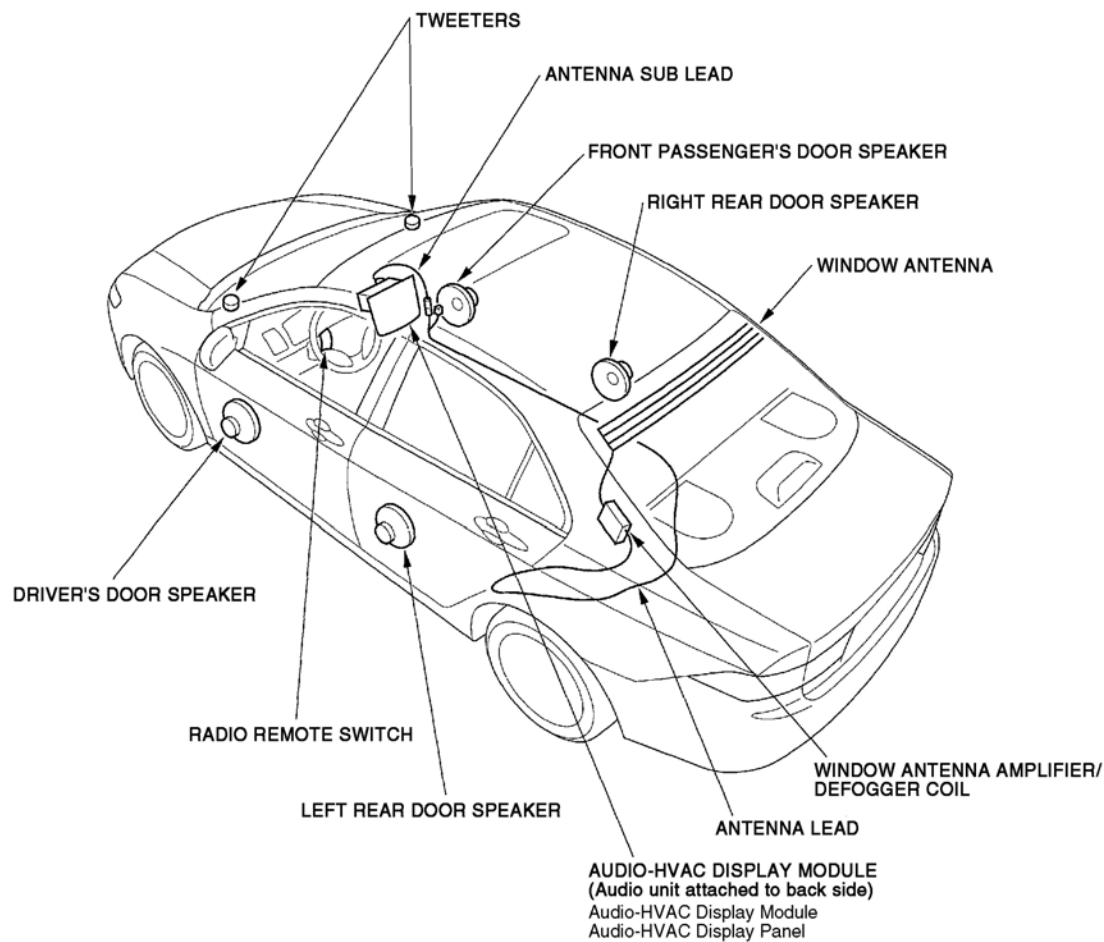


2004 ACCESSORIES & EQUIPMENT

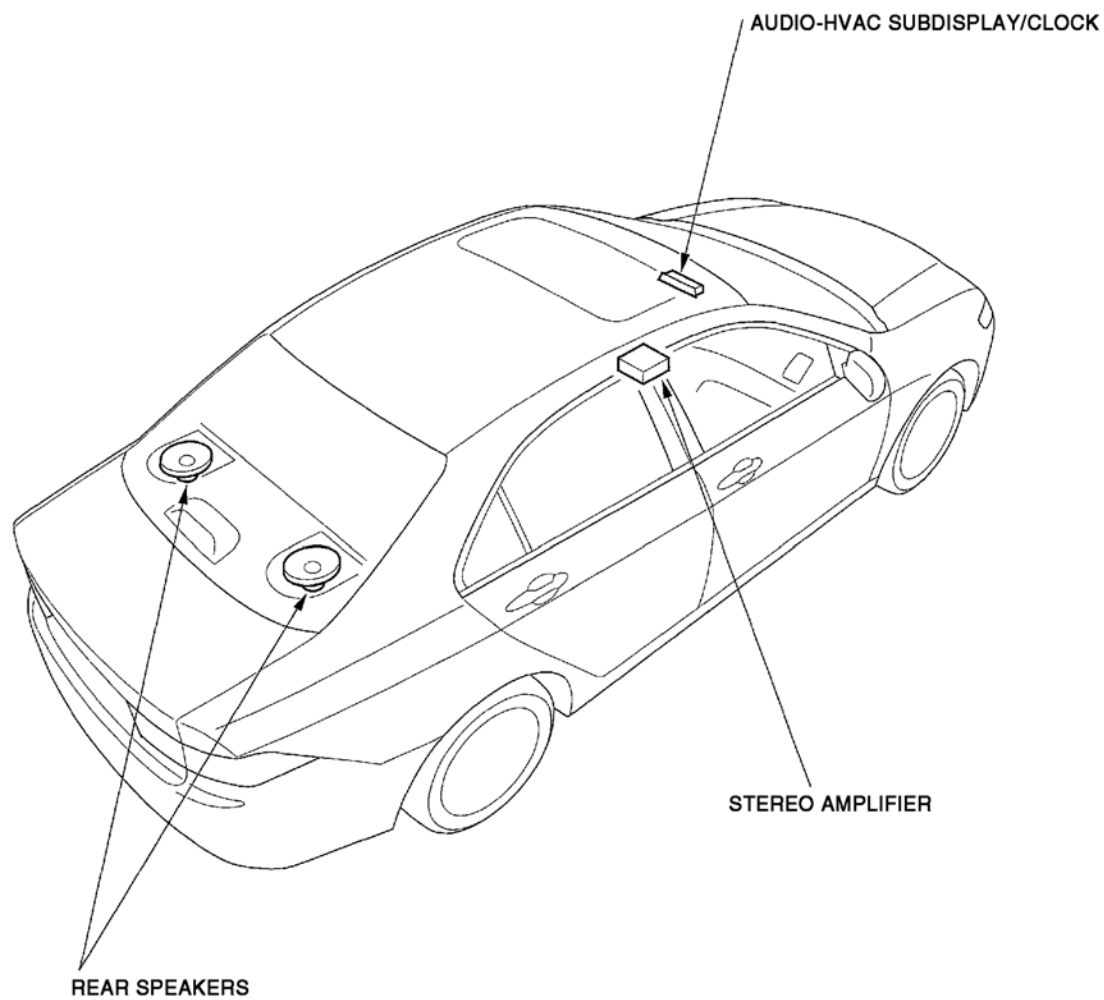
Audio System - TSX

COMPONENT LOCATION INDEX



G01821105

Fig. 1: Locating Audio System Components (1 Of 2)



G01821106

Fig. 2: Locating Audio System Components (2 Of 2)

CIRCUIT DIAGRAM

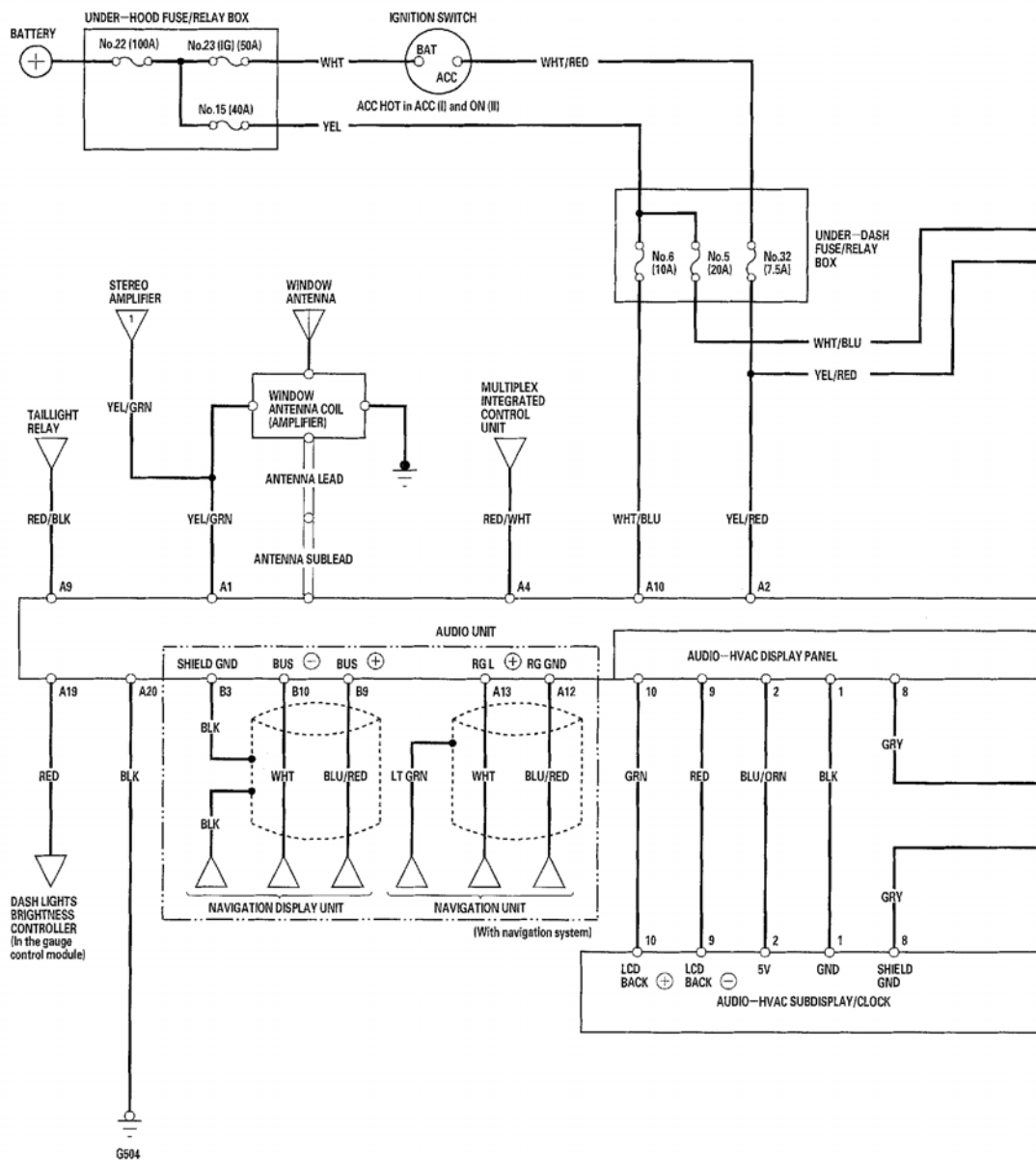
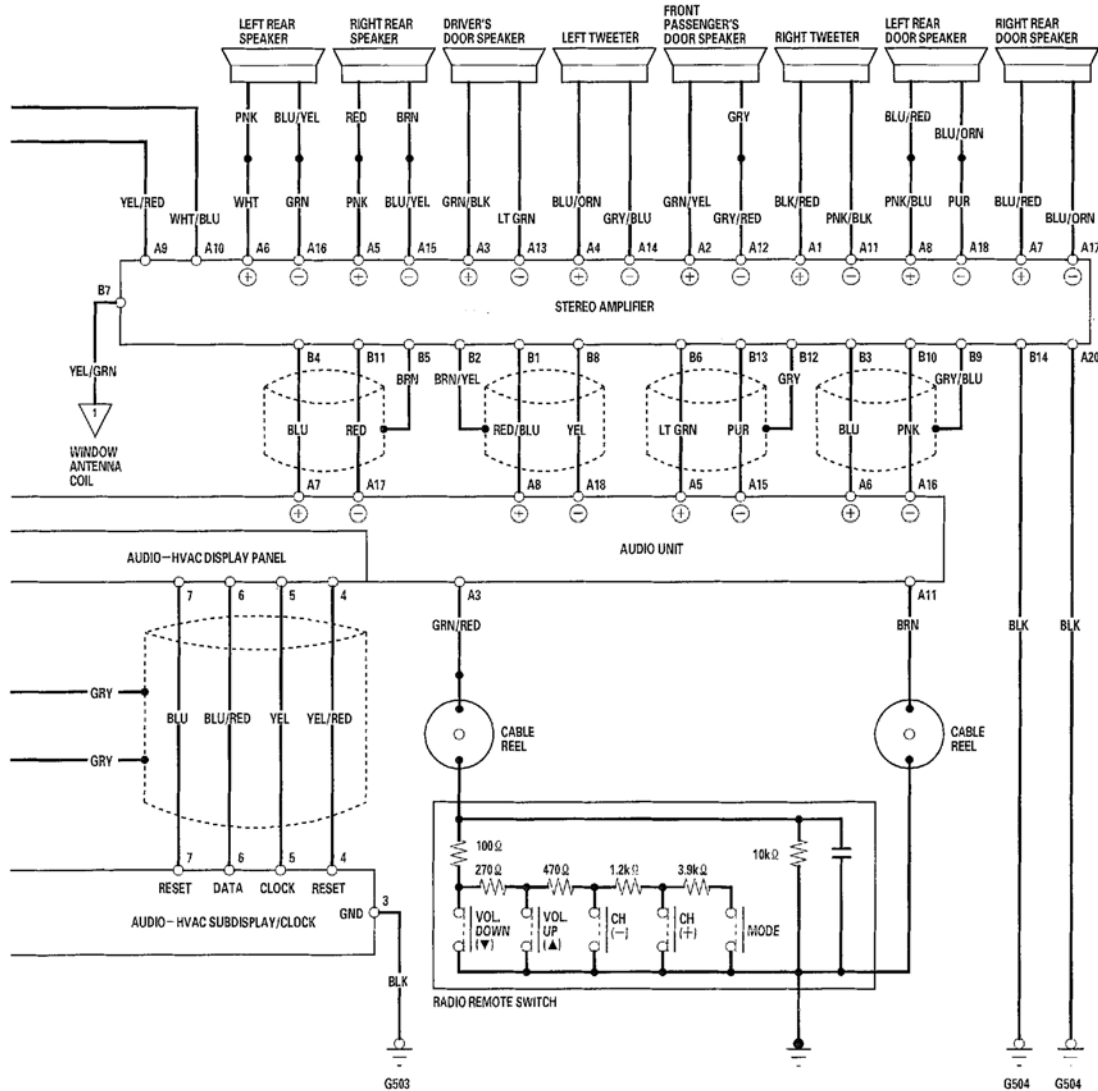


Fig. 3: Audio System Wiring Diagram (1 Of 2)

----- : Shielding



G01821108

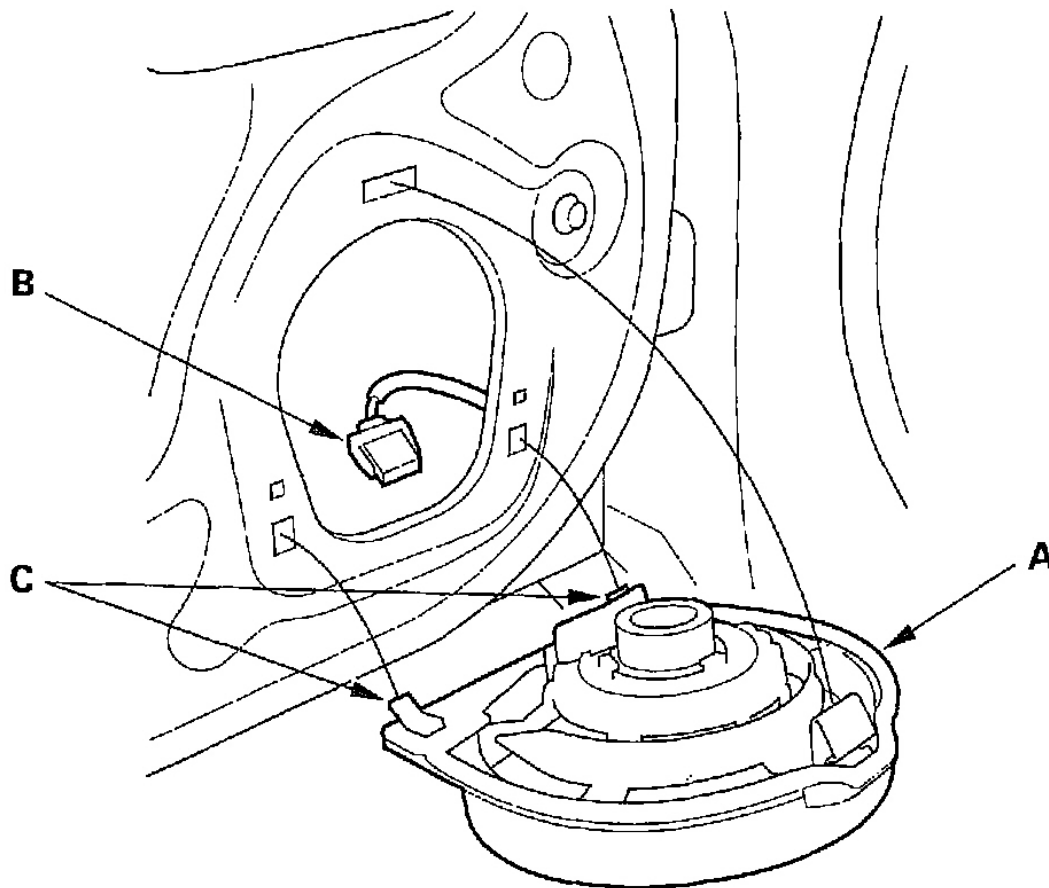
Fig. 4: Audio System Wiring Diagram (2 Of 2)

SPEAKER REPLACEMENT

FRONT SPEAKER

1. Remove the door panel (see [FRONT DOOR PANEL REMOVAL/INSTALLATION](#)).

NOTE: If you pull the speaker out too far from the door, you will damage the lower clips (C).



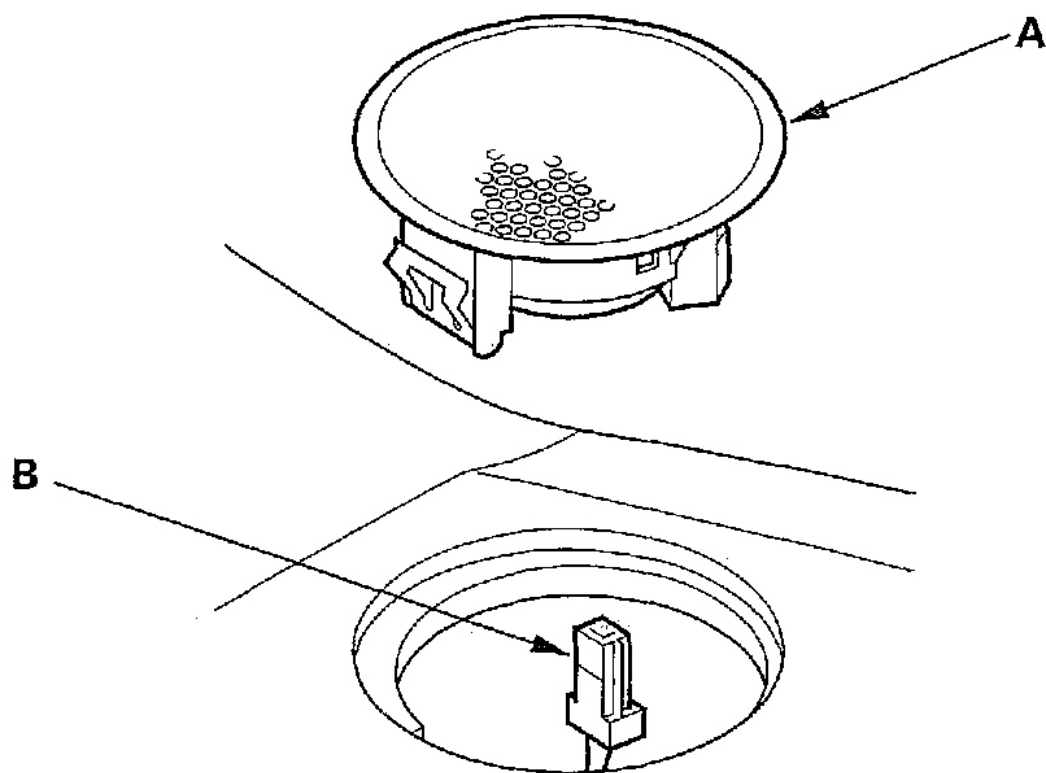
G01821109

Fig. 5: Removing The Front Speaker

2. Pull the speaker (A) straight out, just enough to release the upper clips. Then lift the speaker straight up to release the lower clips (C).
3. Disconnect the 2P connector (B), and remove the speaker.

TWEETER

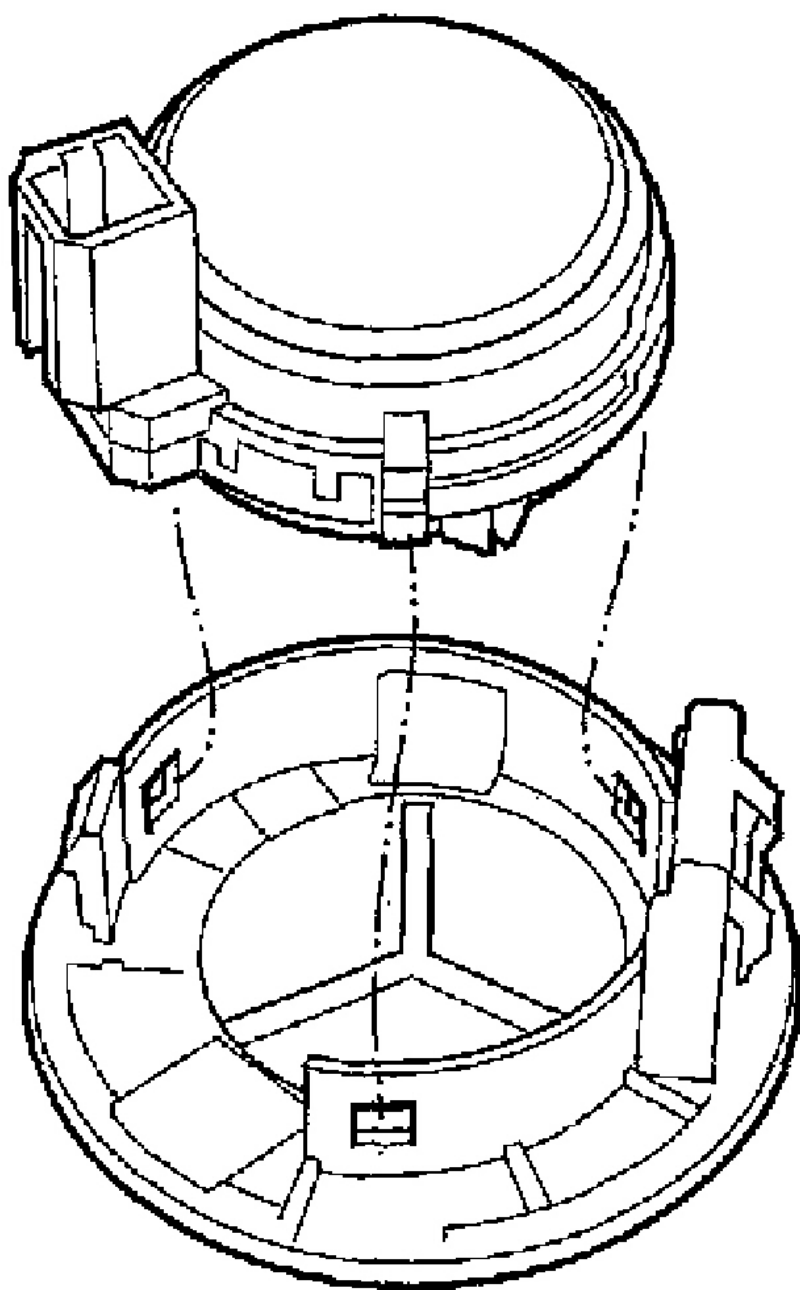
1. Remove the tweeter speaker grille and tweeter (A).



G01821110

Fig. 6: Removing The Tweeter & Grille

2. Disconnect the 2P connector (B) from the tweeter.
3. Remove the tweeter speaker grille from the tweeter.



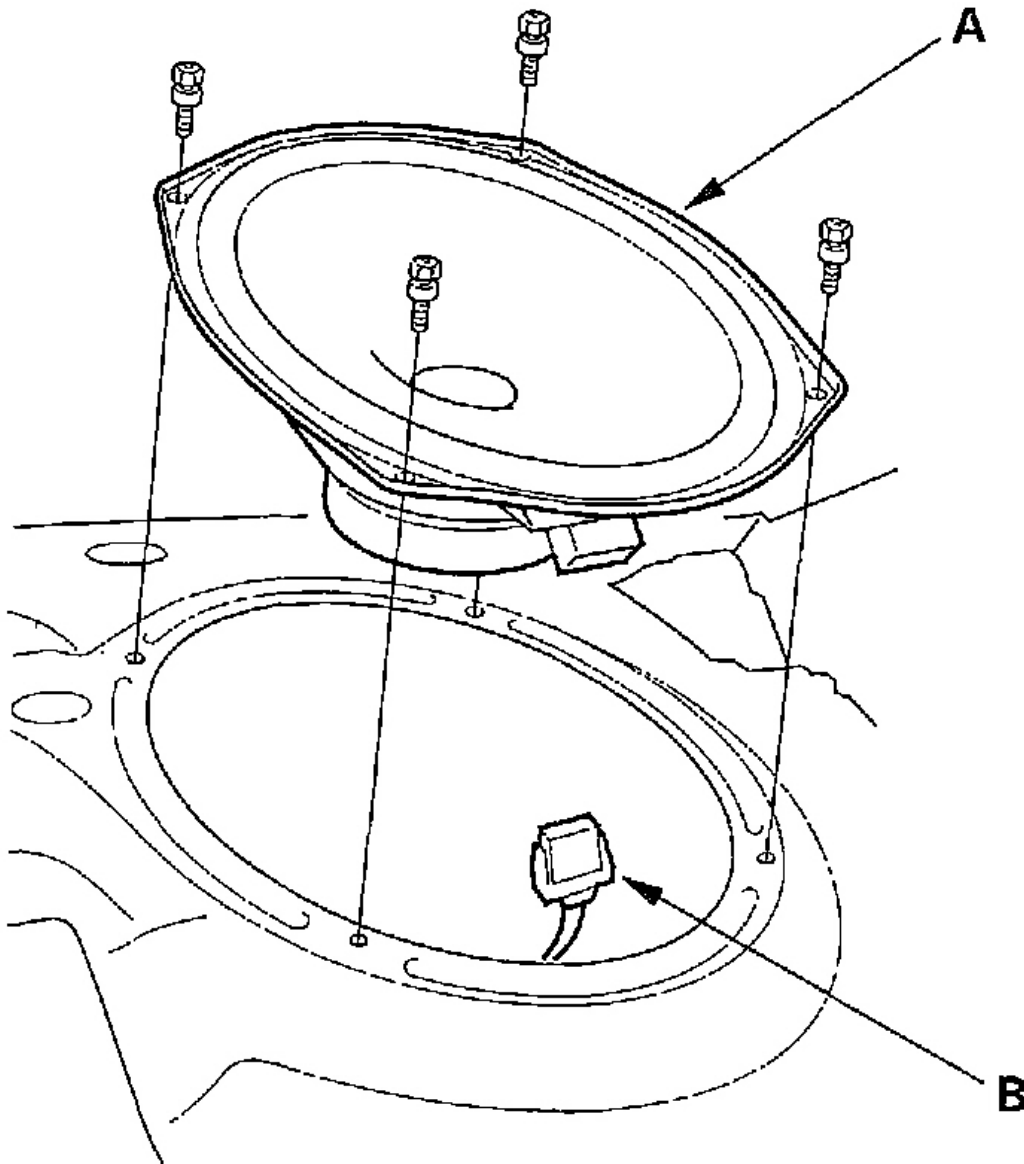
G01821111

Fig. 7: Removing The Tweeter

REAR SPEAKER

1. Remove the rear speaker cover by prying straight up to release the clips.

2. Remove the four mounting bolts from the rear speaker (A).



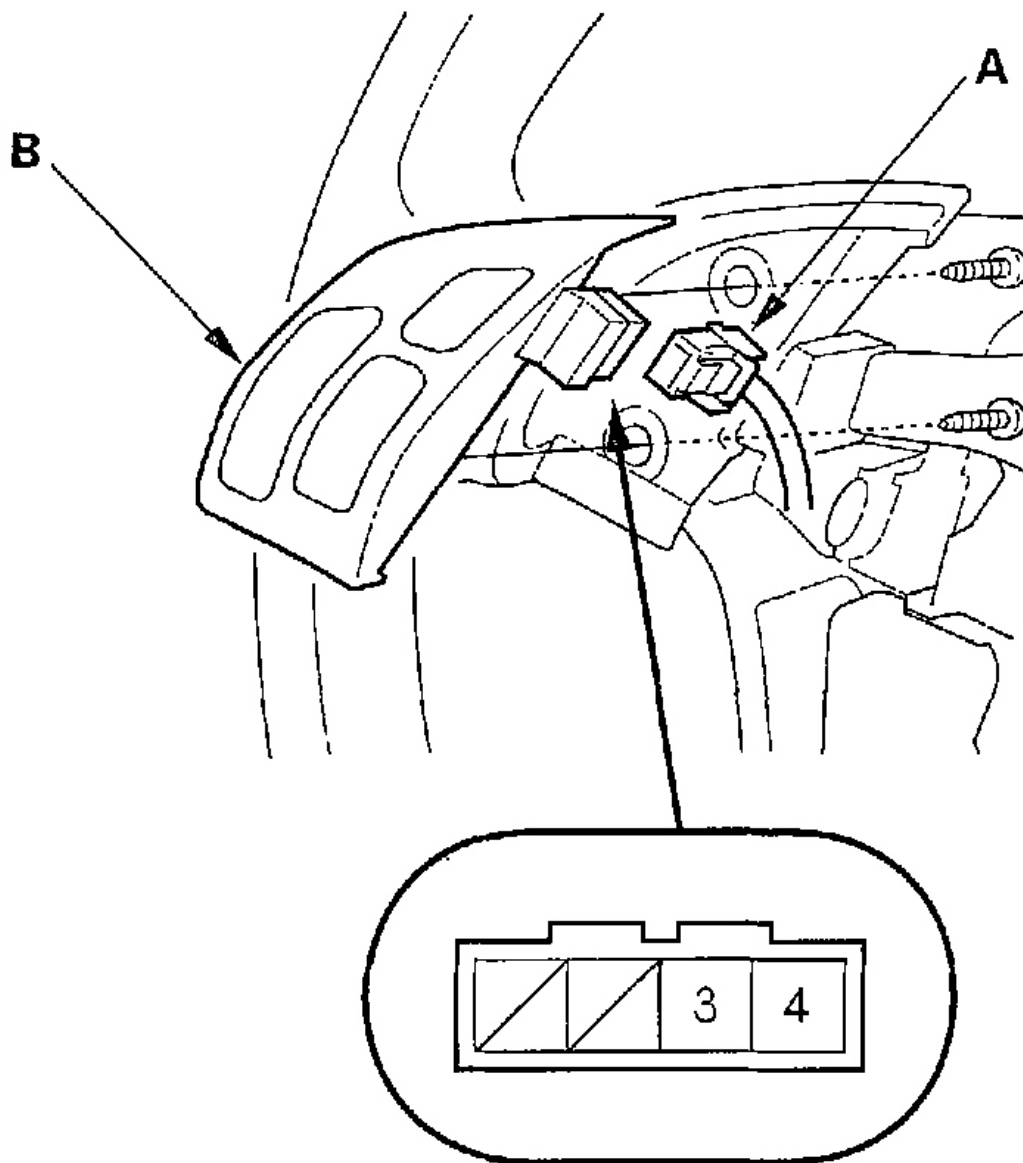
G01821112

Fig. 8: Removing The Rear Speaker

3. Disconnect the 2P connector (B), and remove the speaker.

RADIO REMOTE SWITCH TEST

1. Remove the driver's airbag assembly (see **AIR BAG RESTRAINT SYSTEMS**).
2. Remove the 4P connector (A) from the radio remote switch (B).



G01821113

Fig. 9: Removing The 4P Connector From The Radio Remote Switch

3. Remove the two mounting screws and the switch.
4. Measure resistance between the No. 3 and No. 4 terminals in each switch position according to the table. See **Fig. 10**.

Position	Resistance
OFF	About 10 k Ω
MODE	About 4 k Ω
CH (+)	About 2 k Ω
CH (—)	About 800 Ω
▲ (VOL. UP)	About 370 Ω
▼ (VOL. DOWN)	About 100 Ω

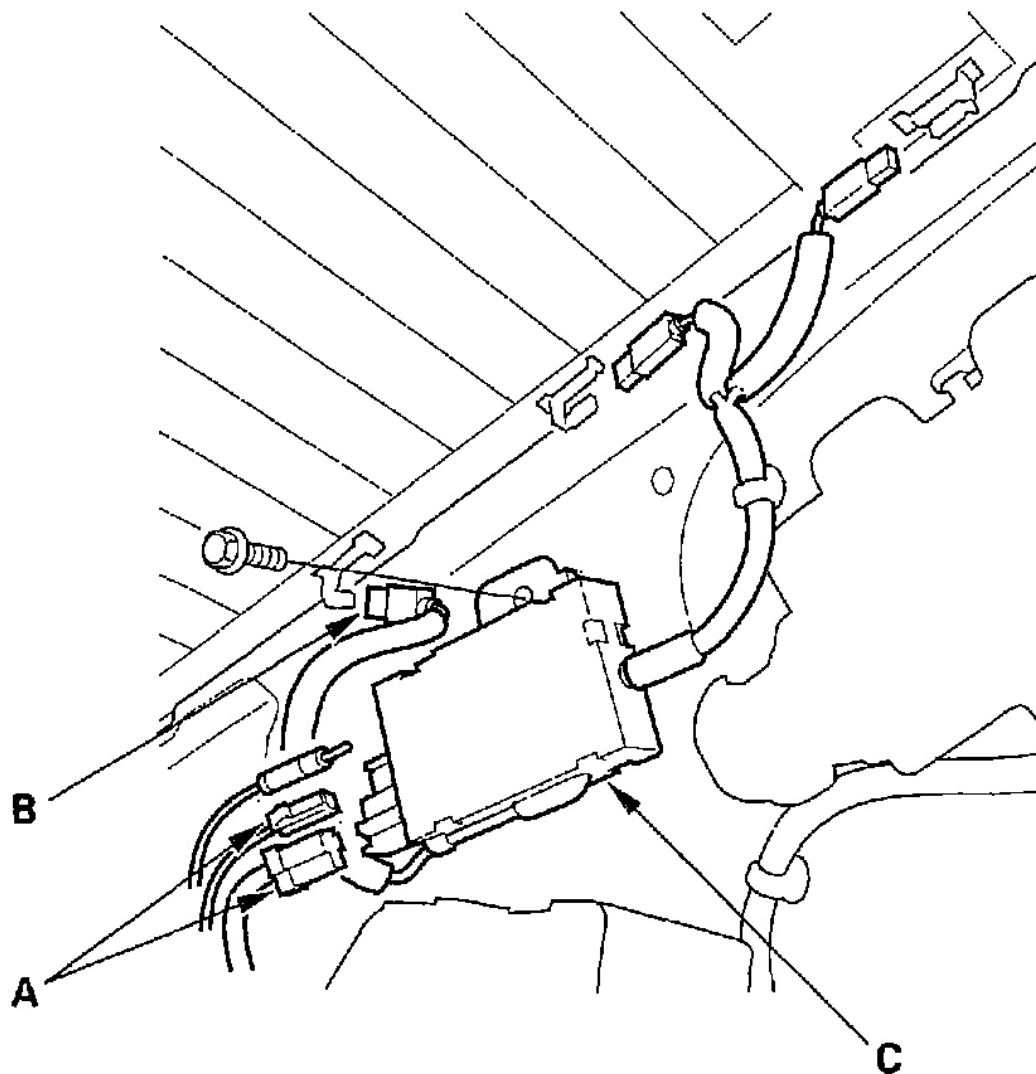
G01821114

Fig. 10: Radio Remote Switch Test Table

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

WINDOW ANTENNA AMPLIFIER/DEFOGGER COIL REPLACEMENT

1. Remove the left rear pillar trim (see **TRIM REMOVAL/INSTALLATION - REAR SHELF AREA**).
2. Disconnect the 1P connectors (A) the antenna cable (B), from the window antenna coil (C).



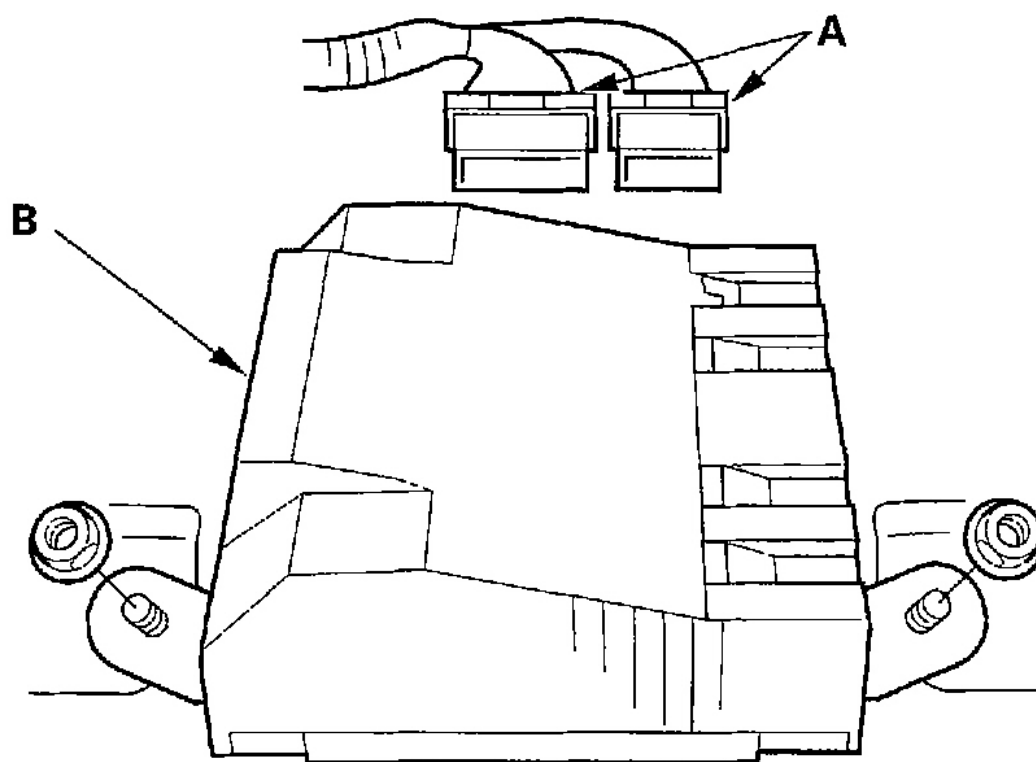
G01821115

Fig. 11: Removing The Window Antenna Amplifier/Defogger Coil

3. Remove the bolt and the window antenna amplifier/defogger coil.

STEREO AMPLIFIER REPLACEMENT

1. Remove the center console pocket (see **CENTER CONSOLE REMOVAL/INSTALLATION**).
2. Disconnect the connectors (A) from the stereo amplifier (B).



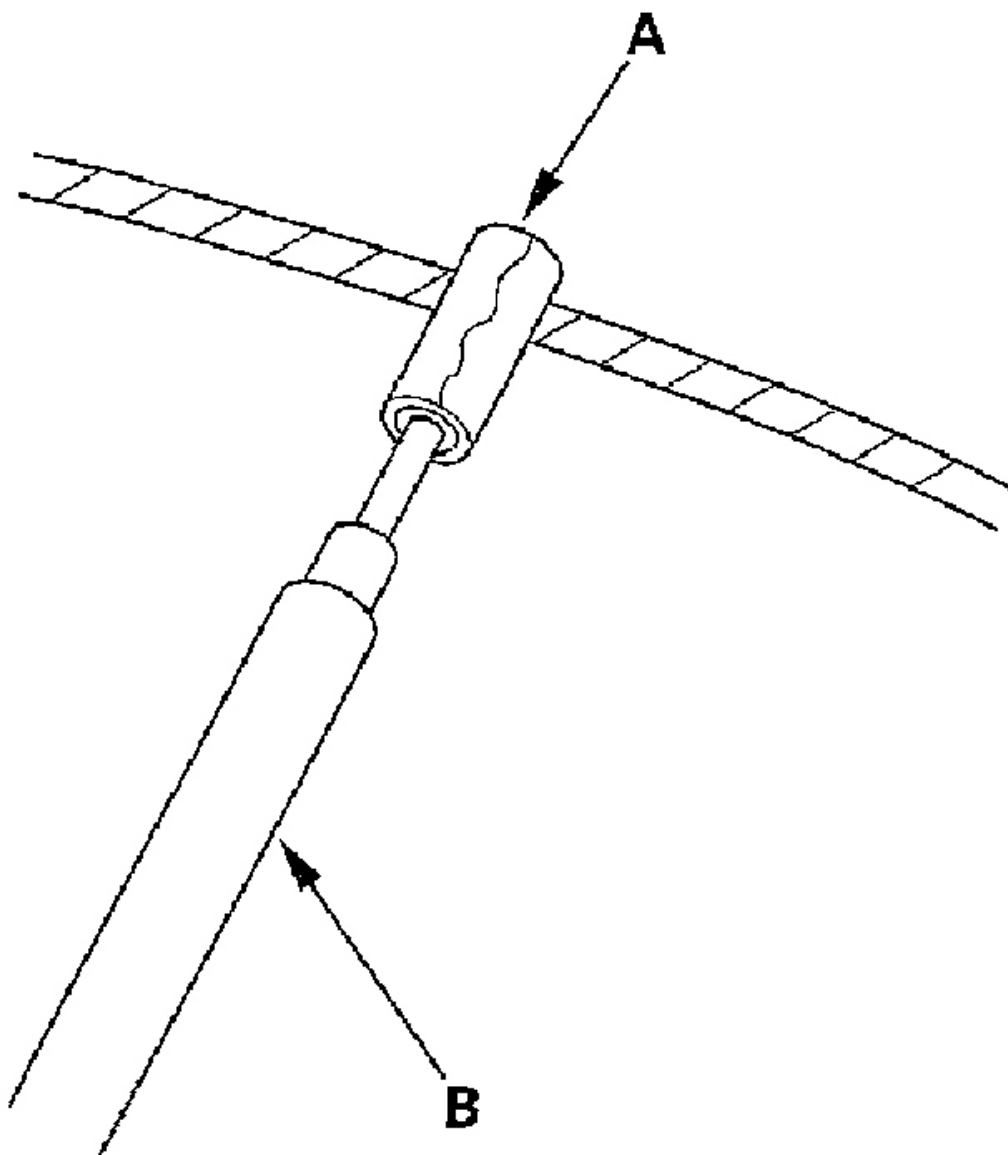
G01821116

Fig. 12: Removing The Stereo Amplifier

3. Remove the nuts and the stereo amplifier.

WINDOW ANTENNA TEST

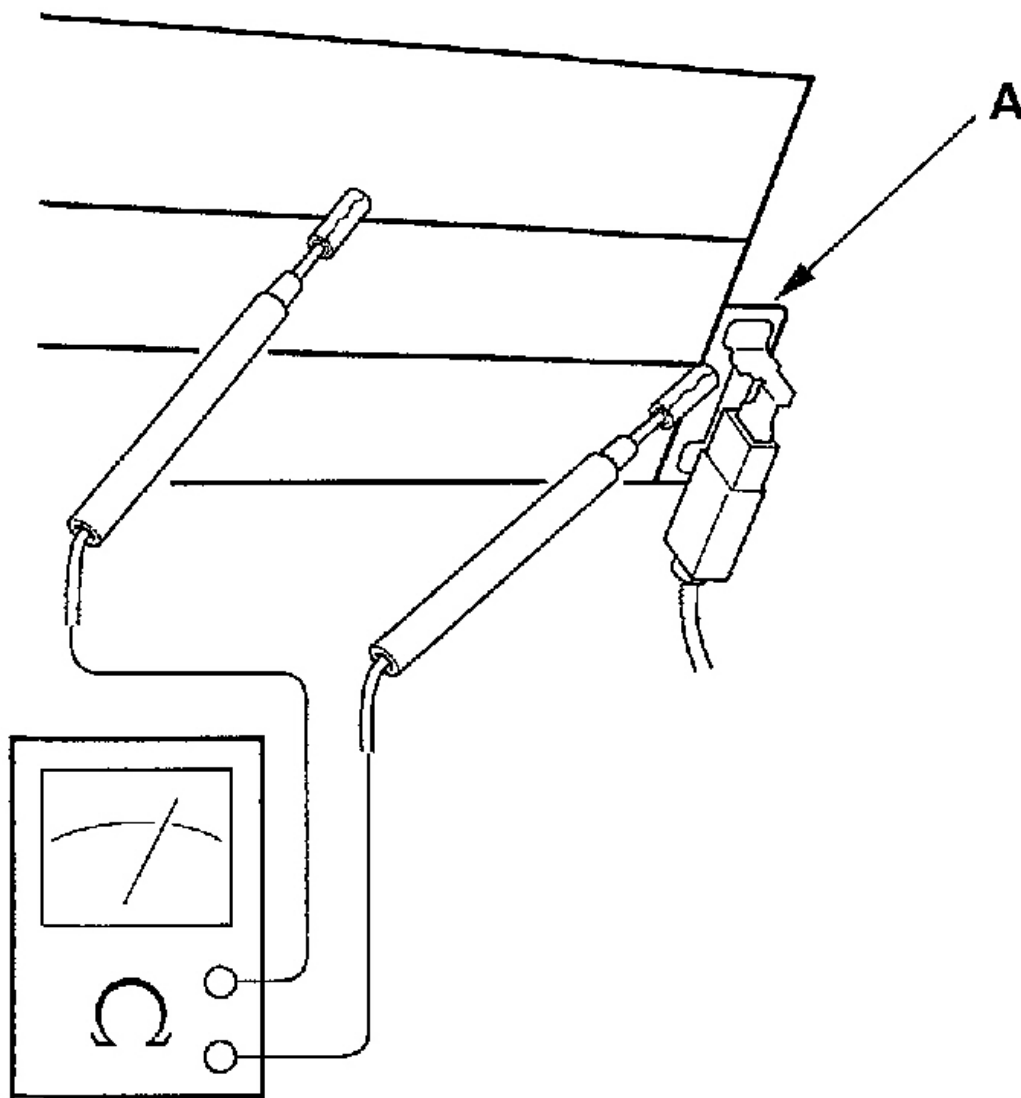
1. Wrap aluminum foil (A) around the tip of the tester probe (B) as shown.



G01821117

Fig. 13: Wrapping Aluminum Foil Around The Tip Of The Tester Probe

2. Touch one tester probe to the window antenna terminal (A), and move the other tester probe along the antenna wires to check that continuity exists. Repair the window antenna if continuity does not exist.

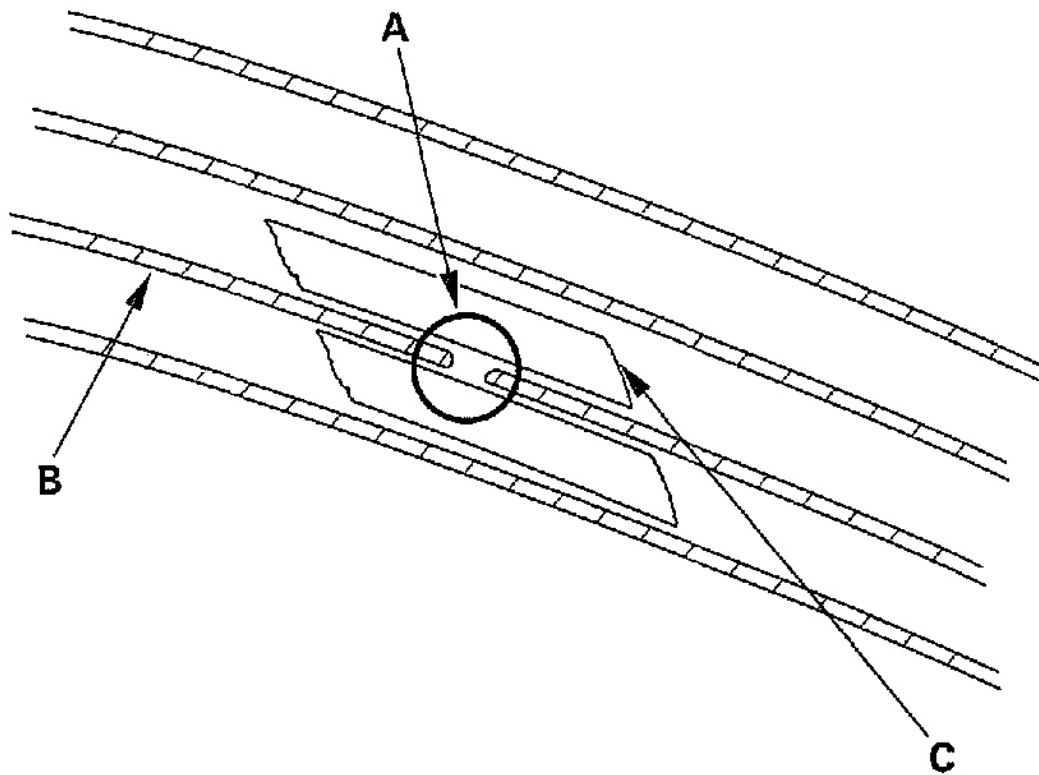


G01821118

Fig. 14: Window Antenna Test**WINDOW ANTENNA REPAIR**

NOTE: To make an effective repair, the broken section must be no longer than one inch.

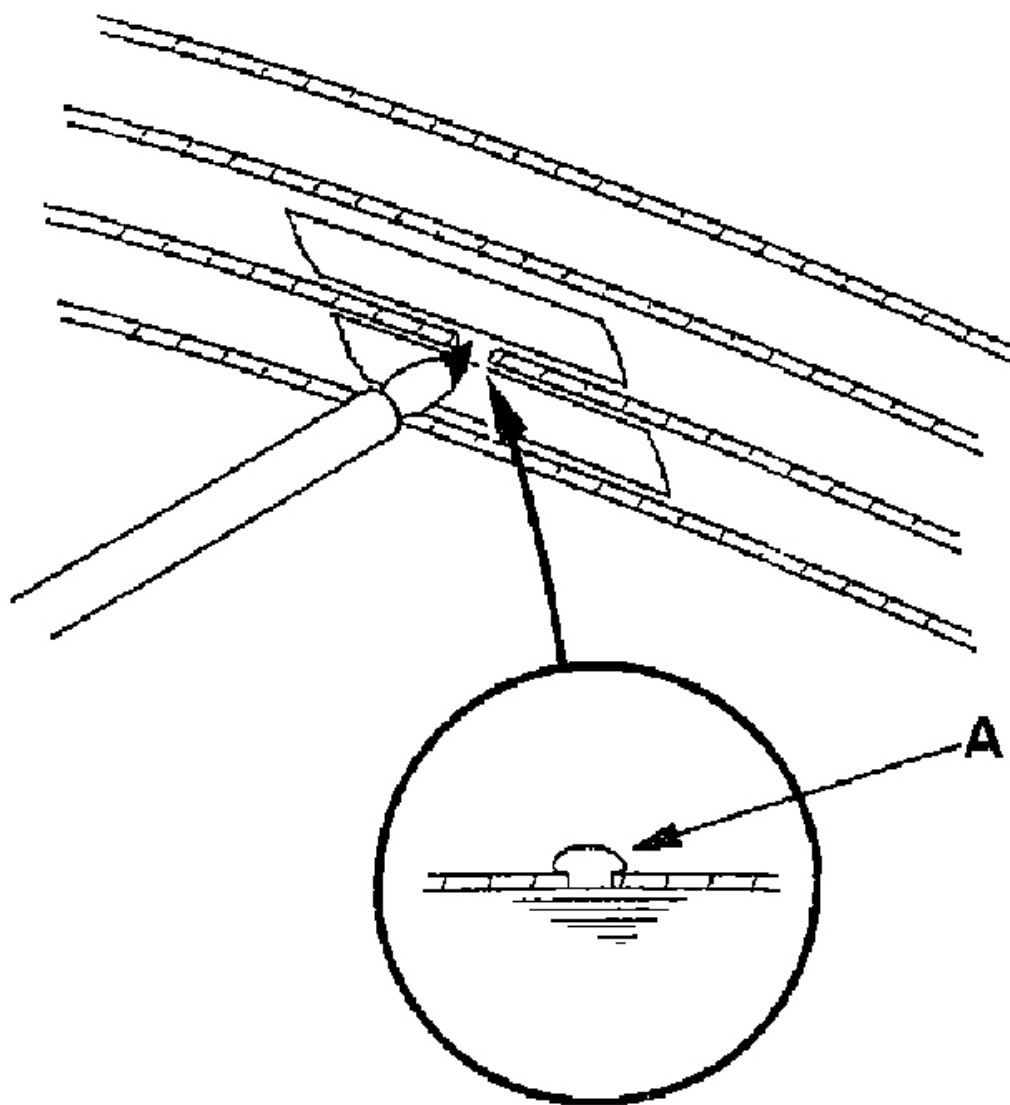
1. Lightly rub the area around the broken section (A) with fine steel wool, then clean it with alcohol.



G01821119

Fig. 15: Cleaning & Masking Repair Area

2. Carefully mask above and below the broken portion of the window antenna wire (B) with cellophane tape (C).
3. Mix the silver conductive paint thoroughly. Using a small brush, apply a heavy coat of paint (A) extending about 1/8" on both sides of the break. Allow 30 minutes to dry.



G01821120

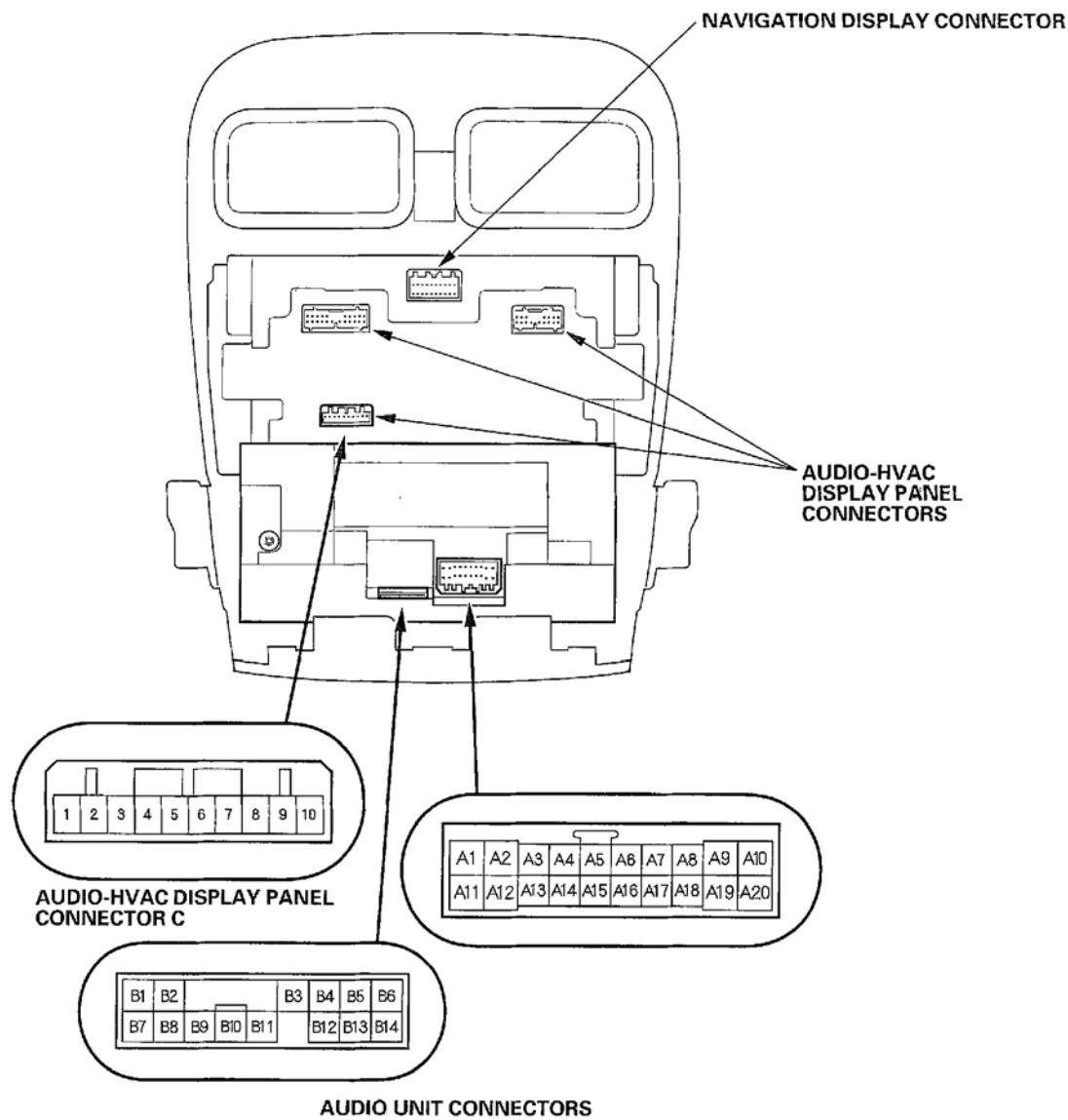
Fig. 16: Applying A Heavy Coat Of Silver Conductive Paint

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

AUDIO UNIT CONNECTOR REPLACEMENT

WITH NAVIGATION

When replacing an audio unit connector, match the wires to the cavities listed in the following tables. See **Fig. 17** through **Fig. 20**.



G01821121

Fig. 17: Identifying Connectors & Terminals (With Navigation)

2004 Acura TSX

2004 ACCESSORIES & EQUIPMENT Audio System - TSX

Cavity	Wire	Connect to	Cavity	Wire	Connect to
A1	YEL/GRN	Radio switch (Amp.)	A11	BRN	Radio remote switch ground
A2	YEL/RED	ACC (main stereo power supply)	A12	BLU/RED	Navigation unit (RG GND)
A3	GRN/RED	Radio remote switch	A13	WHT	Navigation unit (RG L+)
A4	RED/WHT	(Security input)	A14	—	Not used
A5	LT GRN	Stereo amplifier (Right rear speaker (+))	A15	PUR	Stereo amplifier (Right rear speaker (-))
A6	BLU	Stereo amplifier (Left rear speaker (+))	A16	PNK	Stereo amplifier (Left rear speaker (-))
A7	BLU	Stereo amplifier (Front passenger's door speaker (+), Right tweeter (+))	A17	RED	Stereo amplifier (Front passenger's door speaker (-), Right tweeter (-))
A8	RED/BLU	Stereo amplifier (Driver's door speaker (+), Left tweeter (+))	A18	YEL	Stereo amplifier (Driver's door speaker (-), Left tweeter (-))
A9	RED/BLK	Lights-on signal	A19	RED	Dash lights brightness controller
A10	WHT/BLU	Constant power	A20	BLK	Ground (G504)

G01821122

Fig. 18: Identifying Audio Unit Connector A Terminal Wiring Table

Cavity	Wire	Connect to	Cavity	Wire	Connect to
B1	—	Not used	B8	—	Not used
B2	—	Not used	B9	BLU/RED	BUS (+)
B3	BLK	Ground (BUS)	B10	WHT	BUS (-)
B4	—	Not used	B11	—	Not used
B5	—	Not used	B12	—	Not used
B6	—	Not used	B13	—	Not used
B7	—	Not used	B14	—	Not used

G01821123

Fig. 19: Identifying Audio Unit Connector B Terminal Wiring Table

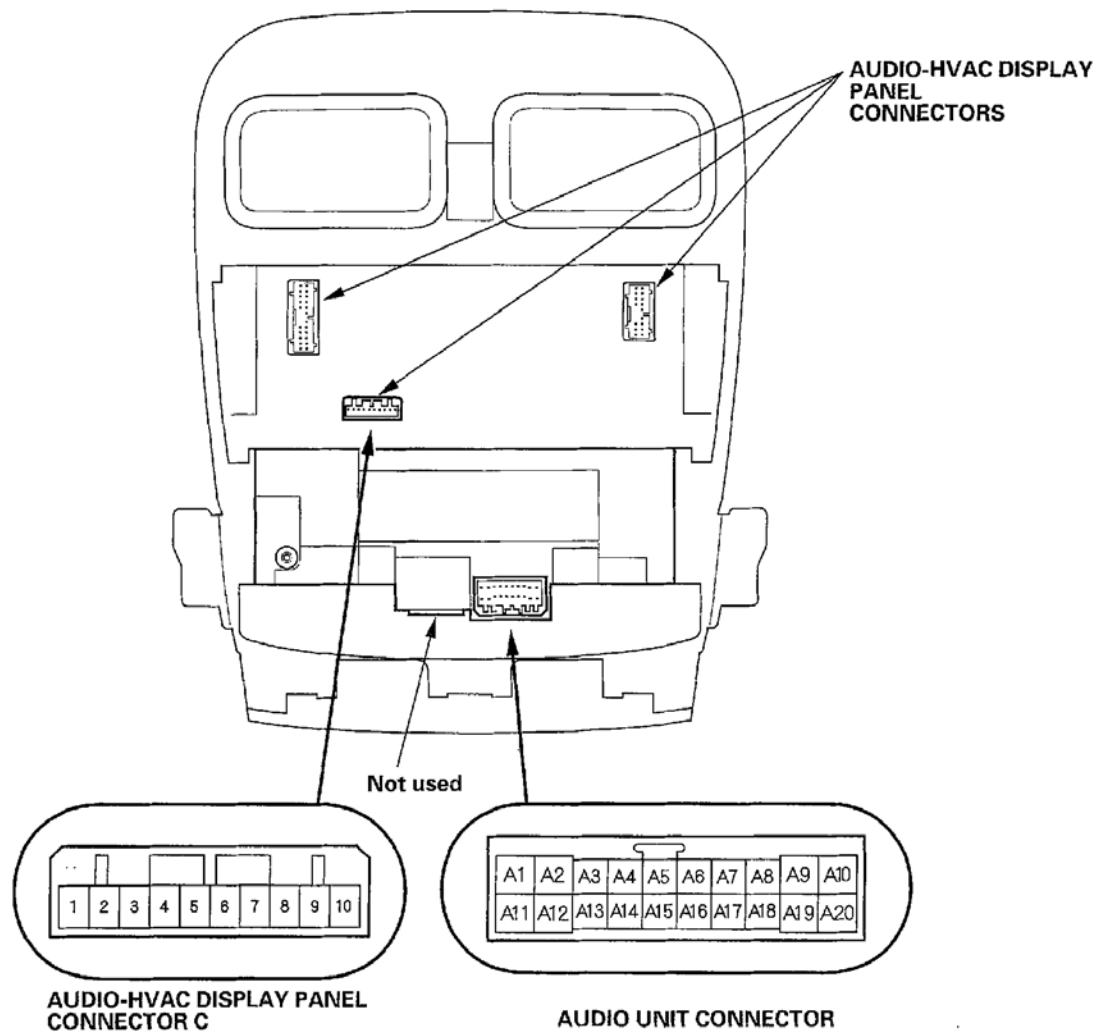
Cavity	Wire	Connect to	Cavity	Wire	Connect to
C1	BLK	Audio-HVAC subdisplay ground (5V)	C6	BLU/RED	Audio-HVAC subdisplay data signal line
C2	BLU/ORN	Audio-HVAC subdisplay 5V signal line	C7	BLU	Audio-HVAC subdisplay CE signal line
C3	—	Not used	C8	GRY	Audio-HVAC subdisplay shielding ground
C4	YEL/RED	Audio-HVAC subdisplay reset signal line	C9	RED	Audio-HVAC subdisplay LCD (BL-) signal line
C5	YEL	Audio-HVAC subdisplay clock signal line	C10	GRN	Audio-HVAC subdisplay LCD (BL+) signal line

G01821124

Fig. 20: Identifying Audio-HVAC Display Panel Connector C Terminal Wiring Table

WITHOUT NAVIGATION

When replacing an audio unit connector, match the wires to the cavities listed in the following table. See **Fig. 21** through **Fig. 23**.



G01821125

Fig. 21: Identifying Connectors & Terminals (Without Navigation)

2004 Acura TSX

2004 ACCESSORIES & EQUIPMENT Audio System - TSX

Cavity	Wire	Connect to	Cavity	Wire	Connect to
A1	YEL/GRN	Radio switch (Amp.)	A11	BRN	Radio remote switch ground
A2	YEL/RED	ACC (main stereo power supply)	A12	BLU/RED	Navigation unit (RG GND)
A3	GRN/RED	Radio remote switch	A13	WHT	Navigation unit (RG L+)
A4	RED/WHT	(Security input)	A14	—	Not used
A5	LT GRN	Stereo amplifier (Right rear speaker (+))	A15	PUR	Stereo amplifier (Right rear speaker (-))
A6	BLU	Stereo amplifier (Left rear speaker (+))	A16	PNK	Stereo amplifier (Left rear speaker (-))
A7	BLU	Stereo amplifier (Front passenger's door speaker (+), Right tweeter (+))	A17	RED	Stereo amplifier (Front passenger's door speaker (-), Right tweeter (-))
A8	RED/BLU	Stereo amplifier (Driver's door speaker (+), Left tweeter (+))	A18	YEL	Stereo amplifier (Driver's door speaker (-), Left tweeter (-))
A9	RED/BLK	Lights-on signal	A19	RED	Dash lights brightness controller
A10	WHT/BLU	Constant power	A20	BLK	Ground (G504)

G01821126

Fig. 22: Identifying Audio Unit Connector A Terminal Wiring Table

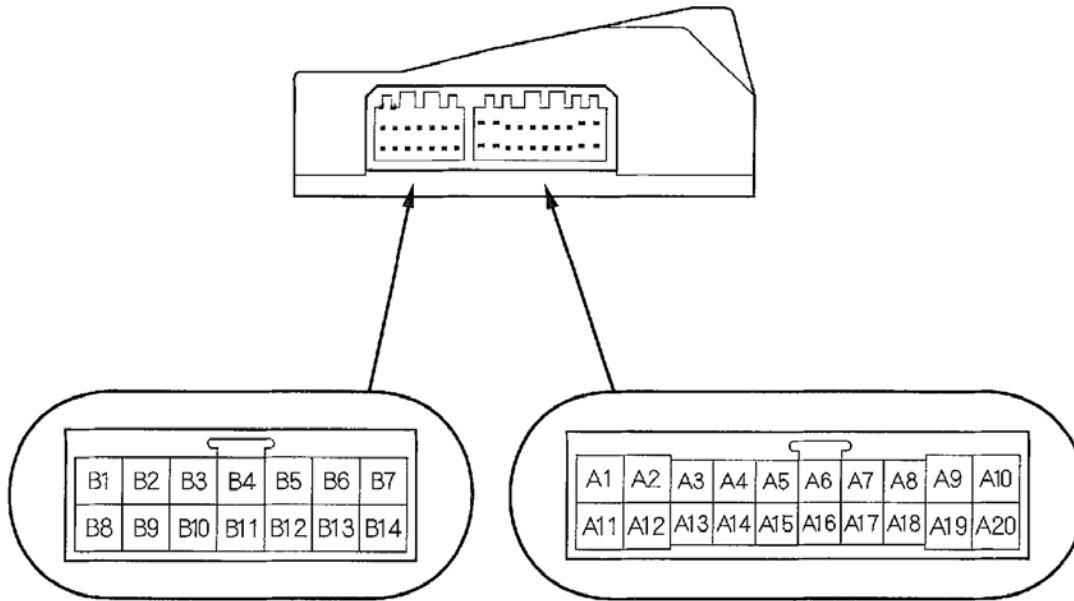
Cavity	Wire	Connect to	Cavity	Wire	Connect to
C1	BLK	Clock ground (5V)	C6	BLU/RED	Clock data signal line
C2	BLU/ORN	Clock 5V signal line	C7	BLU	Clock CE signal line
C3	—	Not used	C8	GRY	Clock shielding ground
C4	YEL/RED	Clock reset signal line	C9	RED	Clock LCD (BL -) signal line
C5	YEL	Clock clock signal line	C10	GRN	Clock LCD (BL +) signal line

G01821127

Fig. 23: Identifying Audio-HVAC Display Panel Connector C Terminal Wiring Table

STEREO AMPLIFIER CONNECTOR REPLACEMENT

When replacing the stereo amplifier connector, match the wires to the cavities listed in the following tables. **Fig. 24** through **Fig. 26**.



G01821128

Fig. 24: Identifying Connectors & Terminals

Cavity	Wire	Connect to	Cavity	Wire	Connect to
A1	BLK/RED	Right tweeter (+)	A11	PNK/BLK	Right tweeter (-)
A2	GRN/YEL	Front passenger's door speaker (+)	A12	GRY/RED	Front passenger's door speaker (-)
A3	GRN/BLK	Driver's door speaker (+)	A13	LT GRN	Driver's door speaker (-)
A4	BLU/ORN	Left tweeter (+)	A14	GRY/BLU	Left tweeter (-)
A5	PNK	Right rear speaker (+)	A15	BLU/YEL	Right rear speaker (-)
A6	WHT	Left rear speaker (+)	A16	GRN	Left rear speaker (-)
A7	BLU/RED	Right rear door speaker (+)	A17	BLU/ORN	Right rear door speaker (-)
A8	PNK/BLU	Left rear door speaker (+)	A18	PUR	Left rear door speaker (-)
A9	YEL/RED	ACC (main stereo power supply)	A19		Not used
A10	WHT/BLU	Constant power	A20	BLK	Ground (G504)

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Fig. 25: Identifying Stereo Amplifier Connector A Terminal Wiring Table

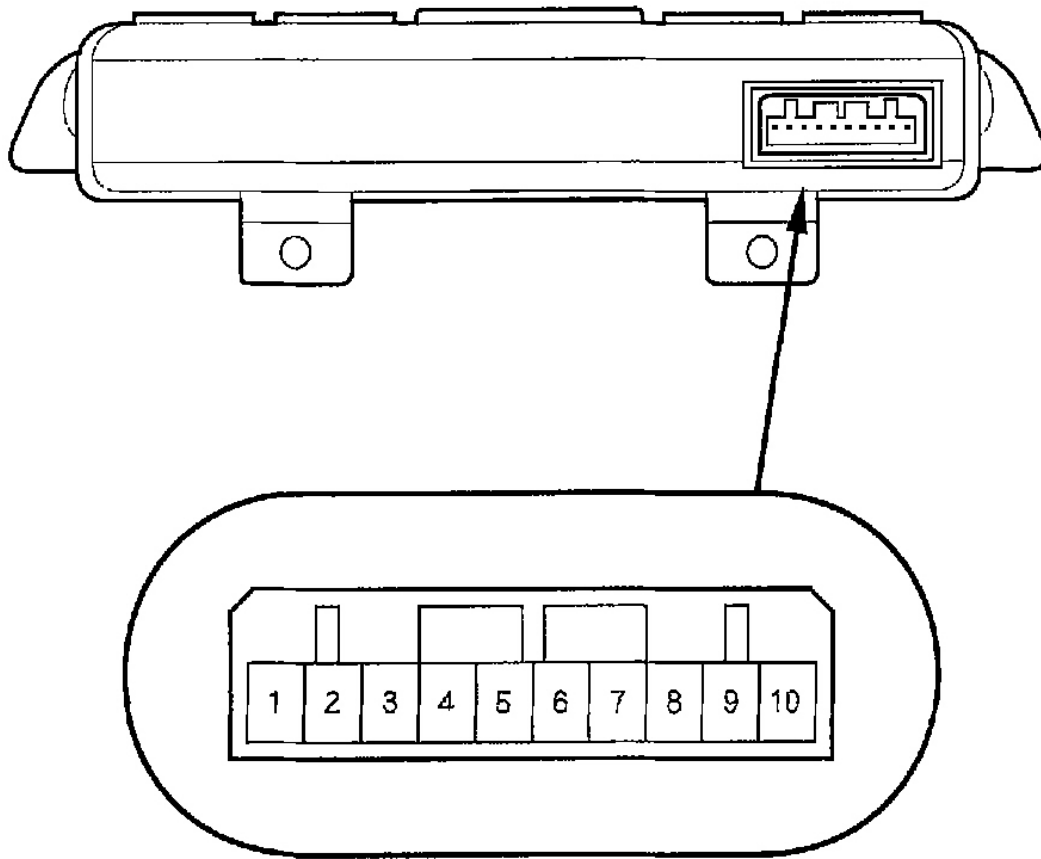
Cavity	Wire	Connect to	Cavity	Wire	Connect to
B1	RED/BLU	Audio unit (Driver's door speaker (+))	B8	YEL	Audio unit (Driver's door speaker (-))
B2	BRN/YEL	Front passenger's shielding	B9	GRY/BLU	Left rear shielding
B3	BLU	Audio unit (Left rear speaker (+))	B10	PNK	Audio unit (Left rear speaker (-))
B4	BLU	Audio unit (Front passenger's door speaker (+))	B11	RED	Audio unit (Front passenger's door speaker (-))
B5	BRN	Driver's shielding	B12	GRY	Right rear shielding
B6	LT GRN	Audio unit (Right rear speaker (+))	B13	PUR	Audio unit (Right rear speaker (-))
B7	YEL/GRN	Audio unit (Radio switch)	B14	BLK	Ground (G504)

G01821130

Fig. 26: Identifying Stereo Amplifier Connector B Terminal Wiring Table

AUDIO-HVAC SUBDISPLAY/CLOCK CONNECTOR REPLACEMENT

When replacing an audio unit connector, match the wires to the cavities listed in the following table. See **Fig. 27** and **Fig. 28**.



G01821131

Fig. 27: Identifying Connectors & Terminals (With Navigation)

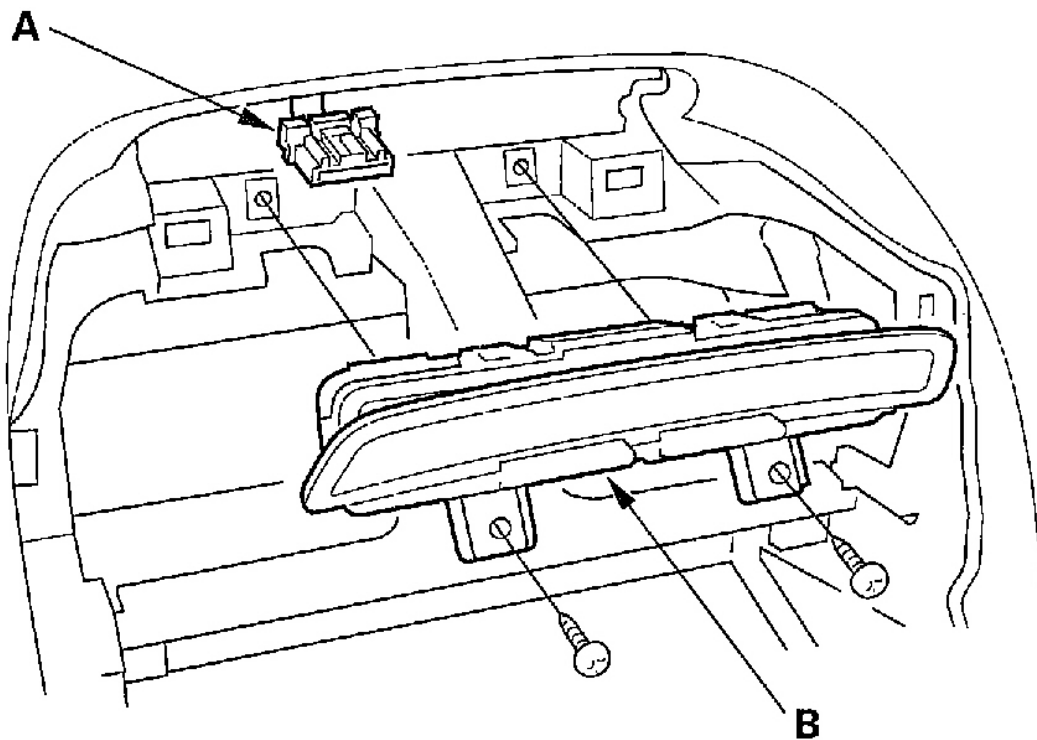
Cavity	Wire	Connect to	Cavity	Wire	Connect to
1	BLK	GND (5 V)	6	BLU/RED	DATA
2	BLU/ORN	5 V	7	BLU	CE (LOAD)
3	BLK	GND	8	GRY	SHIELDING GND
4	YEL/RED	RESET	9	RED	LCD BACKLIGHT (+)
5	YEL	CLOCK	10	GRN	LCD BACKLIGHT (-)

G01821132

Fig. 28: Identifying Audio-HVAC Subdisplay/Clock Connector Terminal Wiring Table

AUDIO-HVAC SUBDISPLAY/CLOCK REPLACEMENT

1. Remove the Audio-HVAC Display Module (see [AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION](#)).
2. Remove the two mounting screws.
3. Disconnect the 10P connector (A) from the sub display unit (B).



G01821133

Fig. 29: Removing Audio-HVAC Subdisplay/Clock

4. Install in the reverse order of removal.

AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION

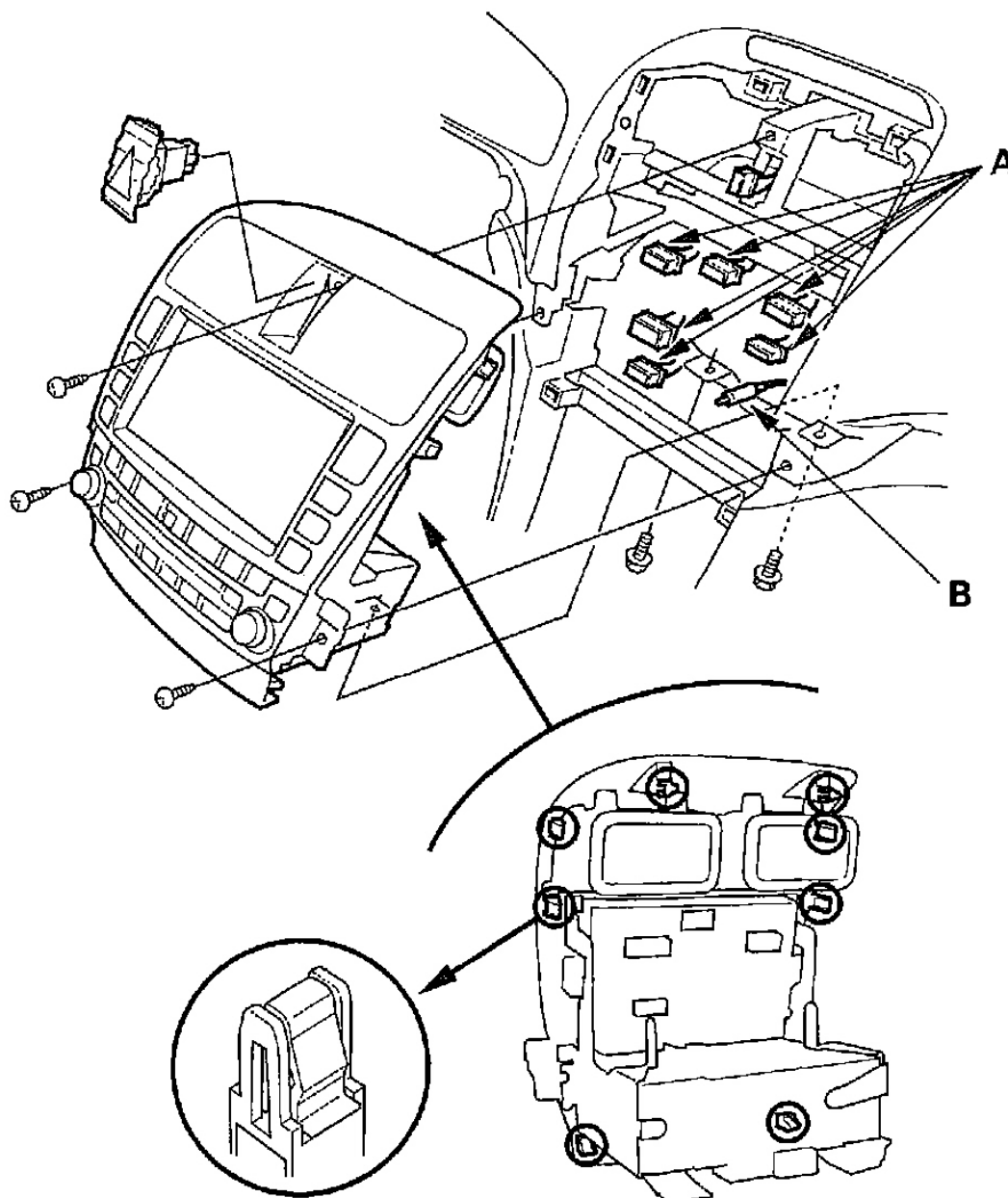
SRS components are located in this area. Review the SRS component locations, and the precautions and procedures in the SRS before performing repairs or service. See [AIR BAG RESTRAINT SYSTEMS](#) .

NOTE:

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

- Lay a workshop towel under the parts when working on them to protect the face panel from scratches or other damage.
- Do not work in a dusty or dirty environment.
- Discharge static electricity from your body before and during the work.
- Do not touch the circuit board with your bare hands.
- Be careful not to fold the flat plate cable.
- Do not touch the terminal connector of the flat plate cable with your bare hands. (If you have touched it, wipe it off thoroughly.)

1. Make sure you have the anti-theft codes for the radio and navigation system, then write down the frequencies for the radio's preset buttons.
2. Remove the driver's inner dashboard trim (see **DRIVER'S INNER DASHBOARD TRIM REMOVAL/INSTALLATION**) and passenger's dashboard trim (see **PASSENGER'S DASHBOARD TRIM REMOVAL/INSTALLATION**).
3. Remove the hazard warning switch.
4. Remove the screws and bolts. Disconnect the audio-HVAC-display module connectors (A) and the antenna lead (B), then remove the audio-HVAC display module.



G01821134

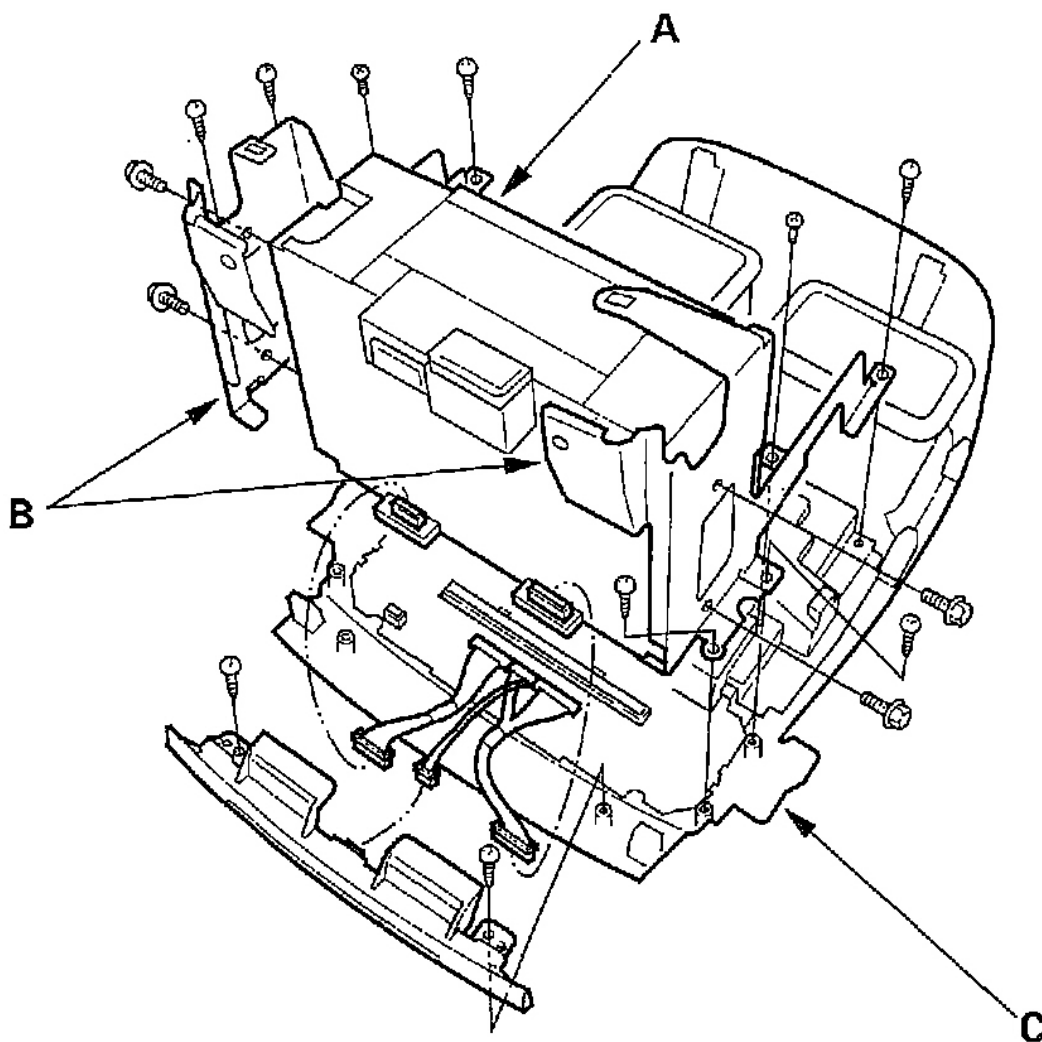
Fig. 30: Removing Audio-HVAC Display Module

5. Install the audio-HVAC-display module and note these items:
 - Make sure all connectors are secure.
 - Enter the anti-theft codes for the radio, then enter the customer's radio station presets, and set the clock.

- If need, enter the navigation system code.

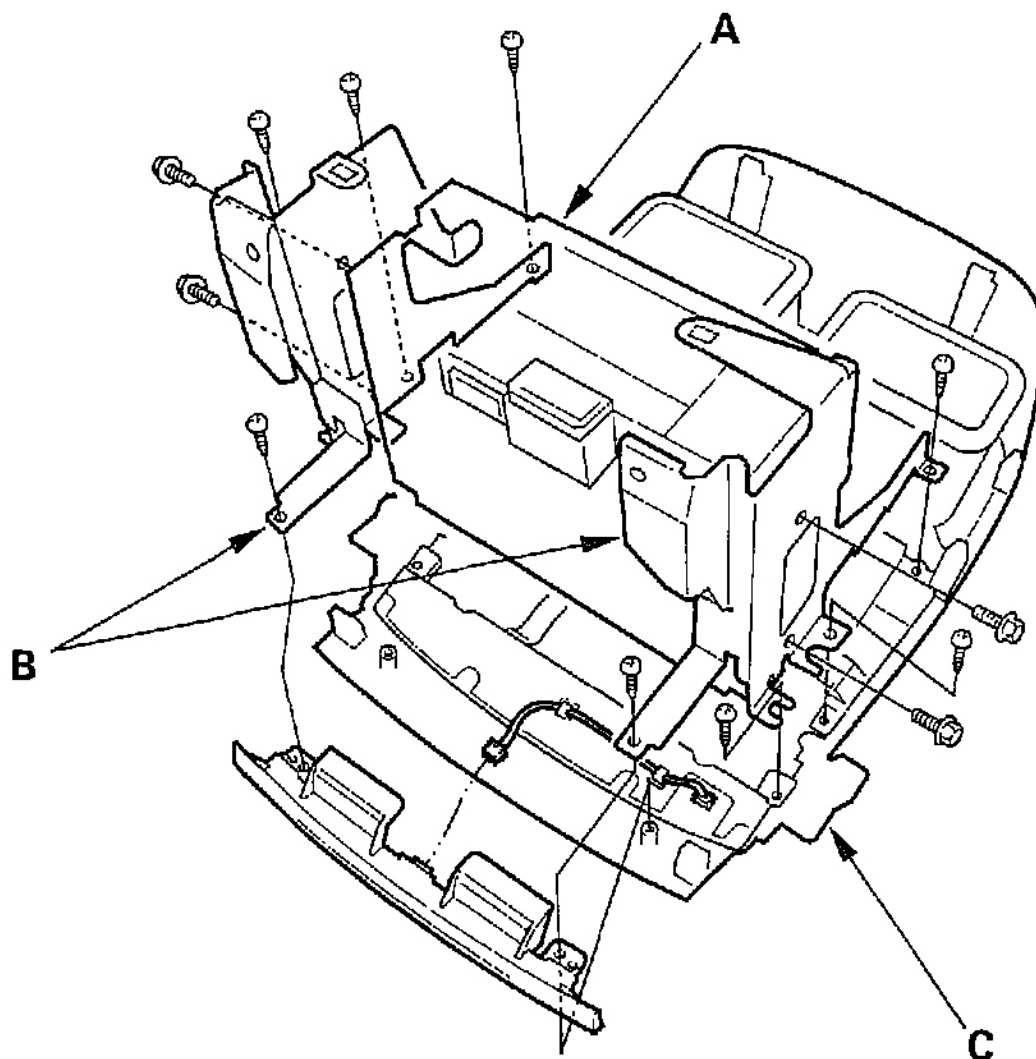
AUDIO-HVAC DISPLAY PANEL REMOVAL/INSTALLATION

1. Remove the audio-HVAC display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**).
2. Remove the mounting screws and audio unit (A) from the radio bracket (B), and separate the audio unit from the audio-HVAC display panel (C).



G01821135

Fig. 31: Removing Audio-HVAC Display Panel (With Navigation)



G01821136

Fig. 32: Removing Audio-HVAC Display Panel (Without Navigation)

3. Install the audio unit and audio-HVAC display module in the reverse order of removal.

SYMPTOM TROUBLESHOOTING INDEX

Symptom	Diagnostic procedure	Also check for
Poor radio reception or interference	Symptom Troubleshooting	• Antenna lead short or open in the wire • Window antenna open
CD does not load	Symptom Troubleshooting	
Radio preset memory is lost	Symptom Troubleshooting	• Battery condition • Battery cable condition
CD does not play	Symptom Troubleshooting	
CD skips	Symptom Troubleshooting	Tire pressure (over inflated)
Audio system sound is weak or distorted, or no sound is heard from speakers	Symptom Troubleshooting	
CD does not eject	Symptom Troubleshooting	
Power switch will not turn ON	Symptom Troubleshooting	
Radio tuner does not change	Symptom Troubleshooting	
CD changer does not move between CDs	Symptom Troubleshooting	
Volume does not change	Symptom Troubleshooting	
CD changer does not load all six CDs	Symptom Troubleshooting	
Radio remote switch does not work properly	Symptom Troubleshooting	
Audio-HVAC subdisplay/clock does not display	Symptom Troubleshooting	
No display appears on the screen (without navigation)	Symptom Troubleshooting	
Security indicator does not work properly	Symptom Troubleshooting	

G01821137

Fig. 33: Symptom Troubleshooting Index Table

SYMPTOM TROUBLESHOOTING

POOR RADIO RECEPTION OR INTERFERENCE

NOTE: 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 high-voltage power line is nearby.

1. Check if each radio station can be received normally. Compare the radio reception/interference to another vehicle of the same model and trim level in the exact same conditions.

Are they the same?

YES: Operation is normal.

NO: Go to step 2.

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

Is the reception/interference the same?

YES: Go to step 3.

NO: Multipath interference or weak station. Operation is normal.

3. Check the reception/interference when the rear window defogger is on.

Is the reception poor with the rear window defogger on?

YES: Check for a break in the rear window defogger grid (see **REAR WINDOW DEFOGGER**), a poor connection, or a faulty antenna amplifier/defogger coil/noise condenser (see **WINDOW ANTENNA AMPLIFIER/DEFOGGER COIL REPLACEMENT**).

NO: Go to step 4.

4. Check to see if the problem is interference while the engine is running.

Is there noise (static or while) 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. Wrap aluminum foil (A) around the tip of a tester probe (B) as shown.

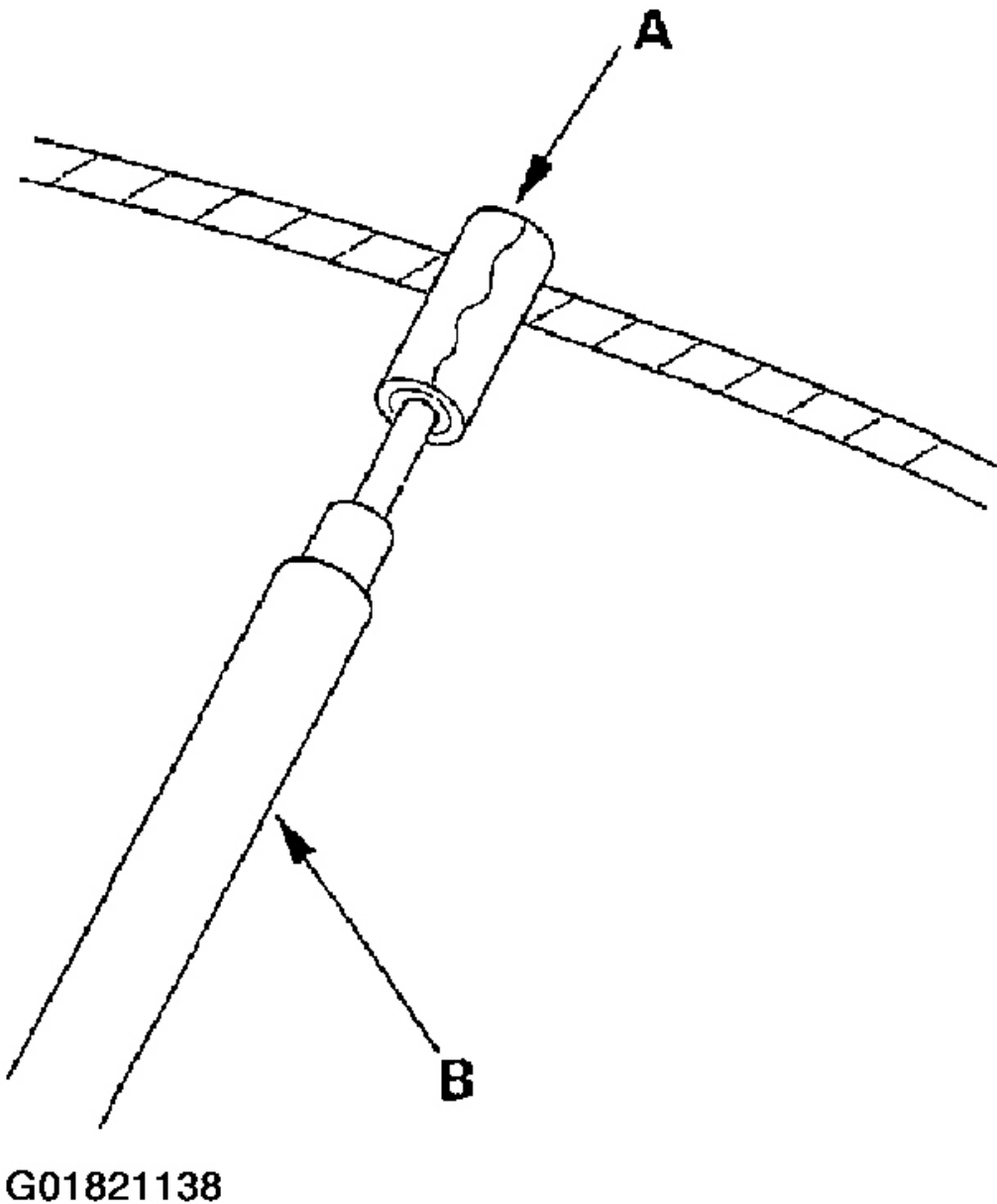


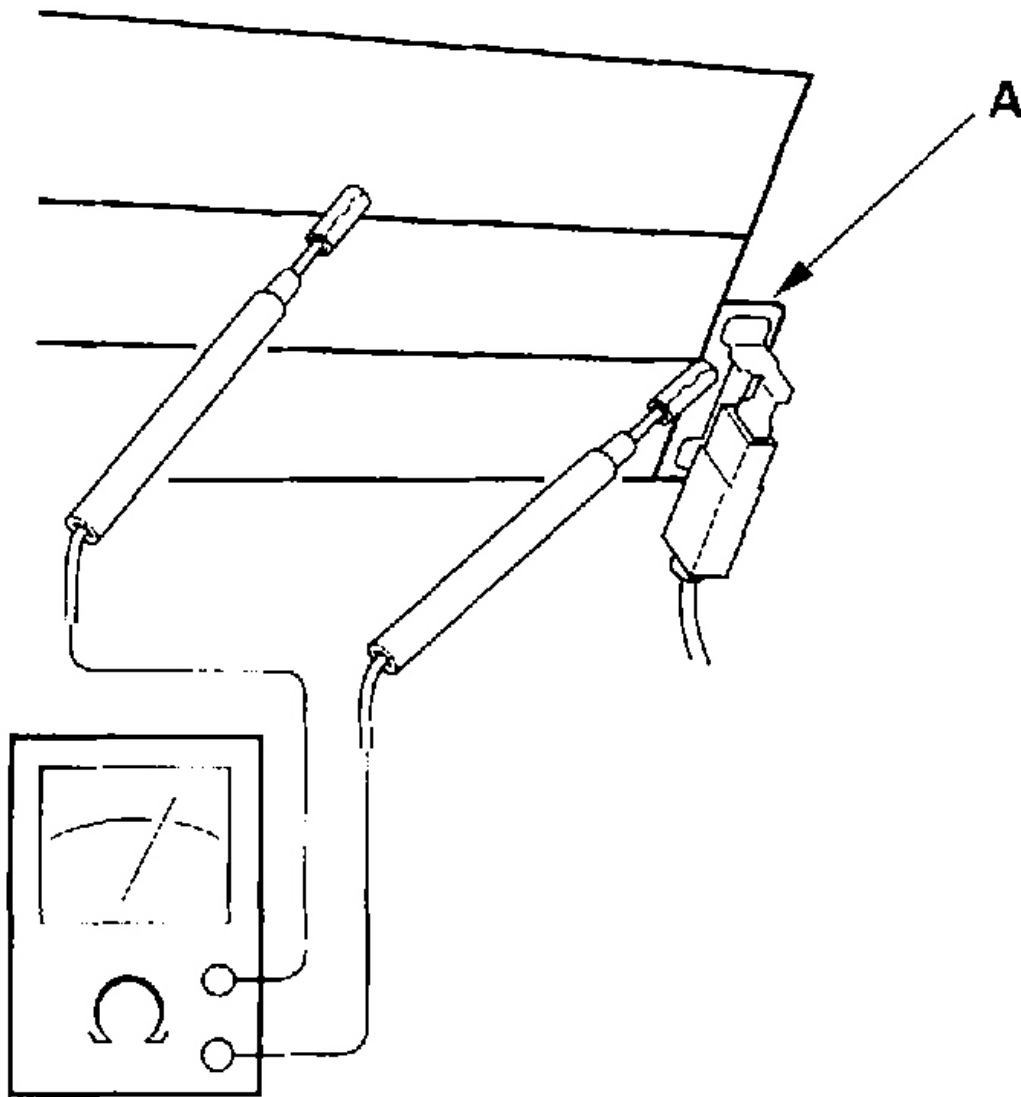
Fig. 34: Wrapping Aluminum Foil Around The Tip Of A Tester Probe

6. Check for continuity by touching one tester probe to the window antenna terminal (A), and move the other tester probe along the antenna wires.

Is there continuity in all sections of the antenna?

YES: Go to step 7.

NO: Repair the antenna wires (see **REAR WINDOW DEFOGGER**).



G01821139

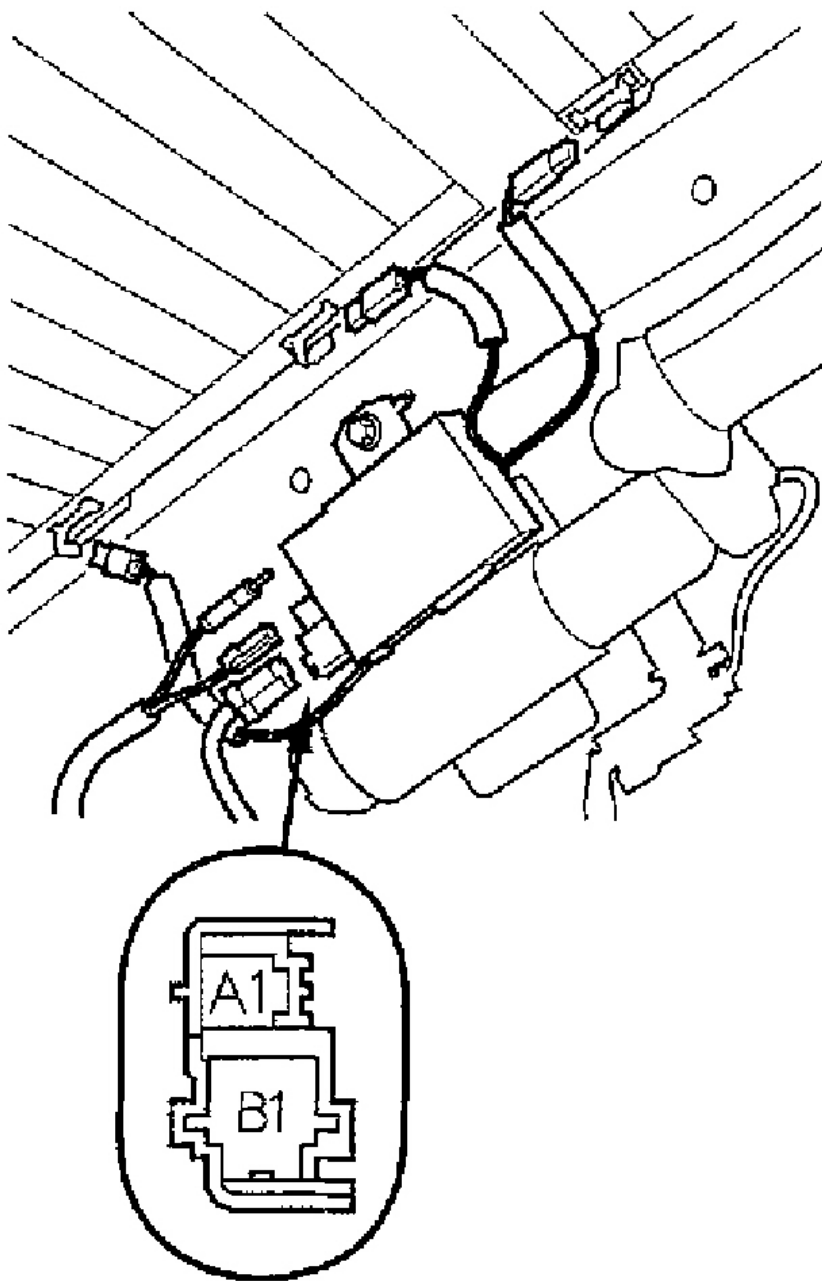
Fig. 35: Testing Window Antenna

7. Turn the radio ON, and measure the voltage between antenna amplifier connector A terminal 1 and body ground.

Is there 12 V?

YES: Go to step 8.

NO: Go to step 13 .



G01821140

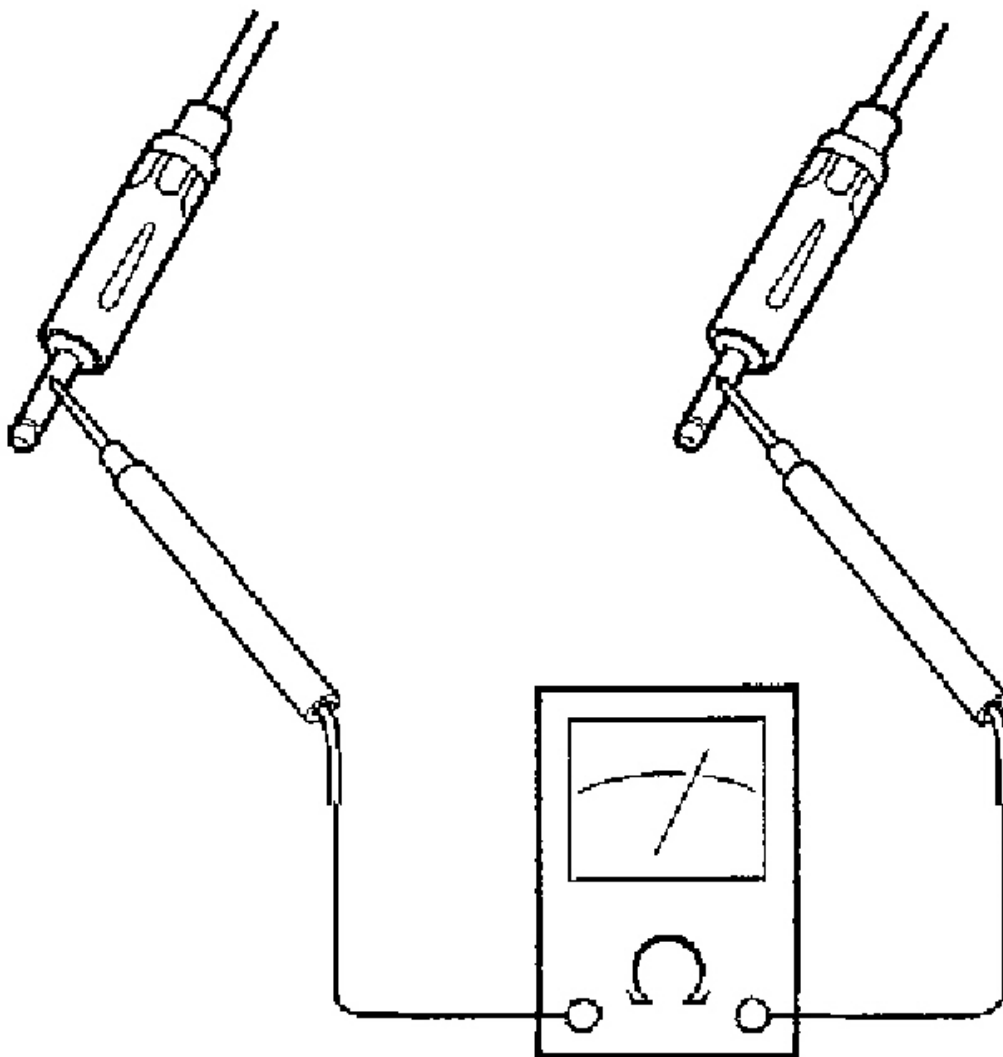
Fig. 36: Measuring The Voltage Between Antenna Amplifier Connector A Terminal 1 & Body Ground

8. Remove the audio-HVAC display module, and disconnect the antenna lead.
9. Disconnect the antenna lead from the antenna amplifier.
10. Check for continuity between the antenna cable center pin at the audio unit lead and the antenna cable center pin at the antenna amplifier lead.

Is there continuity?

YES: Go to step 11.

NO: Replace the antenna cable.



G01821141

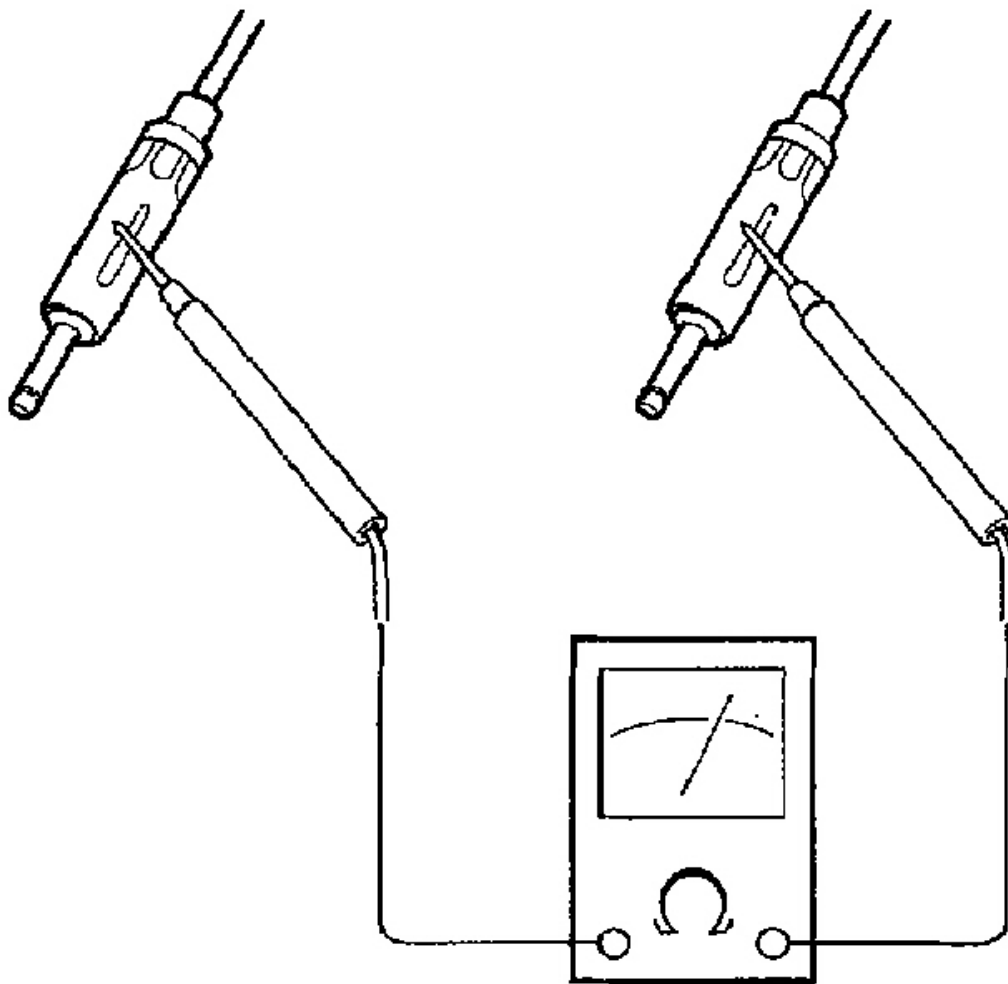
Fig. 37: Checking For Continuity Between The Antenna Cable Center Pin At The Audio Unit Lead & The Antenna Cable Center Pin At The Antenna Amplifier Lead

11. Check for continuity between the shield surface of the audio unit lead and the antenna cable shield surface of the antenna amplifier lead.

Is there continuity?

YES: Go to step 12.

NO: Replace the antenna cable.



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Fig. 38: Checking For Continuity Between The Shield Surface Of The Audio Unit Lead &

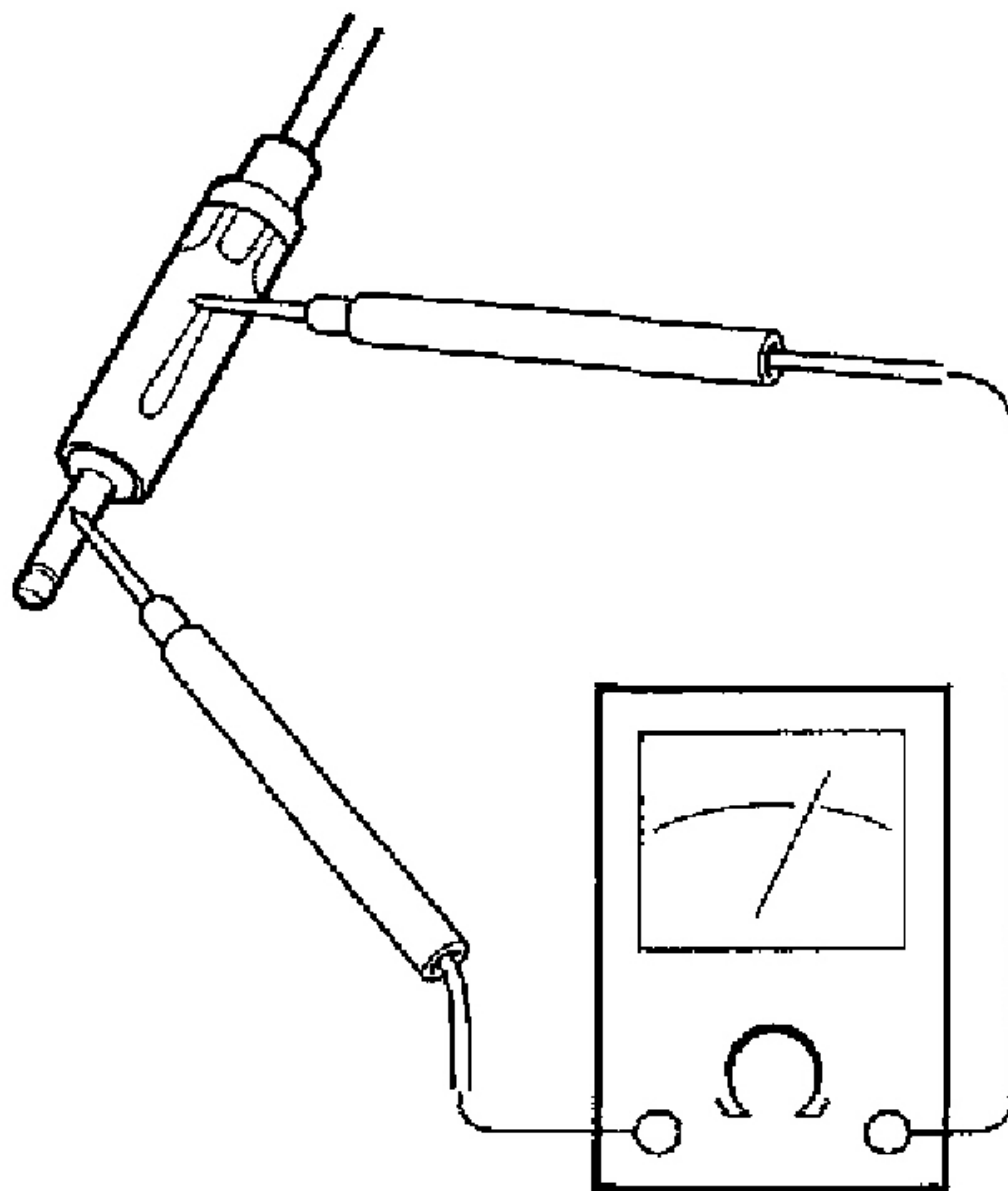
The Antenna Cable Shield Surface Of The Antenna Amplifier Lead

12. Check for continuity between the antenna cable center pin and the surface of the antenna lead.

Is there continuity?

YES: Replace the antenna cable.

NO: Replace the antenna amplifier and recheck. If the reception is still poor, replace the audio-HVAC display module.



G01821143

Fig. 39: Checking For Continuity Between The Antenna Cable Center Pin & The Surface Of The Antenna Lead

13. Remove the audio-HVAC-display module and disconnect the radio unit connector A (20P).
14. Check for continuity between audio unit connector A (20P) terminal No. 1 and antenna amplifier

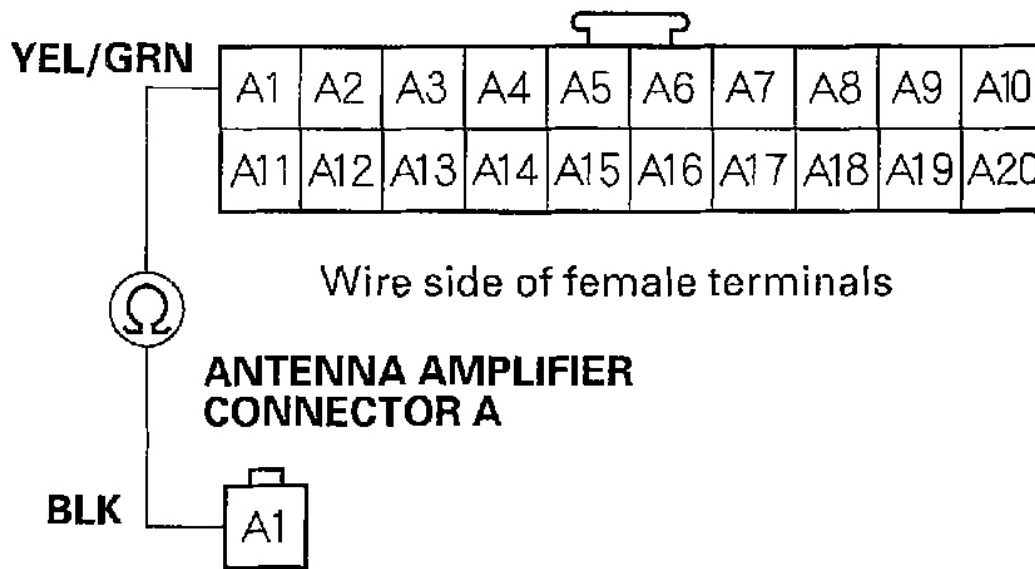
connector A terminal No. 1.

Is there continuity?

YES: Substitute a known-good audio-HVAC display module and retest.

NO: Repair the open in the wire between the audio unit and the antenna amplifier.

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

**ANTENNA AMPLIFIER
CONNECTOR A**

Wire side of female terminals

G01821144

Fig. 40: Checking For Continuity Between Audio Unit Connector A (20P) Terminal No. 1 & Antenna Amplifier Connector A Terminal No. 1

CD DOES NOT LOAD

1. Insert a CD to see if the symptom can be duplicated.

Does the CD load?

YES: Operation is normal. If the CD loads normally, but will not play, go to CD does not play (see **CD DOES NOT PLAY**).

NO: Go to step 2.

2. Insert another CD.

Does the CD load?

YES: The original CD is faulty.

NO: Replace audio-HVAC display module.

RADIO PRESET MEMORY IS LOST

1. Set each of the radio station preset buttons.

Do each of the preset buttons set properly?

YES: Go to step 2.

NO: Replace the audio-HVAC display module.

2. Turn the ignition switch OFF for 1 minute, then turn it back to ON (II).
3. Test all the preset buttons for proper recall operation.

Do the preset buttons recall the set radio stations?

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

NO: Go to step 4.

4. Inspect the under-dash fuse/relay box No. 6 (10A) fuse.

Is it OK?

YES: Go to step 5.

NO: Replace the fuse and reset. If it fails again, repair the short to ground in the harness.

5. Remove the audio-HVAC-display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**).
6. Turn the ignition switch ON (II).
7. Measure voltage between the audio unit connector A 10 terminal and body ground.

Is there battery voltage?

YES: Go to step 8.

NO: An open wire between the under-dash fuse/relay box and audio unit A10 terminal.

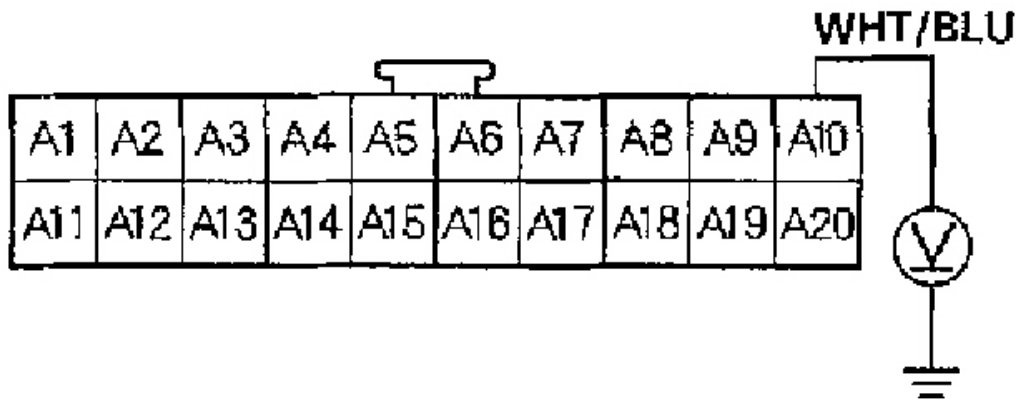
AUDIO UNIT CONNECTOR A (20P)**Wire side of female terminals****G01821145**

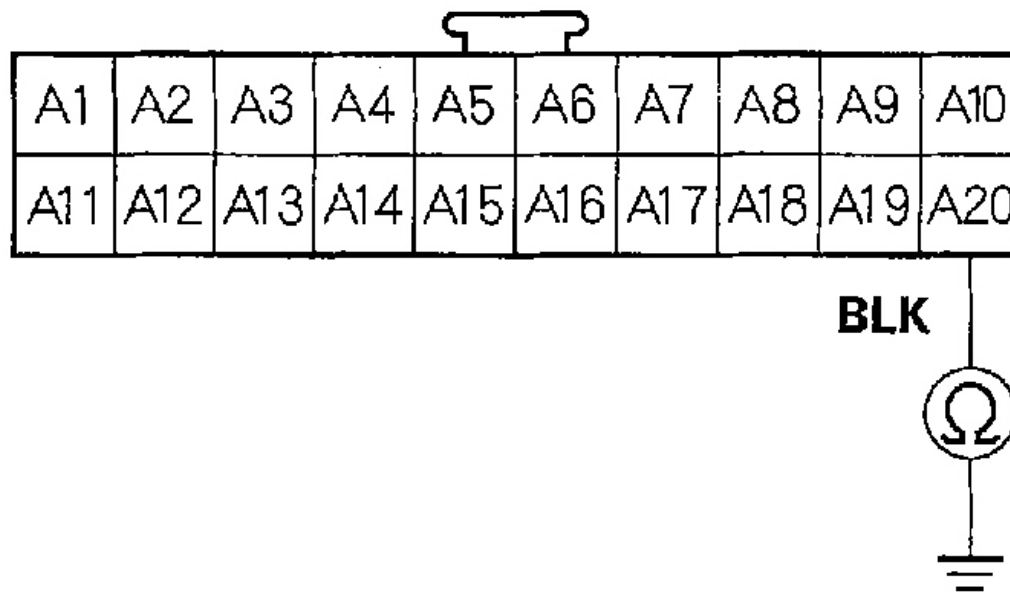
Fig. 41: Measuring Voltage Between The Audio Unit Connector A 10 Terminal & Body Ground

8. Check for continuity between the audio unit A20 terminal and body ground.

Is there continuity?

YES: Replace the audio-HVAC display module.

NO: An open wire between the audio unit A20 terminal and body ground (G504).

AUDIO UNIT CONNECTOR A (20P)

Wire side of female terminals

G01821146

Fig. 42: Checking For Continuity Between The Audio Unit A20 Terminal & Body Ground

CD DOES NOT PLAY

1. Try loading a CD.

Does the CD load?

YES: Go to step 2.

NO: Go to CD does not load (see **CD DOES NOT LOAD**).

2. Insert a CD to see if the symptom can be duplicated.

Does the CD play?

YES: Operation is normal.

NO: Go to step 3.

3. Insert another CD.

Does the CD play?

YES: The original CD is faulty.

NO: Replace the audio unit.

CD SKIPS

1. Confirm that the tires are properly inflated.
2. Check the system for when the skipping occurs.

Does the skipping only occur on rough roads?

YES: Go to step 4 .

NO: Go to step 3.

3. Check the CD for damage.

Is the CD damaged?

YES: Go to step 5 .

NO: Replace the audio-HVAC display module.

4. Compare the CD skipping to a similar vehicle under the same conditions.

Does the similar vehicle's CD skip under the same conditions?

YES: Operation is normal.

NO: Go to step 5.

5. Try a known-good CD.

Does the symptom recur?

YES: Replace the audio-HVAC display module.

NO: The original CD is faulty.

AUDIO SYSTEM SOUND IS WEAK OR DISTORTED, OR NO SOUND IS HEARD FROM SPEAKERS

NOTE: **Set the fader and balance position to the center.**

1. See if the problem recurs with the tuner and more than one CD.

Does the problem recur using the tuner as well as CDs?

YES: Go to step 2.

NO: Go to "poor radio reception or interference" troubleshooting.

2. Check to see if the problem affects all speakers.

Are all speakers affected?

YES: Go to step 4 .

NO: Go to step 3.

3. Check the speaker(s) with the problem for damage.

Is the speaker(s) damaged?

YES: Replace the damaged speaker(s) and recheck.

NO: Go to step 4.

4. Check fuse No. 5 (20A) and No. 32 (7.5A) in the under-dash fuse/relay box.

Are the fuses OK?

YES: Go to step 5.

NO: Replace the fuse and recheck.

5. Turn the ignition switch OFF.
6. Remove the audio-HVAC display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**).
7. Disconnect stereo amplifier connectors A (20P) and B (14P).
8. Measure voltage between stereo amplifier connector A (20P) terminal No. 10 and body ground.

Is there battery voltage?

YES: Go to step 9.

NO: Repair open in the wire between fuse No. 5 (20A) in the under-dash fuse/relay box and the stereo amplifier.

9. Turn the ignition switch to ACC (I).
10. Measure voltage between stereo amplifier connector A (20P) terminal No. 9 and body ground.

Is there battery voltage?

YES: Go to step 11.

NO: Repair open in the wire between fuse No. 32 (7.5A) in the under-dash fuse/relay box and the stereo amplifier.

11. Connect audio unit connector A (20P).
12. Measure voltage between stereo amplifier connector B (14P) terminal No. 7 and body ground.

Is there battery voltage?

YES: Go to step 13.

NO: Repair an open in the wire between the audio unit and the stereo amplifier.

13. Turn the ignition switch OFF.
14. Check for continuity between stereo amplifier connector B (14P) No. 14 terminal and body ground.

Is there continuity?

YES: Go to step 15.

NO: Repair open in the wire between the stereo amplifier and ground (G504). If the wire is OK inspect the ground.

15. Check for continuity between stereo amplifier connector A (20P) No. 20 terminal and body ground.

Is there continuity?

YES: Go to step 16.

NO: Repair open in the wire between the stereo amplifier and ground (G504). If the wire is OK inspect the ground.

16. Disconnect audio unit connector A (20P).
17. Check for continuity between the audio unit connector A and body ground on the following terminals.
See **Fig. 43**.

Is there continuity?

YES: Repair the short to ground between the audio unit and the stereo amplifier.

NO: Go to step 18.

Audio unit terminal	Wire Color
A7 (FR +)	BLU
A17 (FR -)	RED
A8 (FL +)	RED/BLU
A18 (FL -)	YEL
A5 (RR +)	LT GRN
A15 (RR -)	PUR
A6 (RL +)	BLU
A16 (RL -)	PNK

G01821147

Fig. 43: Audio Unit Connector A Continuity Table

18. Check for continuity between the stereo amplifier connector B (14P) stereo amplifier input terminals and the appropriate shield terminals. See **Fig. 44**.

Is there continuity?

YES: Repair the short in the harness between the audio unit and the stereo amplifier.

NO: Go to step 19.

Stereo amplifier input terminals	Shield terminal
B4	B5
B11	
B1	B2
B8	
B6	B12
B13	
B3	B9
B10	

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Fig. 44: Stereo Amplifier & Shield Continuity Table

19. Measure resistance between the stereo amplifier connector A (20P) terminals listed for each of the speaker circuits. See **Fig. 45** .

Is the resistance as specified?

YES: Go to step 20.

NO: Replace the appropriate speaker and retry.

Speaker	Terminals		Resistance
Drivers Door	A3	A13	4 Ω
Front Passenger's door	A2	A12	4 Ω
Left Tweeter	A4	A14	4 Ω
Right Tweeter	A1	A11	4 Ω
Left Rear Door	A8	A18	4 Ω
Right Rear Door	A7	A17	4 Ω
Left Rear	A6	A16	4 Ω
Right Rear	A5	A15	4 Ω

G01821149

Fig. 45: Speaker Circuit Resistance Table

20. Measure resistance between the stereo amplifier connector A (20P) speaker circuit terminals and body ground according to the chart. See **Fig. 46**.

Is there continuity?

YES: Repair short to ground between the stereo amplifier and the appropriate speaker.

NO: Go to step 21.

Speaker Circuit	Terminal
Drivers Door	A3
	A13
Front Passenger's door	A2
	A12
Left Tweeter	A4
	A14
Right Tweeter	A1
	A11
Left Rear Door	A8
	A18
Right Rear Door	A7
	A17
Left Rear	A6
	A16
Right Rear	A5
	A15

G01821150

Fig. 46: Speaker Circuit Ground Short Check Table

21. Substitute a known good stereo amplifier and retest.

Is the problem still present?

YES: Substitute a known good audio-HVAC display module and retest. If the original problem is gone, replace the original audio-HVAC display module.

NO: Replace the original stereo amplifier.

CD DOES NOT EJECT

1. Turn the audio unit on.

Does the system turn on?

YES: Go to step 2.

NO: Go to power switch will not turn ON (see **POWER SWITCH WILL NOT TURN ON**).

2. Check to see if the CD is ejected correctly with no binding by pushing the EJECT button.

Is it normal?

YES: Operation is normal.

NO: Go to step 3.

3. Insert another CD and recheck.

Does the problem continue?

YES: Replace the audio-HVAC display module.

NO: The original CD is faulty.

POWER SWITCH WILL NOT TURN ON

1. With the ignition switch ON (II), push the power switch ON to see if the audio unit turns ON.

Does the power turn on?

YES: Operation is normal. If the display turns on, but no sound is heard from the speakers, go to audio system is weak or distorted, or no sound is heard from speakers (see **AUDIO SYSTEM SOUND IS WEAK OR DISTORTED, OR NO SOUND IS HEARD FROM SPEAKERS**).

NO: Go to step 2.

2. Turn the ignition switch OFF, then check the No. 6 (10A) and No. 32 (7.5A) fuses in the under-dash fuse/relay box.

Are the fuses OK?

YES: Go to step 3.

NO: Replace the fuse(s) and recheck.

3. Remove the audio-HVAC-display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**). Check that audio unit connector A (20P) is properly connected.

Is it connected properly?

YES: Go to step 4.

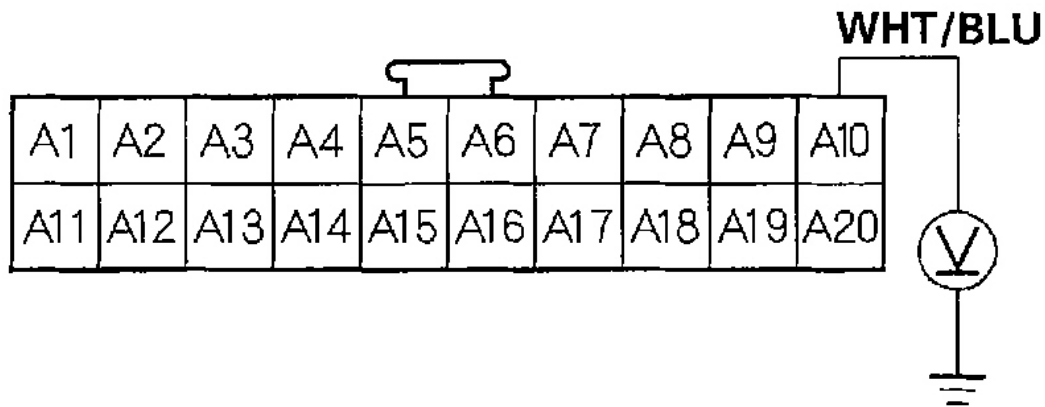
NO: Reconnect the connector, and recheck the function.

4. Measure voltage between audio unit connector A10 terminal and body ground.

Is there battery voltage?

YES: Go to step 5.

NO: Repair the open circuit or poor connection in wire between the under-dash fuse/relay box and audio unit connector A terminal No. 10.

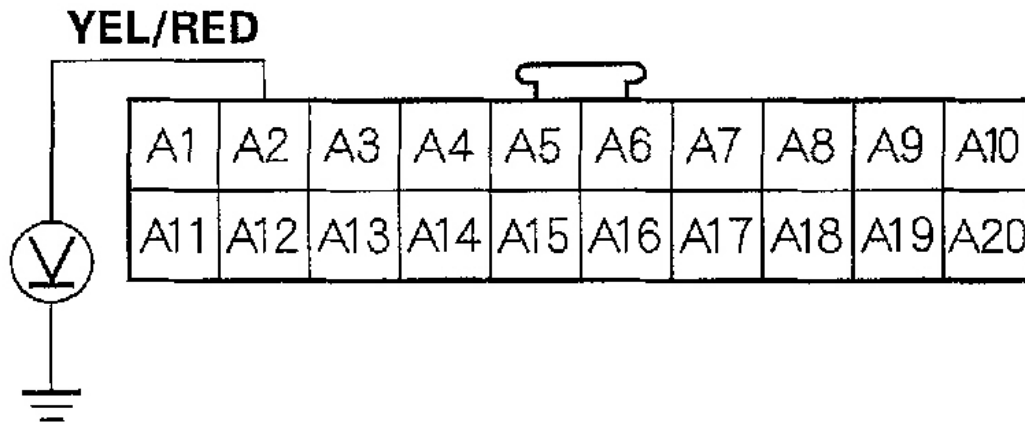
AUDIO UNIT CONNECTOR A (20P)**Wire side of female terminals**

G01821151

Fig. 47: Measuring Voltage Between Audio Unit Connector A10 Terminal & Body Ground

5. Turn the ignition switch ON (II).
6. Measure the voltage between the audio unit connector A terminal No. 2 and body ground.

Is there battery voltage?**YES:** Go to step 7.**NO:** Repair the open circuit or poor connection in the wire between the under-dash fuse/relay box and audio unit connector A terminal No. 2.

AUDIO UNIT CONNECTOR A (20P)

Wire side of female terminals

G01821152

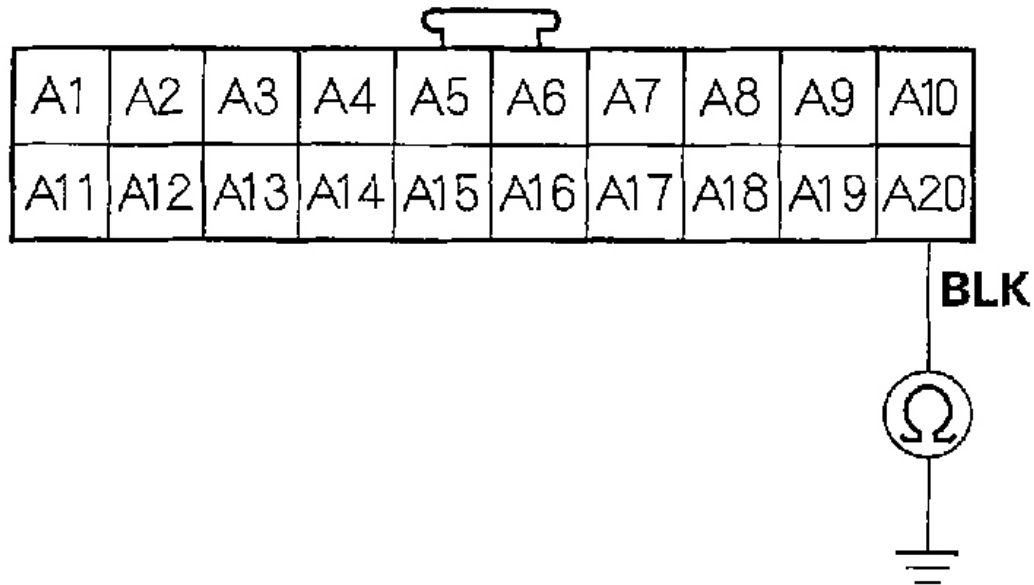
Fig. 48: Measuring The Voltage Between The Audio Unit Connector A Terminal No. 2 & Body Ground

7. Turn the ignition switch OFF, then check for continuity between audio unit connector A terminal No. 20 and body ground.

Is there continuity?

YES: Replace the audio-HVAC display module.

NO: Repair the open wire between audio unit connector A20 and body ground (G504).

AUDIO UNIT CONNECTOR A (20P)

Wire side of female terminals

G01821153

Fig. 49: Checking For Continuity Between Audio Unit Connector A Terminal No. 20 & Body Ground

RADIO TUNER DOES NOT CHANGE

1. Operate the turning knob to see if the radio station changes.

Does it change?

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

NO: Replace the audio-HVAC display module.

VOLUME DOES NOT CHANGE

NOTE: Set the fader and balance position to the center.

1. Listen for sound from the speakers.

Is the sound normal?

YES: Go to step 2.

NO: Go to audio system sound is weak or distorted, or no sound is heard from speakers (see **AUDIO SYSTEM SOUND IS WEAK OR DISTORTED, OR NO SOUND IS HEARD FROM SPEAKERS**).

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

Does it change?

YES: Operation is normal.

NO: Replace the audio-HVAC display module.

CD CHANGER DOES NOT MOVE BETWEEN CDS

1. Insert the six CDs into the audio unit and see if the changer moves between CDs.

Does the changer operate normally?

YES: Intermittent failure, the CD changer is OK at this time.

NO: Go to step 2.

2. Insert six different CDs into the audio unit.

Does the changer operate normally?

YES: At least one of the original CDs is faulty.

NO: Replace the audio-HVAC display module.

CD CHANGER DOES NOT LOAD ALL SIX CDS

1. Load six CDs into the audio unit.

Does the audio unit accept all six CDs?

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

NO: Go to step 2.

2. Try to load the CDs again.

Does the audio unit accept all six CDs?

YES: At least one of the original CDs is faulty.

NO: Replace the audio unit.

RADIO REMOTE SWITCH DOES NOT WORK PROPERLY

1. Test the radio remote switch (see **RADIO REMOTE SWITCH TEST**).

Is the radio remote switch OK?

YES: Go to step 2.

NO: Replace the radio remote switch.

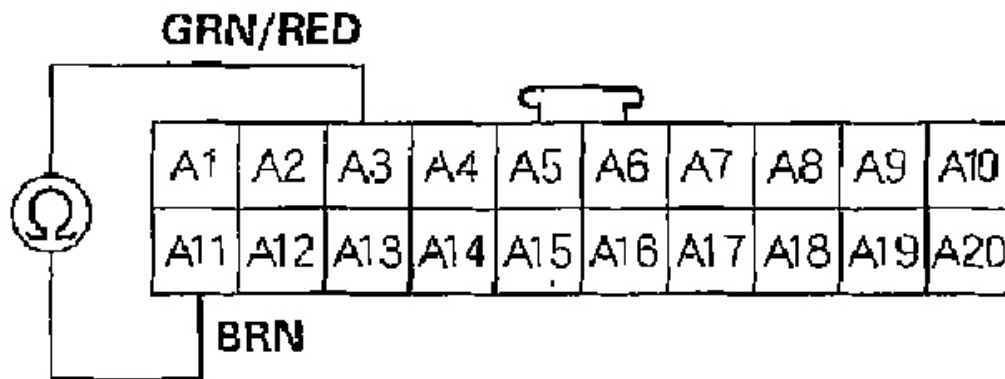
2. Remove the audio-HVAC display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**).
3. Measure resistance between the A3 and A11 terminals as specified in the check list. See **Fig. 50** and **Fig. 51** .

Is resistance OK?

YES: Go to step 4.

NO: Repair open or high resistance in the circuit between the audio unit and the radio remote switch. If the wires are OK, replace the cable reel (see **AIR BAG RESTRAINT SYSTEMS**).

AUDIO UNIT CONNECTOR A (20P)



Wire side of female terminals

G01821154

Fig. 50: Measuring Resistance Between The A3 & A11 Terminals

Button held down	VOL DOWN	VOL UP	CH (-)	CH (+)	MODE	(NONE)
Resistance	about 100 Ω	about 370 Ω	about 800 Ω	about 2 KΩ	about 4 KΩ	10 kΩ

G01821155

Fig. 51: Radio Remote Switch Resistance Check List

4. Check for continuity between body ground and terminals A3 and A11 individually.

Is there continuity?

YES: Repair the short to body ground in the circuit between the audio unit and the radio remote switch. If the wires are OK, replace the cable reel (see **AIR BAG RESTRAINT SYSTEMS**).

NO: Replace the audio-HVAC display module.

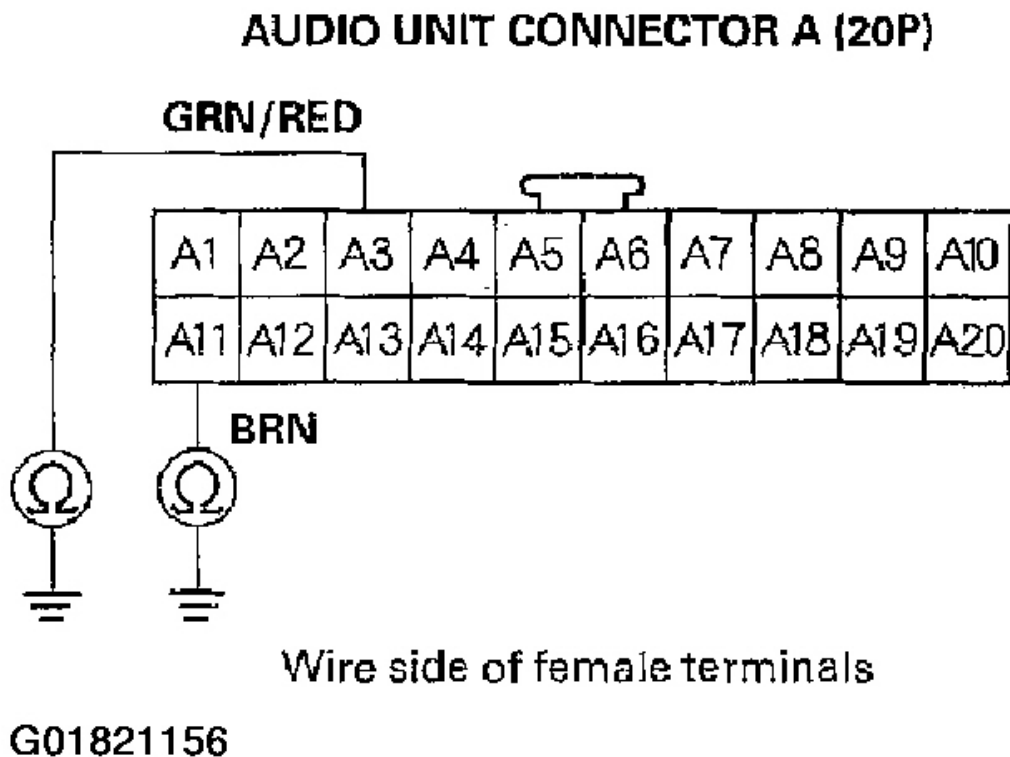


Fig. 52: Checking For Continuity Between Body Ground & Terminals A3 & A11

AUDIO-HVAC SUBDISPLAY/CLOCK DOES NOT DISPLAY

1. Check the connections at the audio-HVAC subdisplay/clock 10P connector and the audio-HVAC display panel connector C (10P).

Are the connectors and terminals connected properly?

YES: Go to step 2.

NO: Repair the connection and recheck.

2. Check for continuity between the audio-HVAC subdisplay/clock 10P connector and the audio-HVAC display panel connector C (10P) terminals for each wire listed in the chart. See **Fig. 53** .

Is there continuity?**YES:** Go to step 3.**NO:** Repair the open in the wire between the audio-HVAC display panel and the audio-HVAC subdisplay/clock.

Wire	Audio-HVAC subdisplay/clock 10P connector terminal	Audio-HVAC display panel connector C (10P) terminal
BLU/ORN	2	2
YEL/RED	4	4
YEL	5	5
BLU/RED	6	6
BLU	7	7
GRY	8	8
BLK	1	1
RED	9	9
GRN	10	10
BLK	3	(body ground)

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Fig. 53: Audio-HVAC Subdisplay/Clock & Audio-HVAC Display Panel Circuit Continuity Chart

3. Check for continuity between each audio-HVAC subdisplay/clock 10P connector terminal and body ground.

Is there continuity?**YES:** Repair the short to ground in the wire between the audio-HVAC display panel and the audio-HVAC subdisplay/clock.**NO:** Go to step 4.

Wire	Audio-HVAC subdisplay/ clock 10P connector terminal
BLU/ORN	2
YEL/RED	4
YEL	5
BLU/RED	6
BLU	7
GRY	8
BLK	1
RED	9
GRN	10
BLK	3

G01821158

Fig. 54: Checking For Continuity Between The Audio-HVAC Subdisplay/Clock 10P Connector Terminals & Body Ground

- Substitute a known audio-HVAC subdisplay/clock and recheck.

Does the subdisplay work properly?

YES: Replace the original audio-HVAC subdisplay/clock.

NO: Substitute a known good audio-HVAC display panel and retest. If the problem is gone, replace the original audio-HVAC display panel.

NO DISPLAY APPEARS ON THE SCREEN (WITHOUT NAVIGATION)

- Turn the ignition switch ON (II) and OFF a few times to see if the problem appears.

Does the problem appear?

YES: Go to step 2.

NO: Operation is normal.

- Turn the audio unit on and off several times, while listening to the sound from the speakers.

Is sound heard from the speakers, but no display appears on the screen?

YES: Go to step 3.

NO: Go to power switch will not turn on (see **POWER SWITCH WILL NOT TURN ON**).

3. Remove the audio-HVAC-display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**), and check the connection of audio unit connector A (20P).

Is it connected properly?

YES: Replace the audio-HVAC-display panel.

NO: Reconnect the connector, and recheck the problem.

SECURITY INDICATOR DOES NOT WORK PROPERLY

1. Check if the operation of the security indicator when turning the ignition switch OFF.

Does the security indicator flash?

YES: Operation is normal.

NO: Go to step 2.

2. Check the operation of the radio station preset buttons.

Do the preset buttons set and keep their memory?

YES: Replace the audio-HVAC display module.

NO: Go to radio preset memory is lost (see **RADIO PRESET MEMORY IS LOST**).

AUDIO-HVAC DISPLAY MODULE ILLUMINATION TROUBLESHOOTING

1. Turn the ignition switch to the ON (II) position.
2. Turn the combination light switch ON.
3. Turn the illumination control dial on the gauge control module back and forth between full dim and full bright.

Does the problem with the illumination affect only the audio-HVAC display panel?

YES: Go to step 4.

NO: Go to B-CAN Diagnosis Test Mode A (see **B-CAN SYSTEM DIAGNOSIS TEST MODE A**).

4. Turn the illumination control dial on the gauge control module back and forth between full dim and full bright while watching the audio-HVAC display panel buttons, button LEDs, LCD displays and lower panel ambient light.
5. Proceed with the diagnostic procedure for the appropriate symptom(s).

Symptom	Diagnostic Procedure
- Buttons stay bright and do not adjust with dimmer - LEDs dim with dimmer off of full bright position - LCD display is full bright and does not adjust with dimmer - Lower panel ambient light may or may not dim with dimmer	Go to step 6.
- Buttons do not light up - LEDs do not dim - LCD display is full bright and does not adjust with dimmer - Lower panel ambient light may or may not dim with dimmer	Go to step 9.
- Lower panel ambient light does not light up - Buttons dim with dimmer - LEDs dim with dimmer off of full bright position - LCD display dims with dimmer	Go to step 12.
Symptom other than those listed above	Replace the audio-HVAC display module. ■

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Fig. 55: Symptom Table

6. Remove the audio-HVAC display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**) and check for loose wire terminals or poor connections at audio unit connector A (20P).

Are all the wire terminals tight, and is audio unit connector A (20P) connected properly?

YES: Go to step 7.

NO: Repair the loose wire terminal, or properly connect audio unit connector A (20P) and recheck the symptom.

7. Turn the illumination control dial on the gauge control module to the full bright position.
8. Measure the voltage between the No. 19 and No. 20 terminals of audio unit connector A (20P).

Is there 1 V or less?

YES: Check connections at audio unit connector A (20P). If connections are OK substitute a known-good audio-HVAC display module and recheck the symptom. If the symptom is gone, replace the original audio-HVAC display module.

NO: Repair open in the RED wire between the MICU and the audio-HVAC display module.

9. Remove the audio-HVAC display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**) and check for loose wire terminals or poor connections at audio unit connector A (20P).

Are all the wire terminals tight, and is audio unit connector A (20P) connected properly?

YES: Go to step 10.

NO: Repair the loose wire terminal, or properly connect audio unit connector A (20P) and recheck the symptom.

10. With the combination light switch still ON, turn the illumination control dial on the gauge control module to the full bright position.
11. Measure the voltage between the No. 9 and No. 20 terminals of the audio unit connector A (20P).

Is there battery voltage?

YES: Check connections at the audio unit connector A (20P). If connections are OK substitute a known-good audio-HVAC display module and recheck the symptom. If the symptom is gone, replace the original audio-HVAC display module.

NO: Repair open in the RED/BLK wire between the under-hood fuse/relay box and the audio-HVAC display panel.

12. Remove the audio-HVAC display module (see **AUDIO-HVAC DISPLAY MODULE REMOVAL/INSTALLATION**) and check for loose wire terminals or poor connections at climate control unit connector B (16P).

Are all the wire terminals tight, and is climate control unit connector B (16P) connector connected properly?

YES: Go to step 13.

NO: Repair the loose wire terminal, or properly connect climate control unit connector B (16P) and recheck the symptom.

13. Turn the illumination control dial on the gauge control module to the full bright position.
14. Measure the voltage between the No. 12 and No. 6 terminals of climate control unit connector B (16P).

Is there 1 V or less?

YES: Go to step 15.

NO: Repair open in the RED wire between the MICU and the climate control unit.

15. Measure the voltage between the No. 8 and No. 6 terminals of the climate control unit connector B (16P).

Is there battery voltage?

YES: Check connections at climate control unit connector B (16P). If connections are OK substitute a known-good audio-HVAC display module and recheck the symptom. If the symptom is gone, replace the original audio-HVAC display module.

NO: Repair open in the RED/BLK wire between the under-hood fuse/relay box and the climate control unit.