

**2007 Mazda MX-5 Miata Sport**

2007 ACCESSORIES & BODY, CAB Entertainment - MX-5 Miata

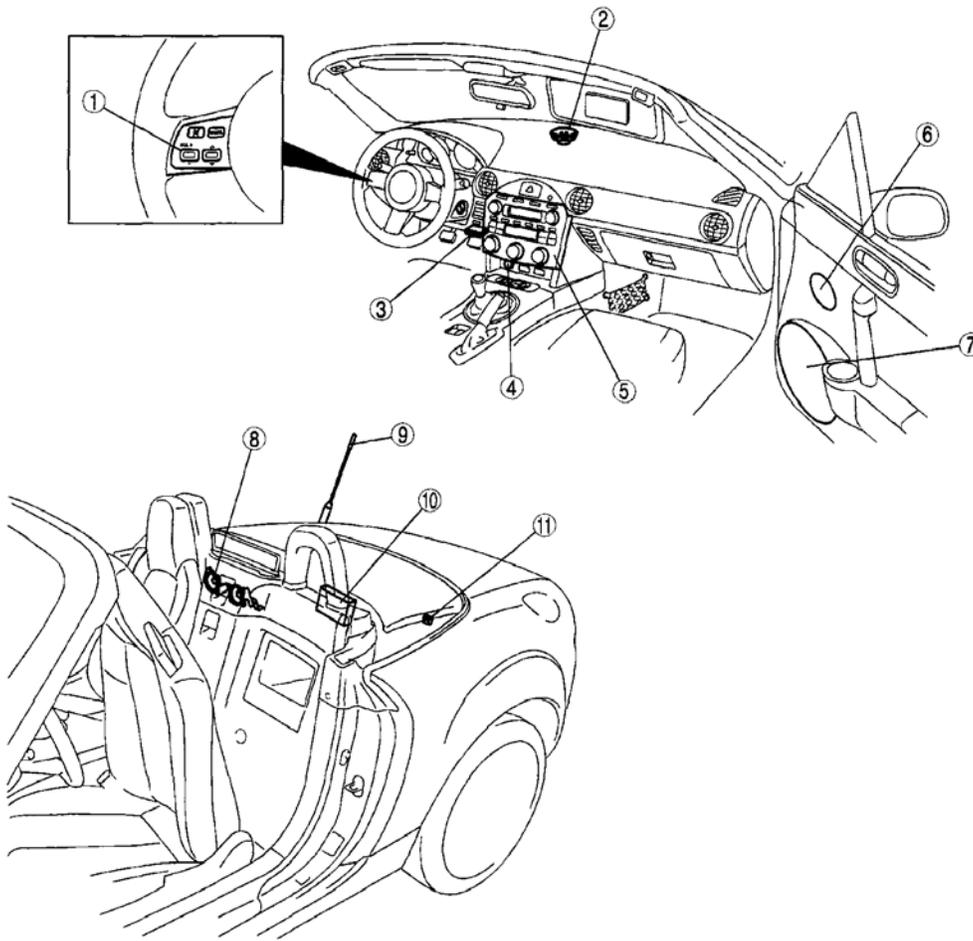
**2007 ACCESSORIES & BODY, CAB**

**Entertainment - MX-5 Miata**

**ENTERTAINMENT LOCATION INDEX**

## 2007 Mazda MX-5 Miata Sport

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E5U920ZW5106

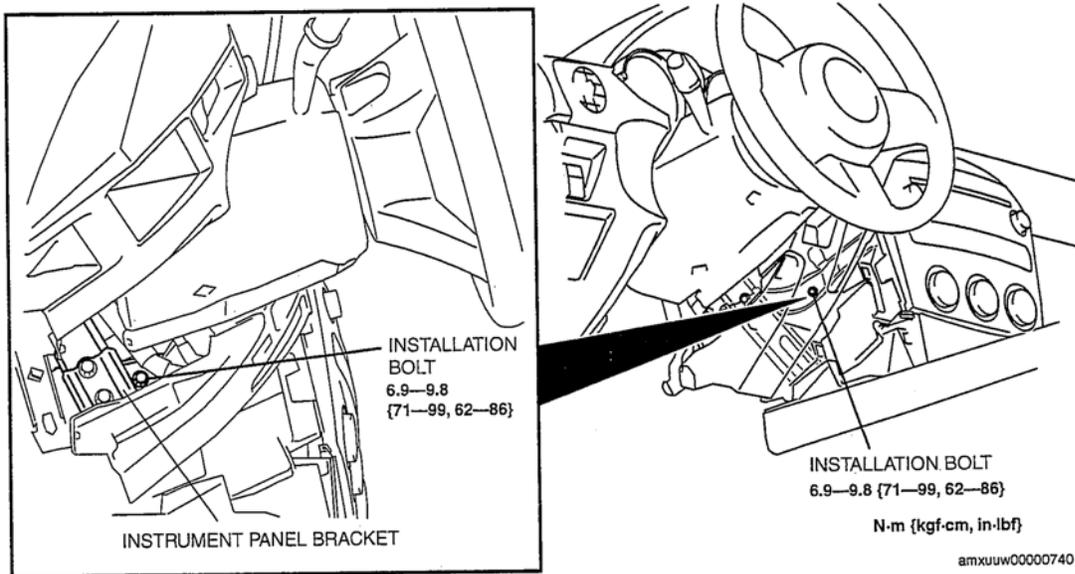
1	Audio control switch
2	Center speaker (Vehicles with BOSE)
3	AUDIOPILOT microphone (Vehicles with BOSE)
4	Accessory socket
5	Center panel unit
6	Tweeter (Vehicles without BOSE) / Door upper speaker (Vehicles with BOSE)
7	Door speaker
8	Rear speaker
9	Manual antenna
10	Audio amplifier (Vehicles with BOSE)
11	Condenser

**Fig. 1: Identifying Location Of Entertainment Components**  
Courtesy of MAZDA MOTORS CORP.

## CENTER PANEL UNIT REMOVAL/INSTALLATION

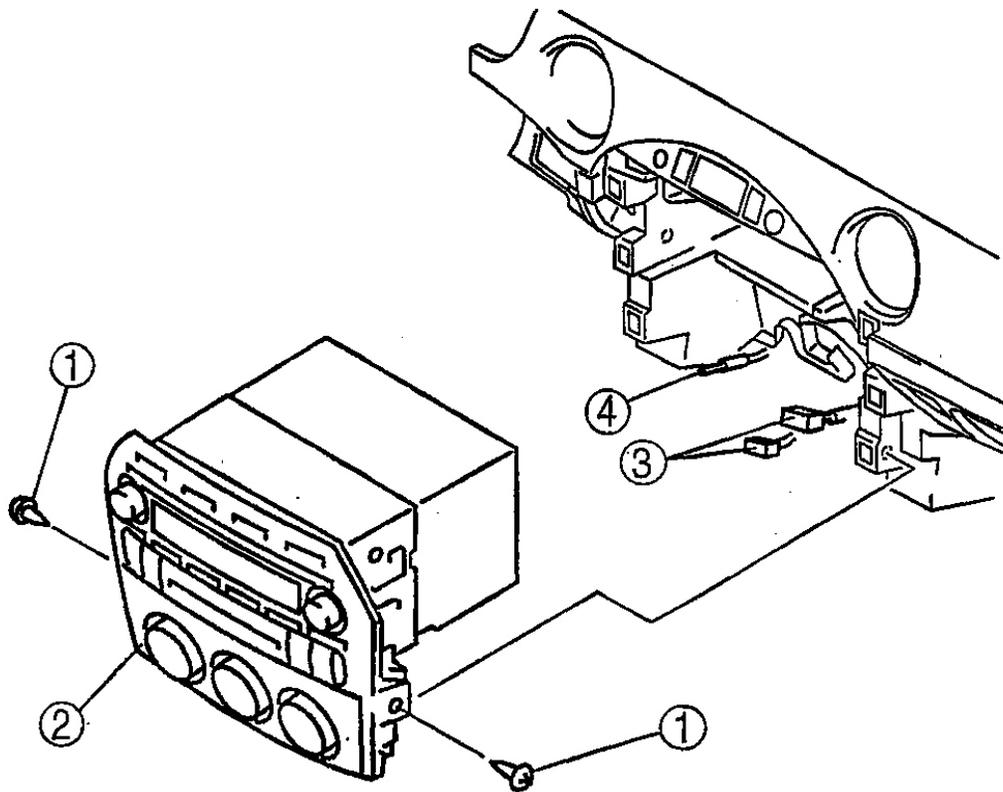
1. Remove the battery cover.
2. Disconnect the negative battery cable. See **BATTERY REMOVAL/INSTALLATION [LF]** .
3. Remove the lower panel. See **LOWER PANEL REMOVAL/INSTALLATION** .
4. Remove the knee bolster. See **KNEE BOLSTER REMOVAL/INSTALLATION** .
5. Remove the side wall. See **SIDE WALL REMOVAL/INSTALLATION** .
6. Check if the vehicle has the installation bolt or not at the position shown in the figure from the underside of the driver seat
  - If the installation bolt is equipped, remove it.

**CAUTION:** The center panel unit may be damaged if it is pulled out with the installation bolt installed. Verify that the installation bolt is removed before pulling out the center panel unit.



**Fig. 2: Identifying Installation Bolt (With Torque Specifications)**  
Courtesy of MAZDA MOTORS CORP.

7. Remove in the order indicated in **Fig. 3**.



1	Screw
2	Center panel unit (See Center Panel Unit Removal Note.)
3	Connector Center Panel Unit Removal Note.)
4	Antenna feeder plug

**Fig. 3: Identifying Center Panel Unit Assembly**  
 Courtesy of MAZDA MOTORS CORP.

8. Install in the reverse order of removal.

**CAUTION:**

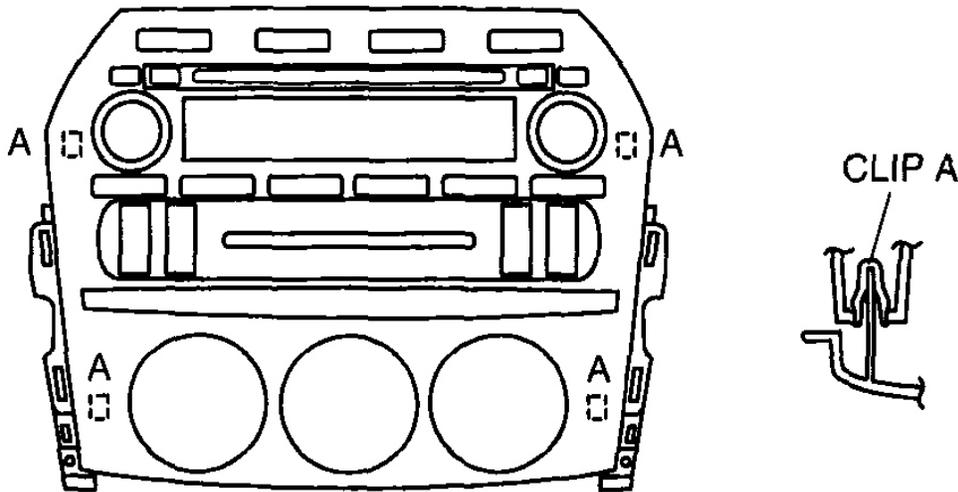
- When installing the center panel unit, make sure that the wiring harness and antenna feeder are not caught between the unit and dashboard. If the wiring harness or the antenna feeder is caught between the unit and dashboard, it may cause malfunctions.

1. Pull the center panel unit outward, detach clip A from the dashboard, and then remove the center panel unit.

**CAUTION:**

- Verify that bolt has been removed when pulling the center panel unit outward. If the center panel unit is pulled with bolt installed, stress will be applied to the connectors inside the panel which may cause a malfunction.

2. When removing the center panel unit, disconnect the audio unit connector (24-pin) first to aid in disconnecting other connectors and the antenna plug.



E5U920ZW5002

**Fig. 4: Identifying Clip A**  
Courtesy of MAZDA MOTORS CORP.

## CENTER PANEL UNIT DISASSEMBLY/ASSEMBLY

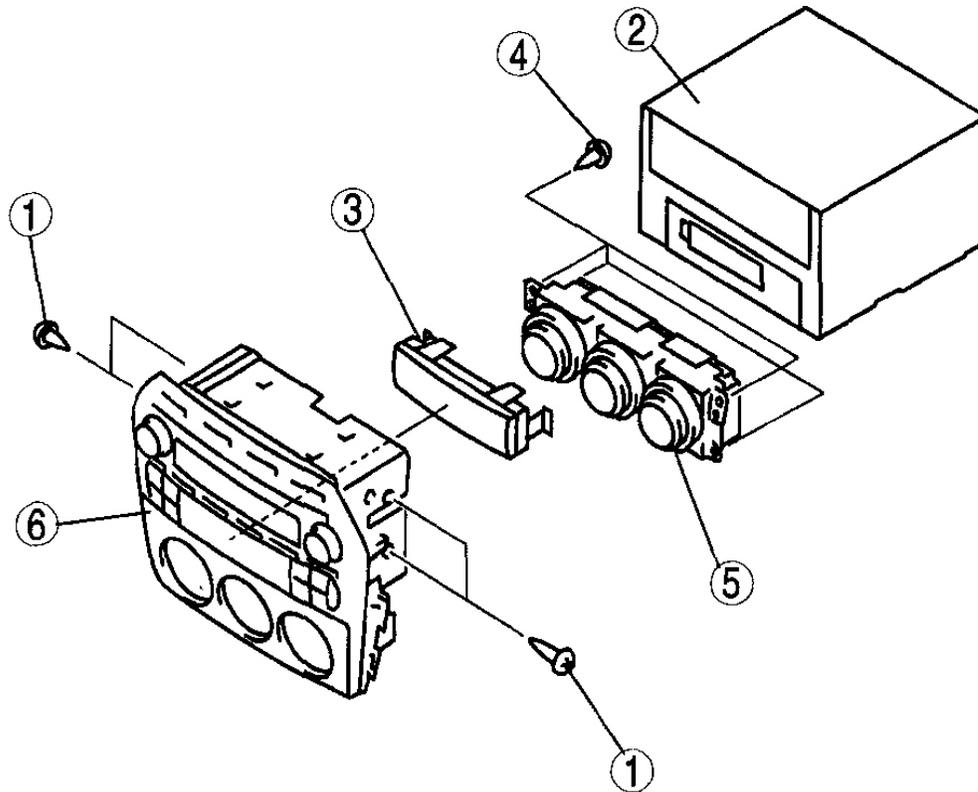
**CAUTION:**

- Before disassembling the center panel unit, spread a cloth on the floor to put the disassembled parts on. This protects the surface of the panel from scratches or dirt.

1. Disassemble in the order indicated in **Fig. 5**.

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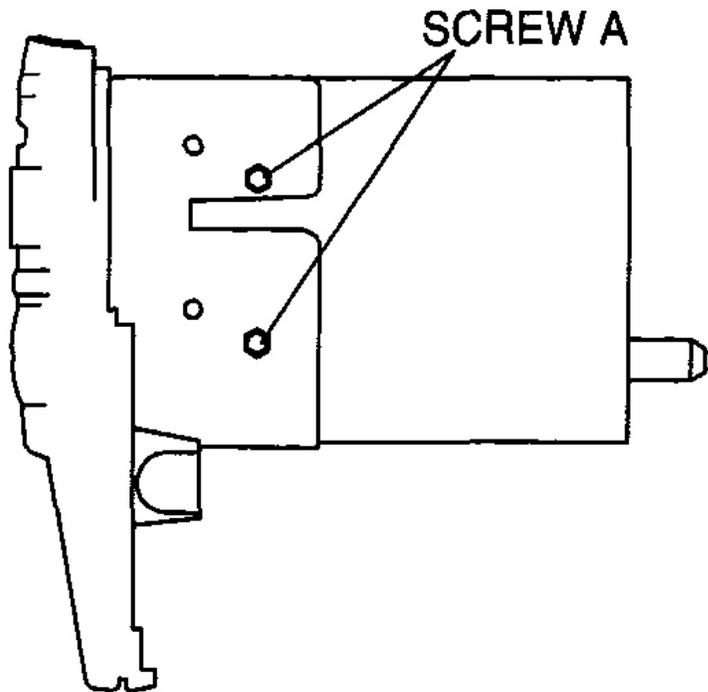
1	Screw A
2	Audio unit
3	Cover
4	Screw B
5	Climate control unit
6	Center panel

**Fig. 5: Exploded View Of Center Panel Unit Components**  
Courtesy of MAZDA MOTORS CORP.

2. Assemble in the reverse order of disassembly.

### SCREW A ASSEMBLE NOTE

1. Tighten screws A at the position shown in **Fig. 6**.



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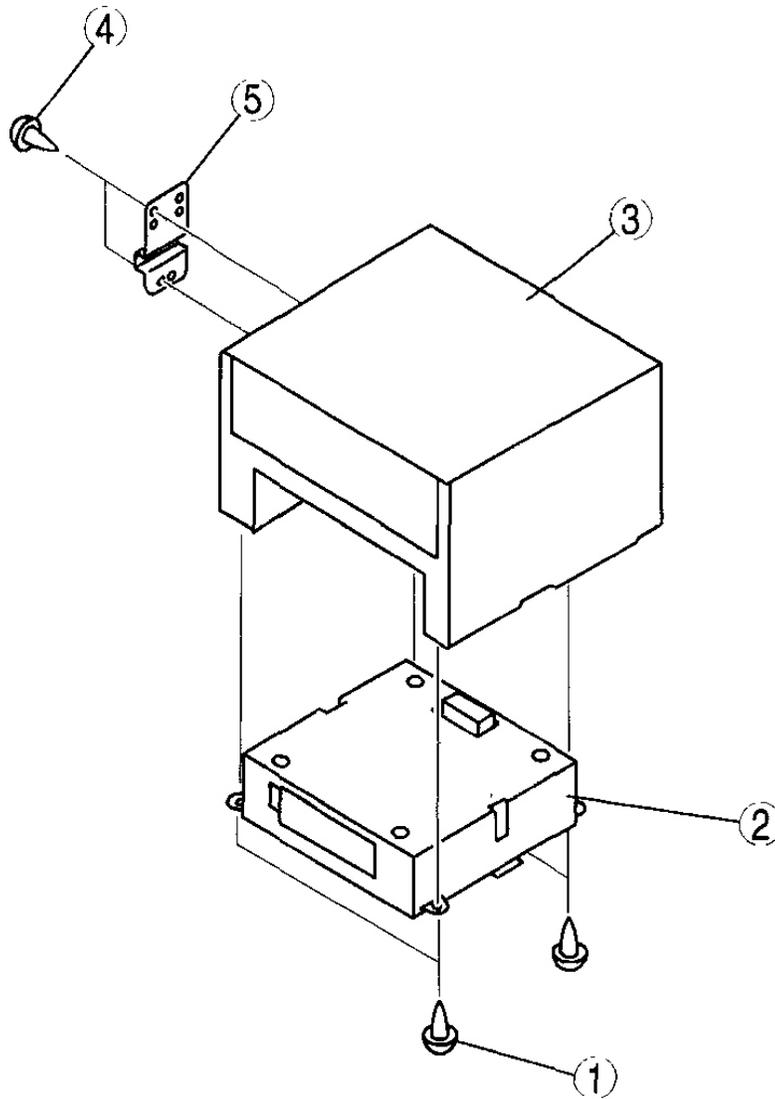
**Fig. 6: Tightening Screws A**  
Courtesy of MAZDA MOTORS CORP.

## AUDIO UNIT DISASSEMBLY/ASSEMBLY

1. Disassemble in the order indicated in **Fig. 7**.

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1	Screw
2	Lower module
3	Base unit
4	Screw
5	Bracket

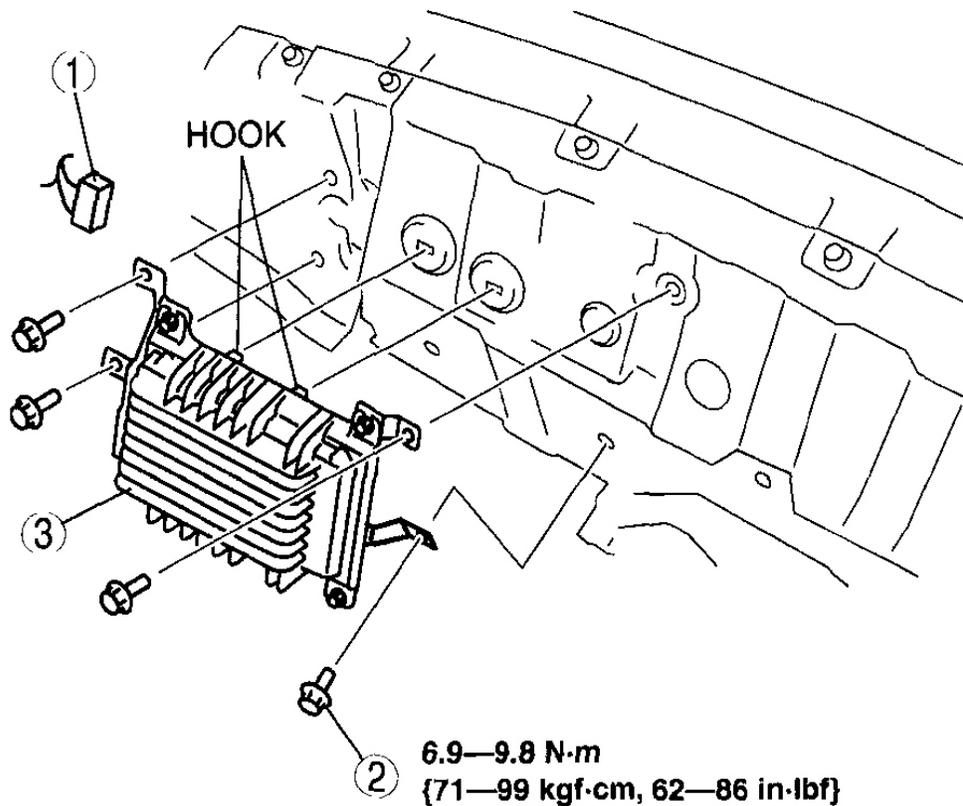
**Fig. 7: Exploded View Of Audio Unit Components**  
Courtesy of MAZDA MOTORS CORP.

2. Assemble in the reverse order of disassembly.

## **AUDIO AMPLIFIER REMOVAL/INSTALLATION**

### **EXCEPT POWER RETRACTABLE HARDTOP**

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the following parts:
  1. Console (See **CONSOLE REMOVAL/INSTALLATION** .)
  2. Quarter trim (See **QUARTER TRIM REMOVAL/INSTALLATION** .)
  3. Scuff plate (See **SCUFF PLATE REMOVAL/INSTALLATION** .)
  4. Tire house trim (See **TIRE HOUSE TRIM REMOVAL/INSTALLATION** .)
  5. Aeroboard (See **AEROBOARD REMOVAL/INSTALLATION** .)
  6. Front seat back bar garnish (See **SEAT BACK BAR GARNISH REMOVAL/INSTALLATION** .)
  7. Back trim (See **BACK TRIM REMOVAL/INSTALLATION** .)
  8. Seat belt set plate (See **SEAT BELT REMOVAL/INSTALLATION** .)
  9. Seat back crossmember assembly (See **SEAT BACK CROSSMEMBER ASSEMBLY REMOVAL/INSTALLATION** .)
  10. Rear side trim (See **REAR SIDE TRIM REMOVAL/INSTALLATION** .)
  11. Rear package trim (See **REAR PACKAGE TRIM REMOVAL/INSTALLATION** .)
4. Remove in the order indicated in the table.



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1	Connector
2	Bolt
3	Audio amplifier

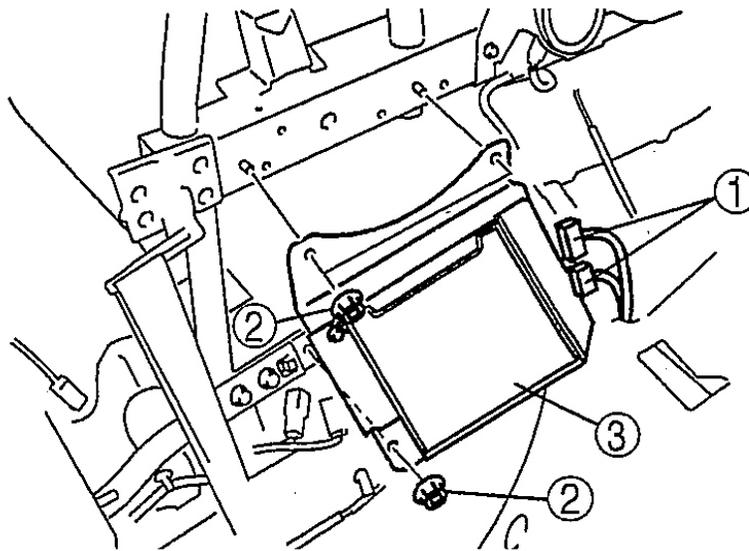
**Fig. 8: Identifying Audio Amplifier (With Torque Specifications)**  
 Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.

### POWER RETRACTABLE HARDTOP

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the following parts:
  1. Console (See **CONSOLE REMOVAL/INSTALLATION** .)
  2. Quarter trim (See **QUARTER TRIM REMOVAL/INSTALLATION** .)

3. Scuff plate (See **SCUFF PLATE REMOVAL/INSTALLATION** .)
  4. Tire house trim (See **TIRE HOUSE TRIM REMOVAL/INSTALLATION** .)
  5. Aeroboard (See **AEROBOARD REMOVAL/INSTALLATION** .)
  6. Front seat back bar garnish (See **SEAT BACK BAR GARNISH REMOVAL/INSTALLATION** .)
  7. Back trim (See **BACK TRIM REMOVAL/INSTALLATION** .)
4. Remove in the order indicated in the table.



1	Connector
2	Nut
3	Audio amplifier

**Fig. 9: Identifying Audio Amplifier**  
 Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.

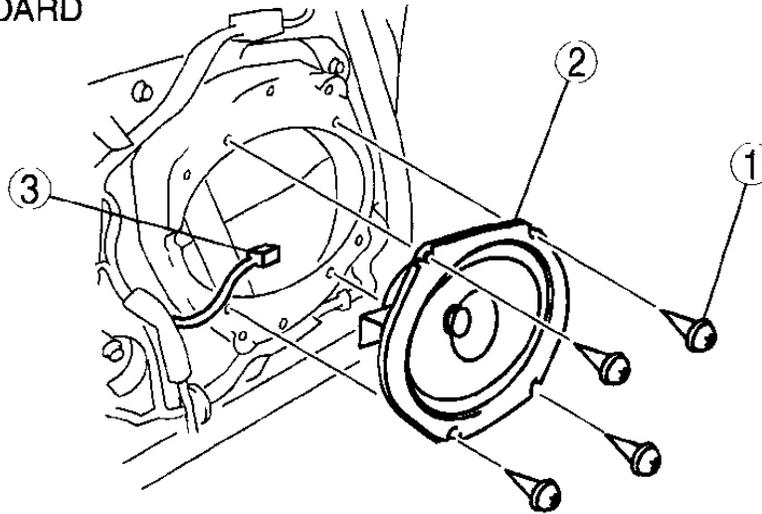
## DOOR SPEAKER REMOVAL/INSTALLATION

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the door trim. (See **DOOR TRIM REMOVAL/INSTALLATION** .)
4. Remove in the order indicated in **Fig. 10** .

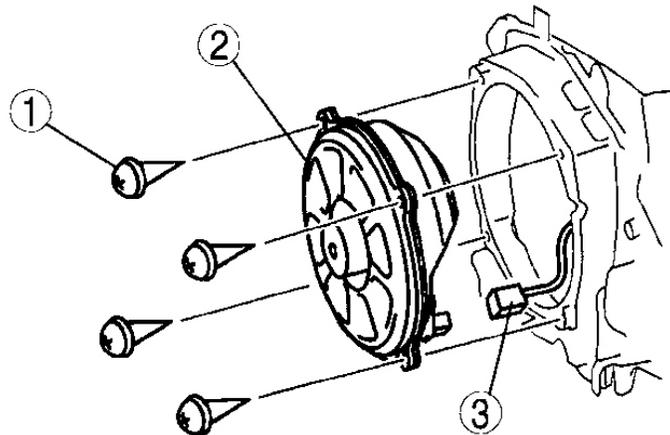
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### STANDARD



### BOSE



E5U920ZW5004

1	Screw
2	Door speaker
3	Connector

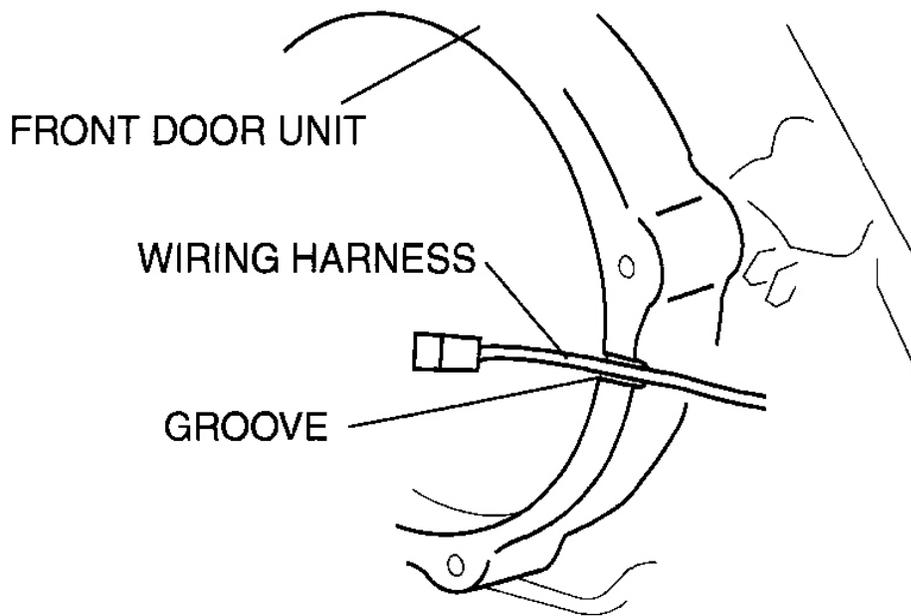
**Fig. 10: Identifying Door Speaker**  
Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.

**DOOR SPEAKER INSTALLATION NOTE**

1. Remove the speaker with the wiring harness passing through the groove of the front door module.

- CAUTION:**
- If the speaker is installed with the wiring harness out of the groove, an open circuit in the wiring harness could occur.



E5U920ZW5114

**Fig. 11: Removing Speaker With Wiring Harness Passing Groove Of Front Door Module**  
Courtesy of MAZDA MOTORS CORP.

## DOOR SPEAKER INSPECTION

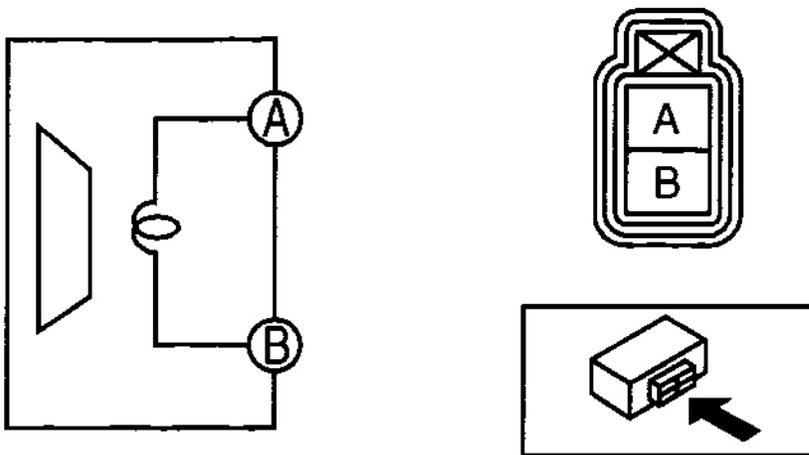
1. Verify the resistance between door speaker terminals.
  - If the resistance is not within the specification, replace the door speaker.

### Resistance

**Standard: 4 ohms**

**BOSE: 1 ohm**

2. Connect a **1.5 V** battery to the door speaker and verify that noise is heard from the door speaker.
  - If no noise is heard, replace the door speaker.



BHJ0920W040

**Fig. 12: Identifying Door Speaker Connector & Terminals**  
 Courtesy of MAZDA MOTORS CORP.

## DOOR UPPER SPEAKER INSPECTION

1. Inspect for resistance between the door upper speaker terminals using an ohmmeter.
  - If the resistance is not within the specification, replace the door upper speaker.

○—○ : Resistance

Test condition	Terminal	
	A	B
Under any condition	○—○	○—○

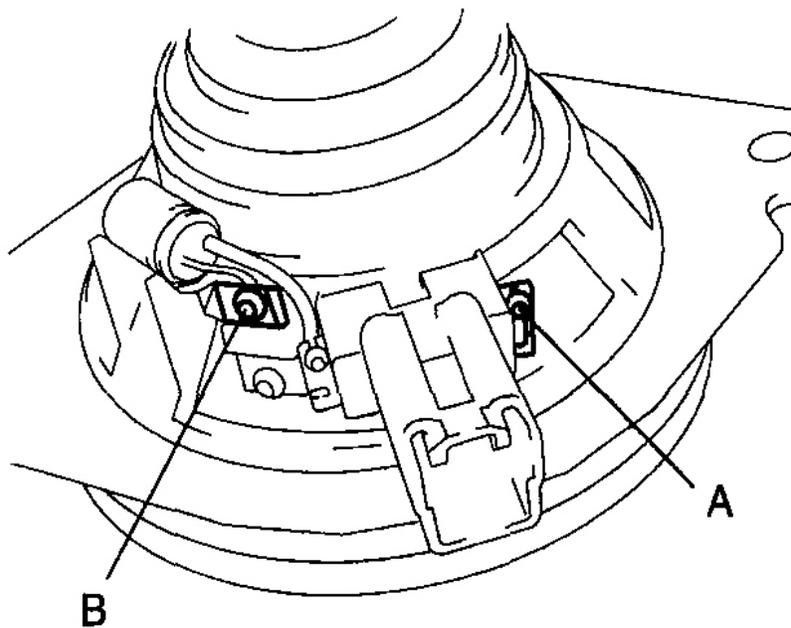
R

R : 3.6 ohms

E5U920ZW5116

**Fig. 13: Door Upper Speaker Continuity Table**

Courtesy of MAZDA MOTORS CORP.

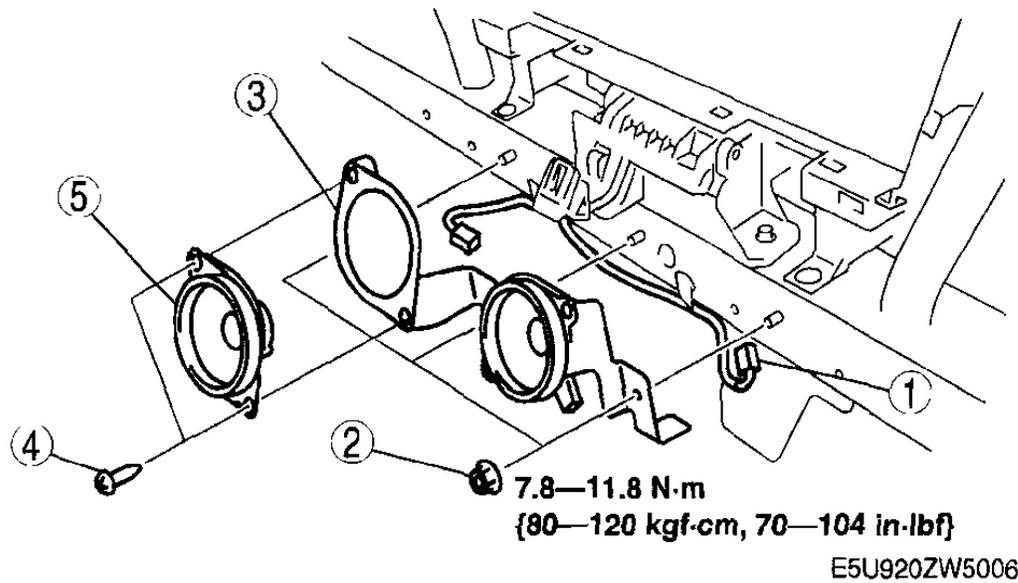


E5U920ZW5203

**Fig. 14: Identifying Door Upper Speaker Terminals**  
Courtesy of MAZDA MOTORS CORP.

## REAR SPEAKER REMOVAL/INSTALLATION

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the following parts:
  1. Console (See **CONSOLE REMOVAL/INSTALLATION** .)
  2. Quarter trim (See **QUARTER TRIM REMOVAL/INSTALLATION** .)
  3. Scuff plate (See **SCUFF PLATE REMOVAL/INSTALLATION** .)
  4. Tire house trim (See **TIRE HOUSE TRIM REMOVAL/INSTALLATION** .)
  5. Aeroboard (See **AEROBOARD REMOVAL/INSTALLATION** .)
  6. Front seat back bar garnish (See **SEAT BACK BAR GARNISH REMOVAL/INSTALLATION** .)
  7. Back trim (See **BACK TRIM REMOVAL/INSTALLATION** .)
4. Remove in the order indicated in **Fig. 15** .



1	Connector
2	Nut
3	Bracket (with BOSE) Bracket and rear speaker (without BOSE)
4	Screw
5	Rear speaker (with BOSE)

**Fig. 15: Identifying Rear Speaker (With Torque Specifications)**  
Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.

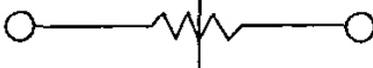
## REAR SPEAKER INSPECTION

1. Inspect for resistance between the rear speaker terminals using an ohmmeter.
  - If the resistance is not within the specification, replace the rear speaker.

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 : Resistance

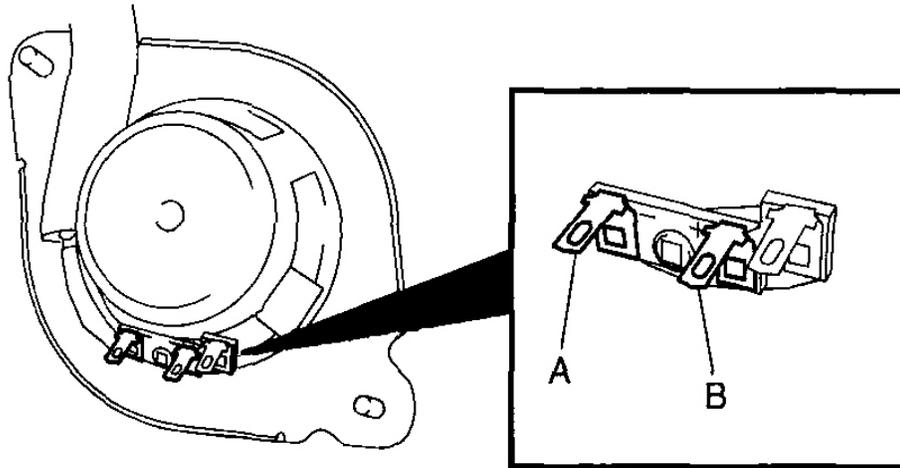
Test condition	Terminal	
	A	B
Under any condition		

R : 8 ohms (standard)  
3.6 ohms (BOSE)

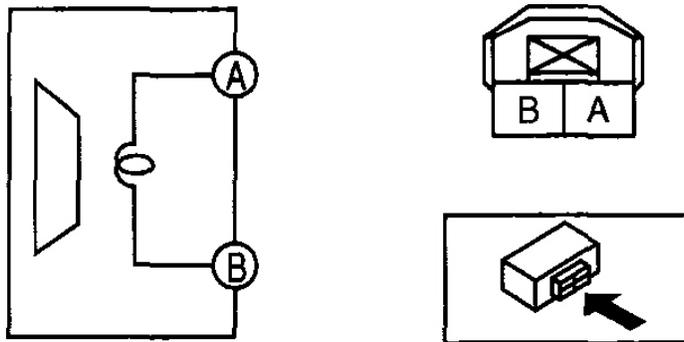
E5U920ZW5302

**Fig. 16: Rear Speaker Continuity Table**  
Courtesy of MAZDA MOTORS CORP.

**STANDARD**



**BOSE**

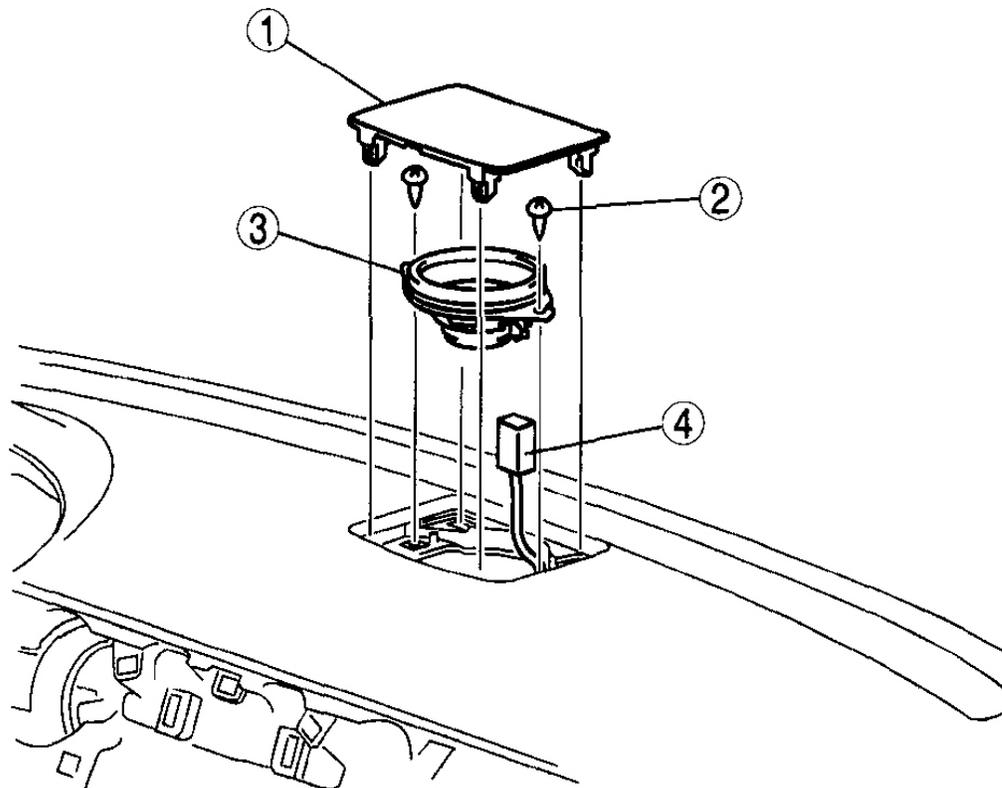


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**Fig. 17: Identifying Rear Speaker Terminals**  
 Courtesy of MAZDA MOTORS CORP.

**CENTER SPEAKER REMOVAL/INSTALLATION**

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove in the order indicated in **Fig. 18** .



E5U920ZW5007

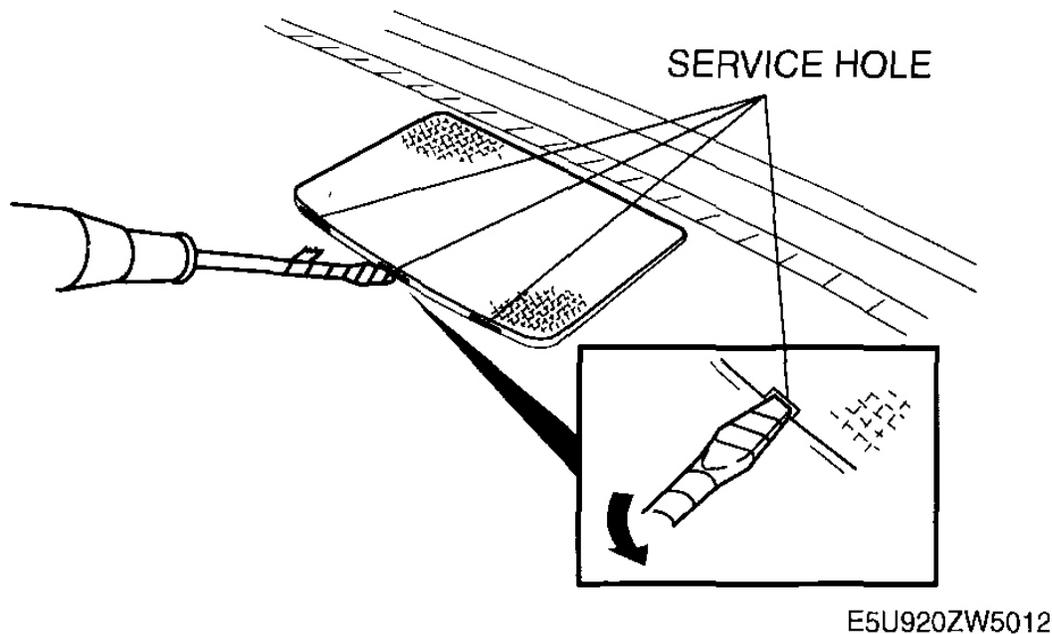
1	Center speaker cover
2	Screw
3	Center speaker
4	Connector

**Fig. 18: Identifying Center Speaker**  
 Courtesy of MAZDA MOTORS CORP.

4. Install in the reverse order of removal.

**CENTER SPEAKER COVER REMOVAL NOTE**

1. Insert a tape-wrapped flathead screwdriver into the service hole.
2. Pry with the screwdriver in the direction shown by the arrow to remove the center speaker cover.



**Fig. 19: Inserting Tape-Wrapped Flathead Screwdriver Into Service Hole**  
Courtesy of MAZDA MOTORS CORP.

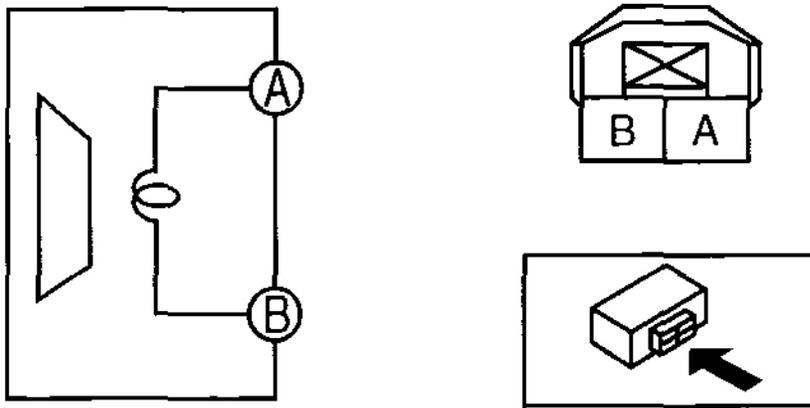
## CENTER SPEAKER INSPECTION

1. Verify the resistance between center speaker terminals.
  - If the resistance is not within the specification, replace the center speaker.

### Resistance

**3.6 ohms**

2. Connect a **1.5 V** battery to the center speaker and verify that noise is heard from the center speaker.
  - If no noise is heard, replace the center speaker.

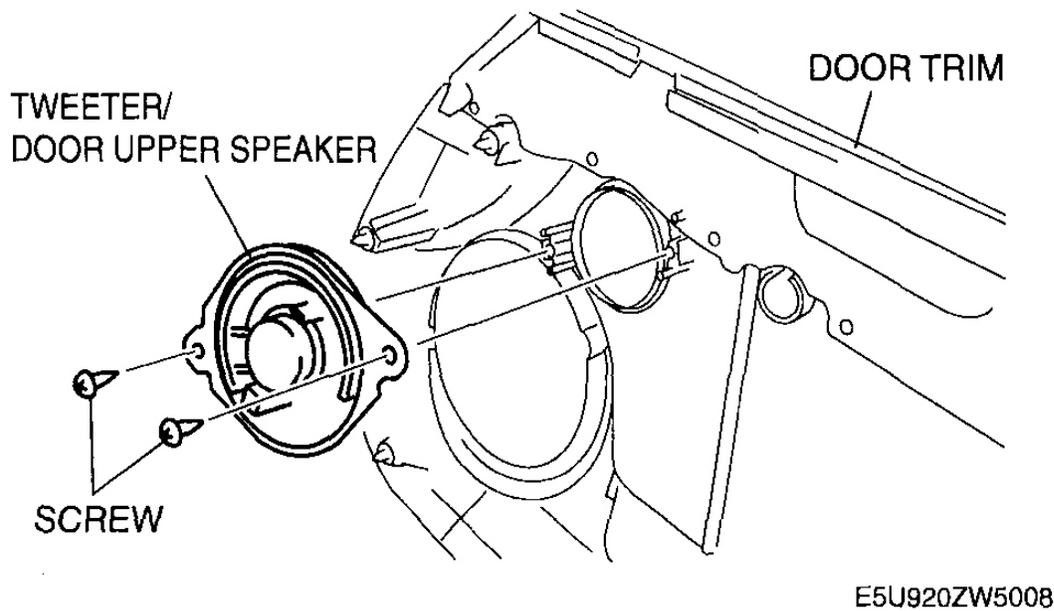


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**Fig. 20: Identifying Center Speaker Terminals & Connector**  
Courtesy of MAZDA MOTORS CORP.

## TWEETER REMOVAL/INSTALLATION

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the door trim. (See **DOOR TRIM REMOVAL/INSTALLATION** .)
4. Disconnect the connector.
5. Remove the screws.
6. Remove the tweeter/door upper speaker.
7. Install in the reverse order of removal.



**Fig. 21: Identifying Tweeter/Door Upper Speaker**  
 Courtesy of MAZDA MOTORS CORP.

### TWEETER INSPECTION

1. Inspect for resistance between the tweeter terminals using an ohmmeter.
  - If the resistance is not within the specification, replace the tweeter.

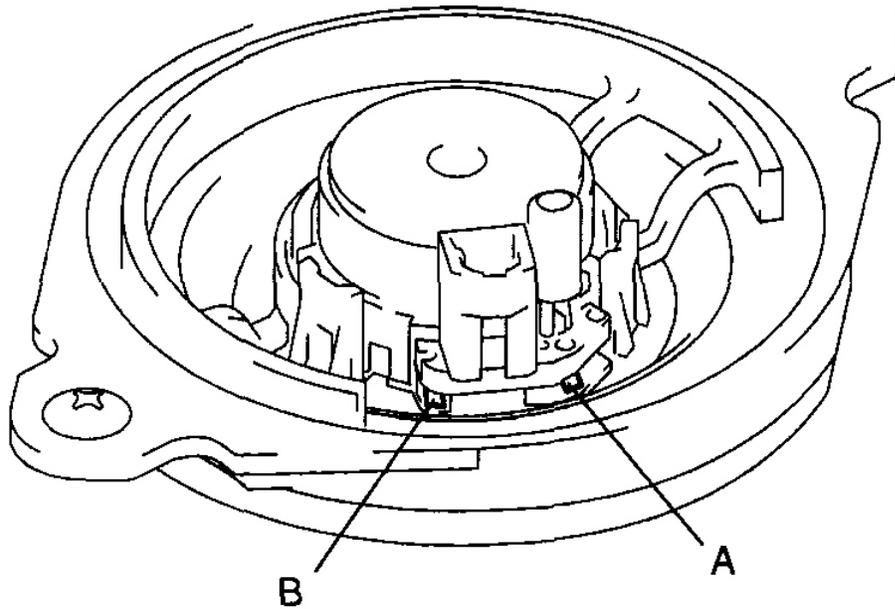
○—○ : Resistance

Test condition	Terminal	
	A	B
Under any condition		

R : 4 ohms  
 E5U920ZW5301

**Fig. 22: Tweeter Continuity Table**

Courtesy of MAZDA MOTORS CORP.



E5U920ZW5202

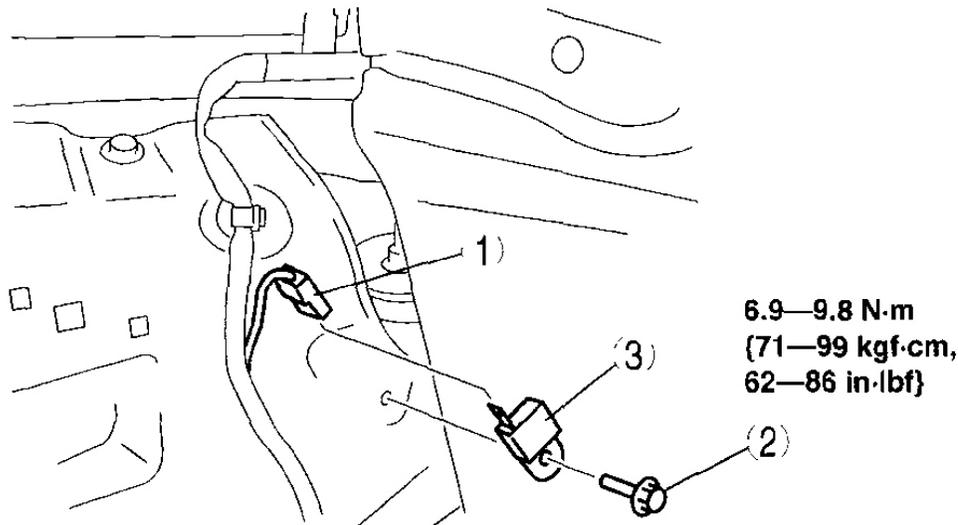
**Fig. 23: Identifying Tweeter Terminals**  
Courtesy of MAZDA MOTORS CORP.

## CONDENSER REMOVAL/INSTALLATION

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the following parts:
  1. Console (See **CONSOLE REMOVAL/INSTALLATION** .)
  2. Quarter trim (See **QUARTER TRIM REMOVAL/INSTALLATION** .)
  3. Scuff plate (See **SCUFF PLATE REMOVAL/INSTALLATION** .)
  4. Tire house trim (See **TIRE HOUSE TRIM REMOVAL/INSTALLATION** .)
  5. Aeroboard (See **AEROBOARD REMOVAL/INSTALLATION** .)
  6. Front seat back bar garnish (See **SEAT BACK BAR GARNISH REMOVAL/INSTALLATION** .)
  7. Back trim (See **BACK TRIM REMOVAL/INSTALLATION** .)
  8. Seat belt set plate (See **SEAT BELT REMOVAL/INSTALLATION** .)
  9. Seat back crossmember assembly (See **SEAT BACK CROSSMEMBER ASSEMBLY** .)

**REMOVAL/INSTALLATION .)**

10. Rear side trim (See **REAR SIDE TRIM REMOVAL/INSTALLATION .)**
11. Rear package trim (See **REAR PACKAGE TRIM REMOVAL/INSTALLATION .)**
4. Remove in the order indicated in **Fig. 24 .**



E5U920ZW5013

1	Connector
2	Bolt
3	Condenser

**Fig. 24: Identifying Condenser (With Torque Specifications)**  
Courtesy of MAZDA MOTORS CORP.

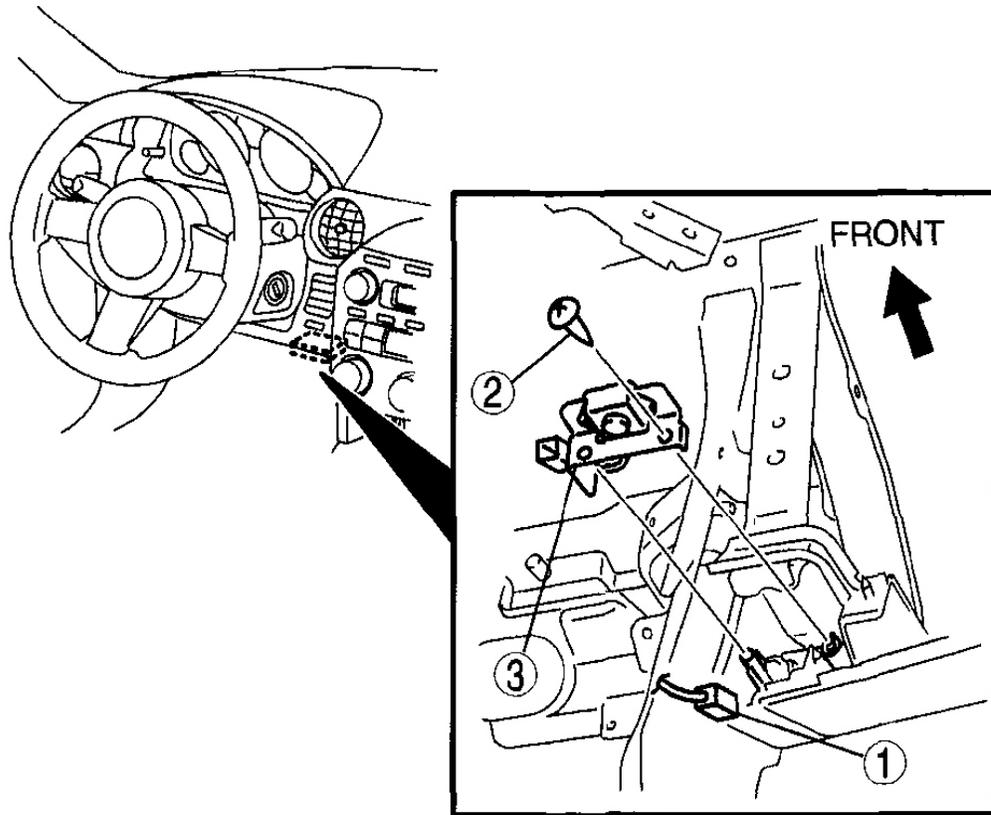
5. Install in the reverse order of removal.

**AUDIOPILOT MICROPHONE REMOVAL/INSTALLATION**

**NOTE:**

- "AudioPilot" is a registered trademark of Bose Corporation.

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF] .)**
3. Remove in the order indicated in **Fig. 25 .**



E5U920ZW5103

1	Connector
2	Screw
3	AUDIPILOT microphone

**Fig. 25: Identifying Audiopilot Microphone**  
 Courtesy of MAZDA MOTORS CORP.

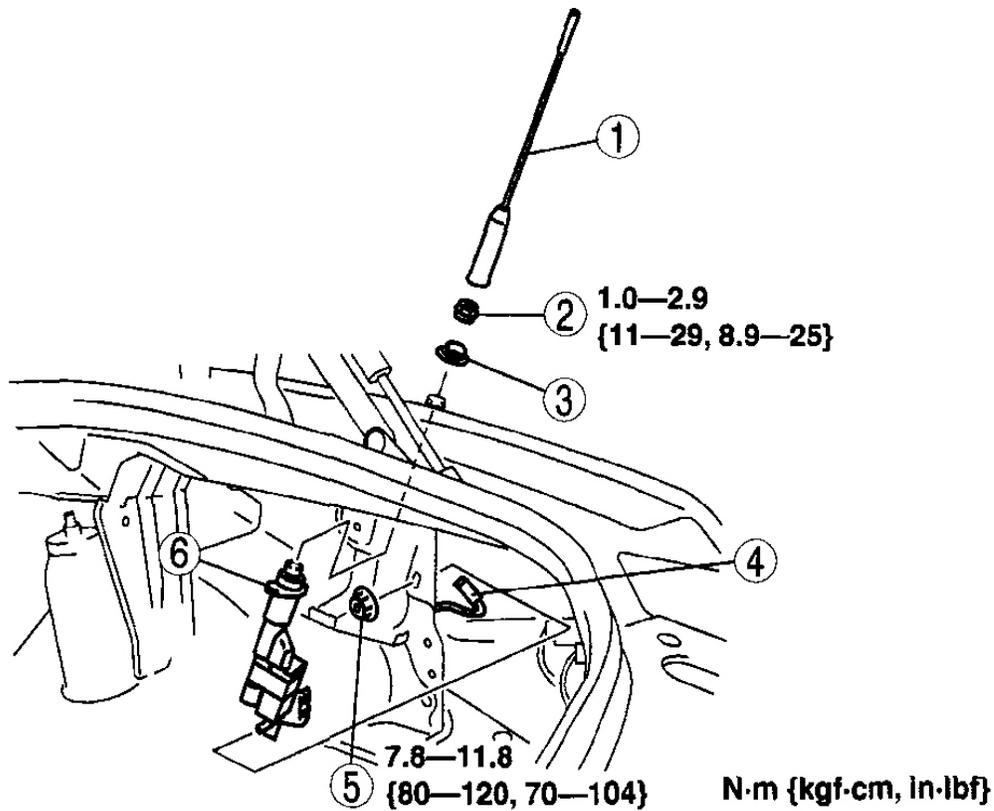
4. Install in the reverse order of removal.

## MANUAL ANTENNA REMOVAL/INSTALLATION

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the jack.
4. Remove in the order indicated in **Fig. 26** .

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E5U920ZW5010

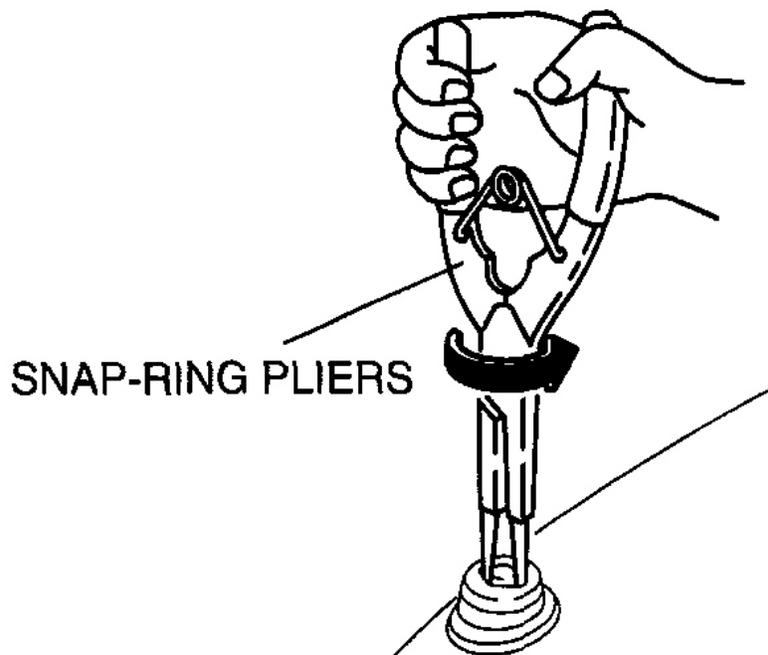
1	Antenna rod
2	Mounting nut
3	Spacer
4	Connector
5	Nut
6	Manual antenna

**Fig. 26: Identifying Manual Antenna (With Torque Specifications)**  
 Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.

### MOUNTING NUT REMOVAL NOTE

1. Use snap-ring pliers to remove the mounting nut.



E5U920ZW5011

**Fig. 27: Removing Mounting Nut Using Snap Ring Pliers**  
Courtesy of MAZDA MOTORS CORP.

## MANUAL ANTENNA INSPECTION

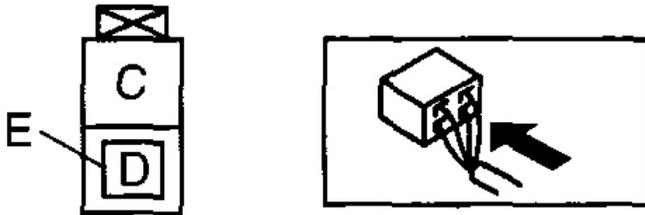
**NOTE:**

- A amplifier is built into the manual antenna.

### ANTENNA AMPLIFIER

1. Turn on the audio unit and radio, and measure the voltage at manual antenna connector terminal C.
  - If the voltage is B+, go to the next step.
  - If the voltage is not B+, inspect the audio unit or the antenna feeder.

## MANUAL ANTENNA HARNESS-SIDE CONNECTOR



E5U920ZW5303

**Fig. 28: Identifying Manual Antenna Connector Terminal**  
Courtesy of MAZDA MOTORS CORP.

### FEEDER

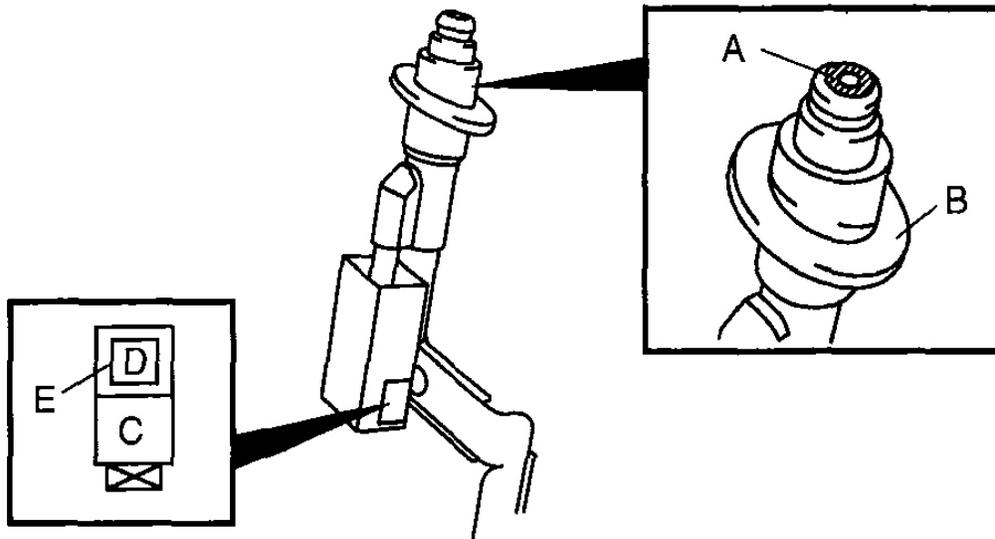
1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Disconnect the manual antenna connector.
4. Inspect for continuity between the manual antenna terminals using an ohmmeter.
  - If not as specified, replace the manual antenna.

○—○ : Continuity

Step	Terminal			
	A	B	D	E
1	○	—	○	
2		○	—	○

E5U920ZW5122

**Fig. 29: Feeder Continuity Table**  
 Courtesy of MAZDA MOTORS CORP.



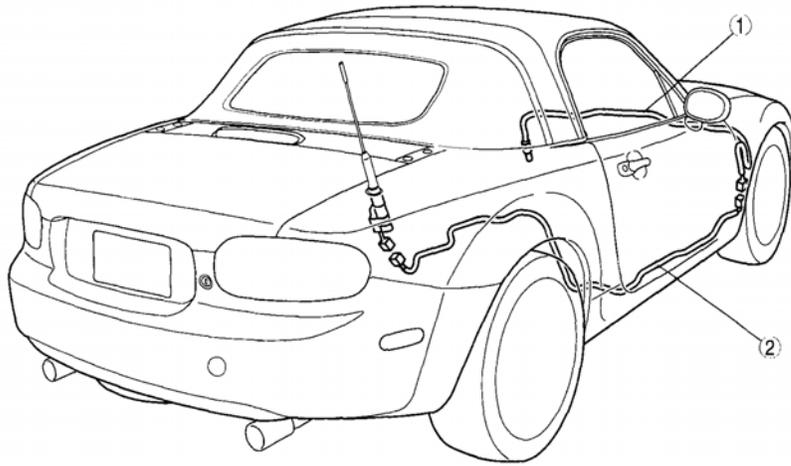
E5U920ZW5019

**Fig. 30: Identifying Manual Antenna Terminals**  
 Courtesy of MAZDA MOTORS CORP.

## ANTENNA FEEDER LOCATION

## 2007 Mazda MX-5 Miata Sport

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E5U920ZW5014

1 AM/FM antenna feeder No.1

2 AM/FM antenna feeder No.2

**Fig. 31: Identifying Antenna Feeder**  
Courtesy of MAZDA MOTORS CORP.

### AM/FM ANTENNA FEEDER NO.1 INSPECTION

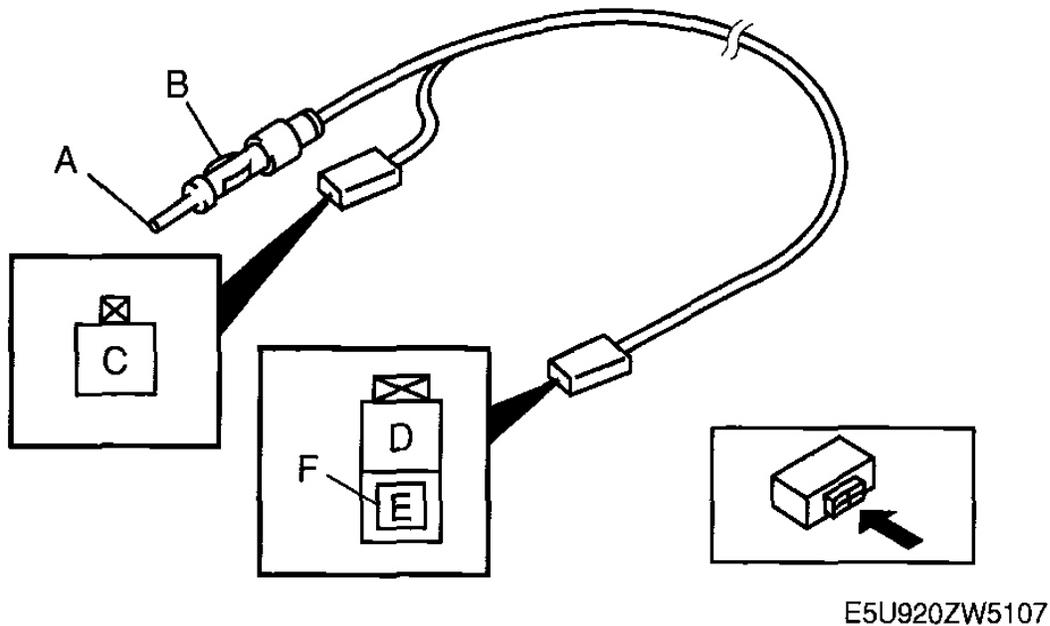
1. Verify that the continuity is as indicated in **Fig. 32**.
  - If not as indicated in the table, replace the AM/FM antenna feeder No.1.

○—○ : Continuity

Test condition	Terminal					
	A	B	C	D	E	F
Under any condition	○—				—○	
		○—				—○
			○—	—○		

E5U920ZW5118

**Fig. 32: AM/FM Antenna Feeder No. 1 Continuity Table**  
Courtesy of MAZDA MOTORS CORP.



**Fig. 33: Identifying AM/FM Antenna Feeder No. 1 Terminals & Connectors**  
 Courtesy of MAZDA MOTORS CORP.

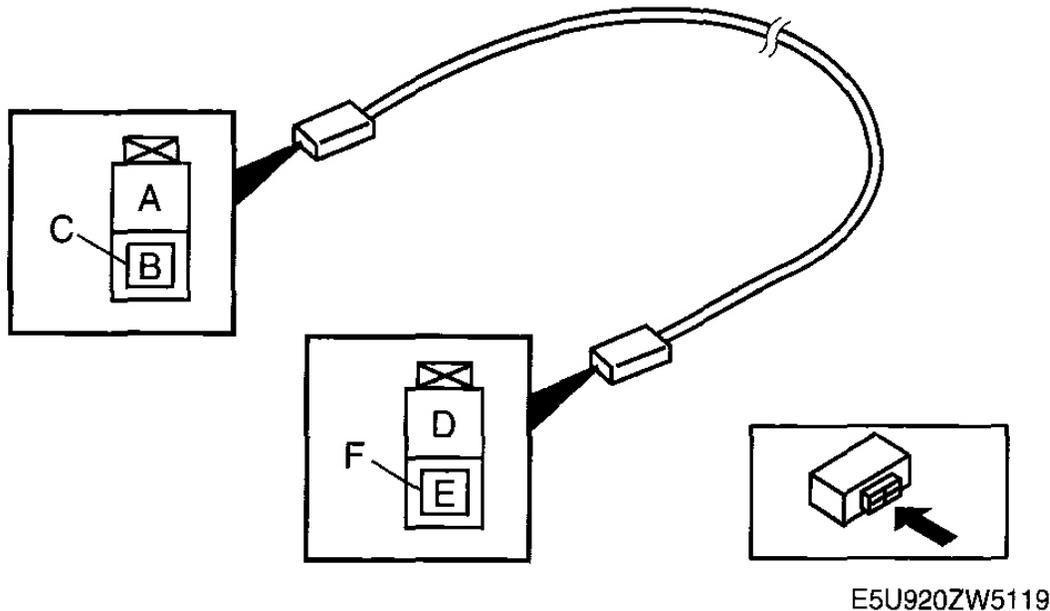
### AM/FM ANTENNA FEEDER NO.2 INSPECTION

1. Verify that the continuity is as indicated in the table.
  - If not as indicated in **Fig. 34** , replace the AM/FM antenna feeder No.2.

○—○ : Continuity

Test condition	Terminal					
	A	B	C	D	E	F
Under any condition	○			○		
		○			○	
			○			○

**Fig. 34: AM/FM Antenna Feeder No. 2 Continuity Table**  
 Courtesy of MAZDA MOTORS CORP.



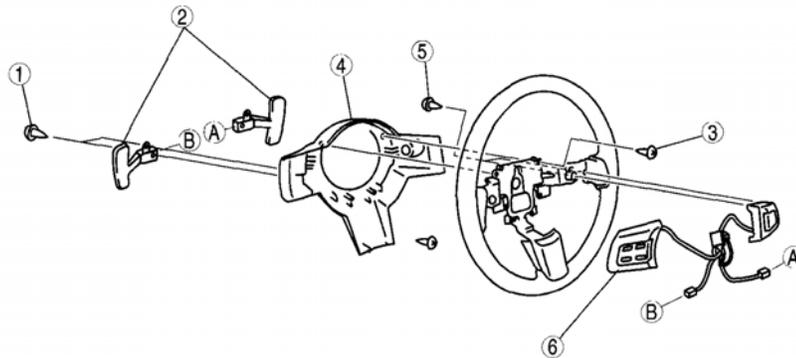
**Fig. 35: Identifying AM/FM Antenna Feeder No. 2 Terminals & Connectors**  
 Courtesy of MAZDA MOTORS CORP.

## AUDIO CONTROL SWITCH REMOVAL/INSTALLATION

### NOTE:

- For vehicles with the cruise control system, the audio control switch harness and the cruise control switch harness are united, therefore they cannot be separated.

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
3. Remove the driver-side air bag module. (See **DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION** .)
4. Remove the steering wheel. (See **STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION** .)
5. Remove in the order indicated in **Fig. 36** .



E5U920ZW5009

1	Screw A
2	Steering shift switch (AT vehicles)
3	Screw B

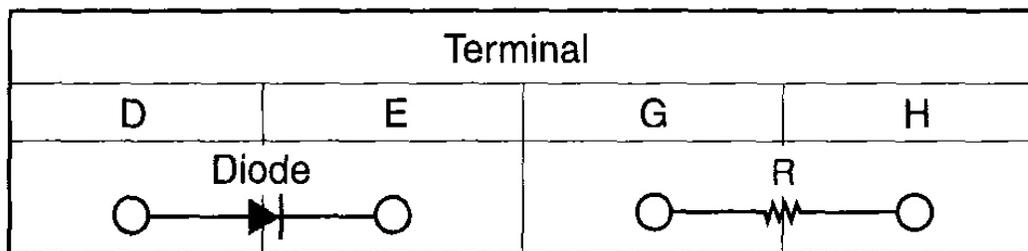
4	Cover
5	Screw C
6	Audio control switch

**Fig. 36: Removing Driver-Side Air Bag Module**  
 Courtesy of MAZDA MOTORS CORP.

6. Install in the reverse order of removal.

## AUDIO CONTROL SWITCH INSPECTION

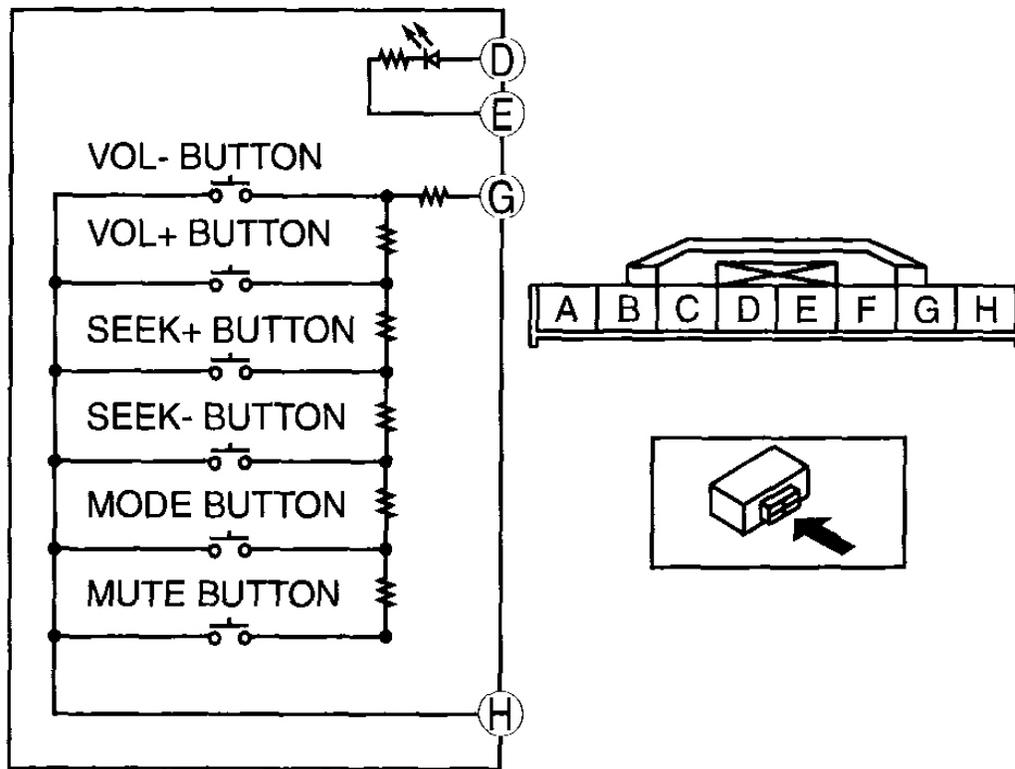
1. Verify the resistance and continuity between the audio control switch terminals.
  - If the resistance and continuity are not as indicated in the tables, replace the audio control switch.



CHU0920W021

R : Resistance. See the table.

**Fig. 37: Audio Control Switch Continuity Table**  
 Courtesy of MAZDA MOTORS CORP.



E5U920ZW5104

**Fig. 38: Identifying Audio Control Switch Terminals & Connector**  
 Courtesy of MAZDA MOTORS CORP.

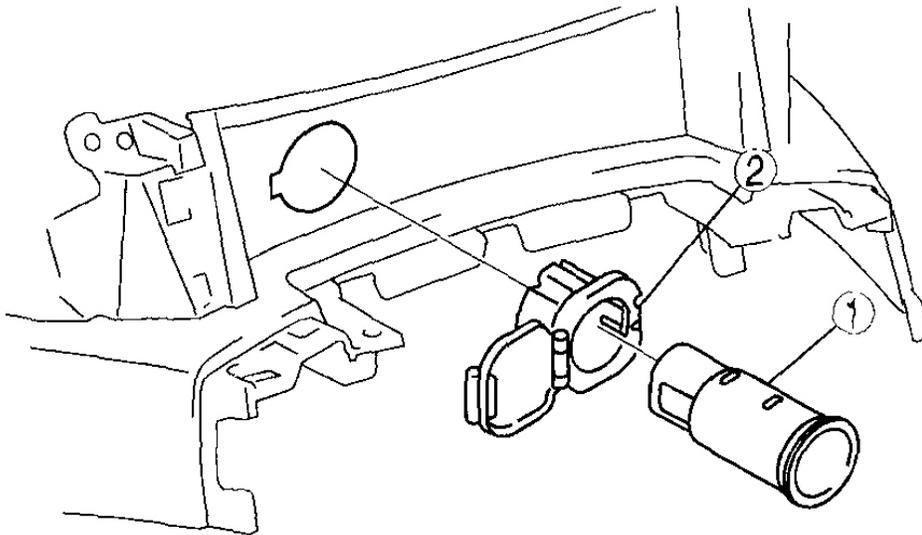
**AUDIO CONTROL SWITCH POSITION RESISTANCE**

Switch position	Resistance (ohm)
VOL- switch ON	51-56
VOL+ switch ON	140-154
SEEK-switch ON	286-315
SEEK- switch ON	534-589
MODE switch ON	985-1,080
MUTE switch ON	1,940-2,130
OFF	4,800-5,290

**ACCESSORY SOCKET REMOVAL/INSTALLATION**

1. Remove the battery cover.
2. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)

3. Remove the console. (See **CONSOLE REMOVAL/INSTALLATION** .)
4. Remove the side wall. (See **SIDE WALL REMOVAL/INSTALLATION** .)
5. Remove the console panel. (See **CONSOLE PANEL REMOVAL/INSTALLATION** .)
6. Remove in the order indicated in **Fig. 39** .
7. Install in the reverse order of removal.



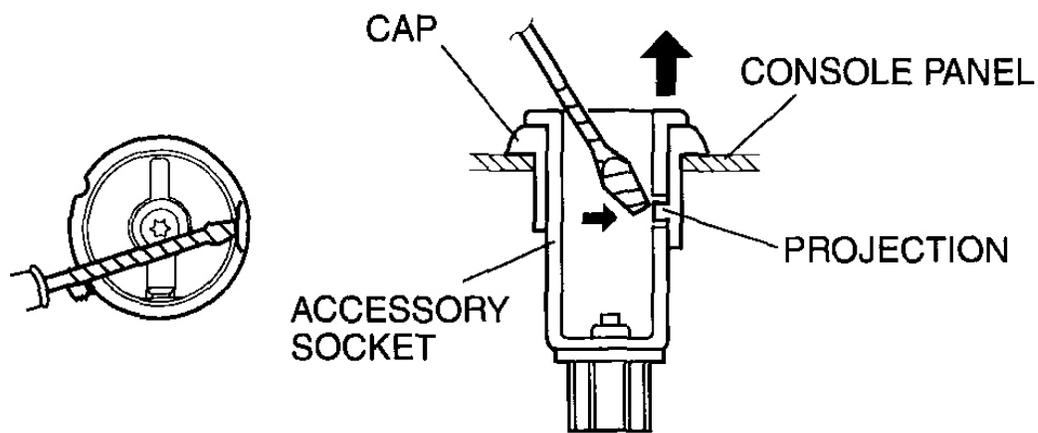
E5U920ZW5117

1	Accessory socket
2	Cap

**Fig. 39: Identifying Accessory Socket**  
Courtesy of MAZDA MOTORS CORP.

**ACCESSORY SOCKET REMOVAL NOTE**

1. While pressing a tape-wrapped flathead screwdriver against the cap projection, pull the accessory socket outward.

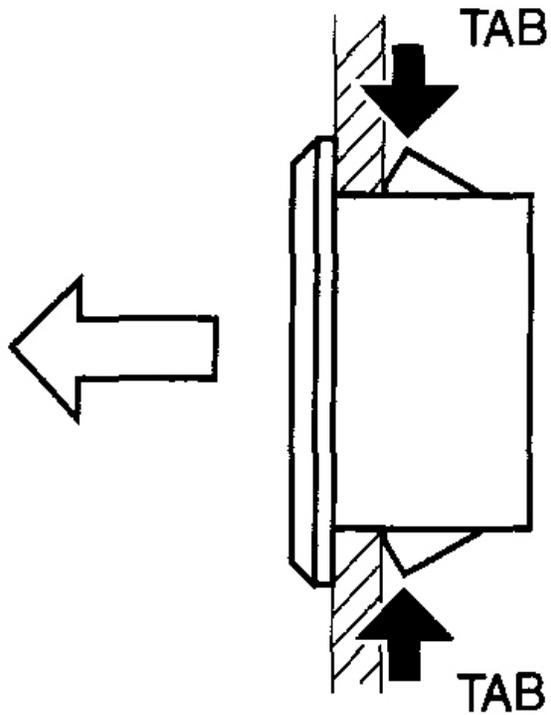


E5U920ZW5105

**Fig. 40: Removing Accessory Socket**  
Courtesy of MAZDA MOTORS CORP.

**CAP REMOVAL NOTE**

1. While pressing the tabs, pull the cap outwards.

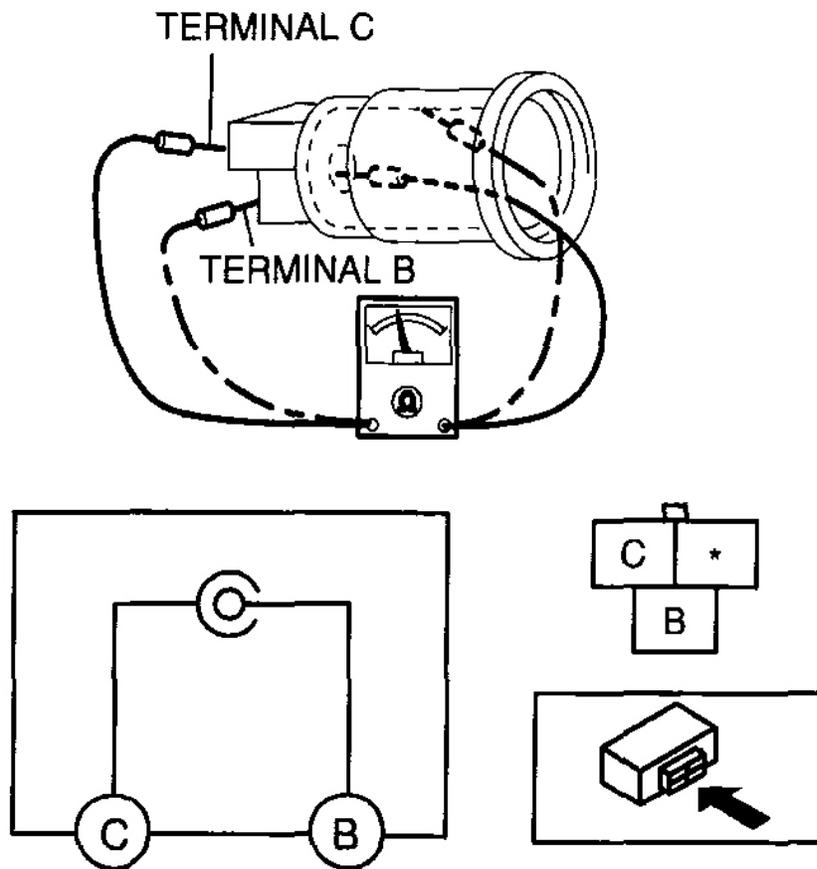


CHU0920W030

**Fig. 41: Pulling Cap Outwards When Pressing Tabs**  
Courtesy of MAZDA MOTORS CORP.

## ACCESSORY SOCKET INSPECTION

1. Connect a tester as shown in **Fig. 42** and verify that there is continuity.
  - If the continuity cannot be verified, replace the accessory socket.



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**Fig. 42: Identifying Accessory Socket Terminals & Connector**  
Courtesy of MAZDA MOTORS CORP.