

2007 Honda Element EX

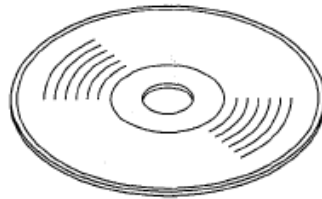
2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

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Audio - Element

SPECIAL TOOLS

Ref. No.	Tool Number	Description	Qty
①	07AAZ-SDBA100	Diagnostics CD	1
②	07AAZ-SDBA200 (ABEX-TCD-725B)	Skip Test CD	1
③	07AAZ-SDBA300 (ABEX-TCD-721)	Skip Test CD	1



①, ②, ③

Fig. 1: Identifying Special Tools

Courtesy of AMERICAN HONDA MOTOR CO., INC.

COMPONENT LOCATION INDEX

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

*1: EX and SC models
 *2: EX model
 *3: SC model

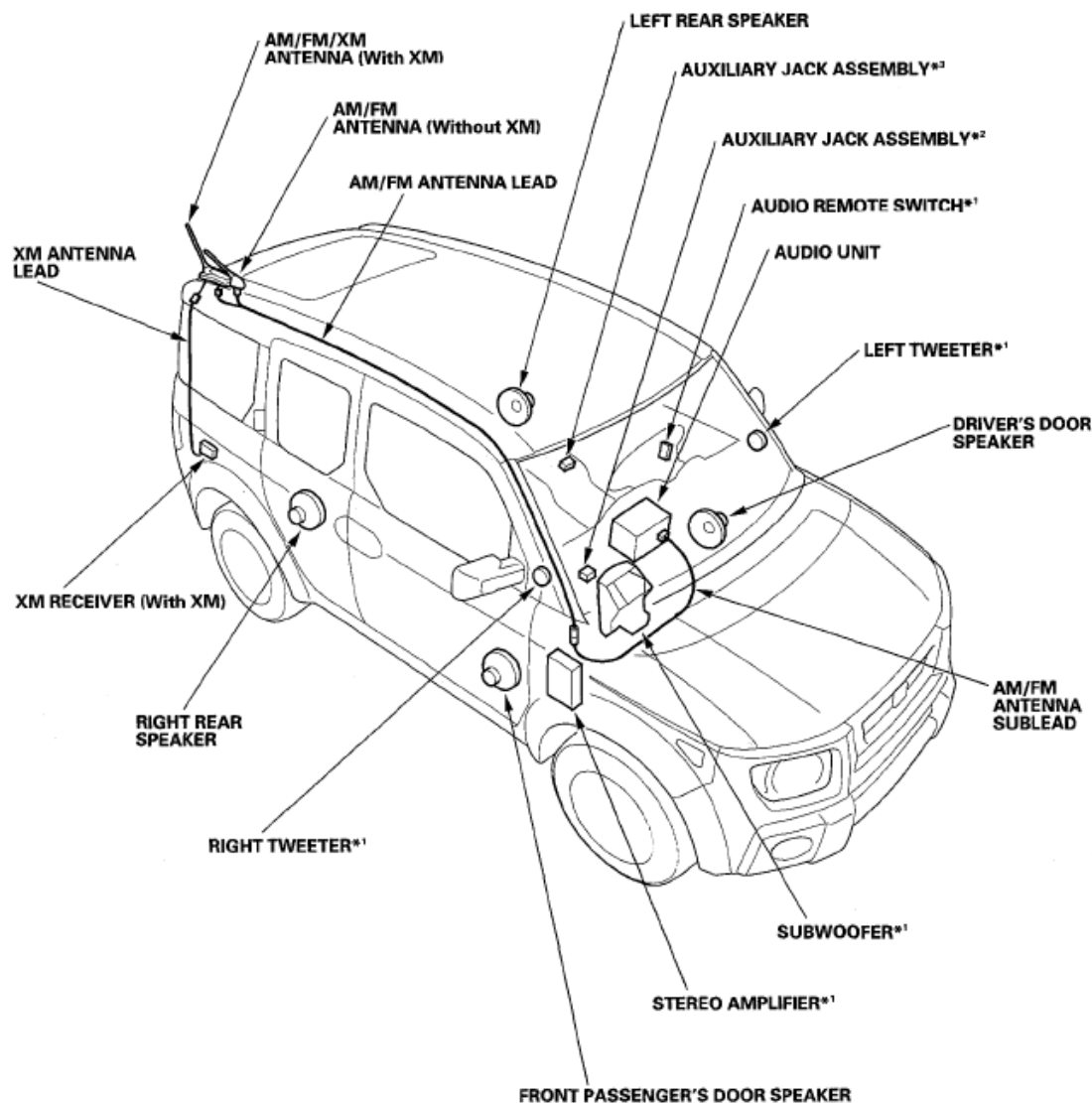


Fig. 2: Audio Component Location Index
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

SYMPTOM TROUBLESHOOTING INDEX

Symptom	Diagnostic procedure	Also check for
Poor AM or FM radio reception or interference (with XM)	Symptom Troubleshooting (see <u>POOR AM OR FM RADIO RECEPTION OR INTERFERENCE (WITH XM)</u>)	Antenna lead short or open in the wire
Poor AM or FM radio reception or interference	Symptom Troubleshooting (see <u>POOR AM OR FM RADIO RECEPTION OR</u>)	Antenna lead short or open in the wire

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

(without XM)	<u>INTERFERENCE (WITHOUT XM))</u>	
Power switch will not turn ON (No information display and no sound)	Symptom Troubleshooting (see <u>POWER SWITCH WILL NOT TURN ON (NO INFORMATION DISPLAY AND NO SOUND))</u>)	
Radio stays powered with the ignition switch OFF	Symptom Troubleshooting (see <u>RADIO STAYS POWERED WITH THE IGNITION SWITCH OFF)</u>)	
No sound is heard from speaker(s) (display is normal)	Symptom Troubleshooting (see <u>NO SOUND IS HEARD FROM SPEAKER(S) (DISPLAY IS NORMAL))</u>)	
Poor or no sound with XM radio (Audio unit does display XM channels)	Symptom Troubleshooting (see <u>POOR OR NO SOUND WITH XM RADIO (AUDIO UNIT DOES DISPLAY XM CHANNELS))</u>)	
XM radio display is blank and no station information is displayed	Symptom Troubleshooting (see <u>XM RADIO DISPLAY IS BLANK AND NO STATION INFORMATION IS DISPLAYED)</u>)	
Audio system sound is weak or distorted (display is normal)	Symptom Troubleshooting (see <u>AUDIO SYSTEM SOUND IS WEAK OR DISTORTED (DISPLAY IS NORMAL))</u>)	
Audio unit button illumination does not work	Symptom Troubleshooting (see <u>AUDIO UNIT BUTTON ILLUMINATION DOES NOT WORK)</u>)	
Radio preset memory is lost	Symptom Troubleshooting (see <u>RADIO PRESET MEMORY IS LOST)</u>)	
XM radio preset memory is lost	Symptom Troubleshooting (see <u>XM RADIO PRESET MEMORY IS LOST)</u>)	
Error code: XM NO SIGNAL or XM ANTENNA is displayed	Symptom Troubleshooting (see <u>ERROR CODE: XM NO SIGNAL OR XM ANTENNA IS DISPLAYED)</u>)	
Audio disc does not eject	Symptom Troubleshooting (see <u>AUDIO DISC DOES NOT EJECT)</u>)	
Audio disc does not load	Symptom Troubleshooting (see <u>AUDIO DISC DOES NOT LOAD)</u>)	
Radio tuner does not change stations	Symptom Troubleshooting (see <u>RADIO TUNER DOES NOT CHANGE STATIONS)</u>)	
Volume does not change	Symptom Troubleshooting (see <u>VOLUME DOES NOT CHANGE)</u>)	
Display does not dim or brighten with dimmer	Symptom Troubleshooting (see <u>DISPLAY DOES NOT DIM OR BRIGHTEN WITH DIMMER)</u>)	
Audio disc does not play	Symptom Troubleshooting (see <u>AUDIO DISC DOES NOT PLAY)</u>)	
Audio disc skips	Symptom Troubleshooting (see <u>AUDIO DISC SKIPS)</u>)	Tire pressure (over-inflated), disc smudged, dirty, or scratched

Audio remote switch does not work properly

Symptom Troubleshooting (see **AUDIO REMOTE SWITCH DOES NOT WORK PROPERLY**)

SYSTEM DESCRIPTION

OVERVIEW

The Audio Unit acts as the "processor" for all audio functions. Select audio functions from the front panel. The audio display provides the current audio status. (See the owner's manual for more details.)

The audio unit has a built-in EEPROM (electrically erasable programmable read-only memory). This memory holds the audio presets (AM/FM radio frequency, sound settings, etc.) even when the battery is disconnected.

The XM receiver passes its signal to the audio unit. In addition, it communicates with the audio unit via the GA-Net bus. Any open connections in the GA-Net bus circuit will cause audio functions to appear inoperative.

GA-NET BUS CONFIGURATION

The GA-Net bus passes audio commands throughout the audio components. These commands include hard button signals, audio/XM selections, and XM station and music title names. Because the entire bus is "daisy chained" between components (see **Fig. 3**), any open or short in the GA-Net bus harness will cause any or all of these functions to become inoperative. The addition of any audio accessory must maintain the continuity of the GA-Net bus by installing the "Y" cable included with the accessory kit.

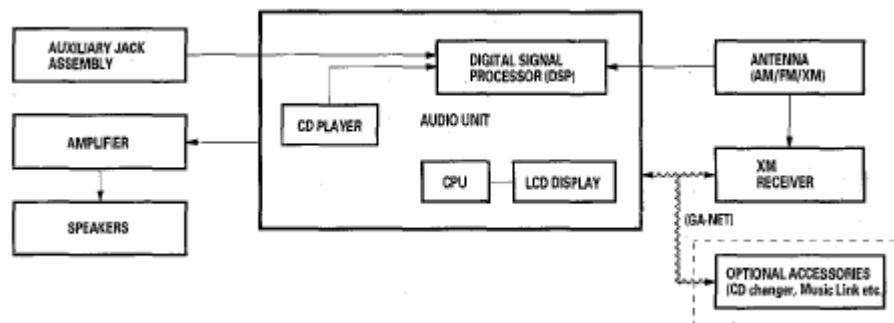


Fig. 3: GA-Net Bus Diagram

Courtesy of AMERICAN HONDA MOTOR CO., INC.

AUDIO UNIT CONNECTOR INPUTS AND OUTPUTS (LX MODEL)

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

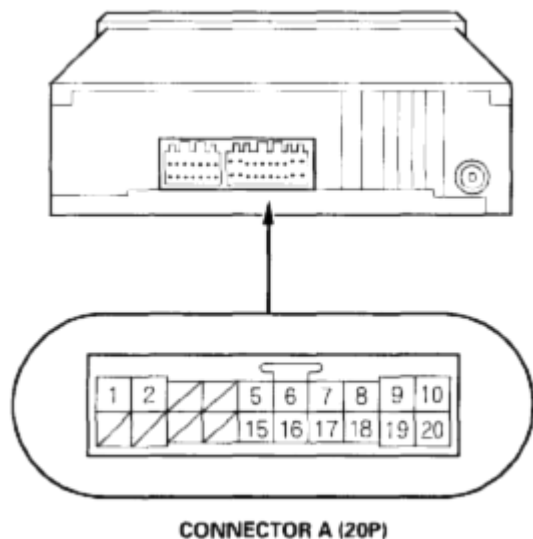


Fig. 4: Identifying Audio Unit Connector Inputs And Outputs (LX Model)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CONNECTOR REFERENCE

Cavity	Wire	Connects to
1	YEL/GRN	AM/FM antenna amplifier power supply
2	YEL/RED	ACC (Main stereo power supply)
5	PNK	Right rear speaker (+)
6	BLU/WHT	Left rear speaker (+)
7	GRN/YEL	Front passenger's door speaker (+)
8	GRN/BLK	Driver's door speaker (+)
9	RED/BLK	Lights-on signal
10	WHT/RED	Constant power
15	BLU/YEL	Right rear speaker (-)
16	BLU/BLK	Left rear speaker (-)
17	BLU/YEL	Front passenger's door speaker (-)
18	GRN	Driver's door speaker (-)
19	RED	Dash lights brightness controller
20	BLK	Ground (G503)

AUDIO UNIT CONNECTOR INPUTS AND OUTPUTS (EX AND SC MODELS)

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

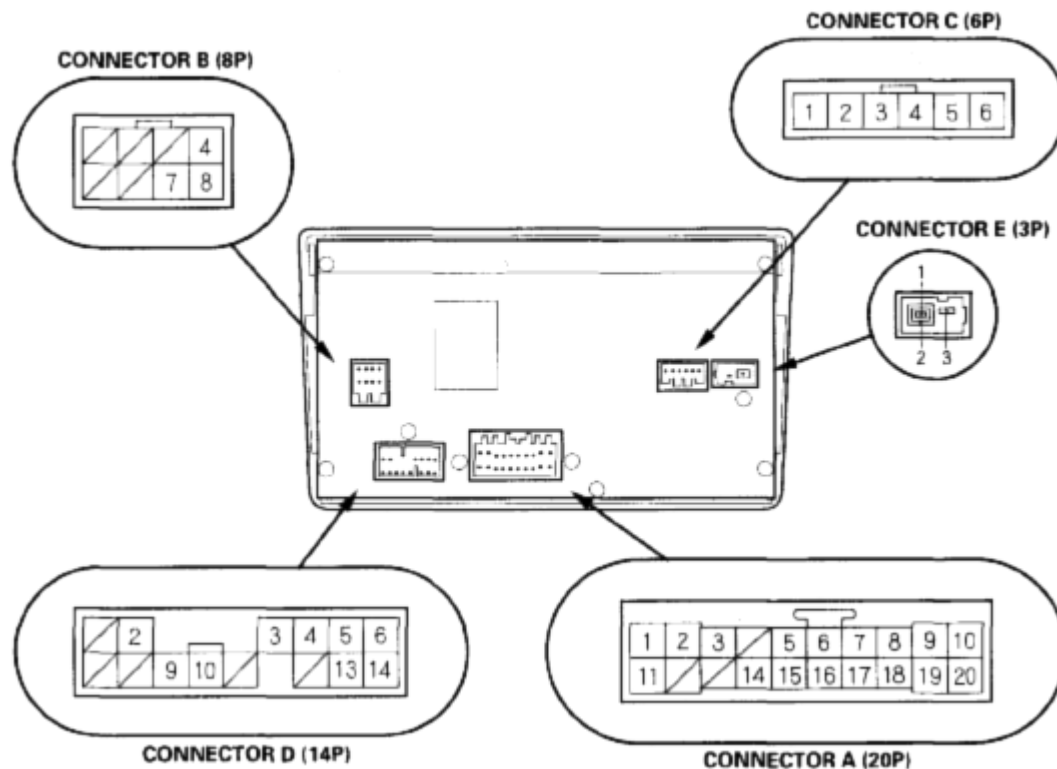


Fig. 5: Identifying Audio Unit Connector Inputs And Outputs (EX And SC Models)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CONNECTOR A (20P)

CONNECTOR REFERENCE

Cavity	Wire	Connects to
A1	YEL/GRN	AM/FM antenna amplifier/stereo amplifier switched power supply
A2	YEL/RED	ACC (Main stereo power supply)
A3	GRN/RED	Audio remote switch
A5	BLU	Stereo amplifier - right rear (+)
A6	RED	Stereo amplifier - left rear (+)
A7	YEL	Stereo amplifier - front passenger's (+)
A8	WHT	Stereo amplifier - driver's (+)
A9	RED/BLK	Lights-on signal
A10	WHT/RED	Constant power
A11	LT GRN/BLK ⁽¹⁾	Shielding
A14	BRN	Audio remote switch ground
A15	BLK	Stereo amplifier - right rear (-)
A16	GRN	Stereo amplifier - left rear (-)
A17	BRN	Stereo amplifier - front passenger's (-)
A18	ORN	Stereo amplifier - driver's (-)

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

A19	RED	Dash lights brightness controller
A20	BLK	Ground (G503)

(1) The shielded wires have a heat-shrunk 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.

CONNECTOR B (8P)**CONNECTOR REFERENCE**

Cavity	Wire	Connects to
B4	RED/BLU	Stereo amplifier
B7	PNK/BLK ⁽¹⁾	Shielding
B8	RED/WHT	Stereo amplifier

(1) The shielded wires have a heat-shrunk 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.

CONNECTOR C (6P)**CONNECTOR REFERENCE**

Cavity	Wire	Connects to
C1	YEL	Auxiliary jack (AUX-DET)
C2	BLU	Auxiliary jack (AUX-GND)
C3	BRN	Auxiliary jack (AUX-RCH)
C4	GRN	Auxiliary jack (AUX-S-GND)
C5	WHT	Auxiliary jack (AUX-LCH)
C6	LT GRN/RED ⁽¹⁾	Shielding

(1) The shielded wires have a heat-shrunk 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.

CONNECTOR D (14P) (With XM)**CONNECTOR REFERENCE**

Cavity	Wire	Connects to
D2	ORN	XM receiver (ACC)
D3	BRN ⁽¹⁾	Shielding (GA-NET)
D4	GRY ⁽¹⁾	Shielding
D5	WHT	XM receiver (R+)
D6	RED	XM receiver (L+)
D9	BLU	XM receiver (BUS+ (GA-NET))

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

D10	PNK	XM receiver (BUS- (GA-NET))
D13	BLU	XM receiver (R-)
D14	GRN	XM receiver (L-)

(1) The shielded wires have a heat-shrunk 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.

CONNECTOR E (3P)

CONNECTOR REFERENCE

Cavity	Wire	Connects to
E1	--	AM/FM/XM [AM/FM] antenna (ANT-IN)
E2	--	AM/FM/XM [AM/FM] antenna (ANT-GND)
E3	--	AM/FM/XM antenna (ANT SW+B)

: Without XM

STEREO AMPLIFIER CONNECTOR INPUTS AND OUTPUTS (EX AND SC MODELS)

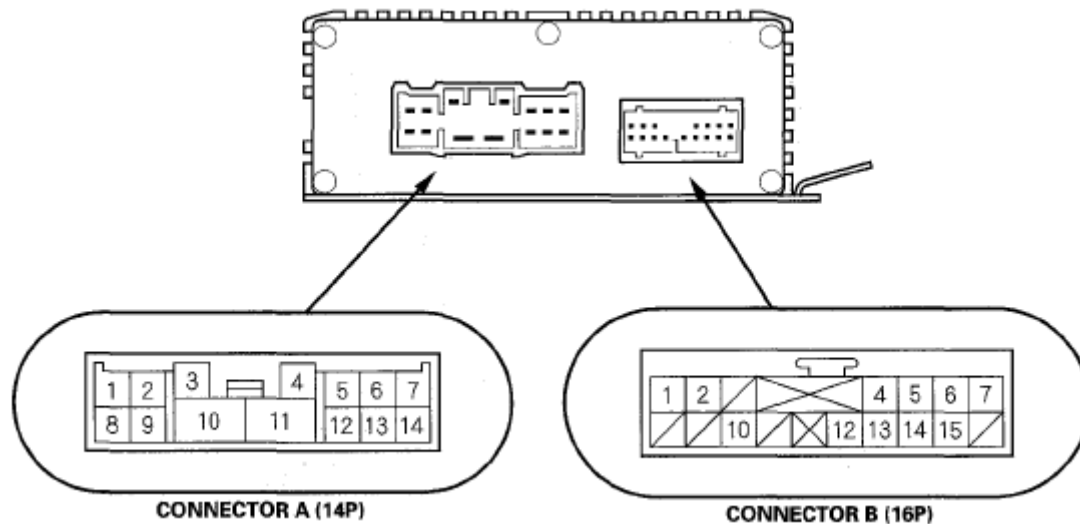


Fig. 6: Identifying Stereo Amplifier Connector Inputs And Outputs (EX And SC Models)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CONNECTOR A (14P)

CONNECTOR REFERENCE

Cavity	Wire	Connects to	Cavity	Wire	Connects to
A1	BLU	Subwoofer 2 output (+)	A8	GRY/BLK	Subwoofer 2 output (-)
A2	BRN	Subwoofer 1 output (+)	A9	RED	Subwoofer 1 output (-)

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

A3	BLU/BLK	Left rear door speaker (-)	A10	BLK	GND (G503)
A4	BLU/WHT	Left rear door speaker (+)	A11	BLU/ORN	Constant power
A5	PNK	Right rear door speaker (+)	A12	BLU/YEL	Right rear door speaker (-)
A6	GRN/BLK	Driver's door speaker (+)	A13	GRN	Driver's door speaker (-)
A7	GRN/YEL	Front passenger's door speaker(+)	A14	BLU/YEL	Front passenger's door speaker(-)

CONNECTOR B (16P)

CONNECTOR REFERENCE

Cavity	Wire	Connects to	Cavity	Wire	Connects to
B1	YEL/GRN	AM/FM antenna amplifier/stereo amplifier switched power supply	B10	RED/WHT	Subwoofer (-)
B2	RED/BLU	Subwoofer (+)	B12	GRN	Audio unit-left rear (-)
B4	RED	Audio unit-left rear (+)	B13	BLK	Audio unit-right rear (-)
B5	BLU	Audio unit-right rear (+)	B14	ORN	Audio unit-driver's (-)
B6	WHT	Audio unit-driver's (+)	B15	BRN	Audio unit-front passenger's(-)
B7	YEL	Audio unit-front passenger's(+)			

XM RECEIVER CONNECTOR INPUTS AND OUTPUTS (WITH XM RADIO)

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

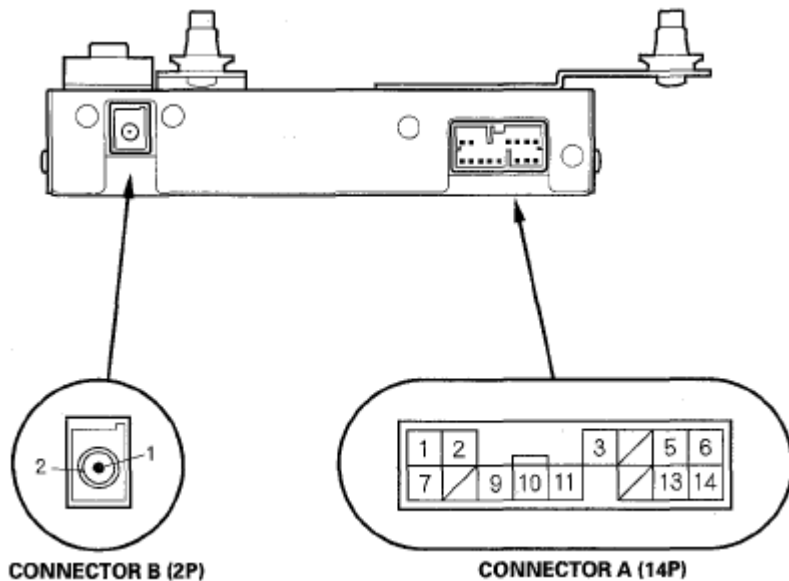


Fig. 7: Identifying XM Receiver Connector Inputs And Outputs (With XM Radio)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CONNECTOR A (14P)

CONNECTOR REFERENCE

Cavity	Wire	Connects to
A1	WHT/RED	Constant power
A2	ORN	Audio unit (ACC)
A3	BRN ⁽¹⁾	Shielding (GA-NET)
A5	WHT	Audio unit (R+)
A6	RED	Audio unit (L+)
A7	WHT/RED	Constant power
A9	BLU	Audio unit (BUS+)
A10	PNK	Audio unit (BUS-)
A11	BLK	Ground (G551)
A13	BLK	Audio unit (R-)
A14	GRN	Audio unit (L-)

(1) The shielded wires have a heat-shrunk 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.

CONNECTOR B (2P)

CONNECTOR REFERENCE

Cavity	Wire	Connects to
B1	--	AM/FM/XM antenna (ANT-IN)

B2 -- AM/FM/XM antenna (ANT-GND)

AUXILIARY JACK CONNECTOR INPUTS AND OUTPUTS (EX AND SC MODELS)

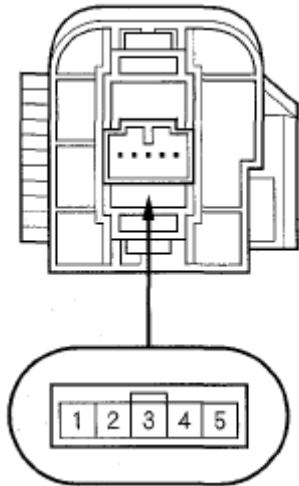


Fig. 8: Identifying Auxiliary Jack Connector Inputs And Outputs (EX And SC Models)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CONNECTOR REFERENCE

Cavity	Wire	Connects to
1	YEL	Audio unit (AUX-DET)
2	BLU	Audio unit (AUX-GND)
3	GRN	Audio unit (S-GND)
4	WHT	Audio unit (AUX-LCH)
5	BRN	Audio unit (AUX-RCH)

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

Audio Glossary

AUDIO GLOSSARY

Item	Definition
Active Noise Control	The active noise control 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.
AM (Amplitude Modulation)	The type of transmission used in the standard radio broadcast band from 530 to 1,705 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.
	A type of card that has been tested for use in playing WMA, and MP3 music files

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

ATA (PC Card)	in the PC card slot. Sizes of up to 1 GB have been tested.
Auxiliary jack	Allows the customer to use a portable audio device to input music recordings.
Audio Remote switch	The switches on the steering wheel that control the audio system.
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.
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. Customers can insert it for recording or 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 has 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 car, 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 CD's stacked in a container).
CD player	A component designed to play compact disc CD recording using a laser optical pickup. The signal from a CD player usually requires amplification.
Distortion	Inexact reproduction of an audio signal caused by playing music at levels the audio system cannot handle.
Dolby (noise reduction)	A processing system developed by Dolby Laboratories that reduces the background noise on recording media. The result is a clearer playback from the audio system.
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.
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 performed 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 modulation used for radio and television sound transmission in most of the world. Less prone to interference than AM. The FM broad cast band covers roughly 87 to 108 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, components or the entire audio and navigation system may appear inoperative.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

GB (Gigabyte)	A unit of memory or disk 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 card 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 task/calculations. In the audio unit the processor handles muting to allow the navi to speak 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.
SCF (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.
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).
Stereo	A recording of at least two channels where you can hear sound or music from the left or right side.
Speed-sensitive	

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

Volume Compensation (SVC)	The SVC increases the audio volume to compensate for increased interior noise when the vehicle drives at freeway speeds.
Subwoofer	A loudspeaker made to reproduce the lowest audio frequencies, approx 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.
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 this vibration 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.
Woofers	A speaker that is designed to reproduce 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.

CIRCUIT DIAGRAM

LX model

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

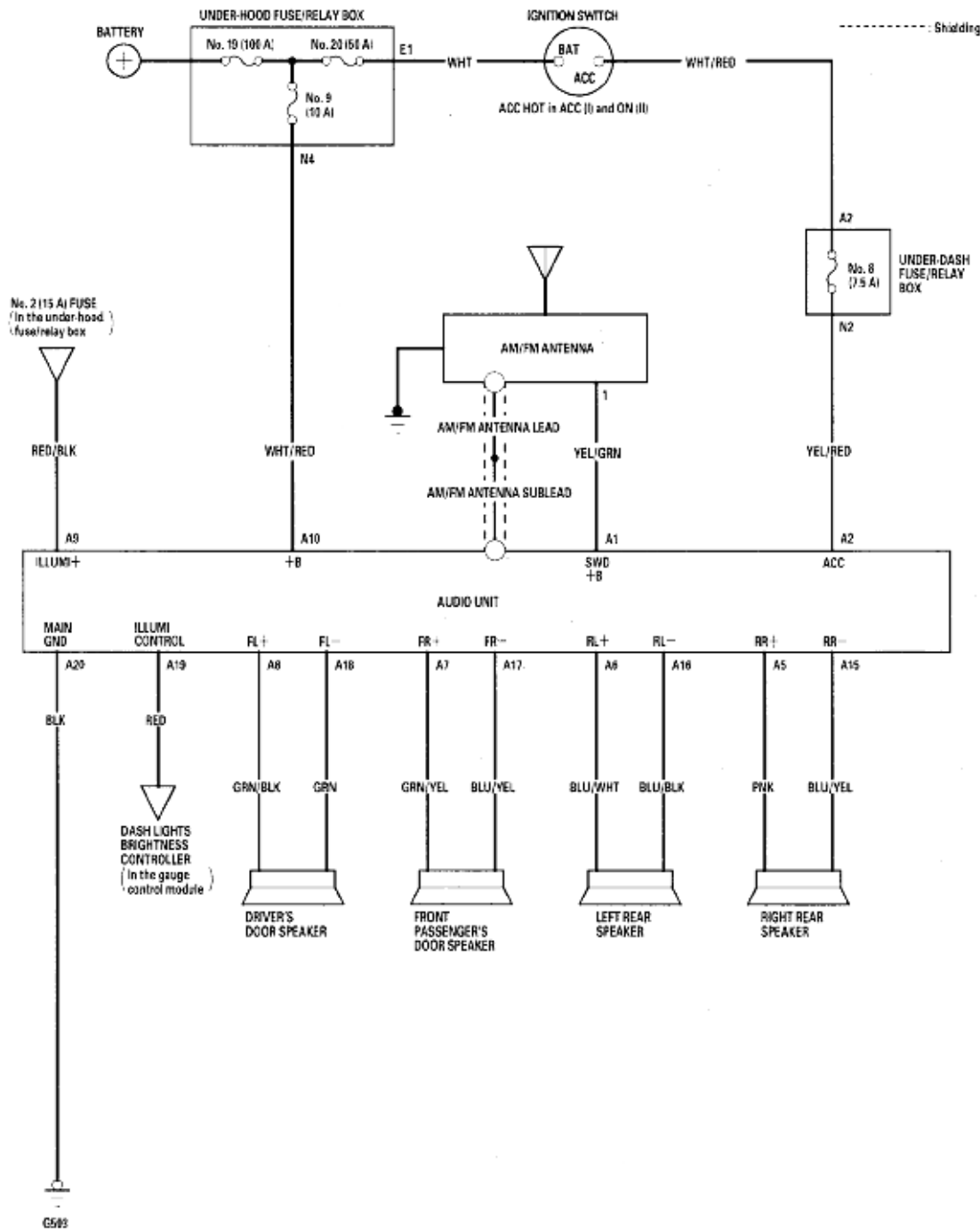


Fig. 9: Audio System Circuit Diagram - LX Model
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

EX and SC models with XM

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

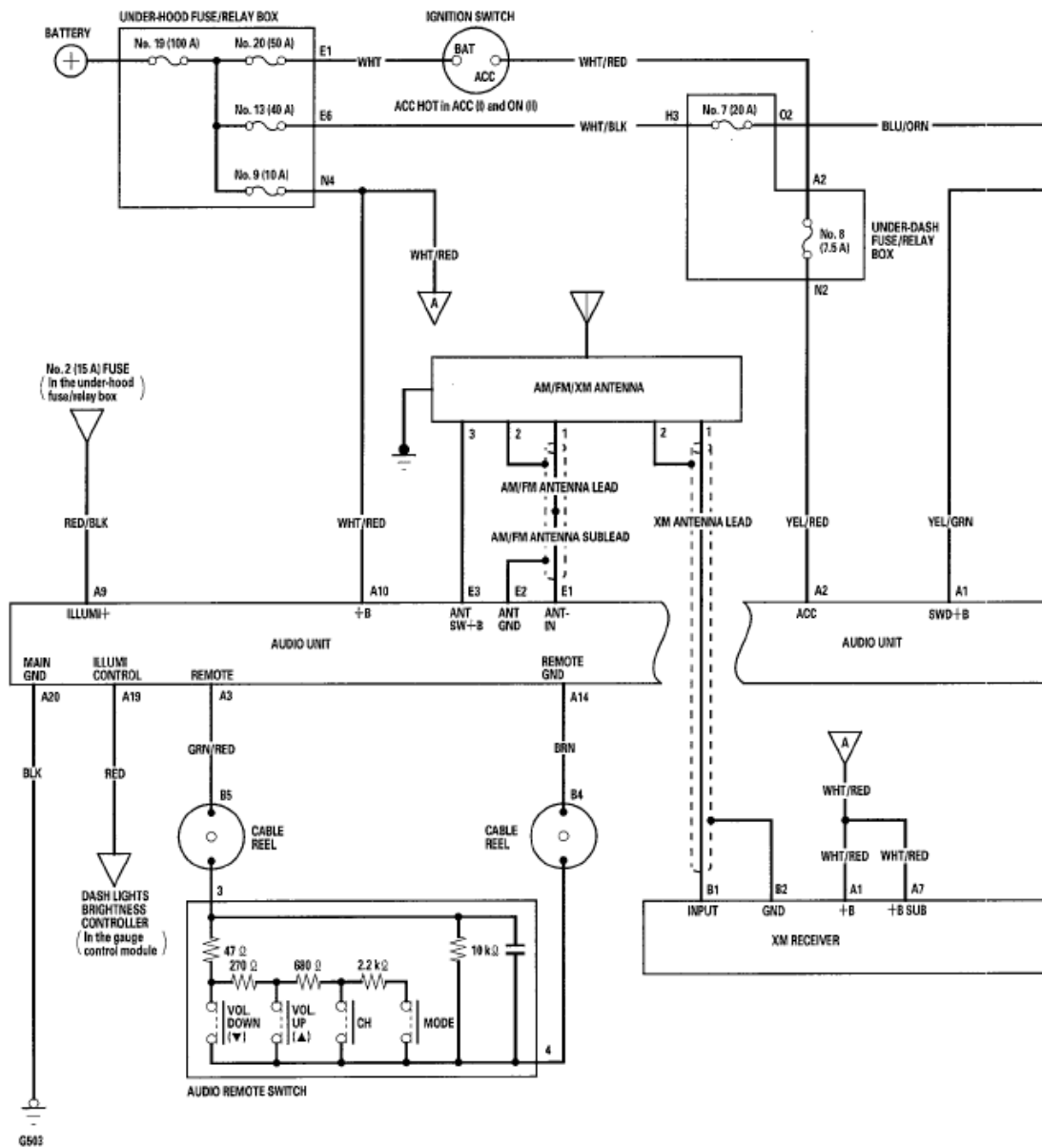


Fig. 10: Audio System Circuit Diagram - EX And SC Models With XM (1 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

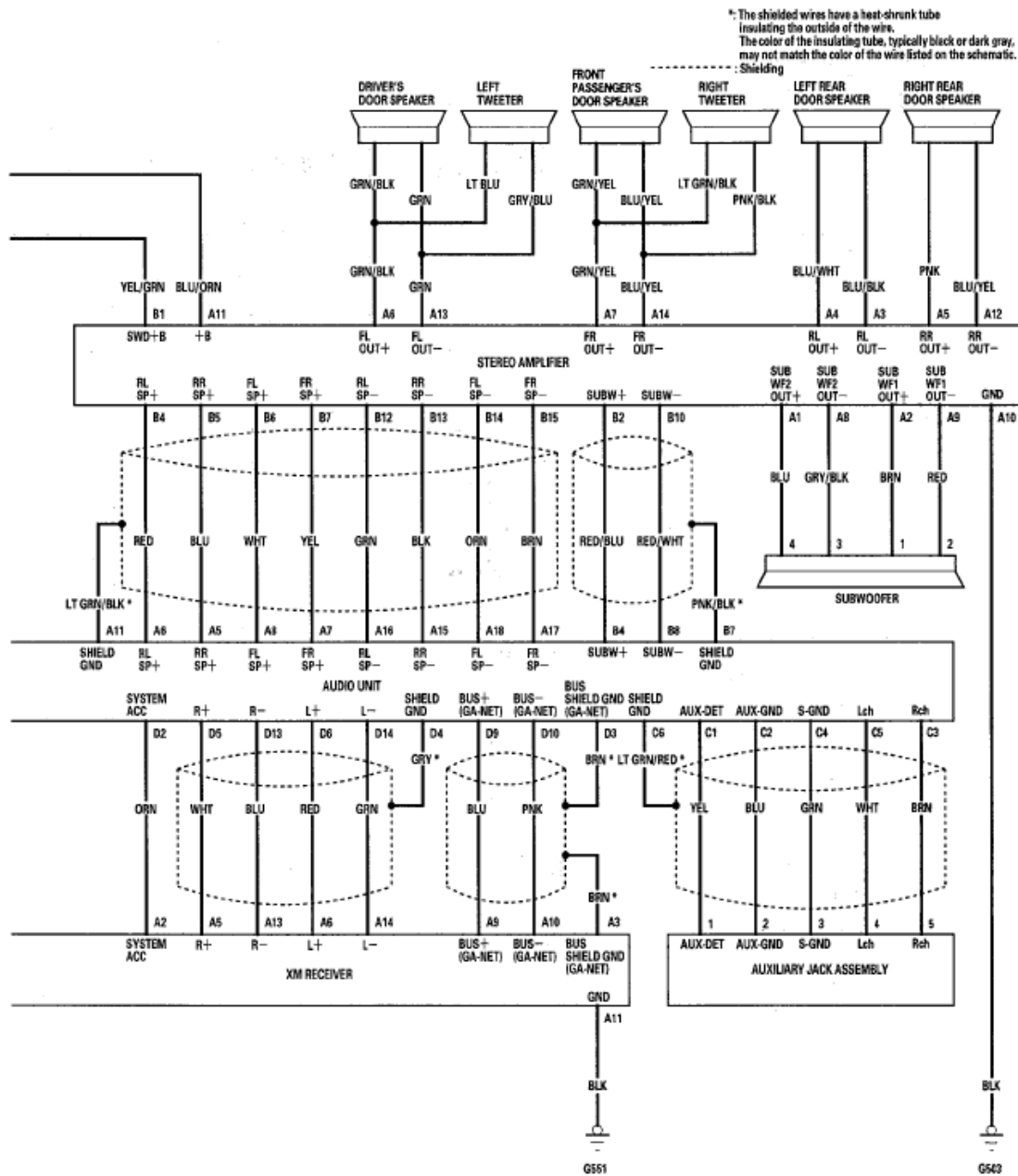


Fig. 11: Audio System Circuit Diagram - EX And SC Models With XM (2 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

EX and SC models without XM

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

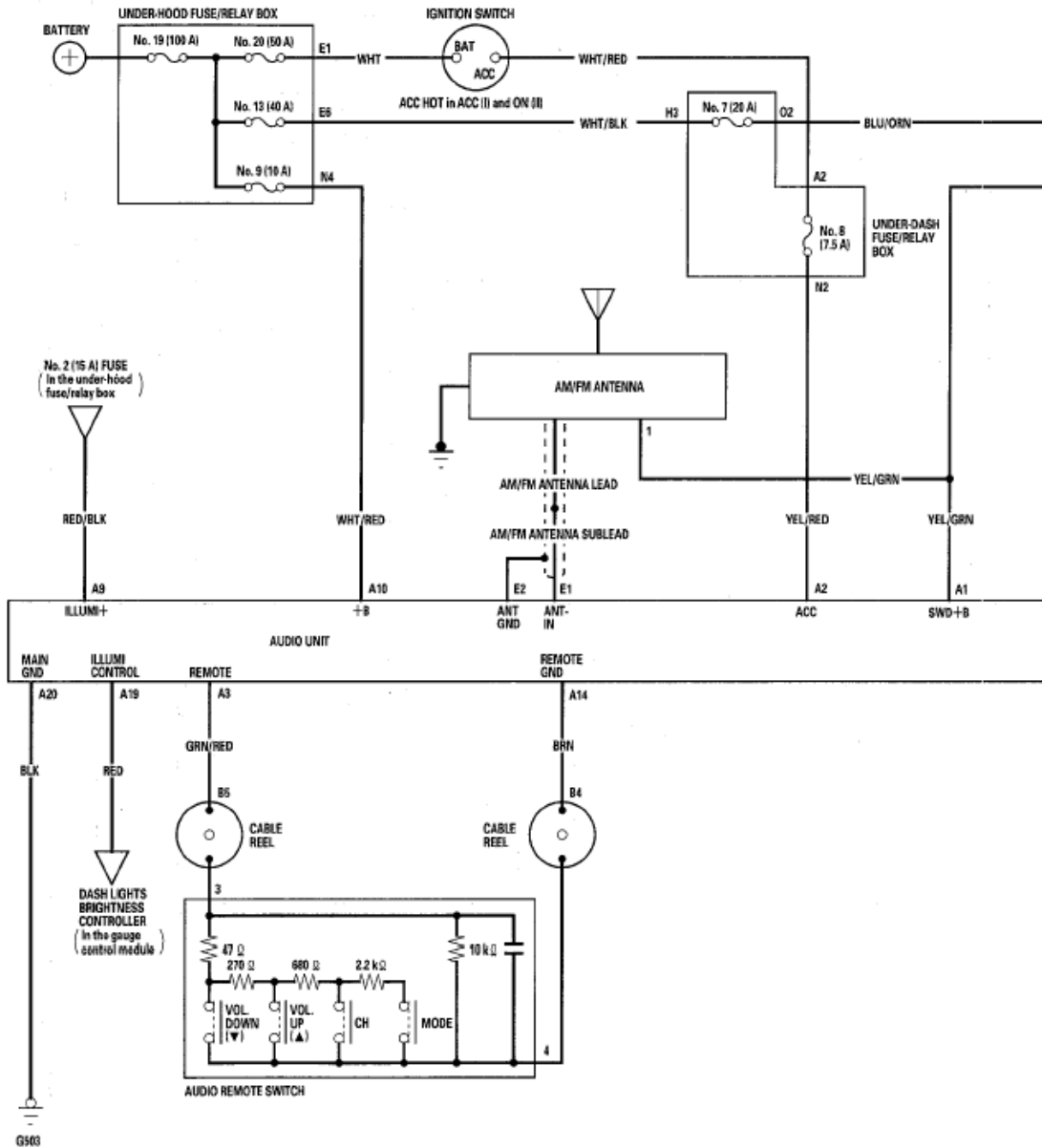


Fig. 12: Audio System Circuit Diagram - EX And SC Models Without XM (1 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

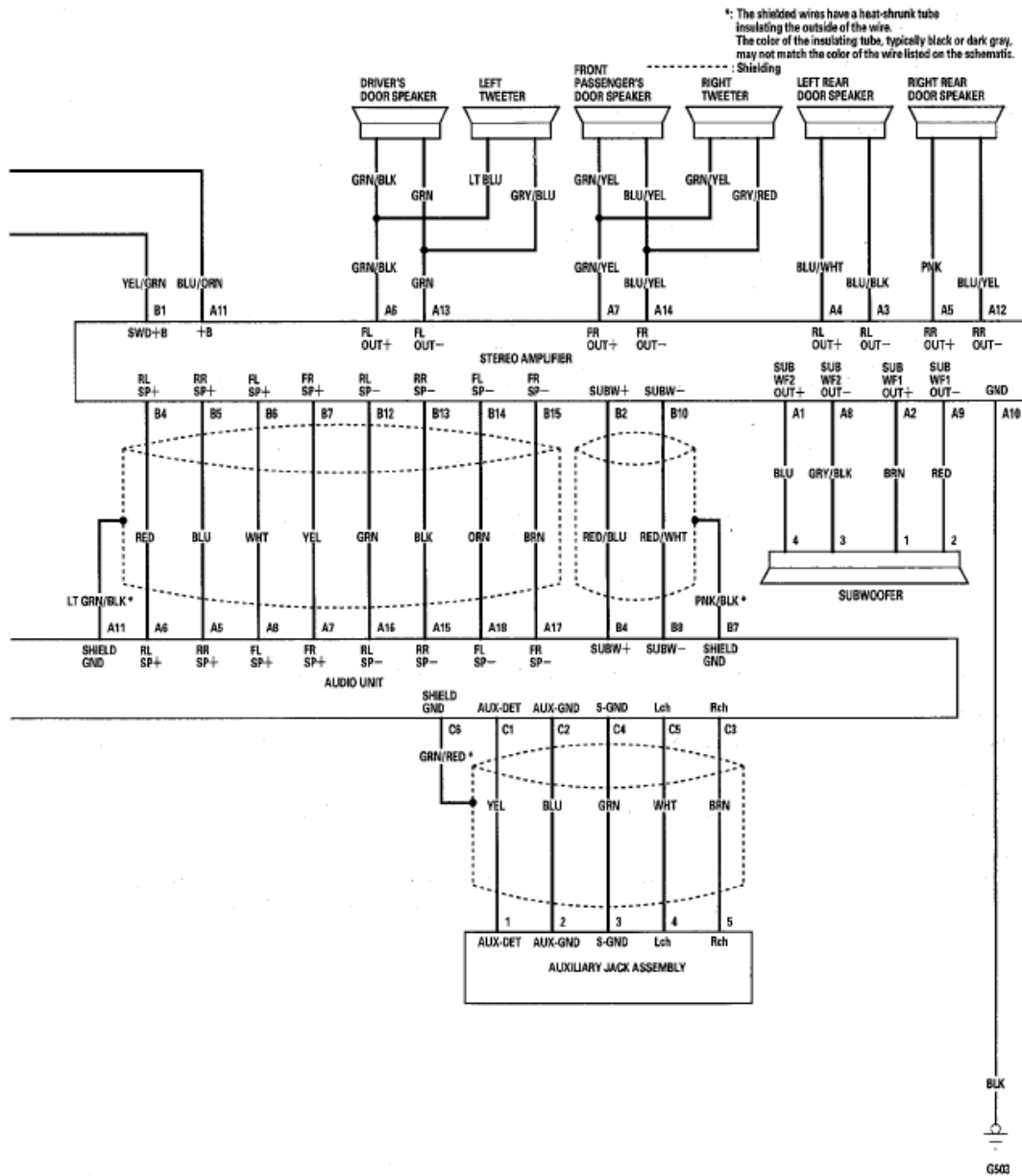


Fig. 13: Audio System Circuit Diagram - EX And SC Models Without XM (2 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

SELF-DIAGNOSTIC FUNCTION

The audio system has a self-diagnostic function.

HOW TO CHECK FOR AUDIO SYSTEM CONDITION

1. Turn the ignition switch to the ACC (I) or ON (II).
2. 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.

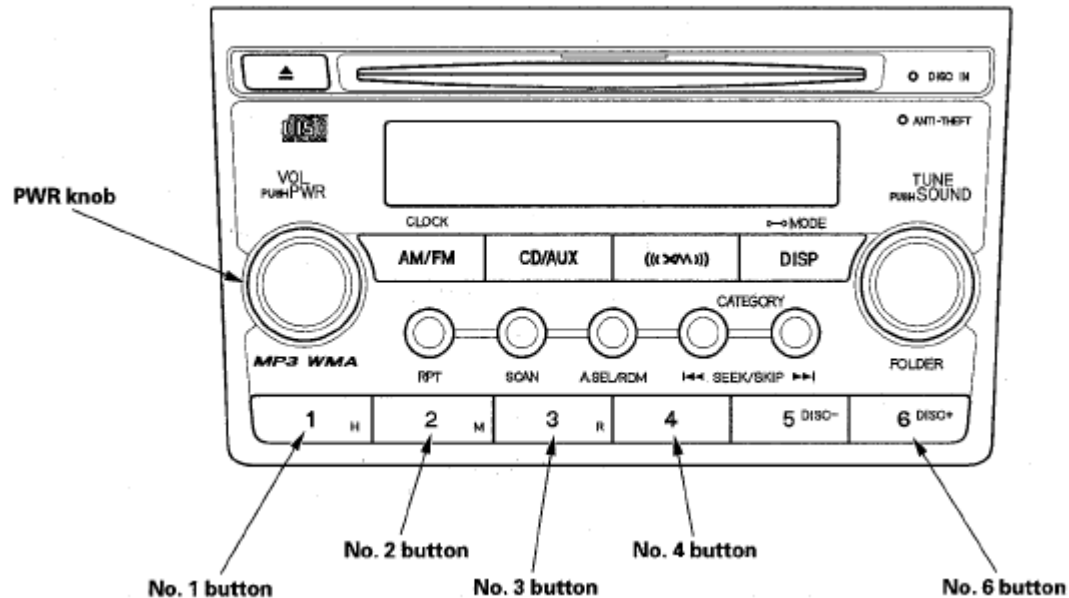


Fig. 14: Identifying Audio System Buttons

Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. By pressing a preset button, the input will trigger the diagnostic mode that is assigned to that preset switch.

"No. 2" button

Entire LCD lighting/light-out mode: Turns on/off the entire LCD to show the presence or absence of an LCD failure.

"No. 3" button

Duty (for the Illumination dim) indication mode: Indicates the duty for the Illumination dim.

"No. 4" button

Display I2C-BUS communication verification status: Displays the verification of the communication among the display, the EPROM, and the tuner (toggles between "DSP", "EEP" and "TNR" every 5 seconds).

Display Specifications

NOTE: Any other diagnostic screens shown are for the audio manufactures use only.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

CD Error Codes

CD ERROR CODES

Error Code Displayed	Possible Cause	Solution
BAD DISC > PLEASE CHECK > OWNERS MANUAL > PUSH EJECT	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.
CD HEAT ERROR	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.

XM Error Codes

XM ERROR CODES

Error Code Displayed	Possible Cause	Solution
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 an information update from the network.	This message will disappear once the update finishes.
XM ANTENNA	XM antenna error.	Repair open or short in the satellite antenna. Substitute the XM antenna with a known-good one, and recheck. If the error is gone, replace the original XM antenna. 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 at (800) 852-9696.

Audio Unit Error Codes

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. 9 (10 A) in the under-hood 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 (WITH XM)

NOTE:

- Check the vehicle battery condition first.
- Check the radio reception in an open area. Poor reception/interference can be caused by the following:
 - The radio station is far away.
 - A tall building, a mountain, or a high-voltage power line is nearby.
 - Aftermarket window tint.

1. Turn the ignition switch ON (II).
2. Do the seek stop test (see **SEEK STOP TEST**).

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 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 OFF.
6. Check the AM/FM/XM antenna mast for cracks, or other damage. Make sure that the AM/FM/XM antenna mast isn't loose.

NOTE: Do not use any tools to tighten the AM/FM/XM antenna mast.

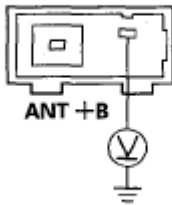
Is there any damage?

YES -Replace the AM/FM/XM antenna mast (see AM/FM ANTENNA REPLACEMENT).

NO -Go to step 7.

7. Disconnect the AM/FM/XM antenna 3P connector from the AM/FM/XM antenna.
8. Turn the ignition switch ON (II).
9. Turn on the audio unit and select AM or FM.
10. Measure the voltage between AM/FM/XM antenna 3P connector No. 3 terminal and body ground.

AM/FM/XM ANTENNA CONNECTOR (3P)



Terminal side of male terminals

Fig. 17: Measuring Voltage Between AM/FM/XM Antenna 3P Connector No. 3 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 15.

NO -Go to step 11.

11. Turn the ignition switch OFF.
12. Remove the audio unit (see AUDIO UNIT REMOVAL/INSTALLATION), and disconnect audio unit connector E (3P).

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

13. Check for continuity between audio unit connector E (3P) No. 3 terminal and the AM/FM/XM antenna 3P connector No. 3 terminal.

AUDIO UNIT CONNECTOR E (3P)
Terminal side of female terminals

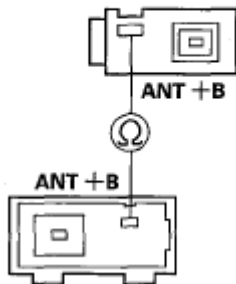


Fig. 18: Checking Continuity Between Audio Unit Connector E (3P) No. 3 Terminal And AM/FM/XM Antenna 3P Connector No. 3 Terminal
Courtesy of AMERICAN HONDA MOTOR CO., INC.

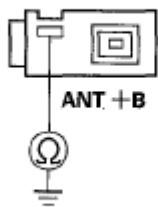
Is there continuity?

YES -Go to step 14.

NO -Repair open in the wire between the audio unit and the AM/FM/XM antenna. Also check the AM/FM antenna lead/sub lead connector.

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

AUDIO UNIT CONNECTOR E (3P)



Terminal side of female terminals

Fig. 19: Checking Continuity Between Audio Unit Connector E (3P) Terminal No. 3 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Repair short to body ground in the wire between the audio unit and AM/FM/XM antenna.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

15. Turn the ignition switch OFF.
16. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit

connector E (3P).

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

17. Check for continuity between audio unit connector E (3P) No. 1 terminal and the AM/FM/XM antenna 3P connector No. 1 terminal.

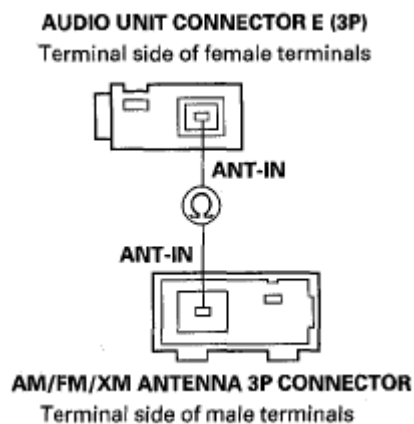


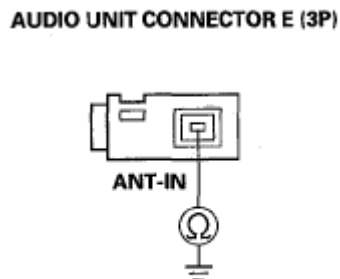
Fig. 20: Checking Continuity Between Audio Unit Connector E (3P) No. 1 Terminal And AM/FM/XM Antenna 3P Connector No. 1 Terminal
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Go to step 18.

NO -Replace the AM/FM antenna lead and/or sublead.

18. Check for continuity between the audio unit connector E (3P) terminal No. 1 and body ground.



Terminal side of female terminals

Fig. 21: Checking Continuity Between Audio Unit Connector E (3P) Terminal No. 1 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Replace the AM/FM antenna lead and/or sublead.

NO -Go to step 19.

19. Check for continuity between the audio unit connector E (3P) terminal No. 2 and the AM/FM/XM antenna 3P connector No. 2 terminal.

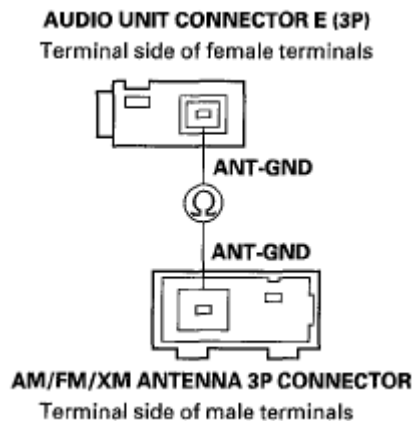


Fig. 22: Checking Continuity Between Audio Unit Connector E (3P) Terminal No. 2 And AM/FM/XM Antenna 3P Connector No. 2 Terminal
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Go to step 20.

NO -Replace the AM/FM antenna lead and/or sublead.

20. Check for continuity between the audio unit connector E (3P) terminal No. 1 and No. 2.

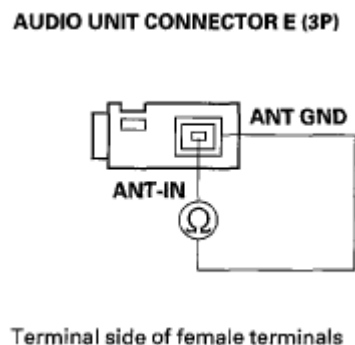


Fig. 23: Checking Continuity Between Audio Unit Connector E (3P) Terminal No. 1 And 2
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

Is there continuity?

YES -Replace the AM/FM antenna lead and/or sublead.

NO -Go to step 21.

21. Substitute a known-good AM/FM antenna lead and/or sublead, and check the radio reception.

Is the reception normal?

YES -Replace the AM/FM antenna lead and/or sublead.

NO -Substitute a known-good AM/FM/XM antenna and recheck. If the reception is still poor, replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

POOR AM OR FM RADIO RECEPTION OR INTERFERENCE (WITHOUT XM)

NOTE:

- **Check the vehicle battery condition first.**
- **Check the radio reception in an open area. Poor reception/interference can be caused by the following:**
 - **The radio station is far away.**
 - **A tall building, a mountain, or a high-voltage power line is nearby.**
 - **Aftermarket window tint.**

1. Turn the ignition switch ON (II).
2. Do the seek stop test (see **SEEK STOP TEST**).

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 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 OFF.
6. Check the AM/FM antenna mast for cracks, or other damage. Make sure that the AM/FM antenna mast isn't loose.

NOTE: Do not use any tools to tighten the AM/FM antenna mast.

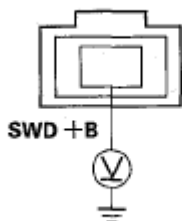
Is there any damage?

YES -Replace the AM/FM antenna mast (see AM/FM ANTENNA REPLACEMENT).

NO -Go to step 6.

7. Disconnect the AM/FM antenna 1P connector from the AM/FM antenna.
8. Turn the ignition switch ON (II).
9. Turn on the audio unit and select AM or FM.
10. Measure the voltage between AM/FM antenna 1P connector terminal and body ground.

AM/FM ANTENNA 1P CONNECTOR



Terminal side of male terminals

Fig. 24: Measuring Voltage Between AM/FM Antenna 1P Connector Terminal And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 15.

NO -Go to step 11.

11. Turn the ignition switch OFF.
12. Remove the audio unit (see AUDIO UNIT REMOVAL/INSTALLATION), and disconnect audio unit connector A(20P).

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

13. Check for continuity between audio unit connector A(20P) No. 1 terminal and the AM/FM antenna 1P connector terminal.

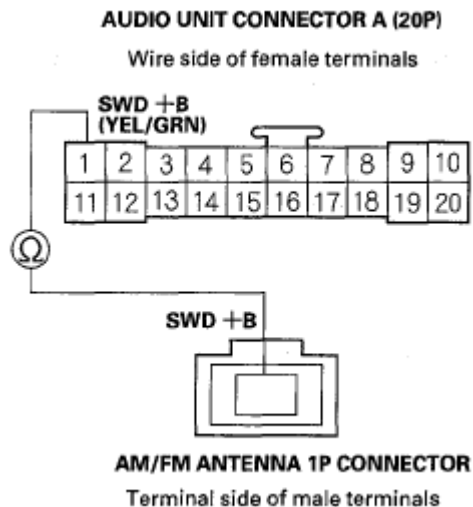


Fig. 25: Checking Continuity Between Audio Unit Connector A(20P) No. 1 Terminal And AM/FM Antenna 1P Connector Terminal

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Go to step 14.

NO -Repair open in the wire between the audio unit and the AM/FM antenna. Also check the AM/FM antenna lead/sublead connector.

14. Check for continuity between the audio unit connector A (20P) terminal No. 1 and body ground.

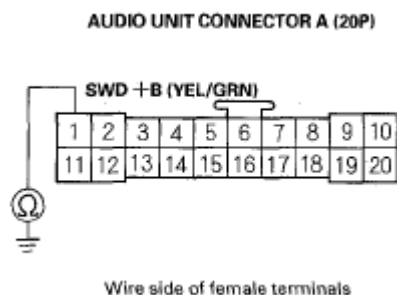


Fig. 26: Checking Continuity Between Audio Unit Connector A (20P) Terminal No. 1 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Repair short to body ground in the wire between the audio unit and AM/FM antenna.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

15. Turn the ignition switch OFF.
16. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect AM/FM antenna sublead from the audio unit.

NOTE: **Eject all the CDs before remove the audio unit to prevent damaging the CD player's load mechanism.**

17. Check for continuity between the AM/FM antenna sublead center pin at the audio unit side and the AM/FM antenna lead center pin at the AM/FM antenna side.

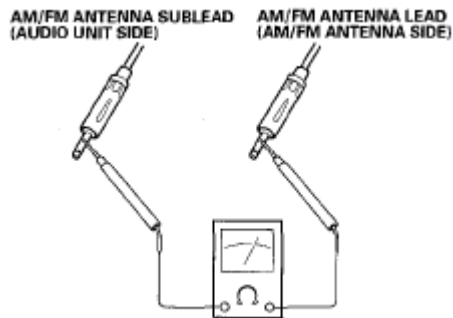


Fig. 27: Checking Continuity Between AM/FM Antenna Sublead Center Pin And AM/FM Antenna Lead Center Pin

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Go to step 18.

NO -Replace the AM/FM antenna lead and/or sublead.

18. Check for continuity between the AM/FM antenna sublead shield surface of the audio unit side and the AM/FM antenna lead shield surface of the AM/FM antenna side.

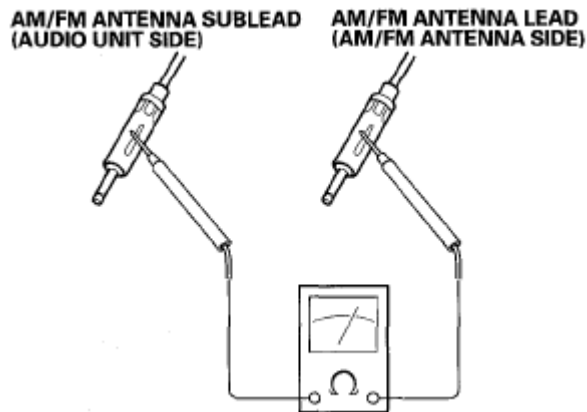


Fig. 28: Checking Continuity Between AM/FM Antenna Sublead Shield Surface And AM/FM Antenna Lead Shield Surface

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Go to step 19.

NO -Replace the AM/FM antenna lead and/or sublead.

19. Check for continuity between the AM/FM antenna sublead center pin at the audio unit side and the body ground.

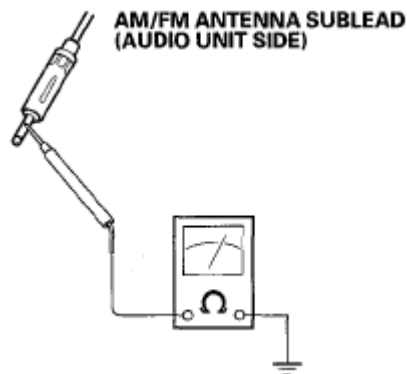


Fig. 29: Checking Continuity Between AM/FM Antenna Sublead Center Pin At Audio Unit Side And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Replace the AM/FM antenna lead and/or sublead.

NO -Go to step 20.

20. Check for continuity between the AM/FM antenna sublead center pin and the shield surface of the audio unit side.

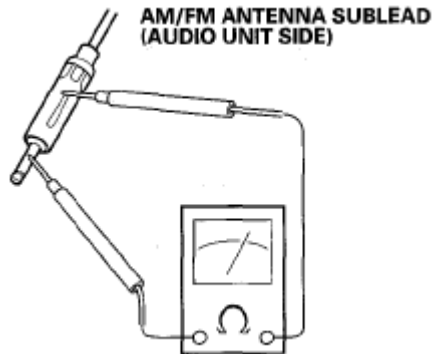


Fig. 30: Checking Continuity Between AM/FM Antenna Sublead Center Pin And Shield Surface Of Audio Unit Side

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Replace the AM/FM antenna lead and/or sublead.

NO -Go to step 21.

21. Substitute a known-good AM/FM antenna lead and/or sublead, and check the radio operation.

Is the reception normal?

YES -Replace the AM/FM antenna lead and/or sublead.

NO -Substitute a known-good audio unit and recheck. If the reception is still poor, replace the AM/FM antenna (see **AM/FM ANTENNA REPLACEMENT**).

POWER SWITCH WILL NOT TURN ON (NO INFORMATION DISPLAY AND NO SOUND)

NOTE: Check the vehicle battery condition first.

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

Does the audio unit operate and sound properly?

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

NO -Go to step 3.

3. Turn the ignition switch OFF.
4. Check the No. 9 (10 A) fuse in the under-hood fuse/relay box and No. 8 (7.5 A) fuse in the under-dash fuse/relay box.

Are the fuses OK?

YES -Go to step 5.

NO -Replace the fuse(s), and recheck.

5. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**). Check that the audio unit is properly connected.

NOTE: **Eject all the CDs before remove the audio unit to prevent damaging the CD player's load mechanism.**

Is it connected properly?

YES -Go to step 6.

NO -Reconnect the connector, and recheck the function.

6. Disconnect audio unit connector A (20P).
7. Turn the ignition switch ON (II).
8. Measure the voltage between audio unit connector A (20P) terminal No. 2 and body ground, and between terminal No. 10 and body ground.

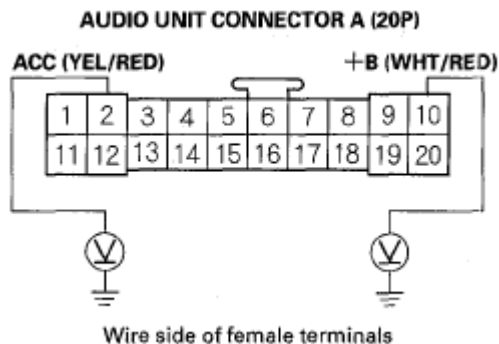


Fig. 31: Measuring Voltage Between Audio Unit Connector A (20P) Terminal No. 2 And Body Ground, And Between Terminal No. 10 And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

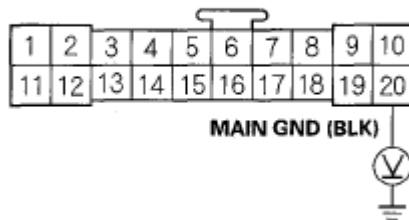
Is there battery voltage on the both terminals?

YES -Go to step 9.

NO -Repair open in the wire(s) between the No. 9 (10 A) fuse in the under-hood fuse/relay box and No. 8 (7.5 A) in the under-dash fuse/relay box and the audio unit.

9. Turn the ignition switch OFF.
10. Reconnect audio unit connector A (20P).
11. Measure the voltage between audio unit connector A (20P) No. 20 terminal and body ground.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Fig. 32: Measuring Voltage Between Audio Unit Connector A (20P) No. 20 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there less than 0.1 V?

YES -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

NO -Repair open in the wire between audio unit connector A (20P) No. 20 terminal and body ground (G503) (see **DASHBOARD WIRE HARNESS A (RIGHT BRANCH)**).

RADIO STAYS POWERED WITH THE IGNITION SWITCH OFF

NOTE: Always check for aftermarket accessories plugged into the vehicle's accessory power sockets.

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

Is the audio unit OFF?

YES -Operation is normal.

NO -Go to step 3.

3. Turn the ignition switch OFF.
4. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector A (20P).

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

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

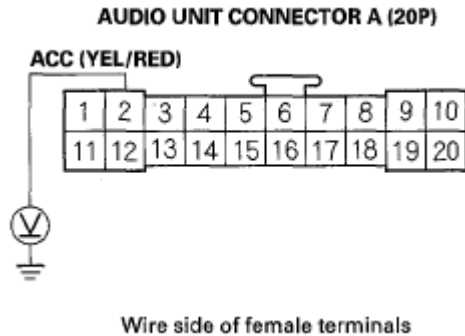


Fig. 33: Measuring Voltage Between Audio Unit Connector A (20P) Terminal No. 2 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Check for short to power on YEL/RED wire.

NO -Replace the audio unit (see AUDIO UNIT REMOVAL/INSTALLATION).

NO SOUND IS HEARD FROM SPEAKER(S) (DISPLAY IS NORMAL)

NOTE:

- Check the vehicle battery condition first.
- Set the fader and balance positions to the center.
- Before performing symptom troubleshooting, do the power switch will not turn ON troubleshooting (see POWER SWITCH WILL NOT TURN ON (NO INFORMATION DISPLAY AND NO SOUND)).
- For vehicles with factory installed audio unit, do the individual speaker test (see INDIVIDUAL SPEAKER TEST) to help isolate the speaker.

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

Is it at MIN level?

YES -Raise the volume level, and recheck the function.

NO -Go to step 3.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

3. Check to see if there is a specific speaker that has no sound.

Is there a specific speaker?

YES -Go to step 4.

NO -Go to step 7.

4. Turn the ignition switch OFF.
5. Check the speaker with no sound for any damage.

Is there any damage?

YES -Substitute the speaker and recheck.

NO -Go to step 6.

6. Remove the speaker(s) with no sound (see **SPEAKER REPLACEMENT**), and disconnect its connector.
7. Check the speaker connector for a loose or poor connection.

Reconnect the speaker connector and recheck the symptom; does it still fail?

YES -Go to step 8.

NO -Operation is normal.

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

Is there about 4 ohms?

YES -

- EX and SC models: Go to step 13.
- LX model: Go to step 9.

NO -Faulty speaker(s).

9. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector A (20P).

NOTE: **Eject all the CDs before remove the audio unit to prevent damaging the CD player's load mechanism.**

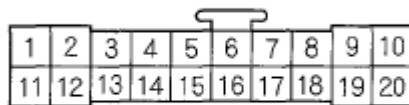
10. Measure the resistance between following terminals of audio unit connector A (20P) according to the

table.

TERMINALS REFERENCE

Speaker	Terminal	Wire color
Driver's door speaker	A8 (+)	GRN/BLK
	A18 (-)	GRN
Front passenger's door speaker	A7 (+)	GRN/YEL
	A17 (-)	BLU/YEL
Left rear door speaker	A6 (+)	BLU/WHT
	A16 (-)	BLU/BLK
Right rear door speaker	A5 (+)	PNK
	A15 (-)	BLU/YEL

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

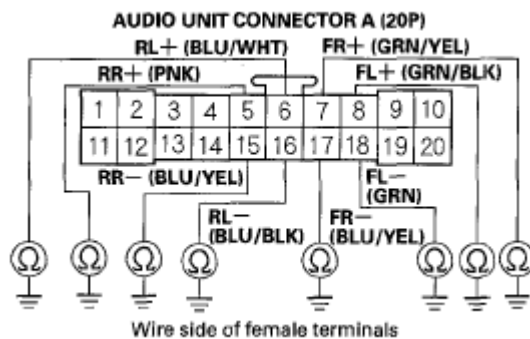
Fig. 34: Measuring Resistance Between Following Terminals Of Audio Unit Connector A (20P)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 4 ohms?

YES -Go to step 11.

NO -Repair short in the wires between the audio unit and speaker.

11. Disconnect the speaker connector.
12. Check audio unit connector A (20P) terminals No. 5, 6, 7, 8, 15, 16, 17, and 18 individually for continuity to body ground.



Wire side of female terminals

Fig. 35: Checking Audio Unit Connector A (20P) Terminals No. 5, 6, 7, 8, 15, 16, 17, And 18 Individually For Continuity To Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

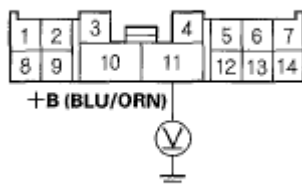
Is there continuity?

YES -Repair short to body ground in the wire between the audio unit and speaker.

NO -Substitute a known-good audio unit and recheck. If the symptom/indication goes away, replace the original audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

13. Disconnect stereo amplifier connector A (14P), and connector B(16P).
14. Measure the voltage between stereo amplifier connector A (14P) No. 11 terminal and body ground.

STEREO AMPLIFIER CONNECTOR A (14P)



Wire side of female terminals

Fig. 36: Measuring Voltage Between Stereo Amplifier Connector A (14P) No. 11 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

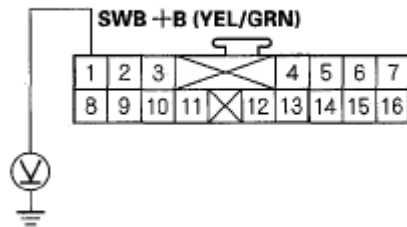
Is there battery voltage?

YES -Go to step 15.

NO -Repair open in the wire between No. 7 (20 A) fuse in the under-dash fuse box and stereo amplifier connector A (14P) No. 11 terminal.

15. Turn the ignition switch ON (II), and push the PWR button on the audio unit.
16. Measure the voltage between stereo amplifier connector B (16P) No. 1 terminal and body ground.

STEREO AMPLIFIER CONNECTOR B (16P)



Wire side of female terminals

Fig. 37: Measuring Voltage Between Stereo Amplifier Connector B (16P) No. 1 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

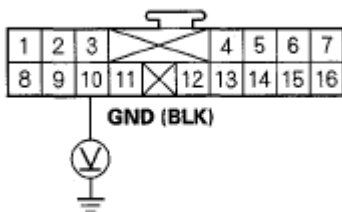
Is there battery voltage?

YES -Go to step 17.

NO -Repair open in the wire between audio unit connector A (20P) No. 1 terminal and stereo amplifier connector B (16P) No. 1 terminal.

17. Reconnect stereo amplifier connector A (14P), and connector B(16P).
18. Measure the voltage between stereo amplifier connector B (16P) No. 10 terminal and body ground.

STEREO AMPLIFIER CONNECTOR B (16P)



Wire side of female terminals

Fig. 38: Measuring Voltage Between Stereo Amplifier Connector B (16P) No. 10 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there less than 0.1 V on both terminals?

YES -Go to step 19.

NO -Repair open in the wire between stereo amplifier connector B (16P) No. 10 terminal and body ground (G503) (see **DASHBOARD WIRE HARNESS A (RIGHT BRANCH)**).

19. Disconnect stereo amplifier connector A (14P), and connector B (16P).

2007 Honda Element EX

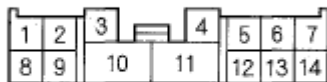
2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

20. Measure the resistance between the stereo amplifier connector A (14P) according to the table.

TERMINALS REFERENCE

Speaker	Terminal	Wire color
Driver's door speaker, left tweeter	A6 (+)	GRN/BLK
	A13 (-)	GRN
Front passenger's door speaker, right tweeter	A7 (+)	GRN/YEL
	A14 (-)	BLU/YEL
Left rear door speaker	A4 (+)	BLU/WHT
	A3 (-)	BLU/BLK
Right rear door speaker	A5 (+)	PNK
	A12 (-)	BLU/YEL
Subwoofer	A1 (+)	BLU
	A8 (-)	GRY/BLK
Subwoofer	A2 (+)	BRN
	A9 (-)	RED

STEREO AMPLIFIER CONNECTOR A (14P)



Wire side of female terminals

Fig. 39: Measuring Resistance Between Stereo Amplifier Connector A (14P)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 4ohms?

YES -Go to step 21.

NO -Repair short in the wires between the stereo amplifier and speaker.

21. Disconnect the connector(s) to the speaker(s).
 22. Check for continuity between stereo amplifier connector A (14P) and body ground according to the table.

CONNECTOR REFERENCE

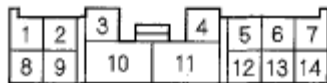
Stereo amplifier connector	Wire color
A6	GRN/BLK
A13	GRN
A7	GRN/YEL

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

A14	BLU/YEL
A4	BLU/WHT
A3	BLU/BLK
A5	PNK
A12	BLU/YEL
A1	BLU
A8	GRY/BLK
A2	BRN
A9	RED

STEREO AMPLIFIER CONNECTOR A (14P)



Wire side of female terminals

Fig. 40: Checking Continuity Between Stereo Amplifier Connector A (14P) And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Repair short to body ground in the wire between the audio unit and the speaker.

NO -Go to step 23.

23. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector A (20P).

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

24. Check for continuity between audio unit connector A (20P) and body ground according to the table.

CONNECTOR REFERENCE

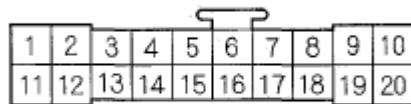
Audio unit connector	Wire color
A6	RED
A5	BLU
A8	WHT
A7	YEL
A16	GRN

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

A15	BLK
A18	ORN
A17	BRN

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Fig. 41: Checking Continuity Between Audio Unit Connector A (20P) And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Short to body ground in the wire(s) between the stereo amplifier and the audio unit. Replace the affected shielded harness.

NO -Go to step 25.

25. Check for continuity between the audio unit connector A (20P) according to the table.

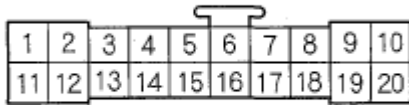
TERMINALS REFERENCE

From terminal	To terminals
A5	A6, A7, A8, A11, A15, A16, A17, A18
A6	A7, A8, A11, A15, A16, A17, A18
A7	A8, A11, A15, A16, A17, A18
A8	A11, A15, A16, A17, A18
A11	A15, A16, A17, A18
A15	A16, A17, A18
A16	A17, A18
A17	A18

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Fig. 42: Checking Continuity Between Audio Unit Connector A (20P)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity between any of the terminals?

YES -Short in the wire(s) between the stereo amplifier and the audio unit. Replace the affected shielded harness.

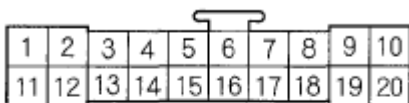
NO -Go to step 26.

26. Check for continuity between audio unit connector A (20P) and stereo amplifier connector B (16P) according to the table.

CONNECTOR REFERENCE

Audio unit connector	Stereo amplifier connector	Wire color
A5	B5	BLU
A6	B4	RED
A7	B7	YEL
A8	B6	WHT
A15	B13	BLK
A16	B12	GRN
A17	B15	BRN
A18	B14	ORN

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

STEREO AMPLIFIER CONNECTOR B (16P)



Wire side of female terminals

Fig. 43: Checking Continuity Between Audio Unit Connector A (20P) And Stereo Amplifier Connector B (16P)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Go to step 27.

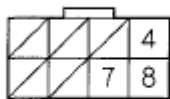
NO -Open in the wire(s) between the stereo amplifier and the audio unit. Replace the affected shielded harness.

- 27. Disconnect audio unit connector B (8P).
- 28. Check for continuity between audio unit connector B (8P) and body ground according to the table.

CONNECTOR REFERENCE

Audio unit connector	Wire color
B4	RED/BLU
B8	RED/WHT

AUDIO UNIT CONNECTOR B (8P)



Wire side of female terminals

Fig. 44: Checking Continuity Between Audio Unit Connector B (8P) And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Short to body ground in the wire(s) between the stereo amplifier and the audio unit. Replace the affected shielded harness.

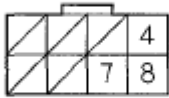
NO -Go to step 29.

- 29. Check for continuity between audio unit connector B (8P) and body ground according to the table.

TERMINALS REFERENCE

From terminal	To terminals
B4	B7, B8
B7	B8

AUDIO UNIT CONNECTOR B (8P)



Wire side of female terminals

Fig. 45: Checking Continuity Between Audio Unit Connector B (8P) And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity between any of the terminals?

YES -Short in the wire(s) between the stereo amplifier and the audio unit. Replace the affected shielded harness.

NO -Go to step 30.

30. Check for continuity between audio unit connector B (8P) and stereo amplifier connector B (16P) according to the table.

CONNECTOR REFERENCE

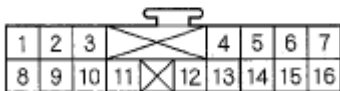
Audio unit connector	Stereo amplifier connector	Wire color
B4	B2	RED/BLU
B8	B10	RED/WHT

AUDIO UNIT CONNECTOR B (8P)



Wire side of female terminals

STEREO AMPLIFIER CONNECTOR B (16P)



Wire side of female terminals

Fig. 46: Checking Continuity Between Audio Unit Connector B (8P) And Stereo Amplifier Connector B (16P)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Substitute a known-good audio unit and recheck. If the symptom/indication goes away, replace the

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

original audio unit. If symptom is still present, substitute a known-good stereo amplifier and recheck. If the symptom/indication goes away, replace the original stereo amplifier.

NO -Open in the wire(s) between the stereo amplifier and the audio unit. Replace the affected shielded harness.

POOR OR NO SOUND WITH XM RADIO (AUDIO UNIT DOES DISPLAY XM CHANNELS)

NOTE:

- Check the vehicle battery condition first.
- 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 that 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 owner's manual), if it is set to channel mode call XM satellite Radio customer support and check the account activation status.

1. Turn the ignition switch 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 **ERROR CODES**).

NO -Go to step 4.

4. Turn the ignition switch OFF.
5. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector D (14P).

NOTE: Eject all the CDs before remove the audio unit to prevent damaging the player's load mechanism.

6. Disconnect XM receiver connector A (14P).
7. Check for continuity between audio unit connector D (14P) and body ground according to the table.

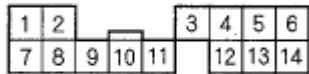
CONNECTOR REFERENCE

Audio unit connector	Wire color
D5	WHT
D6	RED
D13	BLU
D14	GRN

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

AUDIO UNIT CONNECTOR D (14P)



Wire side of female terminals

Fig. 47: Checking Continuity Between Audio Unit Connector D (14P) And Body Ground Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Short to body ground in the wire(s) between the audio unit and the XM receiver. Replace the affected shielded harness.

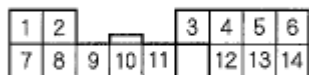
NO -Go to step 8.

8. Check for continuity between the audio unit connector D (14P) according to the table.

TERMINALS REFERENCE

From terminal	To terminals
D4	D5, D6, D13, D14
D5	D6, D13, D14
D6	D13, D14
D13	D14

AUDIO UNIT CONNECTOR D (14P)



Wire side of female terminals

Fig. 48: Checking Continuity Between Audio Unit Connector D (14P) Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity between any of the terminals?

YES -Short in the wire(s) between the audio unit and the XM receiver. Replace the affected shielded harness.

NO -Go to step 9.

2007 Honda Element EX

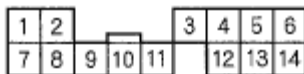
2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

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

CONNECTOR REFERENCE

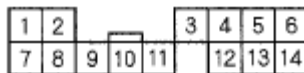
XM receiver connector	Audio unit connector	Wire color
A6	D6	RED
A14	D14	GRN
A5	D5	WHT
A13	D13	BLU

AUDIO UNIT CONNECTOR D (14P)



Wire side of female terminals

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Fig. 49: Checking Continuity Between Xm Receiver Connector A (14P) And Audio Unit Connector D(14P)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Substitute a known-good XM receiver, then reconnect the all connectors and recheck. If the symptom/indication goes away, replace the original XM receiver. If the symptom/indication is still present, replace the audio unit (see [AUDIO UNIT REMOVAL/INSTALLATION](#)).

NO -Open in the wire(s) between the audio unit and XM receiver. Replace the affected shielded harness.

XM RADIO DISPLAY IS BLANK AND NO STATION INFORMATION IS DISPLAYED

NOTE: Check the vehicle battery condition first.

1. Measure the voltage between XM receiver connector A (14P) No. 1 and No. 7 terminal and body ground.

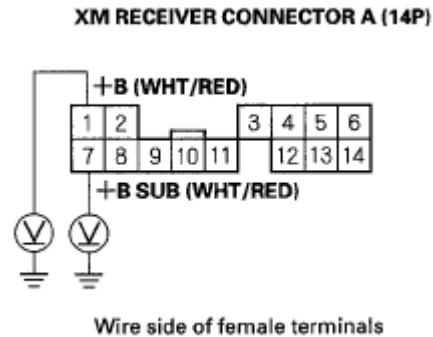


Fig. 50: Measuring Voltage Between XM Receiver Connector A (14P) No. 1 And No. 7 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 2.

NO -Repair open in the wire between No. 9 (10 A) fuse in the under-hood fuse/relay box and XM receiver connector A (14P) No. 1 terminal.

2. Turn the ignition switch ON (II).
3. Measure the voltage between XM receiver connector A (14P) No. 11 terminal and body ground.

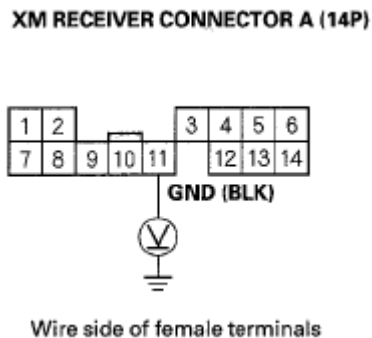


Fig. 51: Measuring Voltage Between XM Receiver Connector A (14P) No. 11 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there less than 0.1 V?

YES -Go to step 4.

NO -Repair open in the wire between the XM receiver connector A (14P) No. 11 terminal and body ground (G551) (see **FLOOR WIRE HARNESS (RIGHT BRANCH)**).

4. Turn the ignition switch OFF.

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

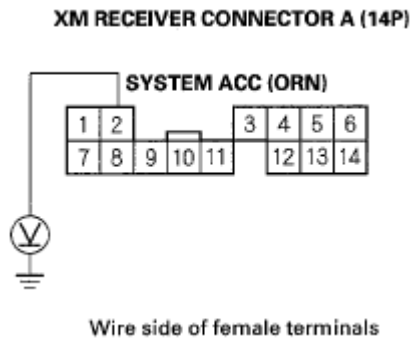


Fig. 52: Measuring Voltage Between XM Receiver Connector A (14P) No. 2 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there 10V or more present?

YES -Go to step 6.

NO -Substitute a known-good XM receiver and recheck. If 10 V or more are present, replace the original XM receiver (see **XM RECEIVER REPLACEMENT**).

6. Turn the ignition switch ON (II).
7. Measure the voltage between the audio unit connector D (14P) No. 2 terminal and body ground.

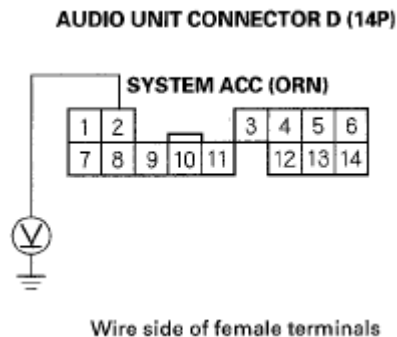


Fig. 53: Measuring Voltage Between Audio Unit Connector D (14P) No. 2 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there less than 0.5 V?

YES -Go to step 8.

NO -Substitute a known-good audio unit and recheck. If 0.5 V or less are present, replace the original audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

8. Turn the ignition switch OFF.
9. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector D (14P).

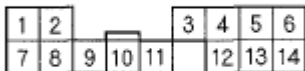
NOTE: Eject all the CDs before remove the audio unit to prevent damaging the CD player's load mechanism.

10. Disconnect XM receiver connector A (14P).
11. Check for continuity between audio unit connector D(14P) and body ground according to the table.

CONNECTOR REFERENCE

Audio unit connector	Wire color
D9	BLU
D10	PNK

AUDIO UNIT CONNECTOR D (14P)



Wire side of female terminals

Fig. 54: Checking Continuity Between Audio Unit Connector D(14P) And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Short to body ground in the wire(s) between the audio unit and the XM receiver. Replace the affected shielded harness.

NO -Go to step 12.

12. Check for continuity between the audio unit connector D (14P) according to the table.

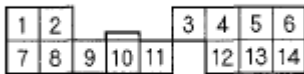
TERMINALS REFERENCE

From terminal	To terminals
D3	D9, D10
D9	D10

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

AUDIO UNIT CONNECTOR D (14P)



Wire side of female terminals

Fig. 55: Checking Continuity Between Audio Unit Connector D (14P)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity between any of the terminals?

YES -Short in the wire(s) between the audio unit and the XM receiver. Replace the affected shielded harness.

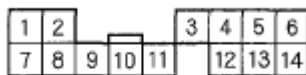
NO -Go to step 13.

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

CONNECTOR REFERENCE

Audio unit connector	XM receiver connector	Wire color
D3	A3	BRN
D9	A9	BLU
D10	A10	PNK

AUDIO UNIT CONNECTOR D (14P)



Wire side of female terminals

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Fig. 56: Checking Continuity Between Audio Unit Connector D (14P) And XM Receiver Connector A (14P)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

YES -Substitute a known-good XM receiver, then reconnect the all connectors and recheck. If the symptom/indication goes away, replace the original XM receiver. If the symptom/indication is still present, replace the audio unit (see [AUDIO UNIT REMOVAL/INSTALLATION](#)).

NO -Open in the wire(s) between the audio unit and XM receiver. Replace the affected shielded harness.

AUDIO SYSTEM SOUND IS WEAK OR DISTORTED (DISPLAY IS NORMAL)

NOTE: Check the vehicle battery condition first.

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

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, amplifier, and each speaker.

NO -Speakers all work, sound quality is poor.

- If the 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 [POOR OR NO SOUND WITH XM RADIO \(AUDIO UNIT DOES DISPLAY XM CHANNELS\)](#)).
- If the sound quality is poor only with AM or FM radio, go to poor AM or FM radio reception or interference (see [POOR AM OR FM RADIO RECEPTION OR INTERFERENCE \(WITH XM\)](#)).
- If the sound is poor in all modes, go to sound quality diagnosis (see [SOUND QUALITY DIAGNOSIS](#)).

AUDIO DISC DOES NOT LOAD

NOTE:

- Check the vehicle battery condition first.
- Disc labels should not be used in the audio unit. They may damage the player mechanism.
- Make sure the disc is compatible with the system (see the owner's manual for more information).

1. Turn the ignition switch 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 [AUDIO DISC DOES NOT PLAY](#)).

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

NO -Go to step 3.

3. Insert another disc.

Does the disc load?

YES -The original disc is faulty.

NO -Replace audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

RADIO TUNER DOES NOT CHANGE STATIONS

NOTE: **Check the vehicle battery condition first.**

1. Turn the ignition switch 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 power switch will not turn ON (see **POWER SWITCH WILL NOT TURN ON (NO INFORMATION DISPLAY AND NO SOUND)**).

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 -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

ERROR CODE: XM NO SIGNAL OR XM ANTENNA IS DISPLAYED

NOTE:

- **Check the vehicle battery condition first.**
- **Check XM radio reception in an open area. Poor reception/interference can be caused by tall buildings, mountains, or high-voltage power lines.**

1. Park the vehicle outside with a clear view of the southern horizon.
2. Turn the ignition switch 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 -Go to step 4.

4. Turn the ignition switch OFF.
5. Check AM/FM/XM antenna 3P connector and XM receiver connector B (2P).

Are XM antenna connector B connected?

YES -Go to step 6.

NO -Reconnect XM receiver connector B, recheck XM radio operation. If the signal is restored, operation is normal. If signal not restored go to step 6.

6. Measure the voltage between XM receiver connector A (14P) No. 1 and No. 7 terminal and body ground.

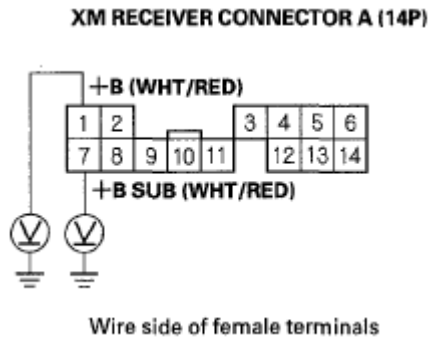


Fig. 57: Measuring Voltage Between XM Receiver Connector A (14P) No. 1 And No. 7 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 7.

NO -Repair open in the wire between audio unit and XM receiver.

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

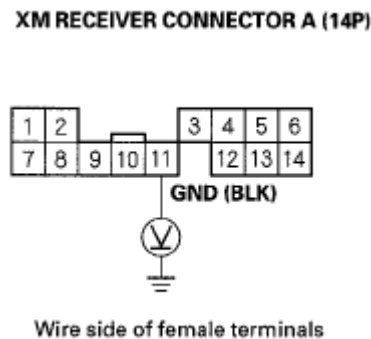


Fig. 58: Measuring Voltage Between XM Receiver Connector A (14P) No. 11 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there less than 0.1 V?

YES -Go to step 8.

NO -Repair open in the wire between XM receiver connector A (14P) No. 11 terminal and body ground (G551) (see **FLOOR WIRE HARNESS (RIGHT BRANCH)**).

8. Substitute known-good AM/FM/XM antenna.

Does the XM radio receiver a signal?

YES -Replace the AM/FM/XM antenna (see **AM/FM ANTENNA REPLACEMENT**).

NO -Substitute known-good XM antenna lead. If the XM radio receives the signal, replace the original XM antenna lead. If the XM radio does not receive a signal, replace the XM receiver (see **XM RECEIVER REPLACEMENT**).

AUDIO DISC DOES NOT EJECT

NOTE:

- Check the vehicle battery condition first.
- Disc labels should not be used in the audio unit. They may damage the player mechanism.

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

Does the system turn on?

YES -Go to step 3.

NO -Go to power switch will not turn ON (see **POWER SWITCH WILL NOT TURN ON (NO INFORMATION DISPLAY AND NO SOUND)**).

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

Does the disc eject?

YES -Operation is normal.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

XM RADIO PRESET MEMORY IS LOST

NOTE: Check the vehicle battery condition first.

1. Turn the ignition switch 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 -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

3. Turn the ignition switch OFF 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 the connections at the audio unit.

NO -Go to step 5.

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

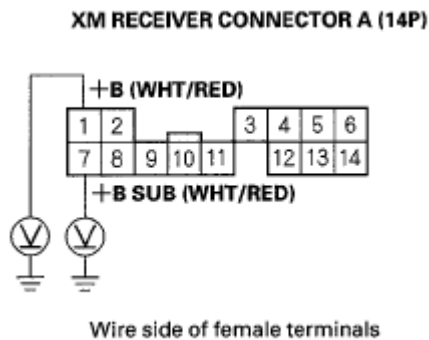


Fig. 59: Measuring Voltage Between XM Receiver Connector A (14P) No. 1 And No. 7 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

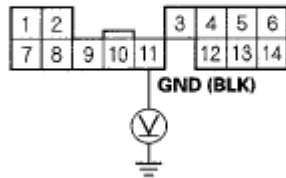
Is there battery voltage?

YES -Go to step 7.

NO -Repair open in the wire between the under-dash fuse/relay box and XM receiver connector A (14P) No. 1 terminal.

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

XM RECEIVER CONNECTOR A (14P)



Wire side of female terminals

Fig. 60: Measuring Voltage Between XM Receiver Connector A (14P) No. 11 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there less than 0.1 V?

YES -Replace the XM receiver (see **XM RECEIVER REPLACEMENT**).

NO -Repair open in the wire between XM receiver connector A (14P) No. 11 terminal and body ground (G551) (see **FLOOR WIRE HARNESS (RIGHT BRANCH)**).

RADIO PRESET MEMORY IS LOST

NOTE: If only the XM stations are lost, go to XM radio preset memory is lost (see **XM RADIO PRESET MEMORY IS LOST**).

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

Do each of the buttons set properly?

YES -Go to step 3.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

3. Turn the ignition switch OFF for 1 minute, then turn it back to ON (II).
4. 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 the connections at the audio unit.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

VOLUME DOES NOT CHANGE

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

NOTE:

- **Check the vehicle battery condition first.**
- **Set the fader and balance positions to the center.**

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

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 speakers (see **NO SOUND IS HEARD FROM SPEAKER(S) (DISPLAY IS NORMAL)**).

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

Does the volume change?

YES -Operation is normal.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

AUDIO UNIT BUTTON ILLUMINATION DOES NOT WORK

NOTE:

Check the vehicle battery condition first.

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 the 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. 2 (15 A) fuse in the under-dash fuse/relay box. If the fuse is OK, check for an open in the wire between the under-dash fuse/relay box and the audio unit.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

5. Turn the ignition switch OFF.
6. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector A (20P).

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

7. Disconnect gauge control module 36P connector.
8. Check for continuity between audio unit connector A (20P) No. 19 terminal and gauge control module 36P connector No. 26 terminal.

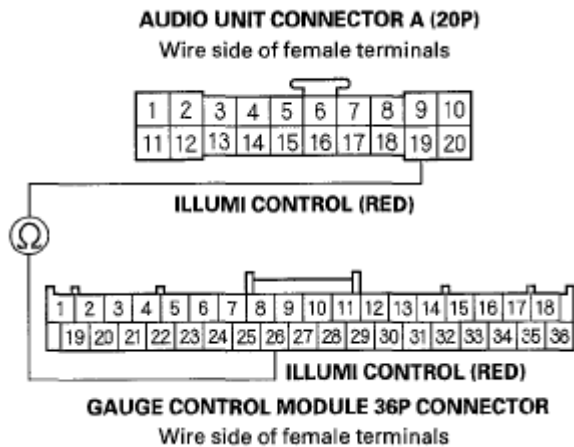


Fig. 61: Checking Continuity Between Audio Unit Connector A (20P) No. 19 Terminal And Gauge Control Module 36P Connector No. 26 Terminal
Courtesy of AMERICAN HONDA MOTOR CO., INC.

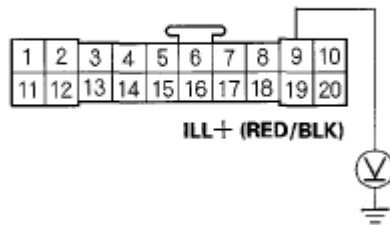
Is there continuity?

YES -Go to step 9.

NO -Repair open in the wire between the gauge control module and the audio unit.

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

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Fig. 62: Measuring Voltage Between Audio Unit Connector A (20P) No. 9 Terminal And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Check the connections at audio unit connector A (20P). If all the connections are OK, replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

NO -Repair open in the wire between the under-dash fuse/relay box and the audio unit.

DISPLAY DOES NOT DIM OR BRIGHTEN WITH DIMMER**NOTE: Check the vehicle battery condition first.**

1. Turn the ignition switch ON (II).
2. Turn the combination light switch ON and OFF to see if the symptom can be duplicated.

*Can you duplicate the problem?***YES** -Go to step 3.**NO** -Operation is normal.

3. Turn the combination light switch OFF.
4. Operate the illumination control dial.

*Is it normal?***YES** -Operation is normal.**NO** -Go to step 5.

5. Remove the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**), and disconnect audio unit connector A (20P).

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

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

6. Check for loose or a poor connection, then reconnect audio unit connector A (20P) and recheck the symptom.

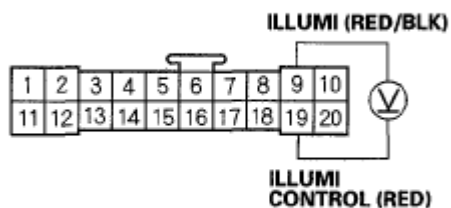
Does the problem still appear?

YES -Go to step 7.

NO -Operation is normal.

7. Measure the voltage between audio unit connector A (20P) No. 9 and No. 19 terminals. Operate the dash lights brightness controller buttons to see if the voltage changes.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

Fig. 63: Measuring Voltage Between Audio Unit Connector A (20P) No. 9 And No. 19 Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Does the voltage change?

YES -Substitute a known-good audio unit, and recheck. If the symptom/indication goes away, replace the original audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

NO -Repair open in the wire between the under-dash fuse/relay box and the gauge control module.

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

AUDIO DISC DOES NOT PLAY

NOTE: Check the vehicle battery condition first.

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

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

Does the disc load?

YES -Go to step 3.

NO -Go to audio disc does not load (see **AUDIO DISC DOES NOT LOAD**).

3. Insert another 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 the 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 -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

AUDIO DISC SKIPS

NOTE: **Check the vehicle battery condition first.**

1. Confirm the vehicles tires are properly inflated.
2. Check the customers CD for scratches, fingerprints, and marks.

NOTE: **The following test should be performed with audio unit bass and treble set to customers listening performance. When comparing to known-good vehicles, comparison should be performed on same model and trim level.**

3. Test drive to identify when customers CD skips. The audio diagnostic CD (T/N: 07AAZ-SDBA100) can be used if customers CD is not available. Use tracks 10-12.

Does the CD skip?

YES -Go to step 4.

NO -Operation is normal.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

4. Compare the customer's CD that is skipping in a known-good vehicle under the same conditions.

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

YES -Operation is normal.

NO -Go to step 5.

NOTE: **The following test should be performed with vehicle parked and engine running.**

5. Insert the diagnostic skip test CD (T/N: 07AAZ-SDBA300) (ABEXTCD721). Play tracks 2-11 and note the track number(s) where the CD starts skipping. Do the same test on a known-good vehicle.

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

YES -Operation is normal.

NO -Go to step 6.

6. Insert the diagnostic skip test CD (T/N: 07AAZ-SDBA200) (ABEX TCD 725B) play tracks 7-11 and tracks 13-15 and note the track number(s) where the CD starts skipping. Perform the same test on a known-good vehicle.

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

YES -Operation is normal.

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

AUDIO REMOTE SWITCH DOES NOT WORK PROPERLY

NOTE: **Check the vehicle battery condition first.**

1. Test the audio remote switch (see **XM RECEIVER REPLACEMENT**).

Is the audio remote switch OK?

YES -Go to step 2.

NO -Replace the audio remote switch (see **XM RECEIVER REPLACEMENT**).

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

Is the audio unit operation OK?

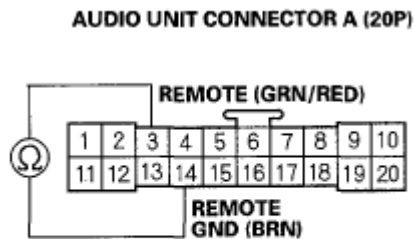
YES -Go to step 4.

NO -Replace the audio unit (see AUDIO UNIT REMOVAL/INSTALLATION).

4. Turn the ignition switch OFF.
5. Remove the audio unit (see AUDIO UNIT REMOVAL/INSTALLATION).

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

6. Measure the resistance between audio unit connector A (20P) No. 3 and No. 14 terminals as specified in the table.



Wire side of female terminals

Fig. 64: Measuring Resistance Between Audio Unit Connector A (20P) No. 3 And No. 14 Terminals
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

AUDIO REMOTE SWITCH TABLE

AUDIO REMOTE SWITCH

Button held down	VOL DOWN	VOL UP	CH	MODE	(NONE)
Resistance	about 50 ohms	about 300 ohms	about 900 ohms	about 2.4 Kohms	about 10 kohms

Is the resistance OK?

YES -Go to step 7.

NO -Repair open or high resistance in the circuit between the audio unit and the audio remote switch. If the wires are OK, replace the cable reel (see CABLE REEL REPLACEMENT).

7. Check for continuity between the No. 3 and No. 14 terminals of the audio unit connector A (20F1) and body ground.

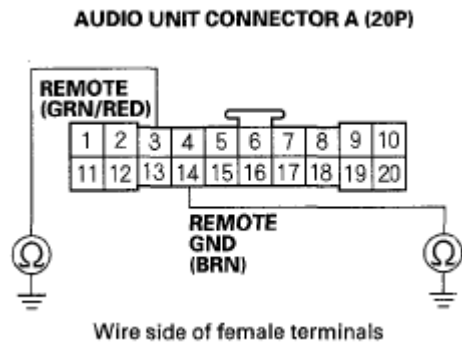


Fig. 65: Checking Continuity Between No. 3 And 14 Terminals Of Audio Unit Connector A (20F1) And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Repair short to body ground in the circuit between audio unit and the audio remote switch. If the wires are OK, replace the cable reel (see **CABLE REEL REPLACEMENT**).

NO -Replace the audio unit (see **AUDIO UNIT REMOVAL/INSTALLATION**).

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 bass, treble, fader and balance settings, and then set them to their center positions for 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 the phase test.
 - If the channel ID is not correct, check for;
 - Shorted speaker wire
 - Faulty amplifier (with premium sound system)
 - Faulty audio unit

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

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.
 - If the voice always sounds out of phase, phasing is not correct. Check for;
 - Crossed speaker wires
 - 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 device 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.
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 individual speaker test.

- 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 for 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 speakers. 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.
 - If the sound quality is OK, go to the sound balance test.

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. A "static" type sound should be heard through all 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 position.
7. Play track No. 3 (pink noise) at the same level that was played in step 3.
8. Compare the sounds made by the two vehicles.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

- If the noise sounds made by the two vehicles are very similar, go to the Frequency Sweep Test (+see **FREQUENCY SWEEP**).
- If the sound does not have as much bass, check the subwoofer and 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 reverberation 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 you hear vibrations or poor sound quality, go to step 4.
 - If you do not hear any vibrations or poor sound quality, go to sound judging.
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 located in step 3 this aids in diagnosis of the problem.

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 vibrations or, if the speaker is the source of the poor sound quality, replace it.

Special Tools Required

Diagnostics CD 07AAZ-SDBA100

SOUND JUDGING

- Do this test to compare overall sound quality, imaging, and dynamics between the customer's vehicle and a known-good vehicle. Only use a vehicle of the same model and trim level for this test.
 - Make sure the vehicle is using only OEM speakers.
1. In the customer's vehicle, set the bass, treble, fader, and balance settings to the customer's normal settings that were written down before beginning testing.
 2. Insert the audio diagnostic CD (T/N: 07AAZ-SDBA100) into the audio unit.

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

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.
4. Listen to areas of the track that stand out as being either very clear, or poorer than other areas of the track.
5. Insert the audio diagnostic CD (T/N: 07AAZ-SDBA100) into the audio unit of a known-good vehicle.
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 customer'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 customer's vehicle's sound quality results to the known-good vehicle's results.
 - If the sound quality in the customer's vehicle is comparable to the sound quality in the known-good vehicle, then the customer'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 become excited by 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 speakers (display is normal) (see **NO SOUND IS HEARD FROM SPEAKER(S) (DISPLAY IS NORMAL)**) before continuing with this test.

NOTE:

- **Window tint, aftermarket theft-recovery devices and other aftermarket accessories may reduce radio reception.**
- **Changes in cloud cover and other atmosphere conditions will affect the ability of the audio unit to receive radio signals.**

1. Park the customer'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 customer's vehicle, facing the same direction.
3. Start the engine in the customer'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 on to.

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 OFF.
11. Start the engine in the known-good vehicle, and then perform steps 4 through 10 on the known-good vehicle.
12. Compare the number of stations received in steps 6 and 9 in the customer'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 customer's vehicle receives fewer stations by at least 10 %, go to step 2 of poor AM or FM radio reception of interference (see **SYMPTOM TROUBLESHOOTING**).

AUDIO UNIT REMOVAL/INSTALLATION

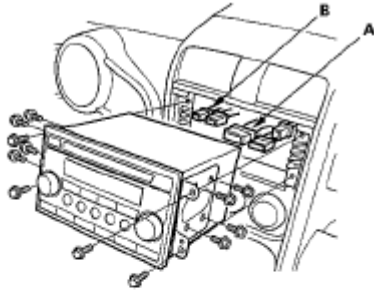
SRS components are located in this area. Review the SRS component locations (see **COMPONENT LOCATION INDEX**), and the precautions and procedures (see **PRECAUTIONS AND PROCEDURES**) in the SRS before doing repairs or service.

NOTE:

- **Eject all the CDs before remove the audio unit to prevent damaging the CD player's load mechanism.**
- **Put on gloves to protect your hands.**
- **Take care not to scratch the dashboard and related parts.**
- **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 code for the audio system.
2. Remove the dashboard center panel (see **CENTER PANEL REMOVAL/INSTALLATION**).
3. Remove the four mounting bolts, then remove the audio unit.
4. Disconnect the audio connectors (A) and AM/FM antenna sublead (B).

EX and SC models:



LX model:

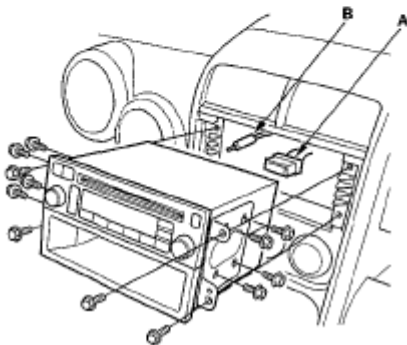


Fig. 66: Identifying Audio Unit Removal/Installation
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the eight mounting bolts securing the audio unit to the audio unit bracket.
6. Install the audio unit in the reverse order of removal, and note these items:
 - Make sure the audio unit connector is plugged in properly, and the AM/FM antenna sublead is connected properly.
 - Enter the anti-theft code for the audio system.
 - Set the clock.

STEREO AMPLIFIER REPLACEMENT

1. Remove the right kick panel (see **TRIM REMOVAL/INSTALLATION - DOOR AREAS**).
2. Remove the stereo amplifier connectors (A) from the stereo amplifier (B).

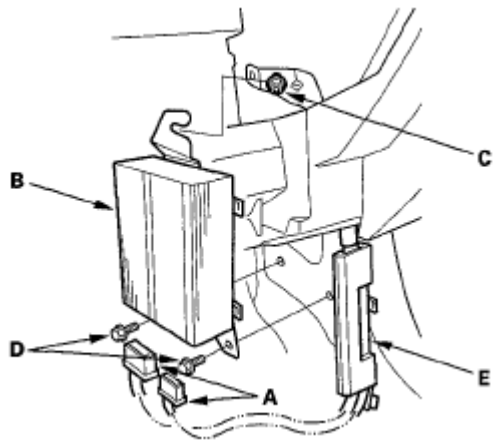


Fig. 67: Identifying Stereo Amplifier

Courtesy of AMERICAN HONDA MOTOR CO., INC.

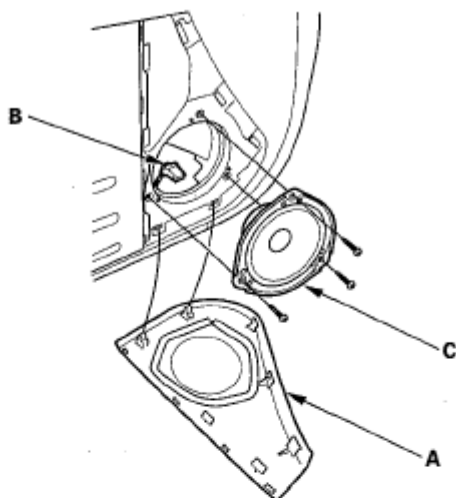
3. Loosen the mounting nut (C), and remove the two mounting bolts (D).
4. Remove the harness band (E) and the stereo amplifier.
5. Install the stereo amplifier in the reverse order of removal.

SPEAKER REPLACEMENT

DOOR SPEAKER

1. Remove the speaker cover (A).

Front:



Rear:

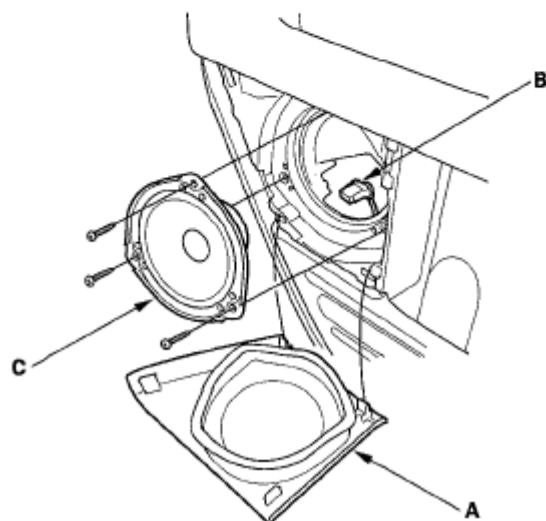


Fig. 68: Identifying Speaker And Speaker Cover
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Remove the three screws, then disconnect the 2P connector (B) from the speaker (C).
3. Install the speaker in the reverse order of removal.

TWEETER

1. Remove the A-pillar trim (see **A-PILLAR TRIM**).
2. Disconnect the 2P connector (A).

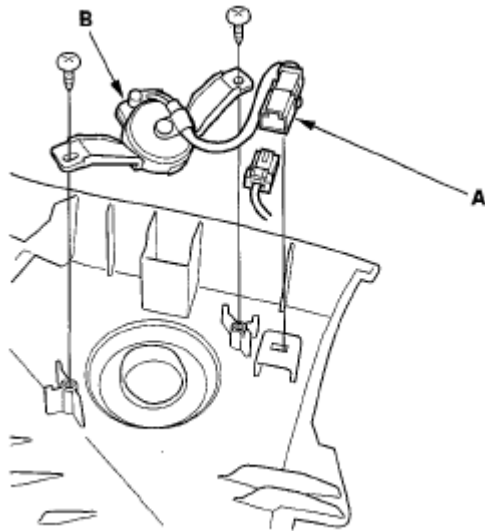


Fig. 69: Identifying 2P Connector And Tweeter
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the two mounting screws from the tweeter (B).
4. Install the tweeter in the reverse order of removal.

SUBWOOFER

1. SC model: Remove the center console (see CENTER CONSOLE REMOVAL/INSTALLATION).
2. Remove the dashboard center lower cover (see CENTER LOWER COVER REMOVAL/INSTALLATION).
3. Disconnect the 4P connector (A) from the subwoofer (B).

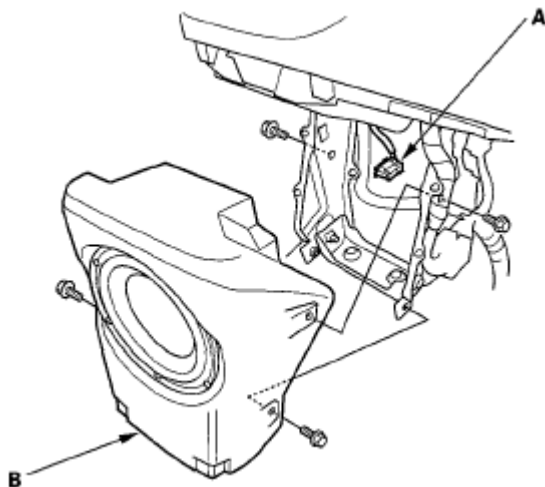


Fig. 70: Identifying 4P Connector And Subwoofer
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the four mounting bolts from the subwoofer.
5. Install the subwoofer in the reverse order of removal.

AUXILIARY JACK ASSEMBLY REPLACEMENT

EX MODEL

1. Remove the glove box (see GLOVE BOX REMOVAL/INSTALLATION).
2. Remove the front accessory power socket (see ACCESSORY POWER SOCKET TEST/REPLACEMENT).
3. Disconnect the 5P connector (A) from the auxiliary jack assembly (B).

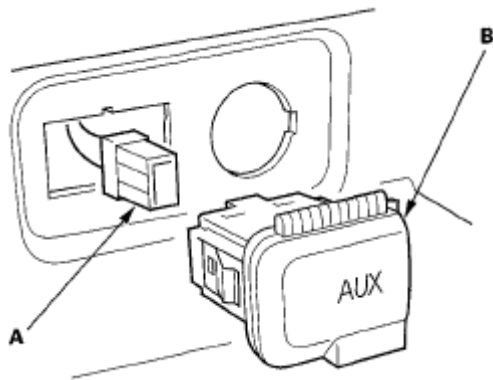


Fig. 71: Identifying 5P Connector And Auxiliary Jack Assembly - EX Model
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Push out the auxiliary jack assembly (B) from behind the dashboard.
5. Install the auxiliary jack assembly in the reverse order of removal.

SC MODEL

1. Remove the console accessory power socket from the center console box (see COMPONENT LOCATION INDEX).
2. Carefully pry the auxiliary jack assembly (A) out from the center console box.

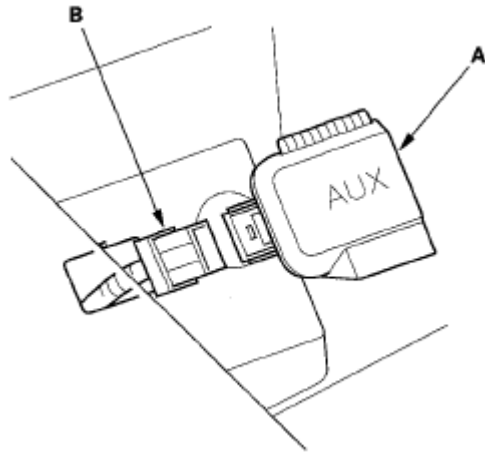


Fig. 72: Identifying 5P Connector And Auxiliary Jack Assembly - SC Model
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Disconnect the 5P connector (B) from the auxiliary jack assembly.
4. Install the auxiliary jack assembly in the reverse order of removal.

AM/FM ANTENNA REPLACEMENT

WITHOUT XM

1. Pull down the rear portion of the headliner (see [HEADLINER REMOVAL/INSTALLATION](#)).
2. Disconnect the AM/FM antenna lead jack (A) and 1P connector (B) from the roof antenna (C).

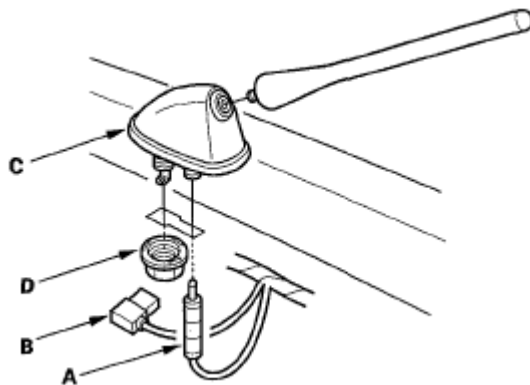


Fig. 73: Identifying AM/FM Antenna Lead Jack And 1P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the mounting nut (D) and the AM/FM antenna.
4. Install the antenna in the reverse order of removal.

AM/FM/XM ANTENNA REPLACEMENT

WITH XM

1. Pull down the rear portion of the headliner (see **HEADLINER REMOVAL/INSTALLATION**).
2. Disconnect the AM/FM antenna lead connector (A) and XM antenna lead connector (B) from the AM/FM/XM antenna (C).

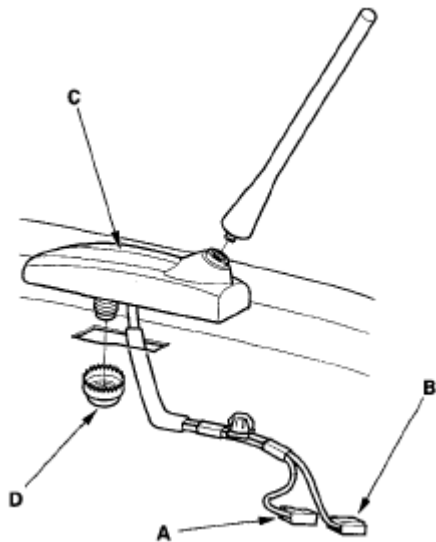


Fig. 74: Identifying AM/FM Antenna Lead Connector And XM Antenna Lead Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the mounting nut (D) and the AM/FM/XM antenna.
4. Install the antenna in the reverse order of removal.

XM RECEIVER REPLACEMENT**WITH XM**

1. Remove the right rear side trim panel (see **TRIM REMOVAL/INSTALLATION - REAR SIDE AREA**).
2. Disconnect the XM receiver connector (A) and the XM antenna lead connector (B).

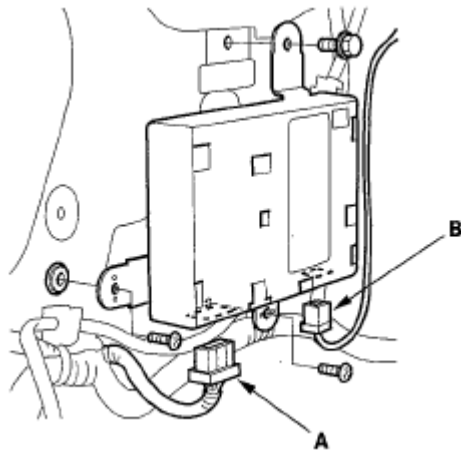


Fig. 75: Identifying XM Receiver Connector And XM Antenna Lead Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the bolts and screws, then remove the XM receiver.
4. Install the XM receiver in the reverse order of removal.

AUDIO REMOTE SWITCH TEST/REPLACEMENT

1. Remove the driver's airbag assembly (see **REMOVAL**).
2. Remove the two screws and cover (A) from the steering wheel.

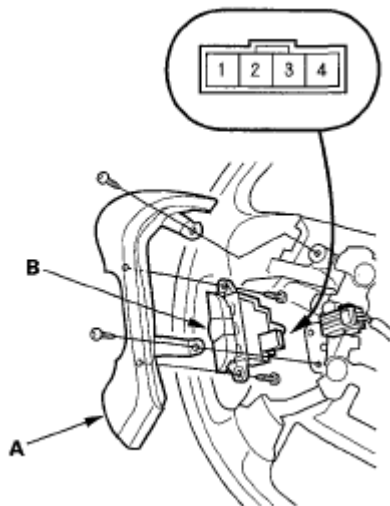


Fig. 76: Identifying Audio Remote Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the two screws from the audio remote switch (B).
4. Disconnect the 4P connector from the audio remote switch.
5. Measure the resistance between the No. 3 and No. 4 terminals in each switch position according to the

2007 Honda Element EX

2007-2008 ACCESSORIES AND EQUIPMENT Audio - Element

table.

RESISTANCE REFERENCE

Position	Resistance
OFF	About 10 kohms
MODE	About 2.4 kohms
CH	About 900 ohms
? (VOL. UP)	About 300 ohms
? (VOL. DOWN)	About 50 ohms

6. If the resistance is not as specified, replace the audio remote switch.