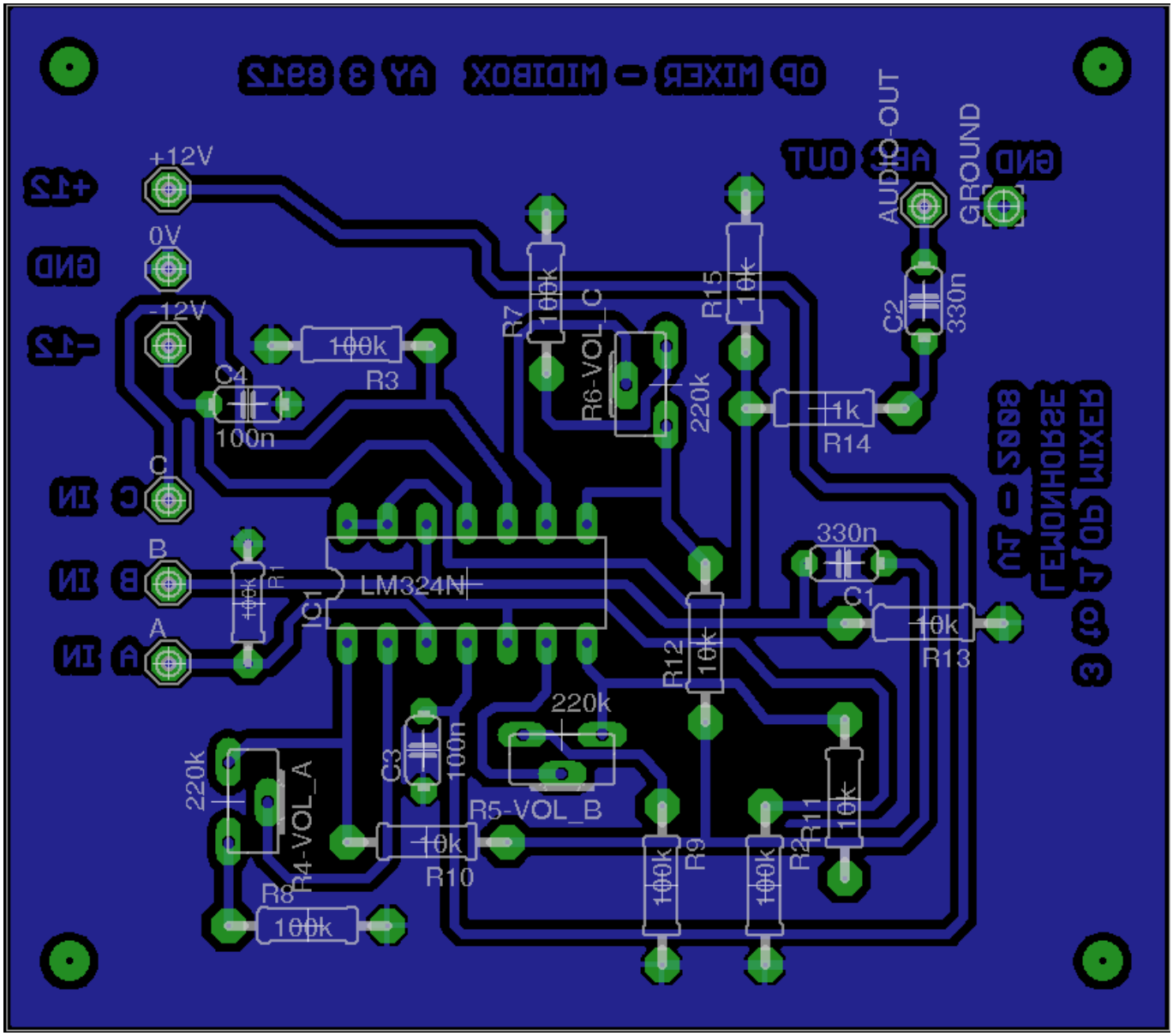
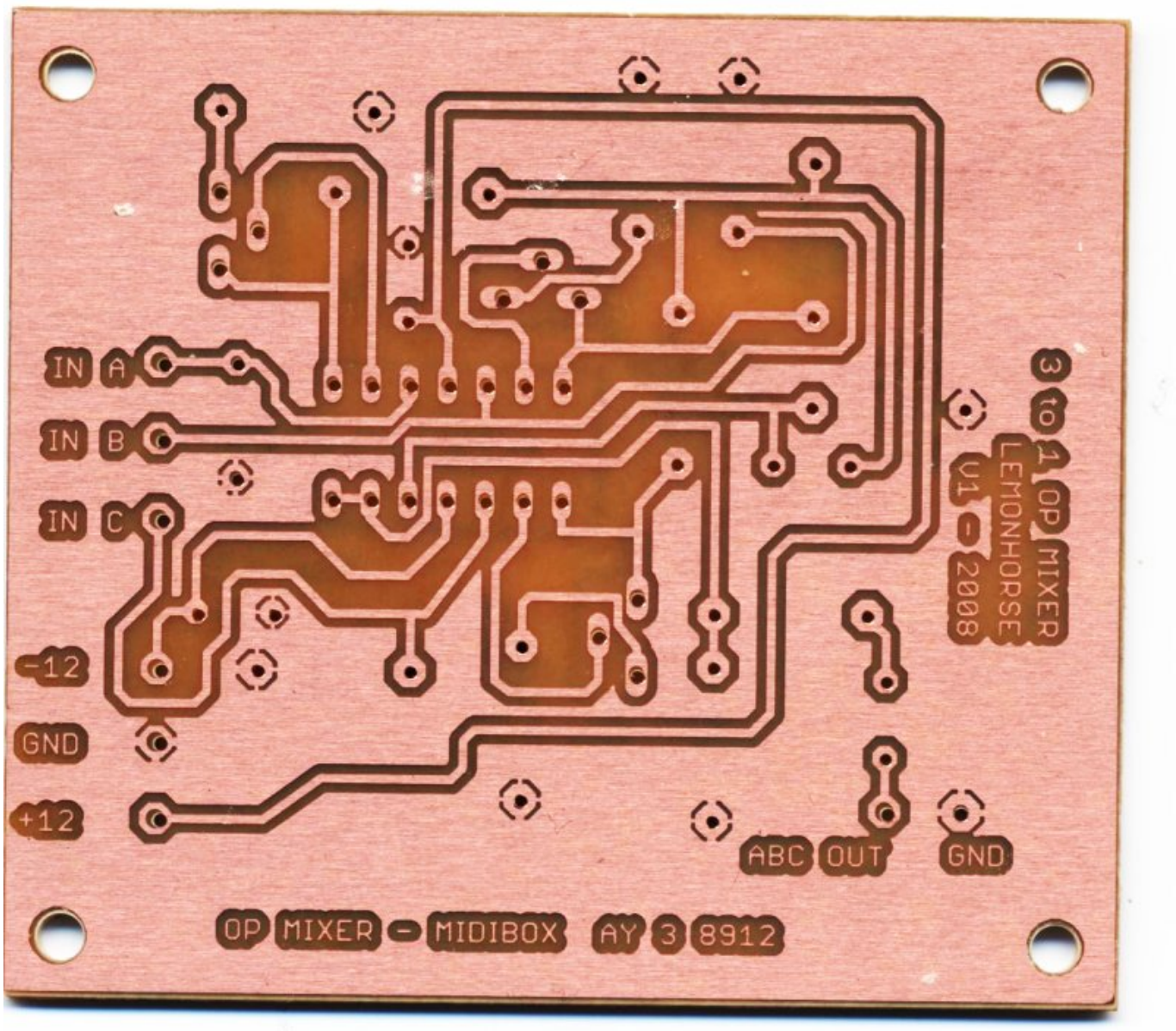
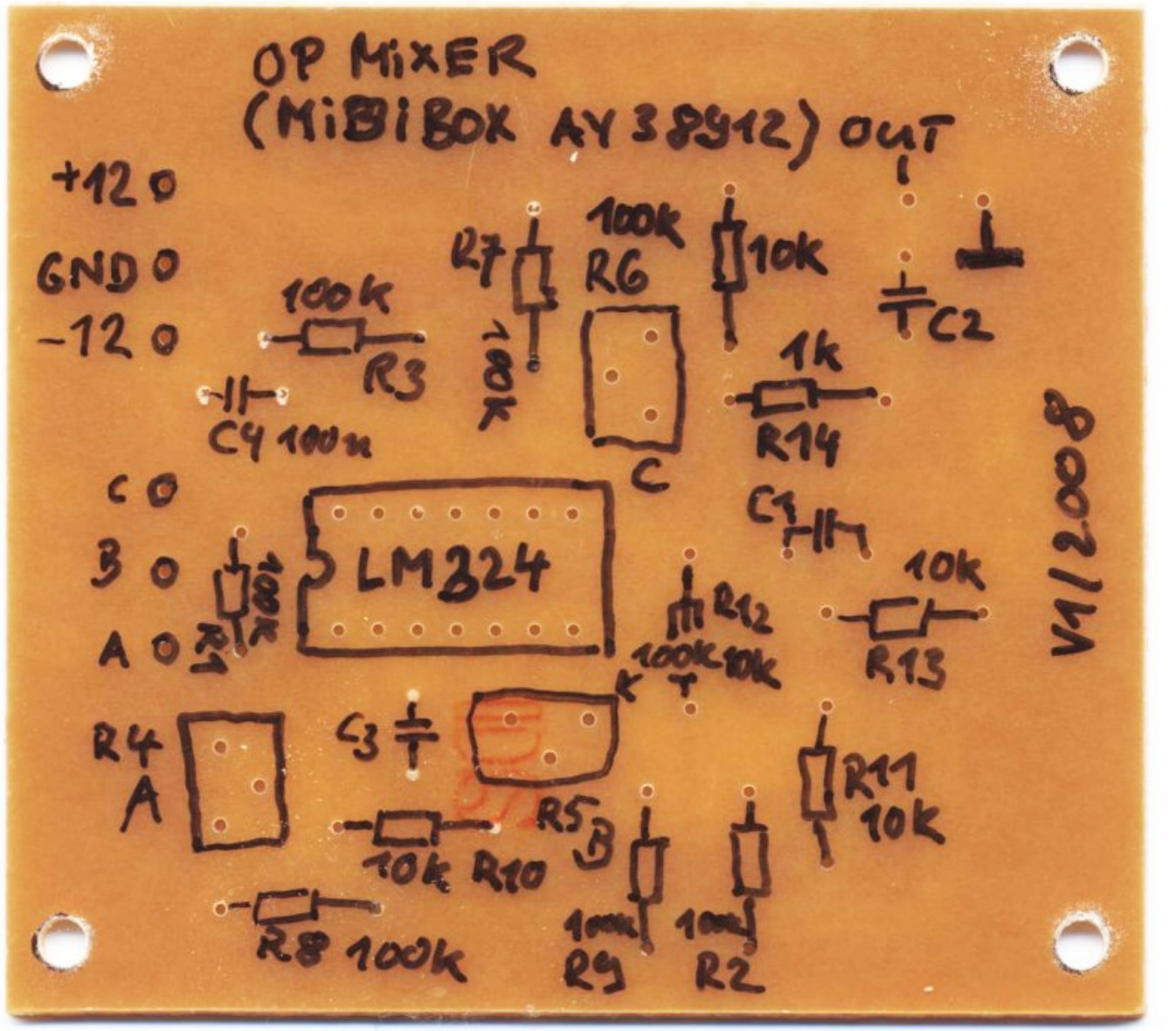
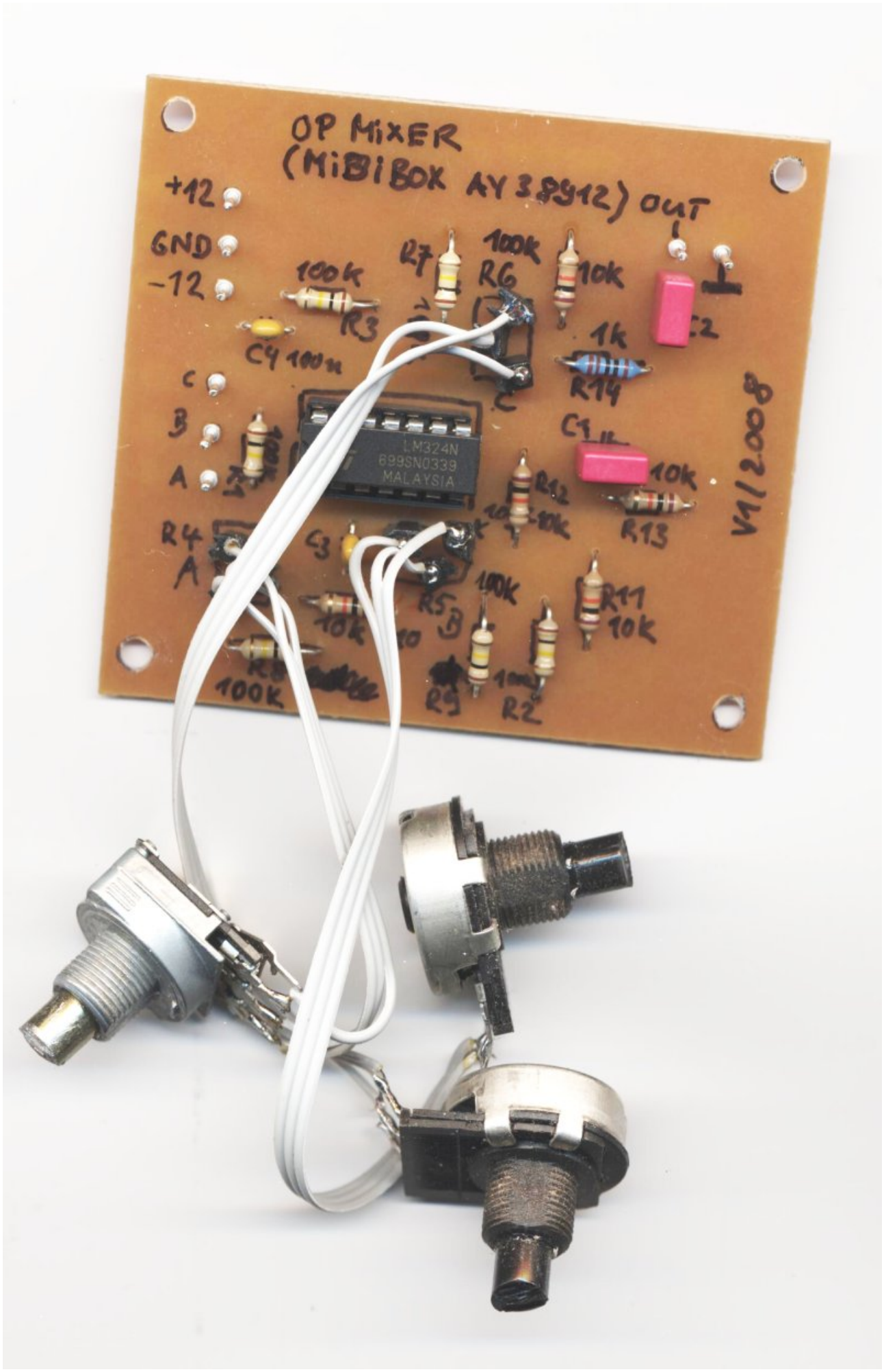
# MIDIBox AY 3 8912 Mixer

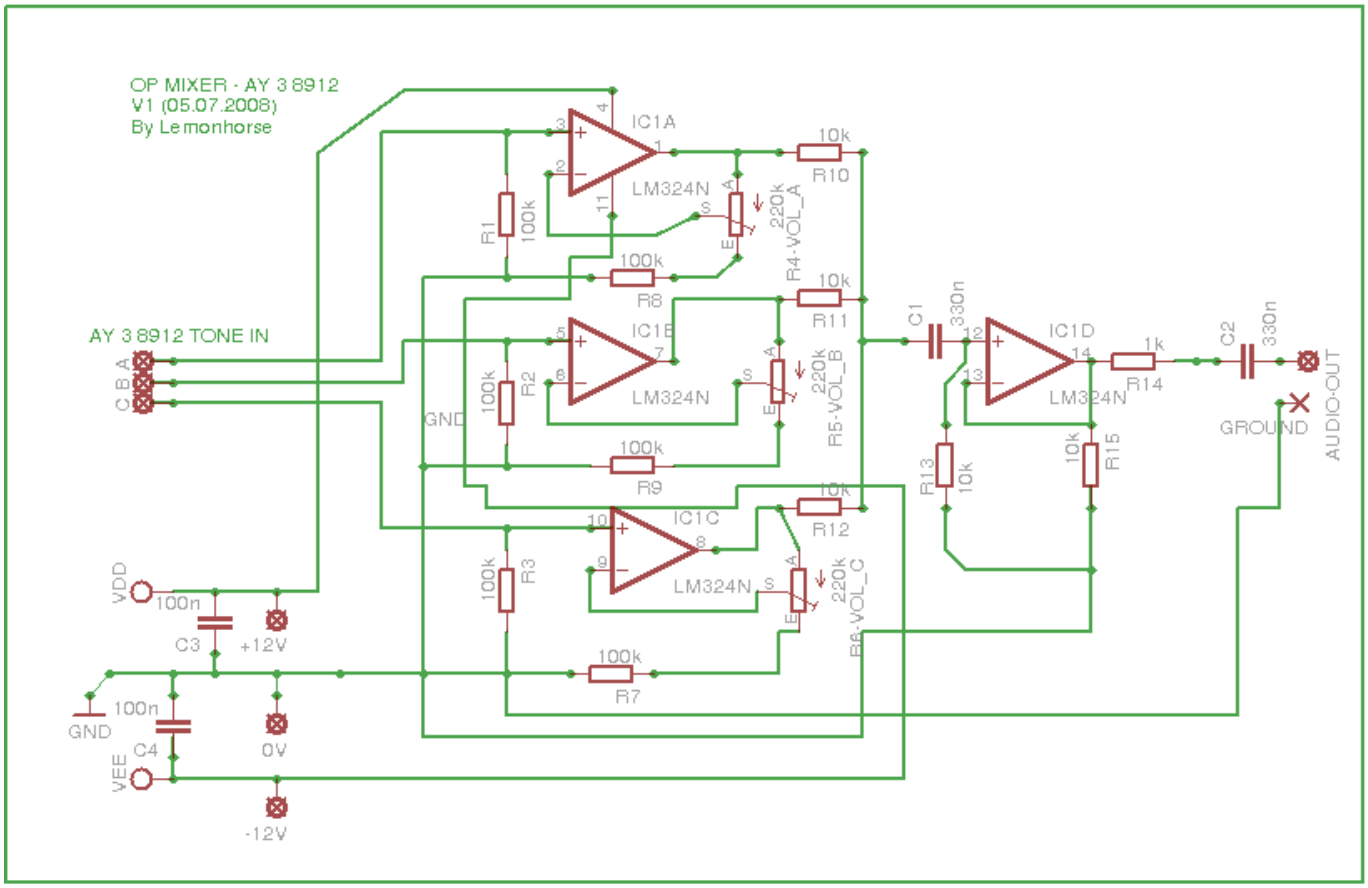
- OP AMP Mixer (Tone ABC) for the MIDIBox AY 3 8912 (Ver. 1a)




IN A
IN B
IN C
-12
GND
+12
ABC OUT GND
OP MIXER - MIDIBOX AY 3 8912
3 to 1 OP MIXER
LEMONHORSE
V1 - 2008


OP MIXER
(MIDIBOX AY 38912) OUT
+12
GND
-12
C
B
A
R7
100k
R6
10k
C2
100k
R3
C4 100n
1k
R14
C
C1
LM324
R12
100k
10k
R13
R4
A
C3
R5
B
R11
10k
10k R10
R8 100k
R9
R2
V1/2008


OP MIXER
(MIDIBOX AY 3 8912) OUT
+12
GND
-12
100k
R3
R7
100k
R6
10k
C4 100n
1k
R14
C
B
A
LM324N
699SN0339
MALAYSIA
C1
10k
R12
R13
R4
A
C3
100k
R5
B
R11
10k
10k
100k
R9
R2
V1/2008




**Notes:**

- Pot R4 (Volume Tone A), R5 (Volume Tone B) and R6 (Volume Tone C) are designed for volume finetuning (not for turning off tone A/B/C)

**Pot Options:**

- R4, R5, R6 = 100k (less volume)
- R4, R5, R6 = 220k (more volume)

**OP: LM324N (4xOP, +/-12V) - Datasheet:**

- ⇒ LM324N.pdf /
- ⇒ lm324.pdf

**Download: Eagle 5.1 Files + Partlist - MIDIBox AY 3 8912 Mixer (Ver.1a)**

mbay_eagle.zip

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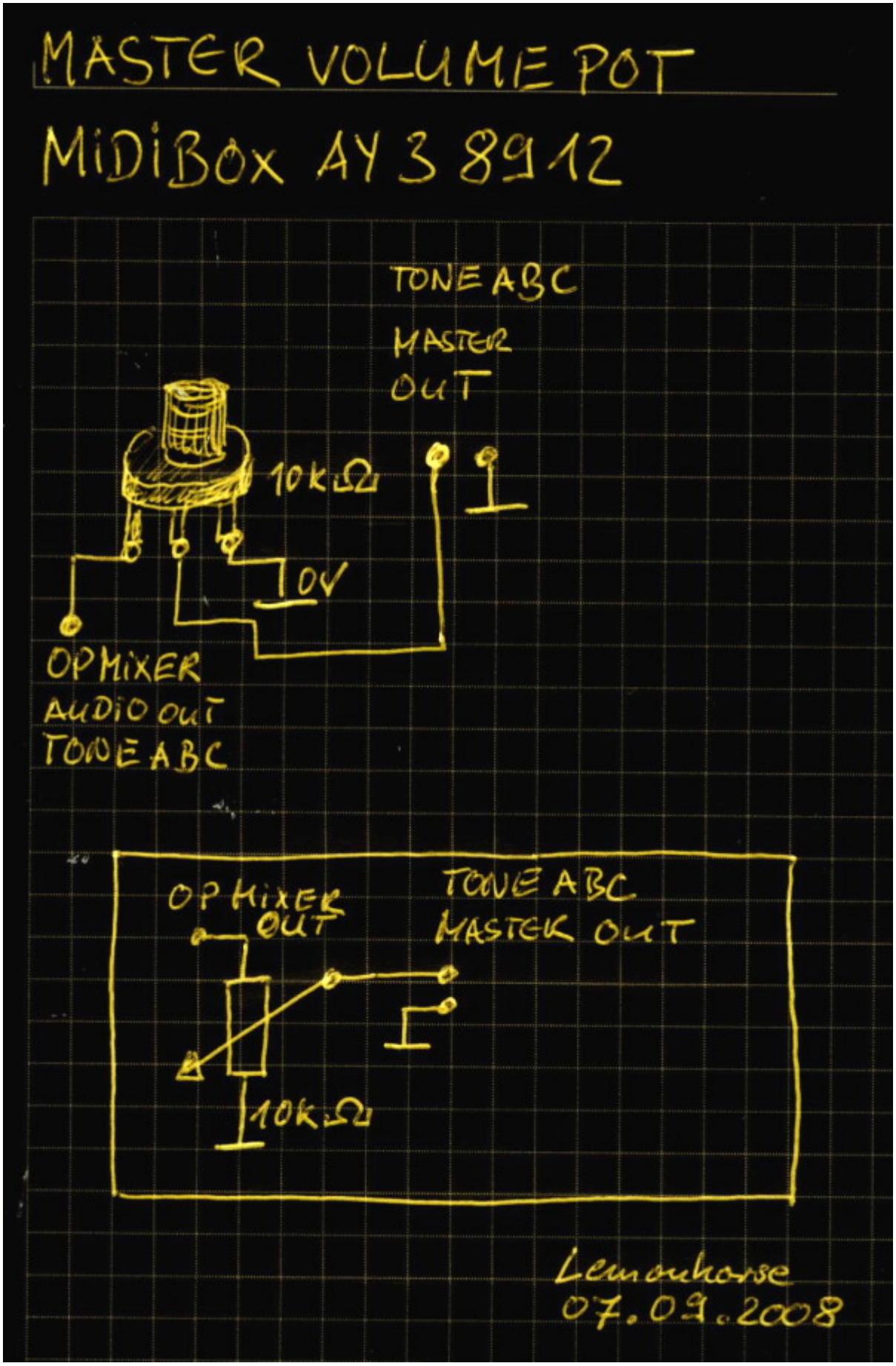
## MASTER VOLUME POT


MASTER VOLUME POT
MIDIBOX AY 3 8912
TONE ABC
MASTER
OUT
10KΩ
0V
OP MIXER
AUDIO OUT
TONE ABC
OP MIXER
OUT
TONE ABC
MASTER OUT
10KΩ
Lemonhorse
07.09.2008

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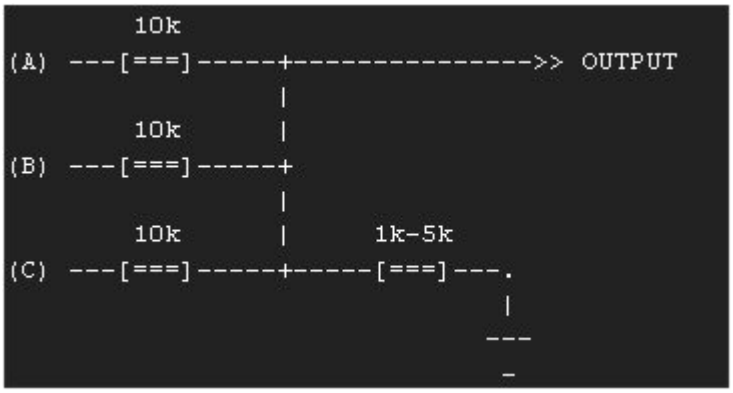
## No OP MIXER Option

**Notice:** “You can easily leave out the opamp buffer board for testing. Just connect all three outputs via 10k resistors and add a pulldown of 1k-5k from that signal to ground.” (nILS Podewski, 2008-10-02)

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## PCB

The AY 3 8912 PCB and the AY 3 8912 OP-Mixer PCB are now available at Mikes Onlineshop

http://www.mikes-elektronikseite.de/shop_englisch/index.htm

[26.09.2008]

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