



## **Service Bulletin**

**No. :** MZ09-012

**Date:** February 18, 2009

---

**Model:** PM-11S2

**Subject:** Improvement of PHONO (MC) Pop Noise.

**Symptom:** When the unit is powered on while on PHONO MC input, pop noise occurs when the unit comes out of speaker MUTE. Pop noise can be heard after the unit has been left OFF for a while.

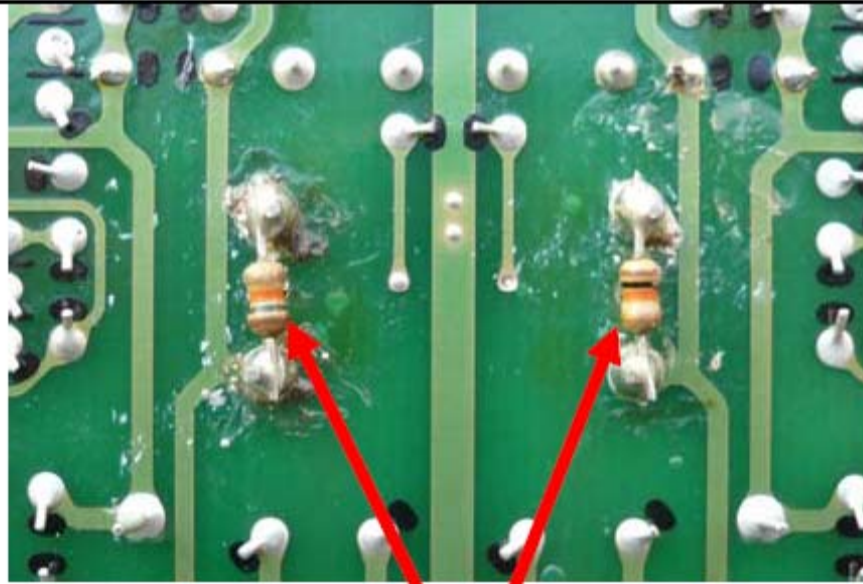
### **Solution:**

- R459 and R460 (10K Ohm) are to be mounted with C411 and C412 on the back of the P401 PHONO/BLANCE PWB, and then bonded to the PWB.
- The servo circuit is to be modified to start faster and be capable of stabilizing within the MUTE period.
- R459 and R460 will stabilize the DC voltage for C411 and C412 and reduce the output offset voltage. If the output offset voltage is reduced when the unit is off, it will take a shorter time for C423 and C424 to get recharged when the unit is powered on and also for the circuit to stabilize, thereby eliminating the pop noise.

---

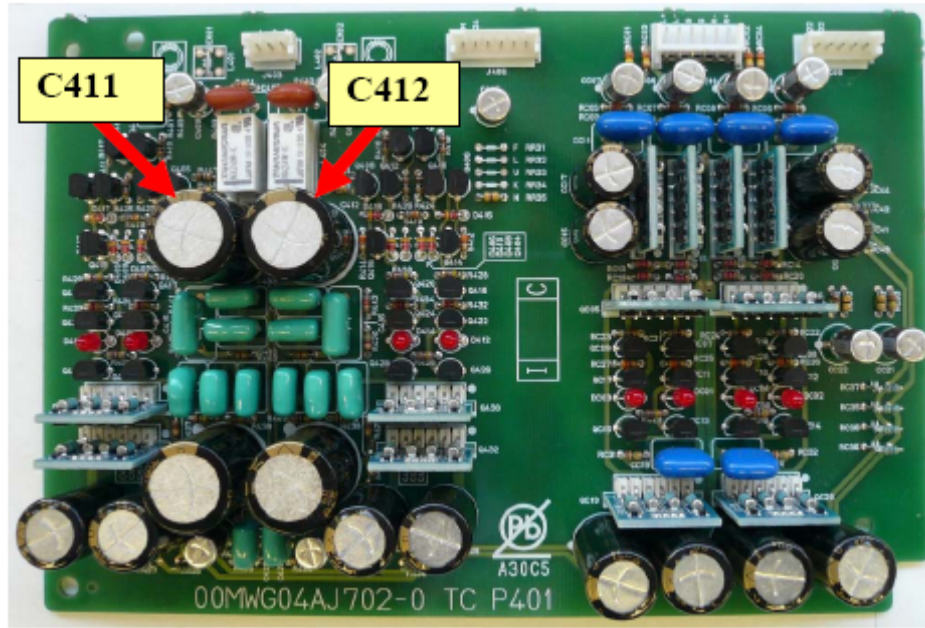
#### **CONFIDENTIALITY NOTICE:**

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.



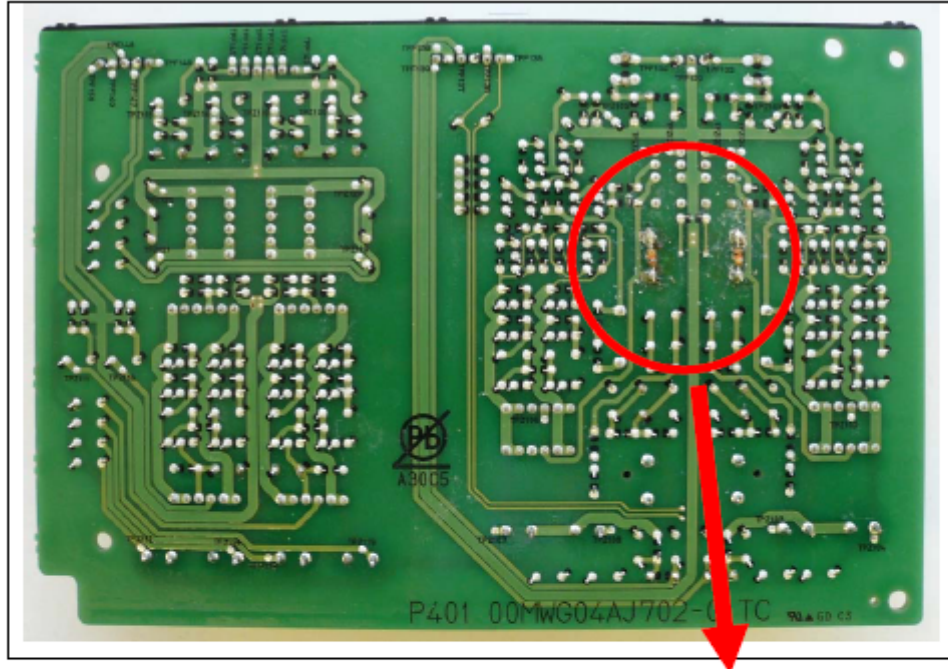
**10K Ohm to be  
mounted on back**

**P401 PHONO/BLANCE PWB**

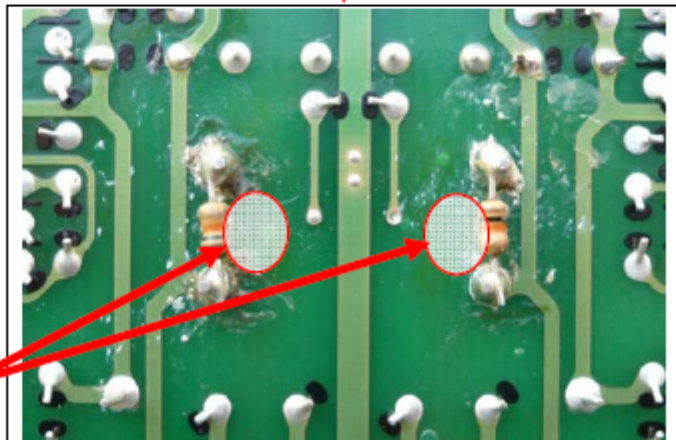


#### **CONFIDENTIALITY NOTICE:**

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.

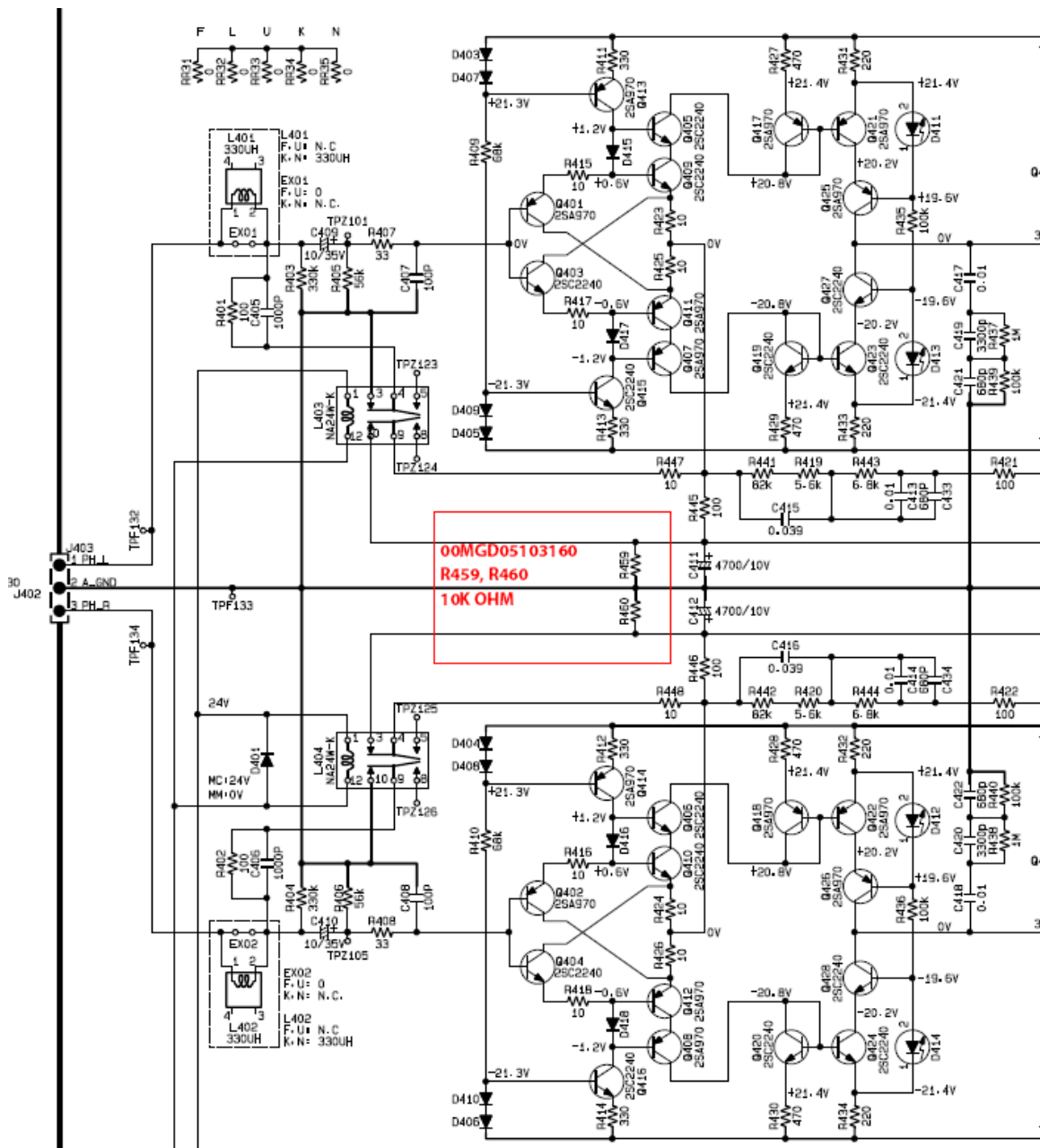


**Solder and then  
bond\* to the board.**



#### **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.



## Parts:

Ref#	Description	Part Number
R459, R460	10K OHM +5% 1/6W, Carbon film fixed resistor	00MGD05103160
NA	SONY Bond SC608LVZ (Self-extinguishing adhesive) or equivalent.	NA

## 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.

**Serial Number Range:**

To "200008xx000050".

From "200008xx000051" and above: already modified during mass 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.