit connector A (14P), and navigation unit connector B (32P).
8. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and the navigation display unit 20P connector terminal No. 14 (the harness shield).

AcuraLink control unit (XM receiver) connector	Wire color
A30	GRN
A31	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the audio unit and the AcuraLink control unit (XM receiver). Replace the affected shielded harness. ■

NO—Go to step 9.

9. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and USB adapter unit connector A (14P) according to the table.

AcuraLink control unit (XM receiver) connector	USB adapter unit connector	Wire color
A30	A9	GRN
A31	A10	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Wire side of female terminals

USB ADAPTER UNIT CONNECTOR A (14P)

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18

Wire side of female terminals

Is there continuity?

YES—Go to step 10.

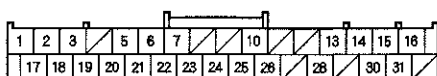
NO—There is an open in the wire(s) between the audio unit and the AcuraLink control unit (XM receiver). Replace the affected shielded harness. ■



10. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and the navigation display unit 20P connector according to the table.

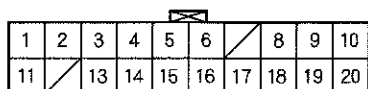
AcuraLink control unit (XM receiver) connector	Navigation display unit connector	Wire color
A30	5	GRN
A31	15	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

NAVIGATION DISPLAY UNIT 20P CONNECTOR



Wire side of female terminals

Is there continuity?

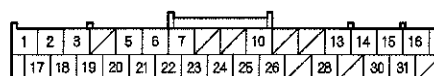
YES—Go to step 11.

NO—There is an open in the wire(s) between the navigation display unit and the AcuraLink control unit (XM receiver). Replace the affected shielded harness. ■

11. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and HandsFreeLink control unit 28P connector according to the table.

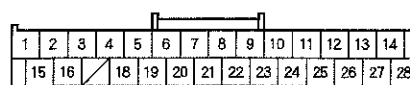
AcuraLink control unit (XM receiver) connector	HandsFreeLink control unit connector	Wire color
A30	4	GRN
A31	5	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

HANDSFREELINK CONTROL UNIT 28P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111), then reconnect all of the connectors and recheck. If the symptom/indication goes away, update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111). If the symptom/indicated is still present replace the audio unit (see page 23-106). ■

NO—There is an open in the wire(s) between the HandsFreeLink control unit and the AcuraLink control unit (XM receiver). Replace the affected shielded harness. ■

Audio System

Symptom Troubleshooting (cont'd)

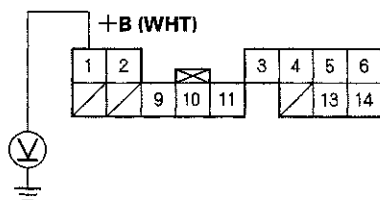
XM radio display is blank and no station information is displayed (without AcuraLink)

NOTE:

- Check vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.

1. Disconnect XM receiver connector A (14P).
2. Turn the ignition switch to ON (II).
3. Measure the voltage between XM receiver connector A (14P) terminal No. 1 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

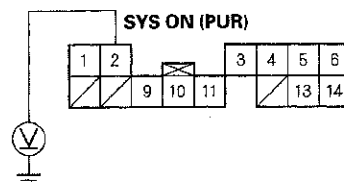
Is there battery voltage?

YES—Go to step 4.

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 1 and XM receiver connector A (14P) terminal No. 1. ■

4. Measure the voltage between XM receiver connector A (14P) terminal No. 2 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

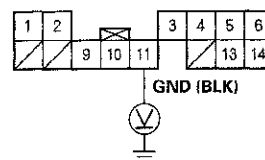
Is there battery voltage?

YES—Go to step 5.

NO—Repair an open in the wire between audio unit connector C (14P) No. 2 and XM receiver connector A (14P) terminal No. 2. ■

5. Turn the ignition switch to LOCK (0).
6. Reconnect XM receiver connector A (14P).
7. Turn the ignition switch to ON (II).
8. Measure the voltage between XM receiver connector A (14P) terminal No. 11 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 9.

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 11 and XM receiver connector A (14P) terminal No. 11. ■



9. Turn the ignition switch to LOCK (0).
10. Disconnect XM receiver connector A (14P), navigation display unit 20P connector, HandsFreeLink control unit 28P connector, USB adapter unit connector A (14P), and navigation unit connector B (32P).
11. Check for continuity between XM receiver connector A (14P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and XM receiver connector A (14P) terminal No. 3 (the harness shield).

XM receiver connector	Wire color
A9	GRN
A10	RED

XM RECEIVER CONNECTOR A (14P)

1	2			3	4	5	6
9	10	11		13	14		

Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the audio unit and the XM receiver. Replace the affected shielded harness. ■

NO—Go to step 13.

12. Check for continuity between XM receiver connector A (14P) and the navigation display unit 20P connector according to the table.

XM receiver connector	Navigation display unit connector	Wire color
A9	5	GRN
A10	15	RED

XM RECEIVER CONNECTOR A (14P)

1	2			3	4	5	6
9	10	11		13	14		

Wire side of female terminals

NAVIGATION DISPLAY UNIT 20P CONNECTOR

1	2	3	4	5	6		8	9	10
11	13	14	15	16	17	18	19	20	

Wire side of female terminals

Is there continuity?

YES—Go to step 13.

NO—There is an open in the wire(s) between the navigation display unit and the XM receiver. ■

(cont'd)

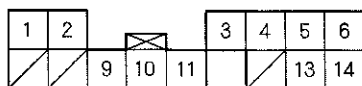
Audio System

Symptom Troubleshooting (cont'd)

13. Check for continuity between XM receiver connector A (14P) and the HandsFreeLink control unit 28P connector according to the table.

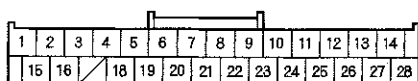
XM receiver connector	HandsFreeLink control unit connector	Wire color
A9	4	GRN
A10	5	RED

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

HANDSFREELINK CONTROL UNIT 28P CONNECTOR



Wire side of female terminals

Is there continuity?

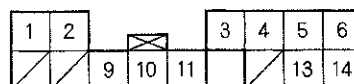
YES—Go to step 14.

NO—There is an open in the wire(s) between the HandsFreeLink control unit and the XM receiver. Replace the affected shielded harness. ■

14. Check for continuity between XM receiver connector A (14P) and USB adapter unit connector A (14P) according to the table.

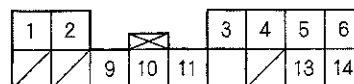
XM receiver connector	USB adapter unit connector	Wire color
A9	A9	GRN
A10	A10	RED

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

USB ADAPTER UNIT CONNECTOR A (14P)



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good XM receiver (see page 23-112), then reconnect all of the connectors, and recheck. If the symptom/indication goes away, replace the original XM receiver (see page 23-112). If the symptom/indication is still present replace the audio unit (see page 23-106). ■

NO—There is an open in the appropriate wire between the USB adapter unit and the XM receiver. Replace the affected shielded harness. ■



XM radio preset memory is lost (with AcuraLink)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connectors for poor connections or loose terminals.
- Check for an unlinked keyless remote.
- If you replace the AcuraLink control unit (XM receiver), the AcuraLink must be reactivated by Acura Client Services.
- If you can only tune to channel 000, 001, 174, and 247, make sure the audio unit is set to channel mode (see owners manual), if it is set to channel mode, call XM Satellite Radio client support, and check the account activation status.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and set each of the XM radio channel preset buttons.

Do each of the XM radio channel preset buttons set properly?

YES—Go to step 3.

NO—Go to step 7.

3. Turn the ignition switch to LOCK (0) for 1 minute, then turn it back to ON (II).
4. Test all of the XM radio channel preset buttons for proper recall operation.

Do the preset buttons recall the set radio stations?

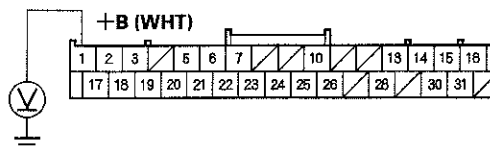
YES—System is normal at this time. Check connections at the audio unit. ■

NO—Go to step 5.

5. Turn the ignition switch to ON (II).

6. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 1 and body ground.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

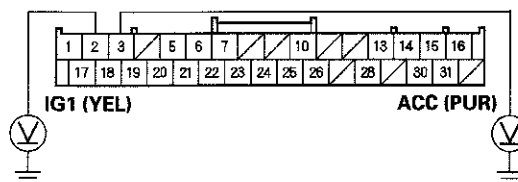
Is there battery voltage?

YES—Go to step 7.

NO—Repair an open in the wire between the No. 5 (7.5 A) fuse in the driver's under-dash fuse/relay box and AcuraLink control unit (XM receiver) connector A (32P) terminal No. 1. ■

7. Measure the voltage between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 2 and No. 3 individually.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

Is there battery voltage?

YES—Go to step 8.

NO—Repair an open in the wire between the No. 21 (10 A) fuse or the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 2 and No. 3. ■

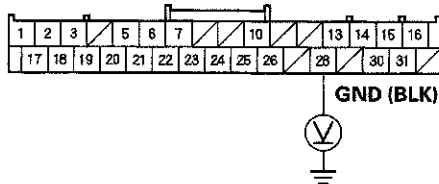
(cont'd)

Audio System

Symptom Troubleshooting (cont'd)

8. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) No. 28 terminal and body ground.

ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111), and recheck. If the symptom/indication goes away, replace the original AcuraLink control unit (XM receiver) (see page 23-111). ■

NO—Repair open in the wire between audio unit connector A (32P) terminal No. 28 and body ground (G602) (see page 22-42). ■

XM radio preset memory is lost (without AcuraLink)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check for an unlinked keyless remote.
- Check the connectors for poor connections or loose terminals.
- If you can only tune to channel 000, 001, 174, and 247, make sure the audio unit is set to channel mode (see owner's manual), if it is set to channel mode, call XM radio client support, and check the account activation status.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit, and set each of the XM radio channel preset buttons.

Do each of the XM radio channel preset buttons set properly?

YES—Go to step 3.

NO—Go to step 7.

3. Turn the ignition switch to LOCK (0) for 1 minute, then turn it back to ON (II).
4. Test all of the XM radio channel preset buttons for proper recall operation.

Do the preset buttons recall the set radio stations?

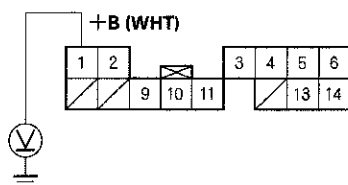
YES—Intermittent failure, the system is normal at this time. Check connections at the audio unit. ■

NO—Go to step 5.



5. Turn the ignition switch to LOCK (0).
6. Disconnect XM receiver connector A (14P)
7. Measure the voltage between XM receiver connector A (14P) terminal No. 1 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

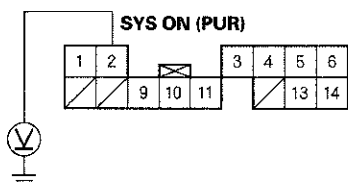
Is there battery voltage?

YES—Go to step 8.

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 1, USB adapter unit connector A (14P) terminal No. 1, and XM receiver connector A (14P) terminal No. 1. ■

8. Turn the ignition switch to ON (II).
9. Measure the voltage between XM receiver connector A (14P) terminal No. 2 and body ground individually.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

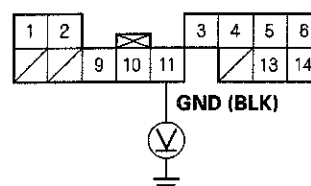
Is there battery voltage?

YES—Go to step 10.

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 2, USB adapter unit connector A (14P) terminal No. 1, and XM receiver connector A (14P) terminal No. 2. ■

10. Turn the ignition switch to LOCK (0).
11. Reconnect XM receiver connector A (14P).
12. Turn the ignition switch to ON (II).
13. Measure the voltage between XM receiver connector A (14P) terminal No. 11 and body ground.

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Is there less than 0.2 V?

YES—Substitute a known-good XM receiver (see page 23-112), and recheck. If the symptom/indication goes away, replace the XM receiver (see page 23-112). ■

NO—Repair an open in the wire between audio unit connector C (14P) terminal No. 11 and XM receiver connector A (14P) terminal No. 11. ■

Audio System

Symptom Troubleshooting (cont'd)

Poor or no sound with XM radio (Audio unit does display XM channels)

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check the connector for poor connections or loose terminals.
- Check the radio reception in an open area. Compare it to a known-good vehicle whenever possible. Poor reception/interference can be caused by tall buildings, mountains, or high-voltage power lines are nearby.
- If you can only tune to channel 000, 001, 174, and 247, make sure the audio unit is set to channel mode (see owners manual), if it is set to channel mode, call XM Satellite Radio client support, and check the account activation status.
- If you replace the XM receiver, the AcuraLink must be reactivated by Acura Client Services.

1. Turn the ignition switch to ON (II).
2. Turn on the audio unit and select XM radio.
3. Check for an error message on the display.

Are there any messages displayed?

YES—Go to error code list (see page 23-42). ■

NO—

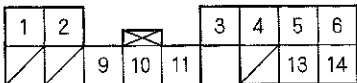
- With AcuraLink: Go to step 4.
- Without AcuraLink: Go to step 8.

4. Turn the ignition switch to LOCK (0).
5. Disconnect audio unit connector C (14P) and AcuraLink control unit (XM receiver) connector A (32P) and USB adapter unit connector A (14P), and the HandsFreeLink control unit 28P connector.

6. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and audio unit connector C (14P) terminal No. 4 (the harness shield).

Audio unit connector	Wire color
C5	GRN
C6	WHT
C13	BLK
C14	RED

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the audio unit and the AcuraLink control unit (XM receiver) or short between the shielded wire. Replace the affected shielded harness. ■

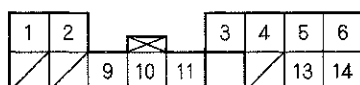
NO—Go to step 7.



7. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and audio unit connector C (14P) according to the table.

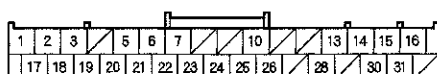
Audio unit connector	AcuraLink control unit (XM receiver) connector	Wire color
C5	A13	GRN
C6	A15	WHT
C13	A14	BLK
C14	A16	RED

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111), then reconnect all connectors, and recheck. If the symptom/indication goes away, update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111). If symptom/indication is still present, replace the audio unit (see page 23-106). ■

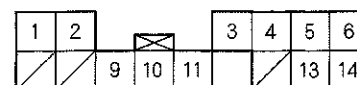
NO—There is an open in the wire(s) between the audio unit and the AcuraLink control unit (XM receiver). Replace the affected shielded harness. ■

8. Disconnect audio unit connector C (14P), XM receiver connector A (14P), USB adapter unit connector A (14P), and the HandsFreeLink control unit 28P connector.

9. Check for continuity between XM receiver connector C (14P) and body ground according to the table. Then check for continuity between the same terminals listed in the table and audio unit connector C (14P) terminal No. 4 (the harness shield).

Audio unit connector	Wire color
C5	GRN
C6	WHT
C13	BLK
C14	RED

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—There is a short in the wire(s) between the audio unit and the XM receiver or short between the shielded wire. Replace the affected shielded harness. ■

NO—Go to step 10.

(cont'd)

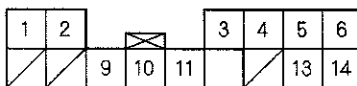
Audio System

Symptom Troubleshooting (cont'd)

10. Check for continuity between XM receiver connector A (14P) and audio unit connector C (14P) according to the table.

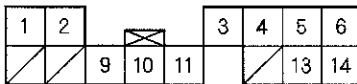
Audio unit connector	XM receiver connector	Wire color
C5	A5	GRN
C6	A6	WHT
C13	A13	BLK
C14	A14	RED

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good XM receiver (see page 23-112), then reconnect all connectors and recheck. If the symptom/indication goes away, replace the original XM receiver (see page 23-112). If symptom/indication is still present, replace the audio unit (see page 23-106). ■

NO—There is an open in the wire(s) between the audio unit and the XM receiver. Replace the affected shielded harness. ■

Sound Quality Diagnosis

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Use the following tests to check sound quality.

NOTE: Before beginning the following tests, write down the client's bass, treble, fader and balance settings, then set them to their center positions for the testing.

Left/Right Channel ID

Do this test to confirm proper channel routing.

1. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
2. Play track No. 1 (left, both, right channel ID) at a normal, or slightly higher than normal, volume level.
3. The voice should be audible only from the channel or channels when indicated.
 - If the channel ID is correct for each side, go to phase test.
 - If the channel ID is not correct, check for:
 - Shorted speaker wire
 - Faulty amplifier
 - Faulty audio unit



Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Use the following tests to check sound quality.

NOTE: Before beginning the following tests, write down the client's bass, treble, fader and balance settings, then set them to their center positions for the testing.

Phase Test

Do this test to confirm proper speaker phasing.

1. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
2. Play track No. 2 (phase) at a normal, or slightly higher than normal, volume level.
3. The voice should sound centered and focused when it is in-phase.
4. The voice should sound diffused, and have less bass when it is out of phase.
 - If the voice changes from in-phase to out of phase as indicated by the prompt, the phasing is correct. Go to electrical noise test (see page 23-101).
 - If the voice always sounds out of phase, phasing is not correct. Check for:
 - Crossed speaker wire
 - Faulty amplifier
 - Faulty audio unit

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Electrical Noise Test

Do this test to check for electrical noise being induced into the audio system.

NOTE: Electrical noise may be caused by outside sources that cannot be handled by the audio system. Make sure you remove any cell phones and/or turn off any aftermarket devices before beginning this test.

1. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
2. Play track No. 4 (digital zero) at a normal, or slightly higher than normal, volume level.
3. Operate any electrical device that may create electrical noise in the audio system, including starting the engine.
4. Play track No. 5 (near digital zero) at a normal, or slightly higher than normal, volume level.
5. Operate any electrical device that may create electrical noise in the audio system, including starting the engine.
6. Play track No. 6 (SNR) at a normal, or slightly higher than normal, volume level.

(cont'd)

Audio System

Sound Quality Diagnosis (cont'd)

7. Operate any electrical device that may create electrical noise in the audio system, including starting the engine.
 - If no abnormal noise is heard, go to the individual speaker test (see page 23-102).
 - If the noise is present only during the SNR track, replace the audio unit.
 - If the noise is heard during the digital zero or near digital zero track, check for:
 - Poor ground at the audio unit, amplifier, engine, or battery cable
 - Pinched or shorted speaker or amplifier wire
 - Faulty amplifier
 - Faulty audio unit
 - Other faulty components causing excessive electrical noise (ignition coils, alternator, door lock actuators, etc.). Disconnect any suspect components, and then replay the tracks that were originally noisy. If the noise is gone, check the component's circuit and the component.

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Individual Speaker Test

Do this test to identify a faulty speaker.

1. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
2. Play track No. 30 (steady 300 Hz tone) at a normal, or slightly higher than normal, volume level.
3. Listen to each speaker for poor sound compared to the other channels. Use the audio unit's fader and balance settings to help isolate the channel with the problem.
 - If the sound quality produced by a specific speaker is poor, substitute it with a known-good speaker. If the poor sound quality continues, go to the sound balance test (see page 23-103).
 - If the sound quality is OK, go to the sound balance test (see page 23-103).



Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Sound Balance Test

Perform this test to identify a faulty channel or speaker.

1. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
2. Confirm the bass and treble are set to the center positions.
3. Play track No. 3 (pink noise) at a normal, or slightly higher than normal, volume level.
4. You should hear a static sound through all the speakers.
5. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit of a known-good vehicle.
6. Set the bass and treble to the center positions.
7. Play track No. 3 (pink noise) all the same level as was played in step 3.
8. Compare the sounds made by the two vehicles.
 - If the sound does not have as much bass, check the subwoofer and the circuit.
 - If the sound does not have enough hiss, check the tweeters and their circuits.

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Frequency Sweep

Do this test to find rattles or reverberations that may cause a perception of poor sound quality.

1. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
2. Play track No. 13 (sweep from 500 Hz to 35 Hz) at a normal, or slightly higher than normal, volume level.
3. Listen to each speaker for poor sound quality or reverberations caused by specific frequencies. Use the voice-over to estimate the frequency that causes the vibration. Use the audio unit's fader and balance settings to help isolate the channel with the problem.
 - If vibrations or poor sound quality are heard, go to step 4.
 - If no vibrations or poor sound quality are heard, go to sound judging (see page 23-104).
4. Choose the appropriate track from No. 14 to 25 (small range frequency sweep) or 26 to 53 (single frequencies) to recreate the frequency that caused the poor sound quality or vibration witnessed in step 3; this aids in diagnosis of the cause.

NOTE: When you get to the track that recreates the problem, select the repeat function on the audio unit, this will help you isolate the cause.
5. Replace or insulate the source of the vibration or if the speaker is the source of the poor sound quality, replace it.

Audio System

Sound Quality Diagnosis (cont'd)

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

Sound Judging

Do this test to compare overall sound quality, imaging, and dynamics between the client's vehicle and a known-good vehicle. Only use a vehicle of the same model and trim level for this test.

1. In the client's vehicle, set the bass, treble, fader, and balance settings to the client's normal settings that were written down before beginning the test.
2. Insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
3. Play tracks No. 7 to 12 (sound quality, midland, dynamics, and imaging demonstration tracks) at a normal, or slightly higher than normal, volume level. Write down the volume setting being used.
4. Listen to areas of the track that stand out as being either very clear or poorer than other areas of the track.
5. In a known-good vehicle, insert the audio diagnostic CD (T/N 07AAZ-SDBA100) into the audio unit.
6. Play the tracks at the same volume level and the same bass, treble, balance, and fader settings as used in step 3 in the client's vehicle.
7. Listen to the same area of the track that stood out as being either very clear or poorer than other areas of the track.
8. Compare the client's vehicle's sound quality results to the known-good vehicle's results.
 - If the sound quality in the client's vehicle is comparable to the sound quality in the known-good vehicle, then the client's vehicle is operating as designed.
 - If the sound quality is not comparable, check these items in order:
 - Loose or improperly installed speakers or other hardware that may create interference from the vibrations generated by the speakers
 - Poor power or ground to the stereo amplifier
 - Damaged speaker(s)
 - Faulty amplifier
 - Faulty audio unit



Seek Stop Test

Do this test to check the performance of the audio unit's AM and FM reception. Refer to symptom troubleshooting: audio sound weak or distorted, or no sound is heard from speaker(s) (display is normal) (see page 23-49) before continuing with this test.

NOTE:

- Aftermarket metallic window tint, aftermarket theft-recovery devices and other aftermarket devices may affect reception.
- Changes in cloud cover and other atmospheric conditions will affect the ability of the audio unit to receive radio signals.

1. Park the client's vehicle in an open area, away from buildings or other obstructions.
2. Park a known-good vehicle (same year, model, and trim level) next to the client's vehicle, facing the same direction.
3. Start the engine in the client's vehicle, and turn on the radio.
4. Set the FM receiver to 87.7 MHz.
5. Press the Seek + button, and record the first station that the audio unit locks onto.
6. Press the Seek + button repeatedly, and write down each station that the audio unit locks onto until the station recorded in step 5 is reached again.
7. Set the AM receiver to 530 kHz.
8. Press the Seek + button, and record the first station that the audio unit locks onto.
9. Press the Seek + button repeatedly, and write down each station that the audio unit locks onto until the station recorded in step 8 is reached again.

10. Turn the ignition switch to LOCK (0).

11. Start the engine in the known-good vehicle, and then do steps 4 thru 10 on the known-good vehicle.
12. Compare the number of stations received in steps 6 and 9 in the client's vehicle with the number of stations received in the known-good vehicle.

- If the number of stations received is the same, or within 10 %, the audio unit's tuner performance is OK. The problem may be atmospheric conditions, multi-path interference, or other obstructions to the radio signal.
- If the client's vehicle receives fewer stations by at least 10 %, go to step 2 of poor radio reception or interference (see page 23-43).

Audio System

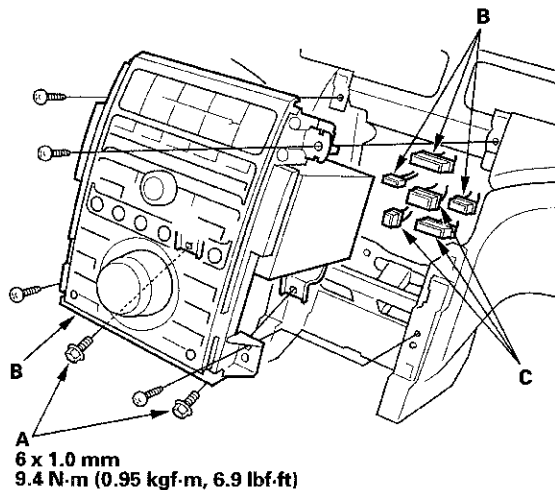
Audio Unit Removal/Installation

SRS components are located in this area. Review the SRS component locations (see page 24-12), and the precautions and procedures (see page 24-14) before doing repairs or service.

NOTE:

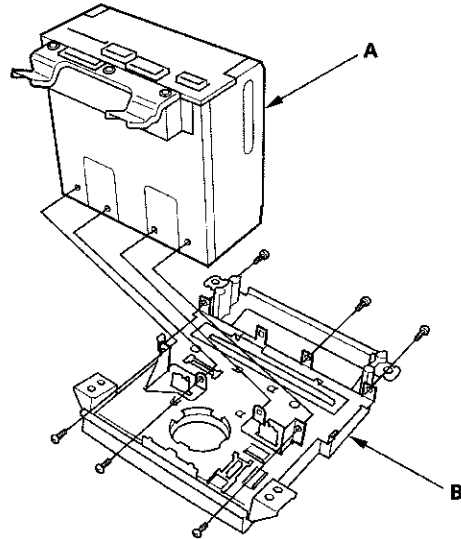
- Put on gloves to protect your hands.
- Take care not to scratch the dashboard and related parts.
- Lay a workshop towel under the parts when working on them to protect the face panel from scratches or other damage.
- Eject all the CDs before removing the audio unit to prevent damaging the CD player's load mechanism.
- If you are replacing the audio unit, write down the audio presets (if possible), and enter them into the new audio unit.

1. Make sure you have the anti-theft codes for the audio system and the navigation system (if equipped).
2. Remove the console trim (see page 20-97).
3. Remove the bolts (A) and self tapping screws, then pull out the audio unit (B).



4. Disconnect the connectors (C), then remove the audio unit.
5. Remove the climate control unit (see page 21-84).

6. Remove the interface dial (see page 23-256).
7. Remove the screws and the audio unit (A) from the audio panel (B).



8. Install the audio unit in the reverse order of removal, and note these items:
 - Make sure all the connectors and the antenna lead are secure.
 - Enter the anti-theft codes for the audio system and the navigation system, and set the clock (on vehicles without navigation).
 - If necessary, enter the navigation system code.

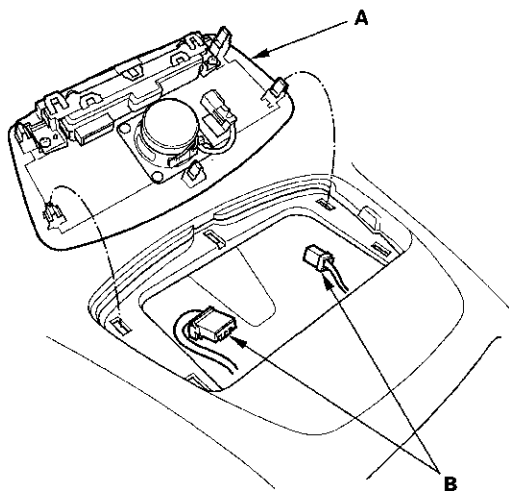


Audio-HVAC Subdisplay Unit Removal/Installation

NOTE:

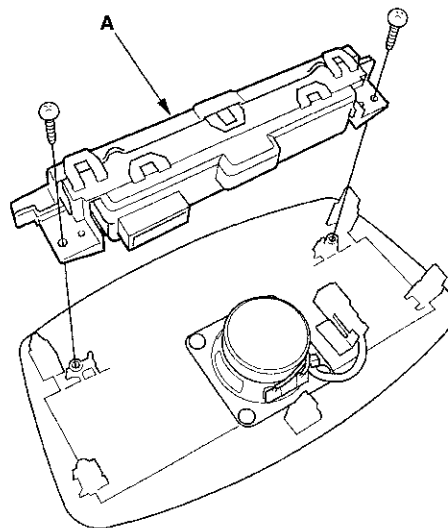
- Put on gloves to protect your hands.
- Take care not to scratch the dashboard.

1. Remove the dashboard upper visor (A).



2. Disconnect the connectors (B).

3. Remove the self-tapping screws and the audio-HVAC subdisplay unit (A).



4. Install the display in the reverse order of removal.

Audio System

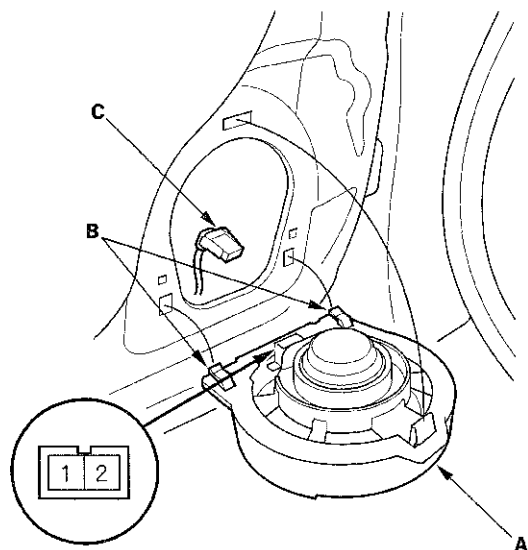
Speaker Test/Replacement

Front Door Speaker

1. Remove the front door panel (see page 20-9).
2. Pull the speaker (A) straight out, just enough to release the upper clips. Then lift the speaker straight up to release the lower clips (B).

NOTICE

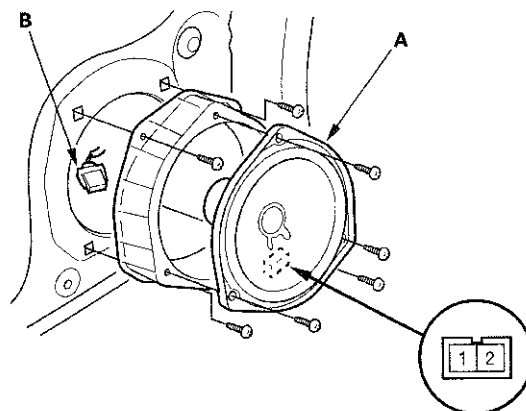
If you pull the speaker out too far from the door, you will damage the lower clips.



3. Disconnect the 2P connector (C), and remove the speaker.
4. Measure the resistance between the terminals No. 1 and No. 2. There should be about 2 Ω .
5. If the resistance is not as specified, replace the door speaker.

Rear Door Speaker

1. Remove the rear door panel (see page 20-21).
2. Remove the three mounting screws from the rear speaker (A).

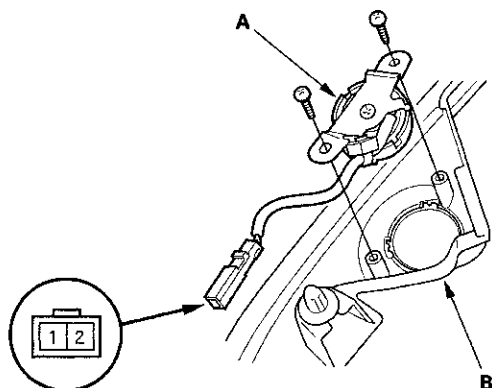


3. Disconnect the 2P connector (B), and remove the rear door speaker.
4. Measure the resistance between the terminals No. 1 and No. 2. There should be about 2 Ω .
5. If the resistance is not as specified, replace the door speaker.



Front Door Tweeter

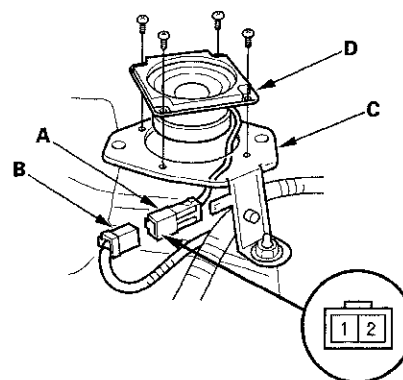
1. Remove the front door sash inner trim (see page 20-18).
2. Remove the screws and tweeter speaker (A) from the quarter inner trim (B).



3. Measure the resistance between the front door tweeter 2P connector terminals No. 1 and No. 2. There should be about 3.6 Ω .
4. If the resistance is not as specified, replace the front door tweeter.

Rear Twiddler

1. Remove the rear shelf (see page 20-80).
2. Disconnect the 2P connector (A), then remove the connector (B) from the rear twiddler bracket (C).



3. Remove the screws and the rear twiddler (D).
4. Measure the resistance between the terminals No. 1 and No. 2. There should be about 4 Ω .
5. If the resistance is not as specified, replace the rear twiddler speaker.

(cont'd)

Audio System

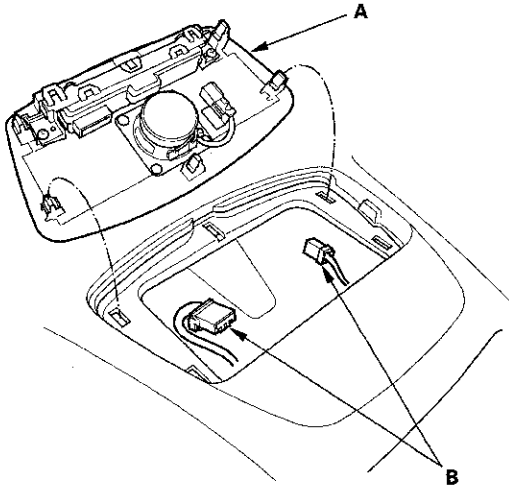
Speaker Test/Replacement (cont'd)

Front Center Speaker

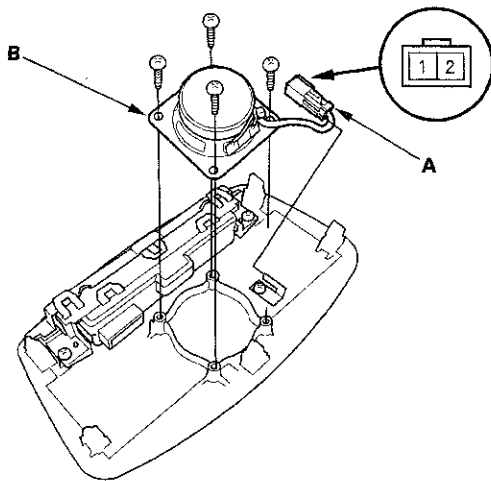
NOTE:

- Put on gloves to protect your hands.
- Take care not scratch the dashboard.

1. Remove the dashboard upper visor (A).



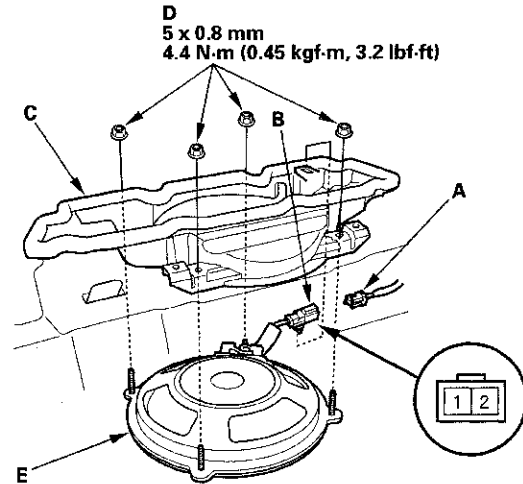
2. Disconnect the connectors (B).
3. Remove the screws, connector (A), and the front center speaker (B).



4. Measure the resistance between the terminals No. 1 and No. 2. There should be about 4 Ω .
5. If the resistance is not as specified, replace the front center speaker.

Subwoofer

1. Remove the rear shelf (see page 20-80) and rear shelf under cover.
2. Disconnect the 2P connector (A), then remove connector clip (B) from the subwoofer duct (C).

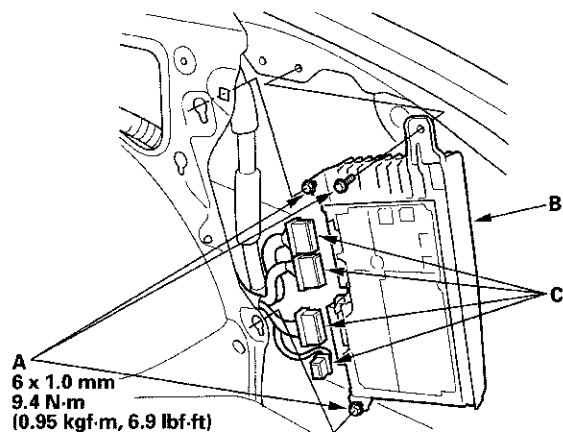


3. Remove the nuts (D) and the subwoofer (E).
4. Measure the resistance between the terminals No. 1 and No. 2. There should be about 2 Ω .
5. If the resistance is not as specified, replace the subwoofer.



Stereo Amplifier Removal/Installation

1. Remove the right side trunk trim (see page 20-83).
2. Loosen and remove the mounting bolts (A), then pull out the stereo amplifier (B).



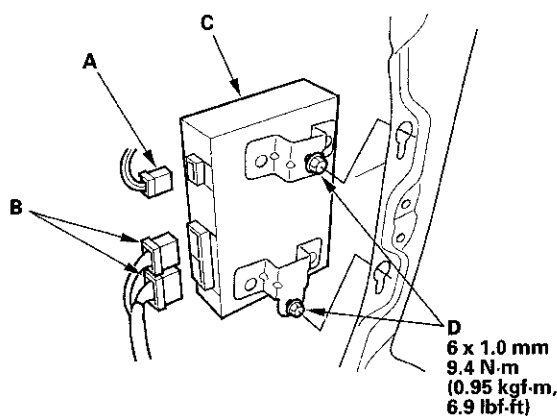
3. Disconnect the connectors (C).
4. Install the stereo amplifier in the reverse order of removal.

AcuraLink Control Unit (XM Receiver) Removal/Installation

NOTE: The AcuraLink must be reactivated by Acura Client Services when:

- The AcuraLink (XM) unit is replaced.
- DATA RESET was selected while in the self-diagnostic function.
- Vehicle ownership changes.

1. Remove the left side trunk trim (see page 20-83).
2. Disconnect the antenna 2P connector (A) 32P connector (B) from the AcuraLink control unit (XM receiver) (C).



3. Loosen the mounting bolts (D), then pull out the AcuraLink control unit (XM receiver).
4. Install the AcuraLink control unit (XM receiver) in the reverse order of removal.

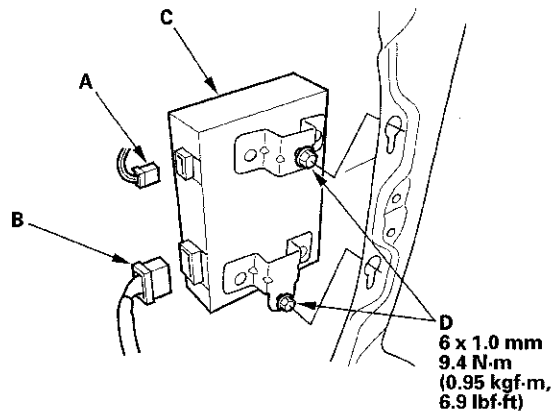
NOTE: If you replaced the AcuraLink control unit, make sure it has the latest software (see page 23-294).

5. Call XM Satellite Radio to update the client's account with the new XM/HIP serial number. Also call Acura Client Services to reactivate the AcuraLink.

Audio System

XM Receiver Removal/Installation

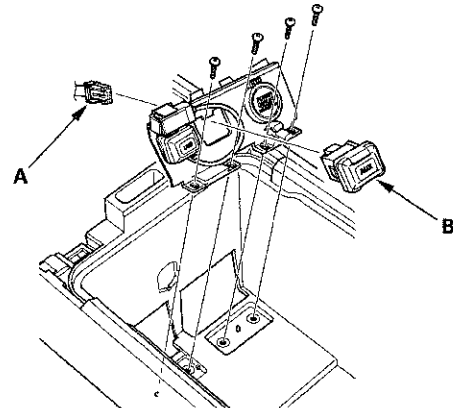
1. Remove the left side trunk trim (see page 20-83).
2. Disconnect the 2P connector (A) and 14P connector (B) from the XM receiver (C).



3. Loosen the mounting bolts (D), then pull out the XM receiver.
4. Install the XM receiver in the reverse order of removal.

Auxiliary Jack Assembly Replacement

1. Remove the accessory trim (see page 20-92).
2. Disconnect the 5P connector (A) from the auxiliary jack assembly (B).

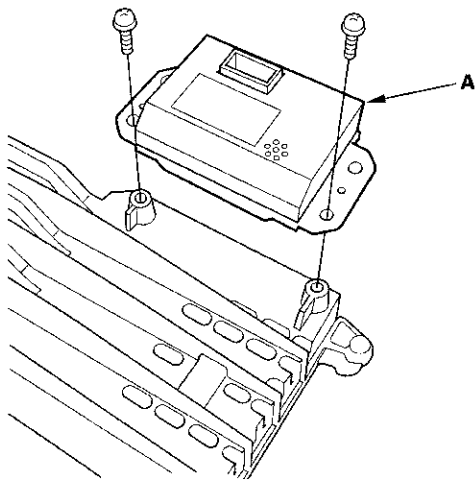


3. Install the auxiliary jack assembly in the reverse order of removal.



Active Noise Cancellation Unit Removal/Installation

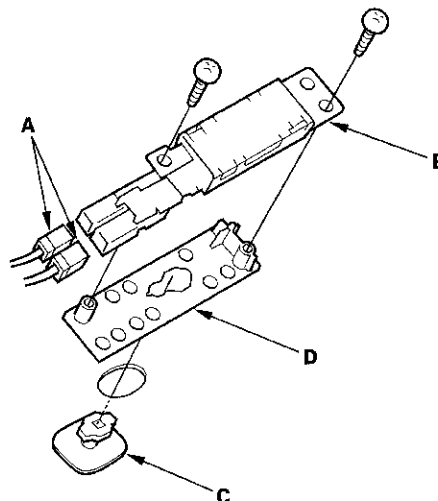
1. Remove the stereo amplifier (see page 23-111).
2. Remove the screws and the active noise cancellation unit (A).



3. Install the unit in the reverse order of removal.

Active Noise Cancellation Microphone Removal/Installation

1. Remove the headliner (see page 20-86).
2. Disconnect the connectors (A), then remove the screws and the active noise cancellation microphone (B).

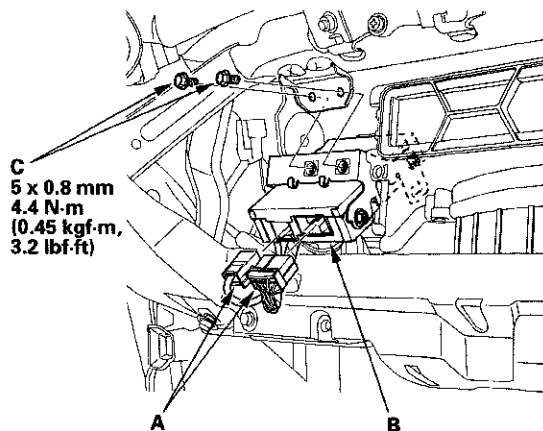


3. Remove the cap (C) from the base (D).
4. Install the microphone in the reverse order of removal.

Audio System

USB Adapter Unit Replacement

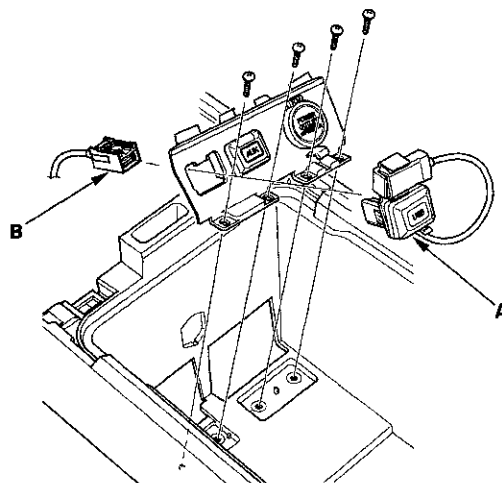
1. Remove the glove box (see page 20-103).
2. Disconnect the connectors (A) from the USB adapter unit (B).



3. Remove the mounting bolts (C) and the USB adapter unit.
4. Install the USB adapter unit in the reverse order of removal.

USB Jack Replacement

1. Remove the accessory trim (see page 20-92).
2. Pull out the USB jack (A) from the accessory trim, then disconnect the USB adapter cable 5P connector (B).

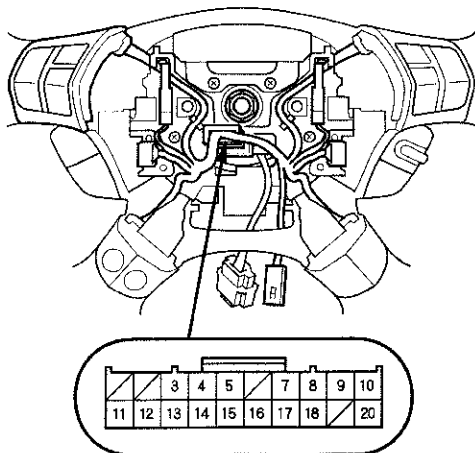


3. Install the USB jack in the reverse order of removal.



Audio Remote Switch Test

1. Remove the driver's airbag assembly (see page 24-197).
2. Remove the 20P connector from the cable reel.



Wire side of female terminals

3. Measure the resistance between terminals No. 17 and No. 18 in each switch position according to the table.

Position	Resistance
No button pressed	About 10 k Ω
MODE	About 3.7 k Ω
CH (+)	About 1.7 k Ω
CH (-)	About 775 Ω
▲ (VOL. UP)	About 357 Ω
▼ (VOL. DOWN)	About 100 Ω

4. If the resistance is not as specified, replace the remote switch.
5. Use a diode tester between the terminals in each switch position according to the table.

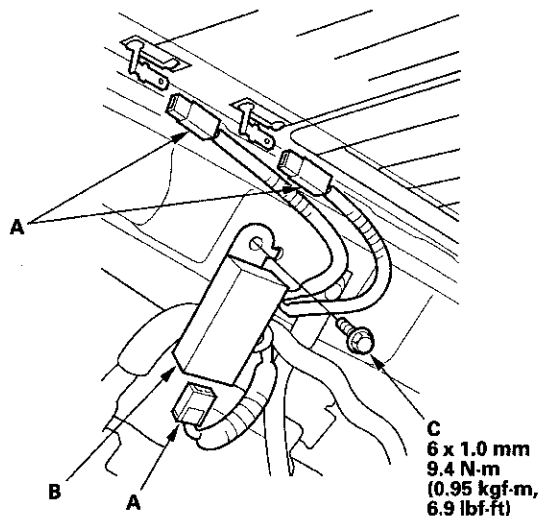
Terminal	8		9
	○	⊕	○

6. If the diode test is not as specified, replace the switch.

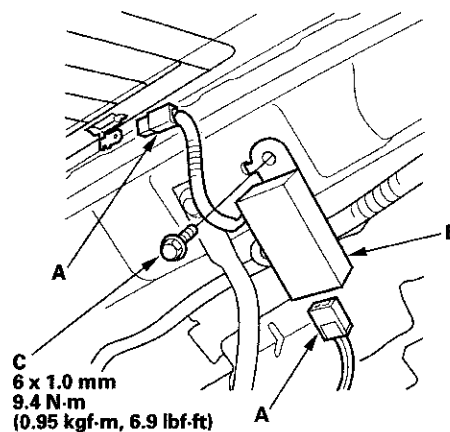
AM/FM Antenna Amplifier Replacement

1. Remove the C-pillar trim (see page 20-76).
2. Disconnect the connectors (A) from the AM/FM antenna amplifier (B).

AM/FM main antenna amplifier



AM/FM subantenna amplifier

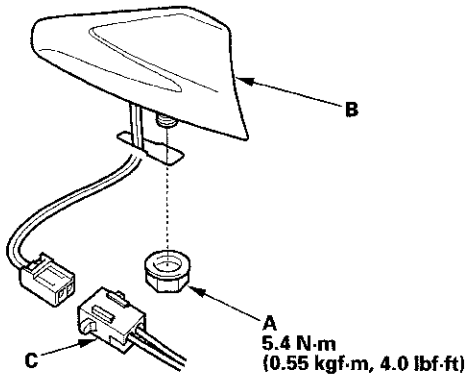


3. Remove the bolt (C) and AM/FM antenna amplifier.
4. Install the unit in the reverse order of removal.

Audio System

XM Antenna Replacement

1. Remove the headliner (see page 20-86).
2. Remove the nut (A) from the XM antenna (B).

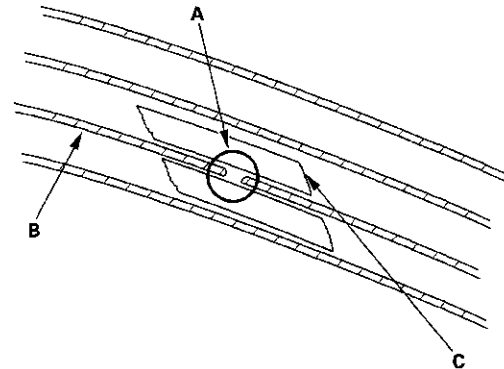


3. Disconnect the connector (C), and remove the XM antenna.
4. Install the XM antenna in the reverse order of removal.

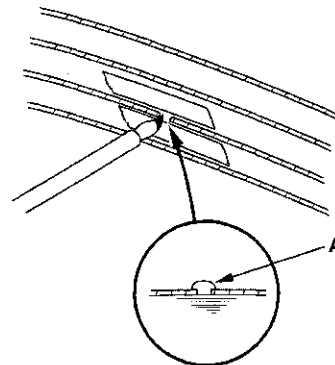
AM/FM Antenna Repair

NOTE: To make an effective repair, the broken section must not be longer than one inch.

1. Lightly rub the area around the broken section (A) with fine steel wool, then clean it with isopropyl alcohol.



2. Carefully mask above and below the broken portion of the AM/FM antenna wire (B) with cellophane tape (C).
3. Using a commercially available rear window defogger repair kit, apply a heavy coat of paint (A) extending about 1/8" on both sides of the break. Allow 30 minutes to dry.



4. Check for continuity in the repaired wire.
5. Apply a second coat of paint in the same way. Let it dry 3 hours before removing the tape.