TEAC **TECHNICAL INFORMATION**

TASCAM CD-RW2000, Phase Difference on Analog In/Out

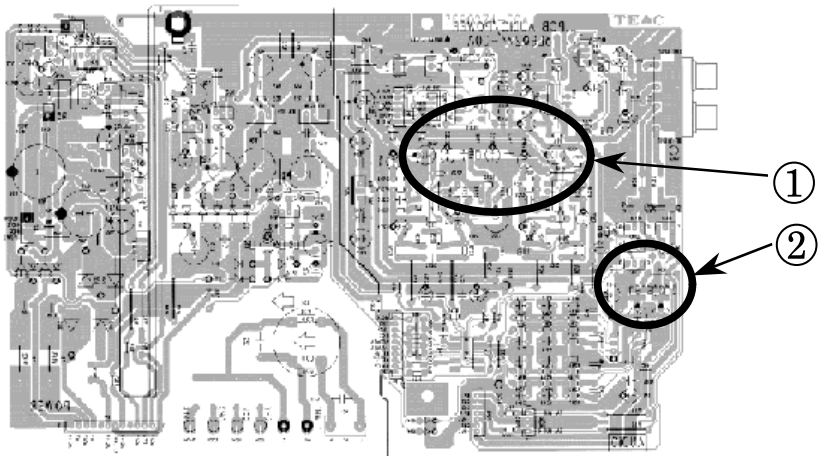
No. **0102**
DATE 15th March 2001

U122 (CRYSTAL CS4223, audio codec) on the Audio/Power PCB Assy has a native phase difference between L and R by one sample.

* No problem on digital in/out.
* No problem through AD-DA overall operation.
* No problem with a CD-R/RW media recorded by the CD-RW700 or the RW-800.

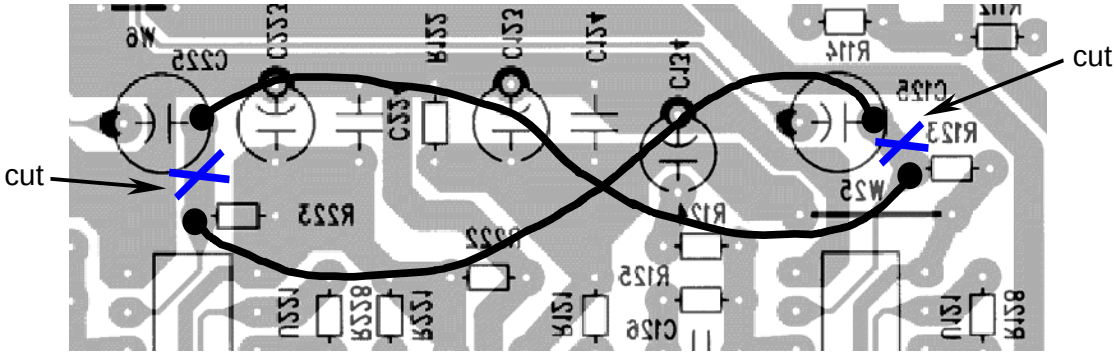
To correct the phase difference, change in the following pages has been made on the products with S/No. 0080001 and higher.

AUDIO/POWER PCB Assy (Bottom Side)



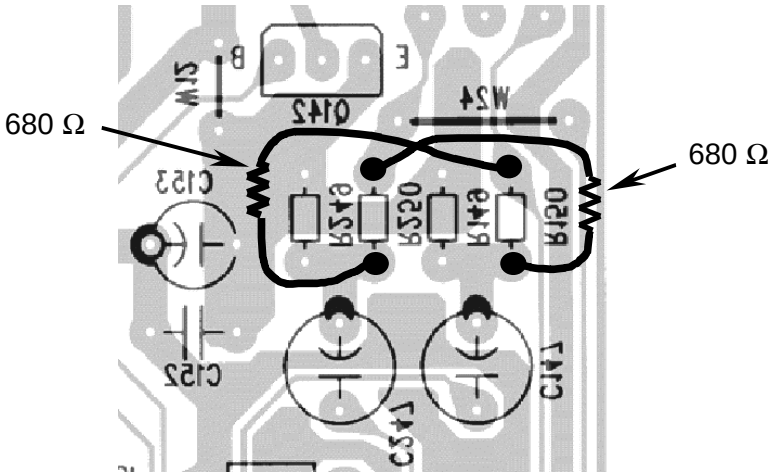
Note: ① and ② circled above correspond to enlarged drawings below.

①
- Cut foil pattern at two spots.
- Add 2 pcs of jumper wires.

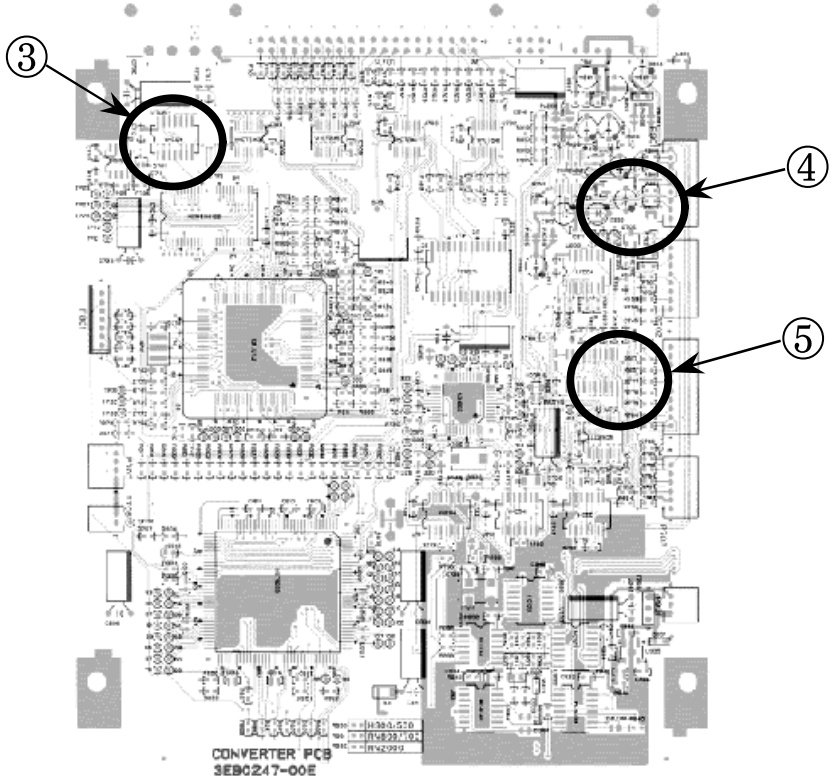


②
- Remove R150 and R250 (680 Ω).
- Mount 2 pcs of 680 Ω resistor as shown below.

  Note: Original R150/R250 are 680 Ω. Then they can be re-used but lead wire may be short requiring extension with additional wires.

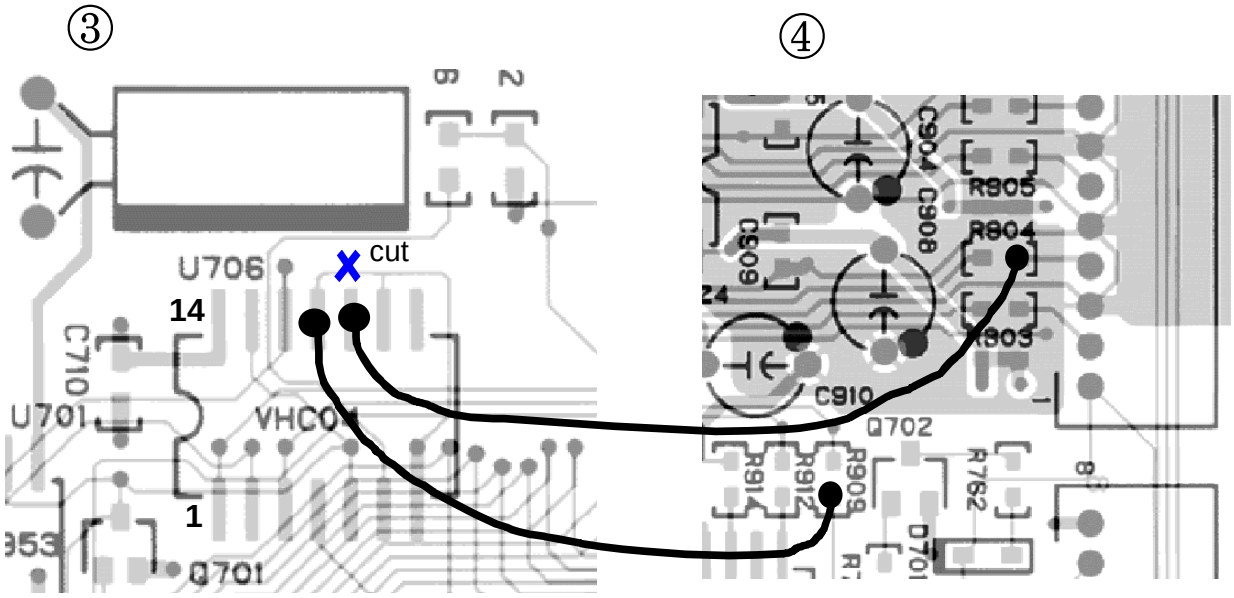


CONVERTER PCB Assy (Top Side)



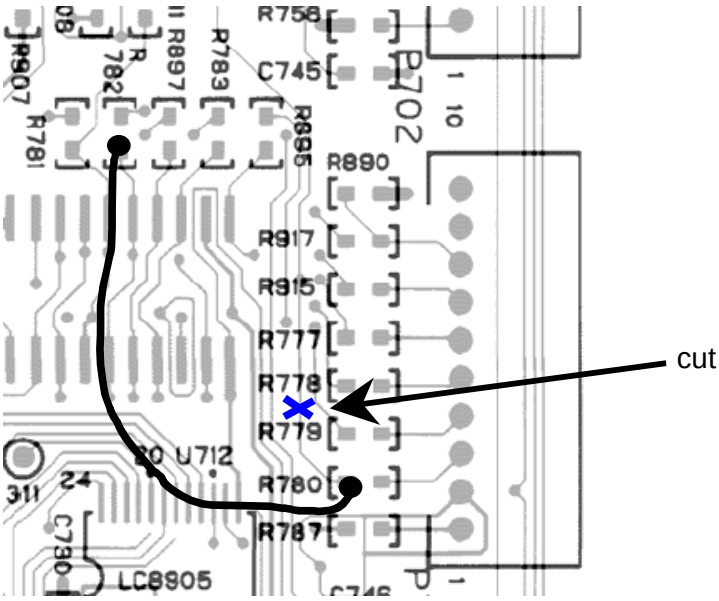
Note: ③, ④ and ⑤ circled above correspond to enlarged drawings in the following pages.

- Cut foil patter between U706-11 and GND.
- Cut foil patter between U706-11 and GND.
- Add a jumper wire between U706-10 and R904.
- Add a jumper wire between U706-11 and R909.



- Cut foil pattern between R780 and through hole.
- Add a jumper wire between R782 and R780.

⑤



- Disconnect and cut a wire of P124-3 (brown) on the Audio/Power PCB Assy.
- Insert a new wire to vacant pin 3.
  New wire: P/No. 3E01519-00A
  Wire UL 1007 #26 330mm BRW
- Solder the other end of the new wire to P901-4 (through hole) on the CONVERTER PCB Assy.
- Insert the P124 to original position.

④

