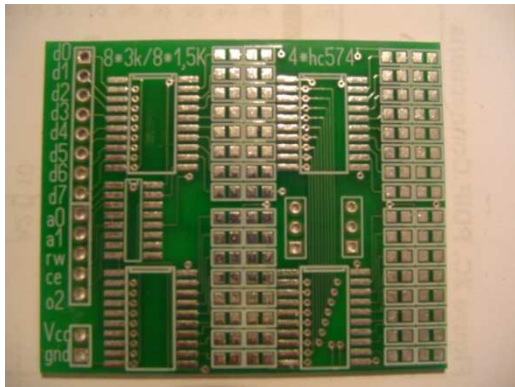
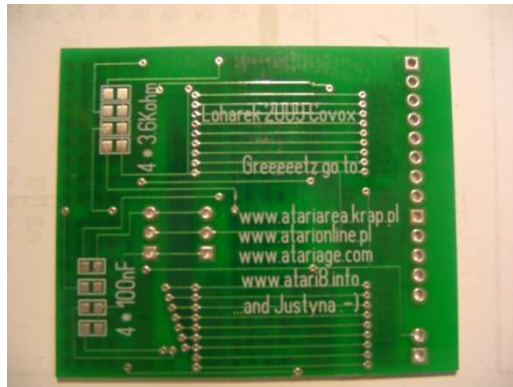


COVOX 2008

TOP



BOTTOM



Part LIST

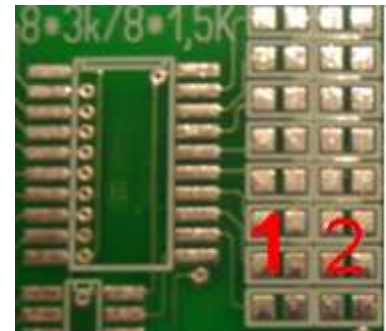
- 4* 74HC(HCT)574 smd
- 1*74 HC(HCT)138 smd
- SMD Resistors and Capacitors (4*100nF- not critical value)

Few words of explanation : You need SMD 0805 size resistors. You see on top side of board printed text : 8 * 3K/1,5 K, but those values are not critical You can use in first row (1) any resistor from 2,4 KOhm to 4,7 KOhm.

THE MOST IMPORTANT is the usage in second row the resistors with half of resistance of those used in first row. So:

- if You buy 36 * 2,4 KOhm resistors, please buy also 32*1,2 KOhm ones for row 2.
- if You buy 36 * 3 KOhm resistors, please buy also 32*1,5K Ohm ones for row 2
- if You buy 36 * 3,6 KOhm resistors, please buy also 32*1,8 KOhm ones for row 2
- etc ...

(don't follow strictly quantity.... Buy 100 of each resistor...They're very cheap anyway....)



Assembly ... is very easy but takes a while

- solder logic (4*574, 1*138) – PLEASE TAKE CARE FOR ORIENTATION !
- solder resistors on top side – don't forget about resistors on bottom side ! You can use resistors from row 1!
- Solder 4 capacitors on bottom side

PCB is tested and proper soldering for sure will make the covox work !

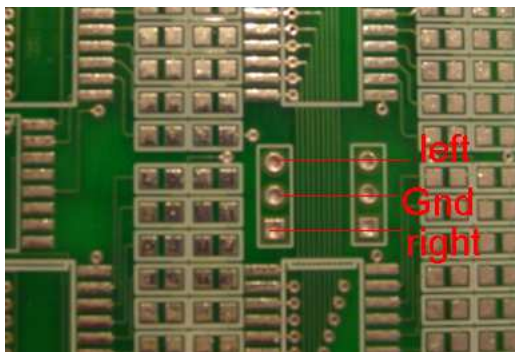
Connecting.... Covox inside ATARI

- TURN OFF ATARI !!!
- Find CPU – CO14806
- connect covox board with proper pins of CPU with wires
(d0 – 33 pin of CPU, d1-32 pin of cpu...)
- VCC is 5V (8 pin of CPU) , GND is ground (1 and 21 pin of cpu)
- One signal connection needs explanation : **CE** on covox board must be connected to 9 pin of 74ls138 located on board of Your ATARI

V _{ss}	1	40	RST
RDY	2	39	Φ2
Φ1	3	38	SO
IRG	4	37	Φ0
???	5	36	R/W
NMI	6	35	HALT
SYNC	7	34	???
V _{cc}	8	33	D0
A0	9	32	D1
A1	10	31	D2
A2	11	30	D3
A3	12	29	D4
A4	13	28	D5
A5	14	27	D6
A6	15	26	D7
A7	16	25	A15
A8	17	24	A14
A9	18	23	A13
A10	19	22	A12
A11	20	21	V _{ss}



And that`s all. Now, If You have done everything properly, Audio outout is available at these holes :



ENJOY !!!

For software – look here <http://epi.atari8.info/>