

**Model:** SA8003

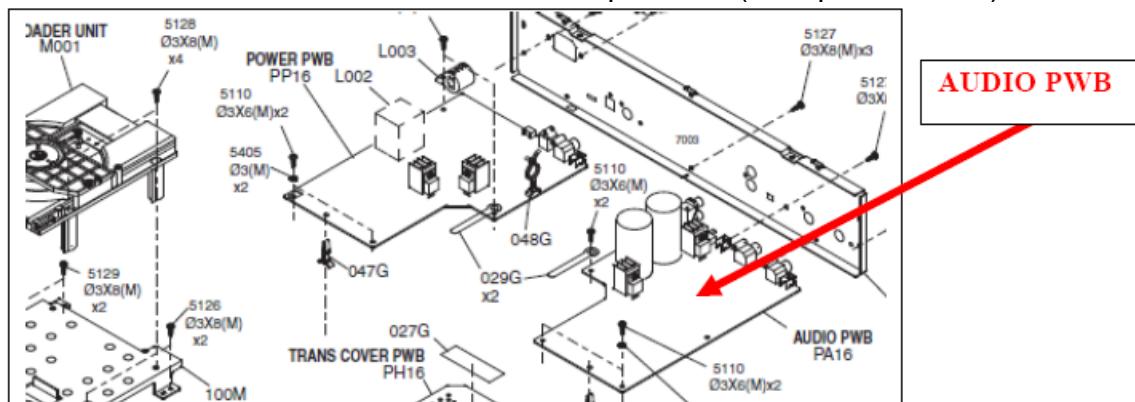
**Subject:** Improvement of analog output oscillation

**Symptom:** When the unit is connected to a PM7003, PM8003 or PM-11S2 with a special low-capacity RCA cable and only when the unit is in low temperature conditions, beat noise may occur during playback.

**Solution:** In order to prevent oscillation, a capacitor must be inserted between the base and collector of transistors in the diamond buffer input stage so as to drastically reduce the peak of the gain frequency characteristics.

Modify the POS. NO. PA16 AUDIO PWB as follows:

1. Install a 47pF ceramic capacitor between the base and collector each of Q609 and Q709.
2. Put in a rubber sheet by the base and collector each of Q609 and Q709.
3. \*Bond the rubber sheets and ceramic capacitors. (Two points each.)



**CONFIDENTIALITY NOTICE:**

The information contained in this document is intended for the exclusive use by MARANTZ Authorized Service Centers and their employees. This document may contain information that is privileged, confidential and may be protected from disclosure under applicable laws and terms of the MARANTZ Service Agreement. Any distribution, disclosure, dissemination or copying of this document and the information it contains is prohibited. No responsibility will be accepted by MARANTZ for any damage, injury or loss resulting from the misuse of the information contained in this document.

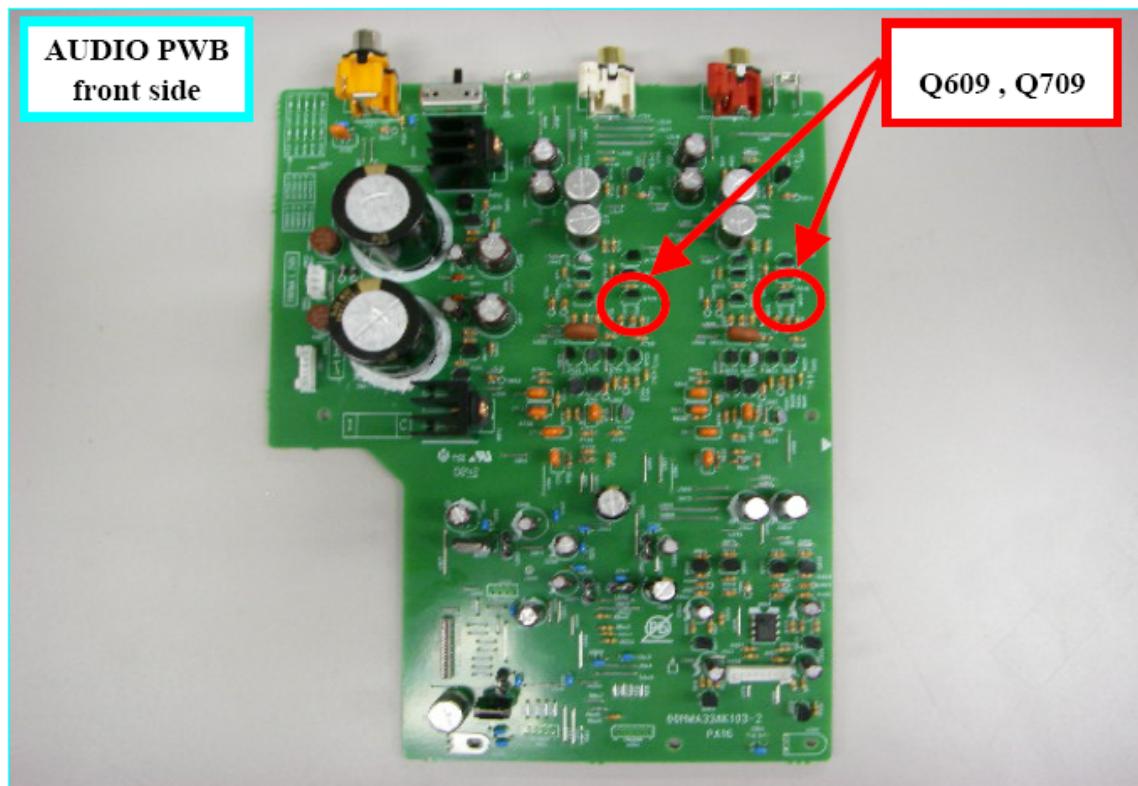
For further details of the modification procedure, please refer to the "SA7003/SA8003 AUDIO PWB Modification Procedure".

### Parts:

| Qty   | Description            | Part Number   |
|-------|------------------------|---------------|
| 2 pcs | 47pF ceramic capacitor | 00MDA15470110 |
| 2 pcs | Rubber sheet           | 00D4610415007 |
| NA    | BOND                   | SC608LVZ      |

BOND (SC608LVZ Sony Chemical Corp. Self-extinguishing adhesive) or the equivalent. See **Sony bond technical tip** for equivalent bond.

### SA8003 AUDIO PWB Modification Procedure



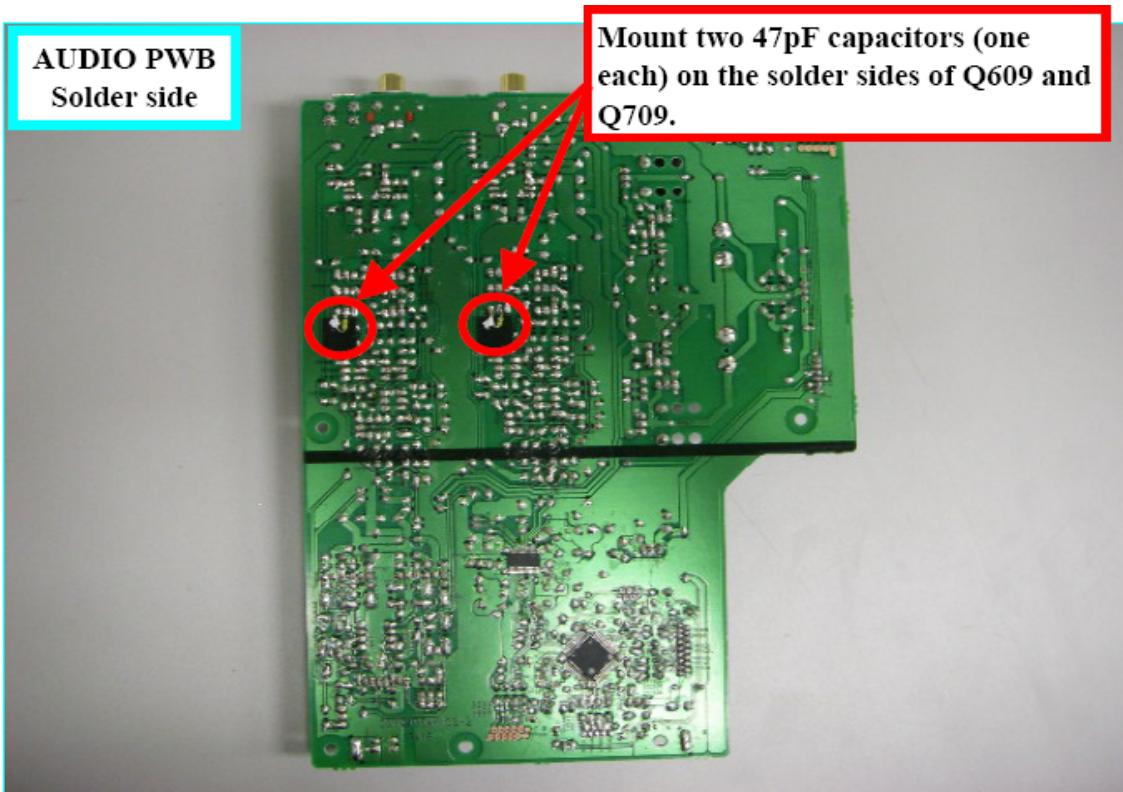
---

#### CONFIDENTIALITY NOTICE:

The information contained in this document is intended for the exclusive use by MARANTZ Authorized Service Centers and their employees. This document may contain information that is privileged, confidential and may be protected from disclosure under applicable laws and terms of the MARANTZ Service Agreement. Any distribution, disclosure, dissemination or copying of this document and the information it contains is prohibited. No responsibility will be accepted by MARANTZ for any damage, injury or loss resulting from the misuse of the information contained in this document.

**AUDIO PWB**  
Solder side

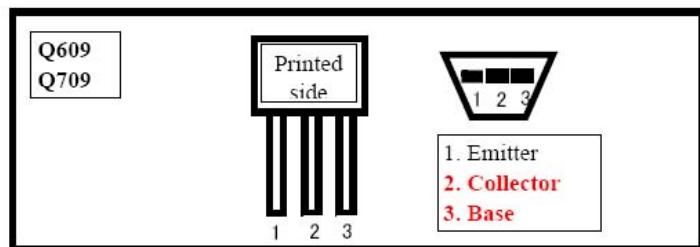
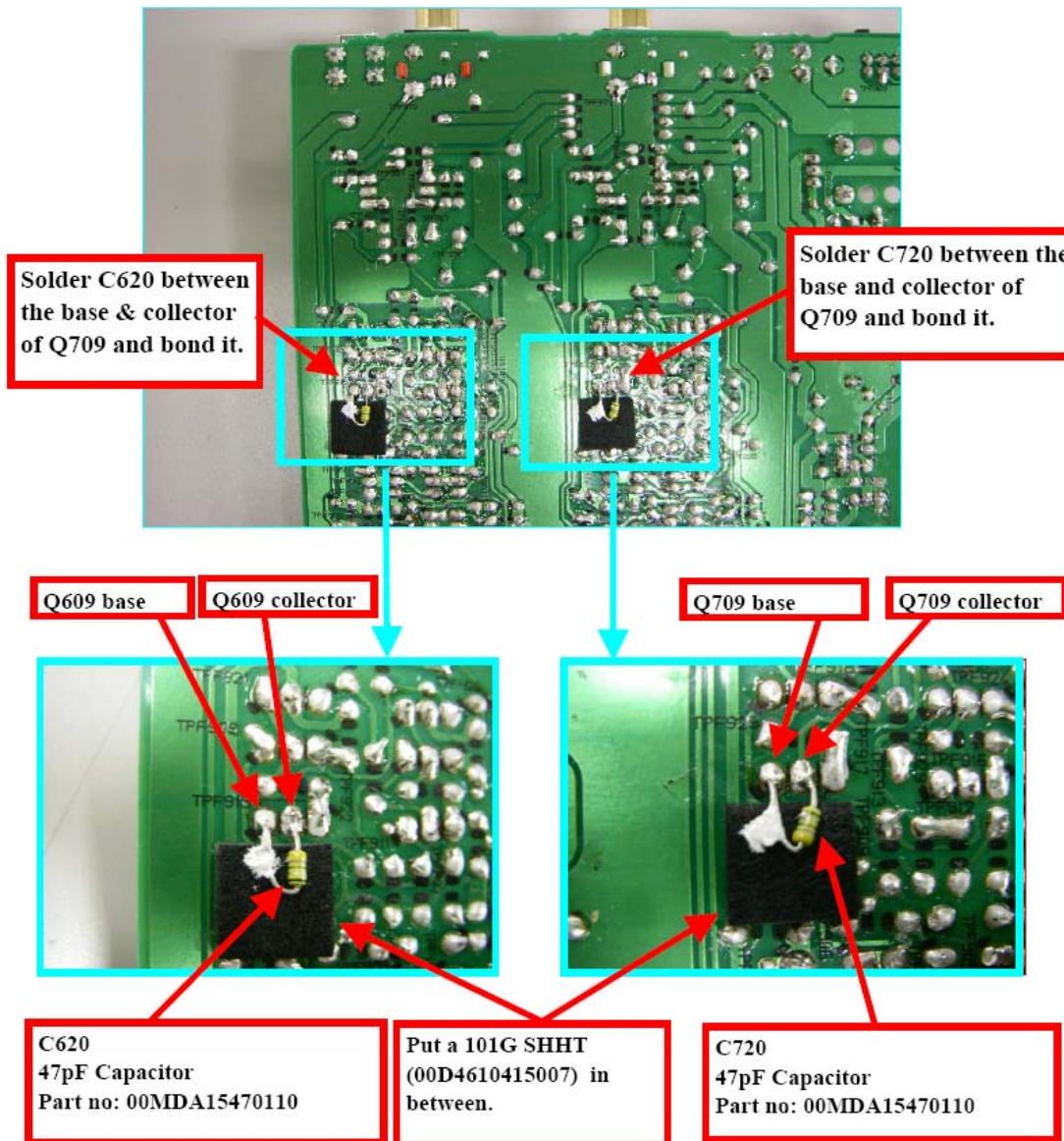
Mount two 47pF capacitors (one each) on the solder sides of Q609 and Q709.



---

**CONFIDENTIALITY NOTICE:**

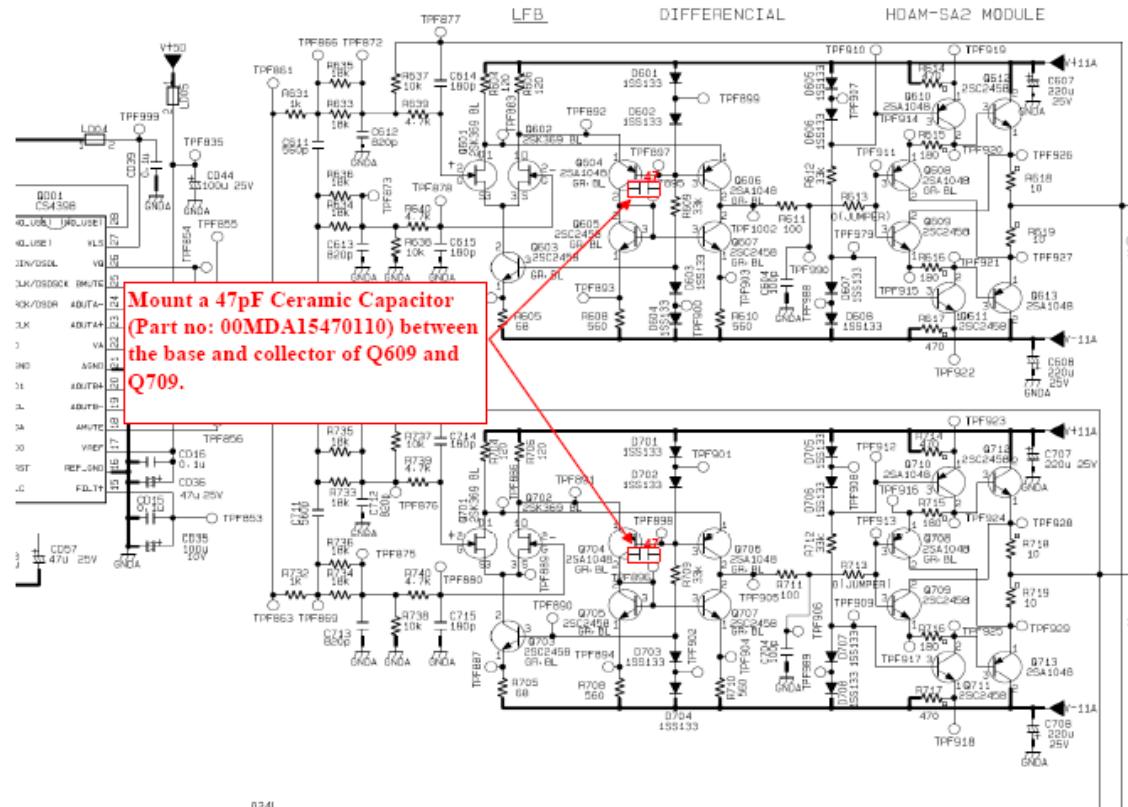
The information contained in this document is intended for the exclusive use by MARANTZ Authorized Service Centers and their employees. This document may contain information that is privileged, confidential and may be protected from disclosure under applicable laws and terms of the MARANTZ Service Agreement. Any distribution, disclosure, dissemination or copying of this document and the information it contains is prohibited. No responsibility will be accepted by MARANTZ for any damage, injury or loss resulting from the misuse of the information contained in this document.



#### CONFIDENTIALITY NOTICE:

The information contained in this document is intended for the exclusive use by MARANTZ Authorized Service Centers and their employees. This document may contain information that is privileged, confidential and may be protected from disclosure under applicable laws and terms of the MARANTZ Service Agreement. Any distribution, disclosure, dissemination or copying of this document and the information it contains is prohibited. No responsibility will be accepted by MARANTZ for any damage, injury or loss resulting from the misuse of the information contained in this document.

## SA8003 Anti-oscillation modification points (Analog output circuit)



### Serial Number Range:

Applicable up to "C10008xx000300"

From "C10008xx000301" already modified in production.

### CONFIDENTIALITY NOTICE:

The information contained in this document is intended for the exclusive use by MARANTZ Authorized Service Centers and their employees. This document may contain information that is privileged, confidential and may be protected from disclosure under applicable laws and terms of the MARANTZ Service Agreement. Any distribution, disclosure, dissemination or copying of this document and the information it contains is prohibited. No responsibility will be accepted by MARANTZ for any damage, injury or loss resulting from the misuse of the information contained in this document.