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Technical Bulletin

Subject: **BOSE® Sound System, Volume Fluctuation**

Group: **91**

Number: **04-17**

Model(s): **See Table**

See Table

Date: **Aug. 12, 2004**

Condition

Customer perceived condition of radio volume changing by itself may be caused by the noise compensation function "Audiopilot", which is part of the BOSE® amplifier.

Some customers may find this function to be too aggressive and for some individuals a noticeable volume fluctuation can be heard.

Note:

Audiopilot can not be selected in the radio menu. The selectable radio function "SVC" is a vehicle speed controlled volume adjustment and operates independently from the Audiopilot.

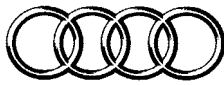
Note:

This condition is not related to in-car microphone. Do not muffle or disconnect microphone.

Production

Affects vehicles built after VINs listed below.

Year	Model	VIN
2004-2005	A4 & S4 Avant	8E_4A121218
2004-2005	A4 & S4 Sedan	8E_4A121218
2005	A4 & S4 Cabriolet	All
2003-2005	TT Coupe	All
2003-2005	TT Roadster	All



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Overview

There are two different Service Procedures incorporated into this Technical Bulletin.

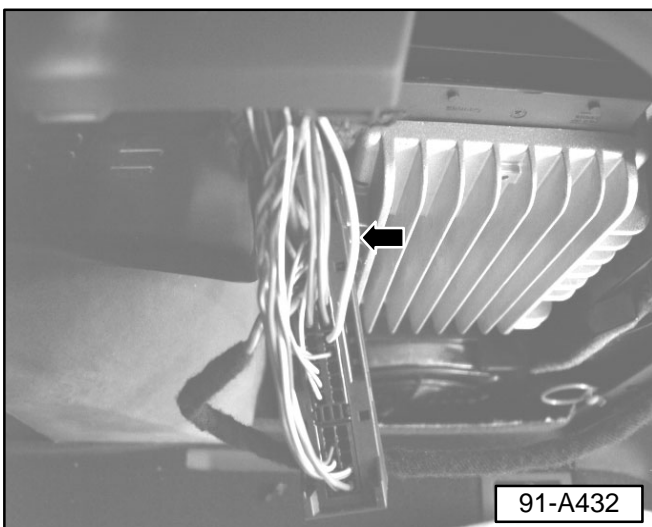
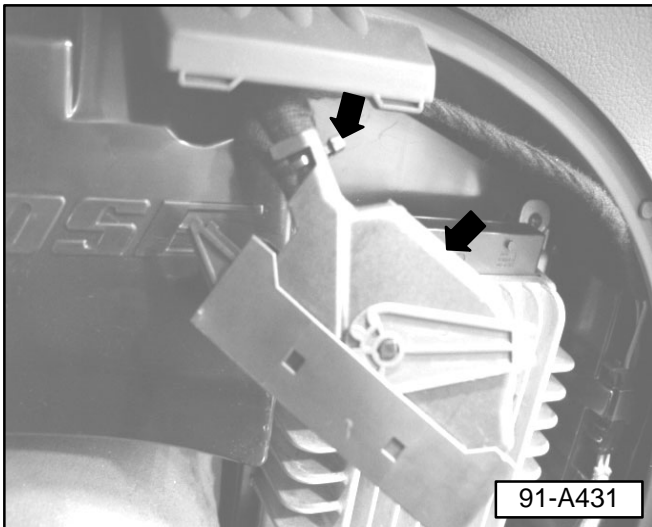
- Audiopilot Deactivation
- Enabling Speed Volume Control (SVC), if necessary.

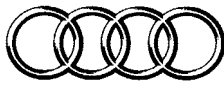
Service

Audiopilot Deactivation

The BOSE® amplifier Audiopilot function can not be disabled in the radio menu. The wiring harness electrical connector must be modified.

- If necessary, remove ignition key from ignition lock cylinder.
- Remove necessary trim. See appropriate Repair Manual, *Body Interior, Repair Group 70*.
- Disconnect amplifier electrical connector.
- ◀ - Remove tie strap and electrical connector cover -arrows-.
- Remove insulating tape on harness to expose additional wiring.
- ◀ - Locate white wire in cavity 6 -arrow-.



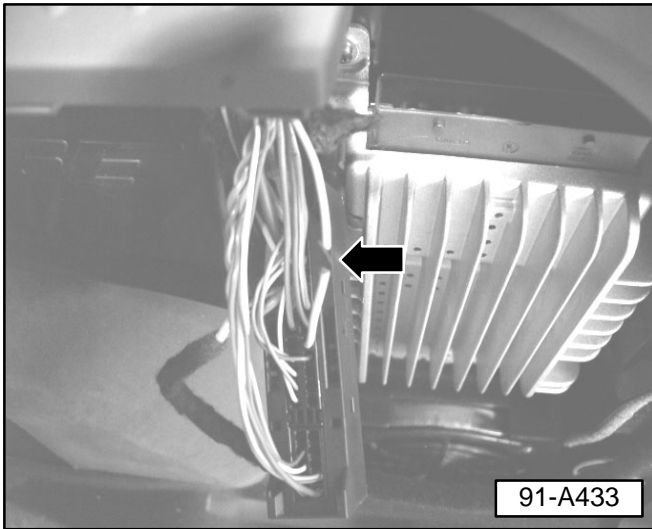


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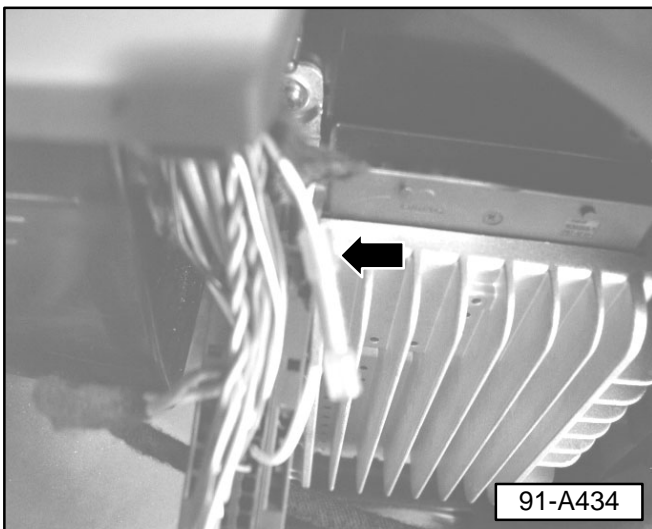
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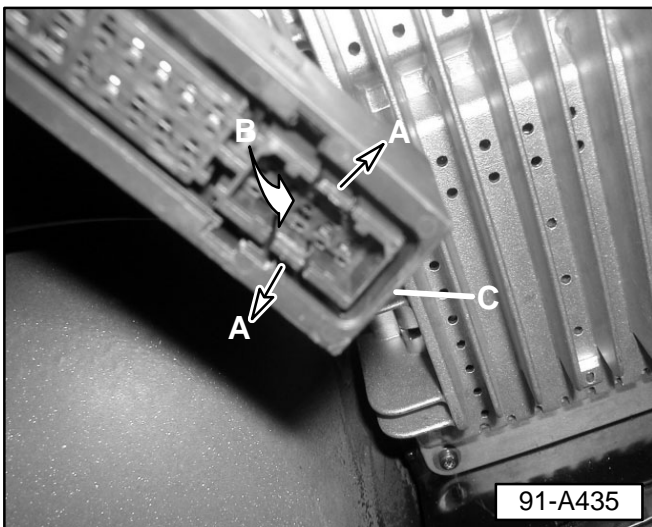
- ◀ – Cut white wire in location shown (approx. 2 1/2 inches).

Note:

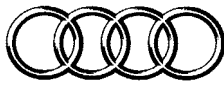
Make sure there is enough wire on both sides of cut to install a butt connector.



- Strip insulation on both wire ends 6-7 mm (approx. 1/4 inch).
- ◀ – Install blue butt connector Part No. 111 971 939B onto harness side of white wire -arrow-.
- ◆ Crimp butt connector using appropriate crimping tool from VAS 1978 Repair kit.



- ◀ – Push locking tabs outward -A- and slide inner hardshell -B- out of outer hardshell -C-.

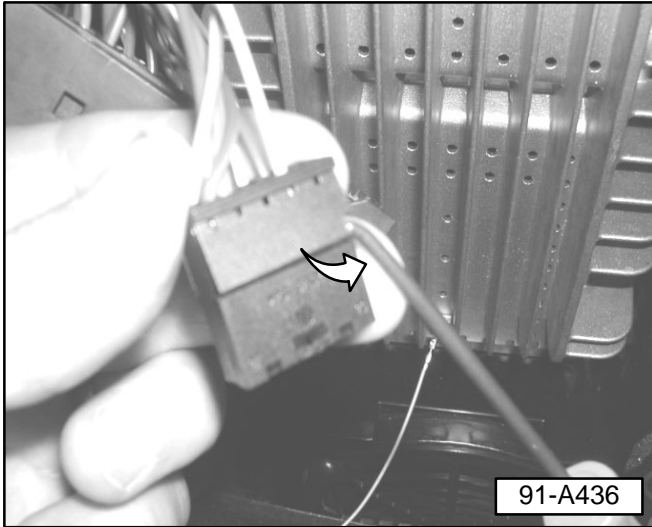


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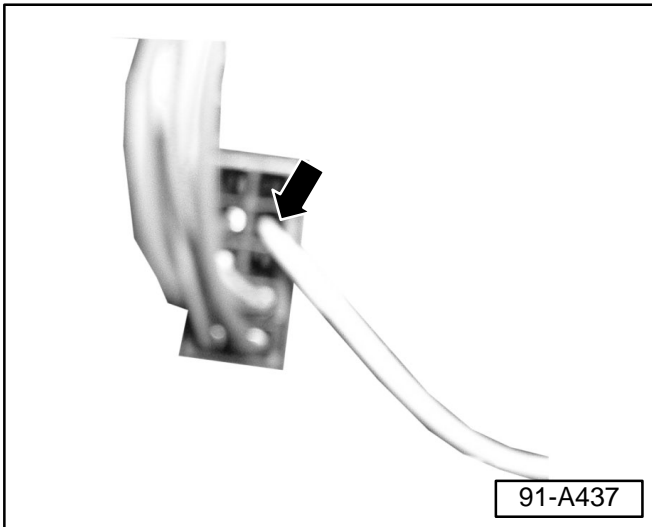


- ◀ – Release inner hardshell wire lock by rotating outward.

Note:

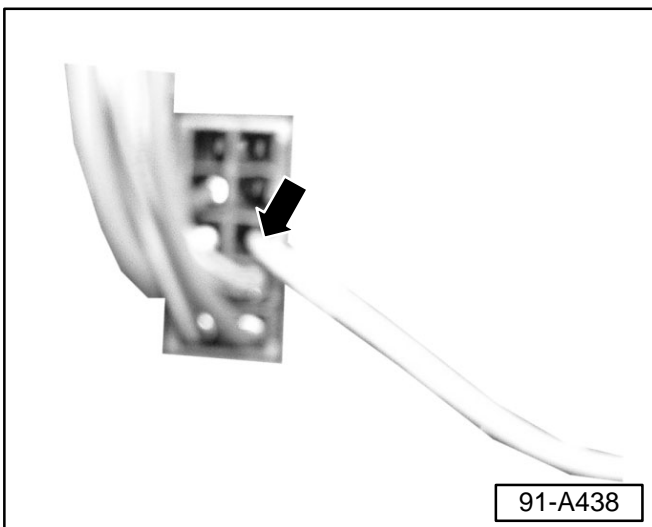
Release lock on Pin 24/25 side of connector.

On all A4, S4 & TT Coupe



- ◀ – Insert terminal of repair wire Part No. 000 979 025A into cavity 24 of amplifier connector.

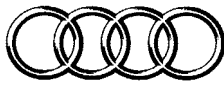
On TT Roadster



- ◀ – Insert terminal of repair wire Part No. 000 979 025A into cavity 25 of amplifier connector.

On All Models

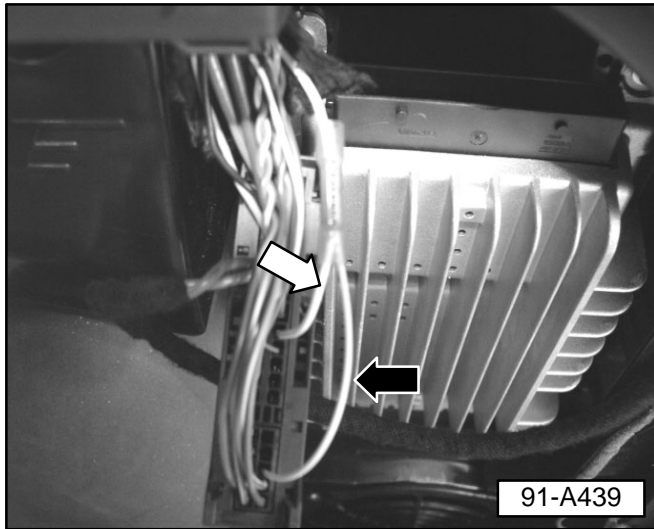
- Apply inner hardshell wire lock.
- Assemble inner and outer hardshells.



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- ◀ – Route repair wire to open side of butt connector -black arrow- and cut repair wire to length.
- Strip insulation on from repair wire 6-7 mm (approx. 1/4 inch).
- Insert connector side of white wire into open side of butt connector -white arrow-.
- ◆ Crimp butt connector using appropriate crimping tool from VAS 1978 Repair kit.

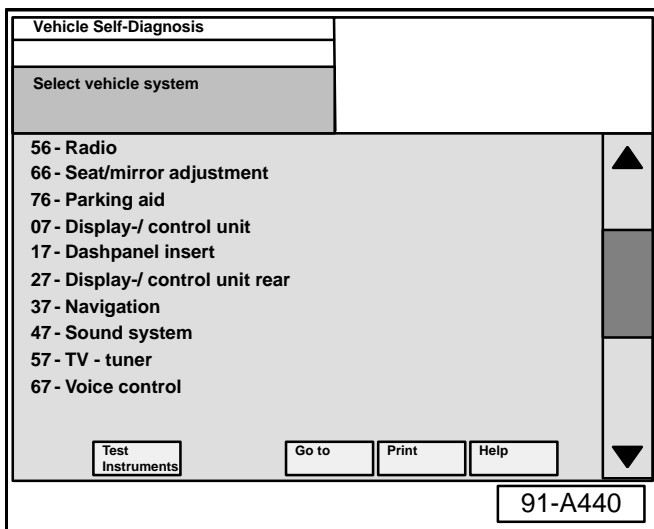
With repair wires crimped:

- Apply Electric Hot Air Blower VAS 1978/14 and Adapter for Heat Gun VAS 1978/15 to shrink and seal butt connector.

Note:

Connector must be heated by moving adapter tip from center outward until fully sealed.

- Re-tape exposed wiring and reassembly amplifier electrical connector.
- Connect amplifier electrical connector.
- Connect battery ground (GND) strap.



Enabling Speed Volume Control (SVC)

- Connect VAS 5051/5052 Diagnostic tool.
- Switch ignition ON.
- From Start-up screen, select “Vehicle Self-Diagnosis”.
- ◀ – Select vehicle system “56 - Radio”.



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Vehicle Self-Diagnosis	56 - Radio
Select diagnosis function	Component part number Component description Coding XXXX Dealership number XXXXX
02 - Interrogate fault memory 03 - Final control diagnosis 05 - Erase fault memory 06 - End output 07 - Code control unit Coding subbussystem 08 - Read Measuring Value Block 10 - Adaption 16 - Access permission Component protection Identification services	
Test Instruments	Go to Print Help
91-A441	

◀ – Select diagnosis function “10 - Adaption”.

Vehicle Self-Diagnosis	56 - Radio												
10 - Adaption	Component part number Component description Coding XXXXX Dealership number XXXXX												
Enter channel number max. input value = 99													
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <div style="border: 1px solid black; padding: 2px; text-align: center; width: 40px; margin: 0 auto;">XXX</div> <table border="1" style="margin: 5px auto; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>C</td><td>0</td><td>Q</td></tr> </table> </div>		1	2	3	4	5	6	7	8	9	C	0	Q
1	2	3											
4	5	6											
7	8	9											
C	0	Q											
Guided Fault Finding	Go to Print Help												
91-A442													

◀ – Input “66” on keypad to select “Channel 66.”
– Select “Q” button to confirm.

Note:

On some 2003–2004 TT models, Channel 66 will not be accessible. On these models, SVC is always available and can not be removed from the radio menu.



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Vehicle Self-Diagnosis	56 - Radio
10 - Adaption	Component part number
Read and test channel 66	Component description
	Coding XXXXX
	Dealership number XXXXX
0 0 8	
<input type="button" value="Keyboard"/> <input type="button" value="Save"/>	
<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A443	

◀ Channel 66 value:

- ◆ “1” = SVC **not** available in radio menu.
- ◆ “0” = SVC available in radio menu.
- Change value to “0” using keyboard button or slider bar.

Note:

On some 2003 TT models, Channel 66 will already be set to “0”. On these models, no change is necessary.

- Select “Save” and “Accept” buttons to record change.
- Review SVC function, contained in owner’s manual supplement, with consumer.

When procedure applies to vehicles within the New Vehicle Limited Warranty, use the following:	
Part Identifier:	9144
Labor Operation: A4/S4 Avant	Trim Removal, Wire Installation & Enabling SVC: 91442300 30TU
Labor Operation: A4/S4 Sedan	Trim Removal: 70031900 70 TU Wire Installation & Enabling SVC: 91442300 30 TU
Labor Operation: TT (Coupe & Roadster)	Trim Removal: 70031900 40 TU Wire Installation & Enabling SVC: 91442300 30 TU