

**NO  
GARY  
adapter**

# Amiga 500 2MB Chip RAM

Upgrade for A500 Rev 8.1A

Pistorm compatible

using miniA501b6 RAM board.

## Why we should be interested to have 2MB Chip RAM on our A500?

- higher color and resolution.
- faster operation of custom chips.
- some games and demos that we know as AGA games only need 2MB Chip RAM and 32bit CPU, not AGA chipset. if you have Pistorm or any other 32bit accelerator for your A500 you can run them.

some games that are known as AGA but can be run on an Amiga 500 with 2MB Chip RAM and 32bit CPU Are:

the Stones 'N Bones of Pinball Fantasies

Mega Typhoon

AlienFI

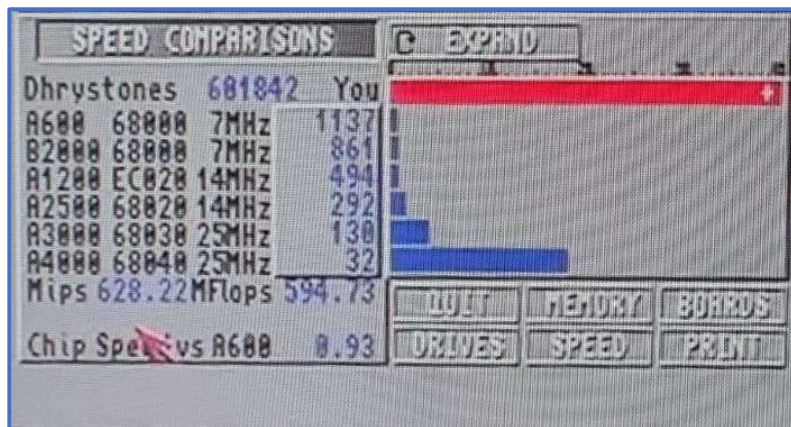
Primal Rage

Jungle strike aga



If you own Pistorm, you can't get the highest performance of your custom chips by 0.5MB onboard Chip RAM.

Below the chart shows that 2MB Chip RAM speeds up your A500 performance on Pistorm from 0.93 to 2.70!



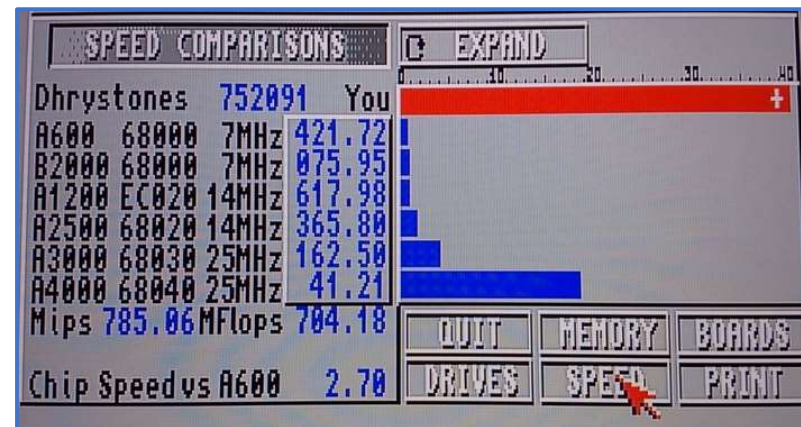
Pistorm with 0.5MB Chip RAM

Chip Speed vs A600: 0.93

Dhrystones: 601842

Mips: 682.22

Mflops: 594.73



Pistorm with 2MB Chip RAM

Chip Speed vs A600: 2.70

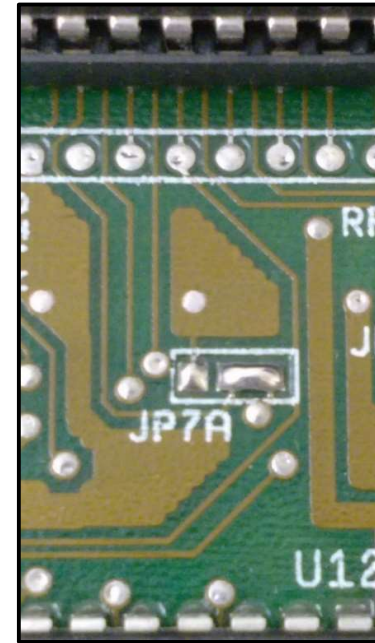
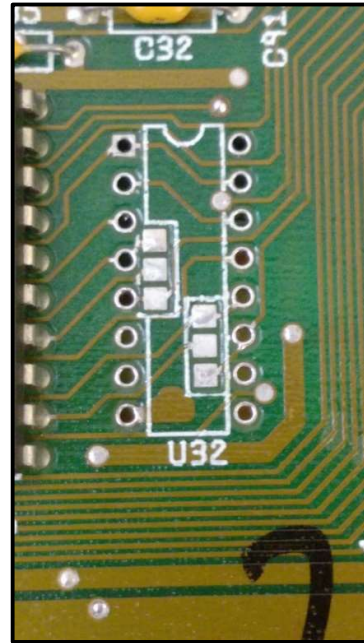
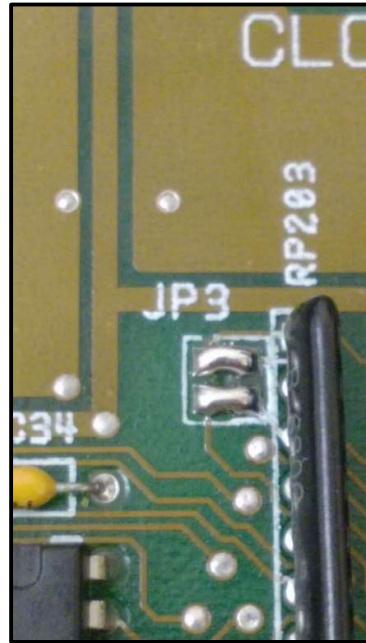
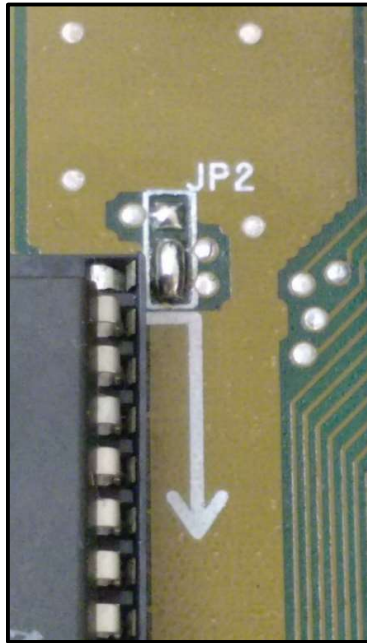
Dhrystones: 752091

Mips: 785.06

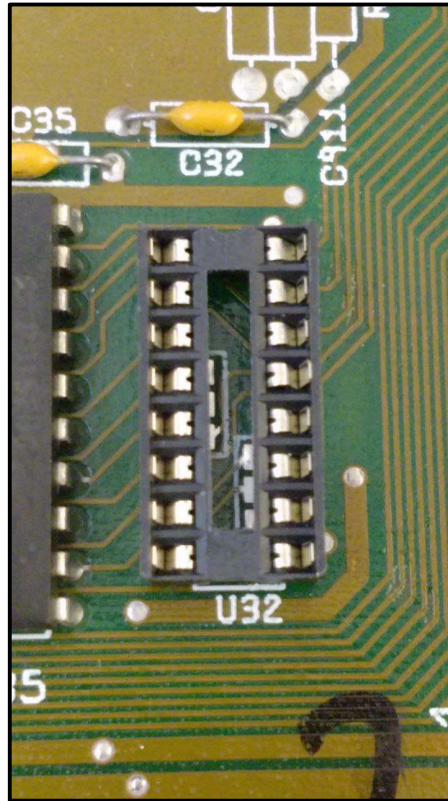
Mflops: 704.18

# Let's get started!

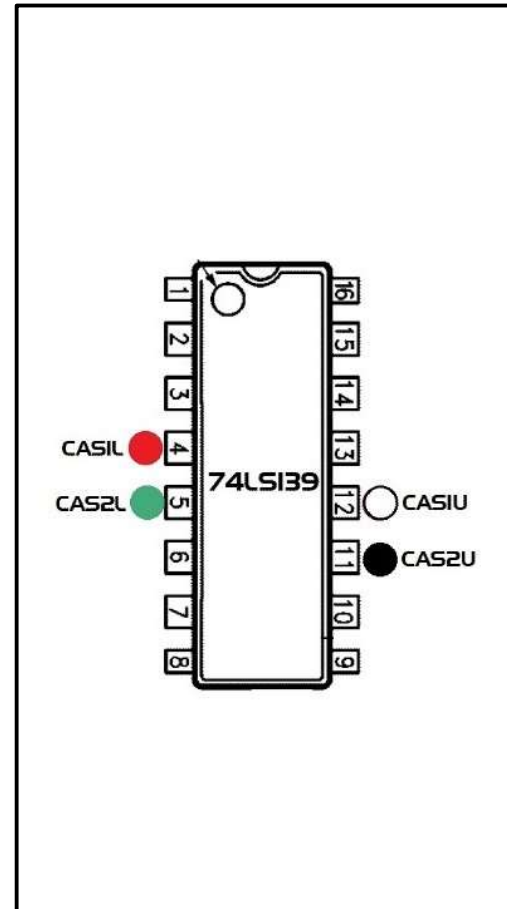
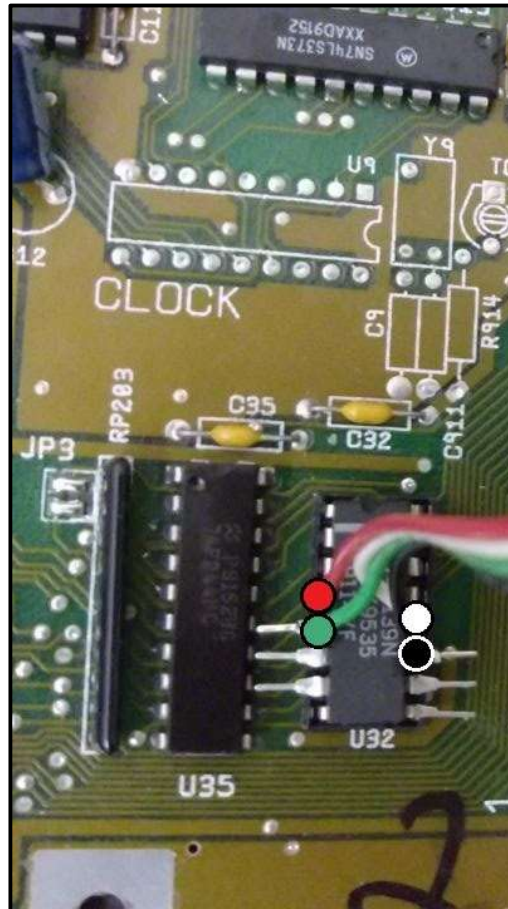




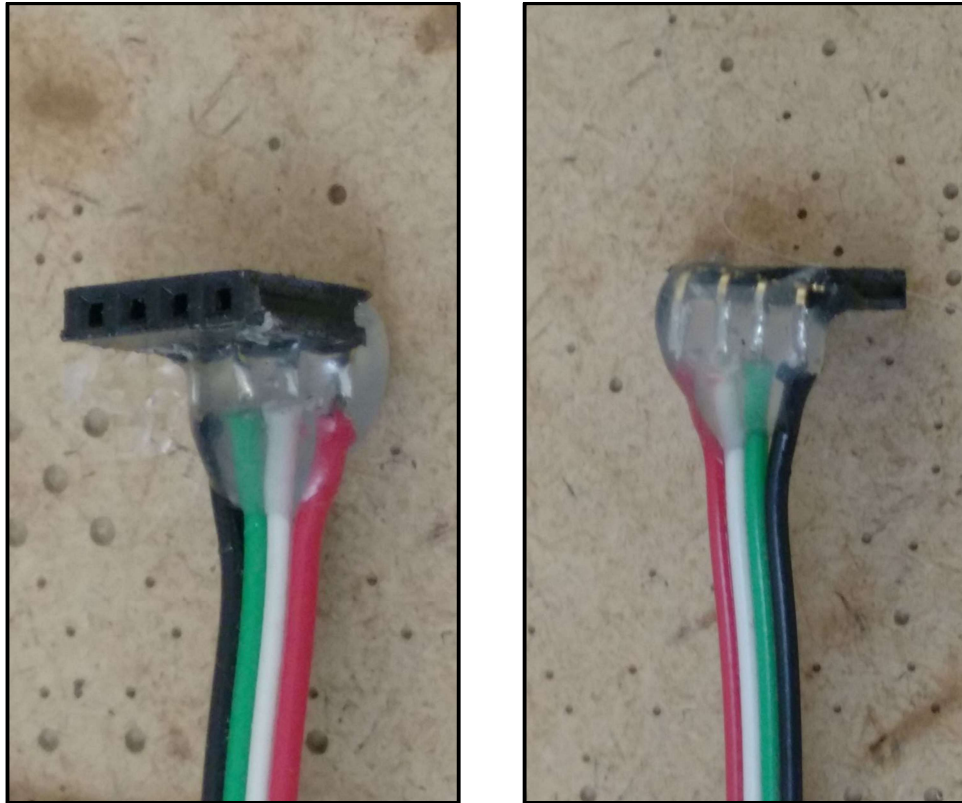
**Step I: Set jumpers J2, J3, JP7A as shown and desolder J4A, J4B and desolder U32 holes.**



**Step 2: Solder a 16 pins socket in U32.**

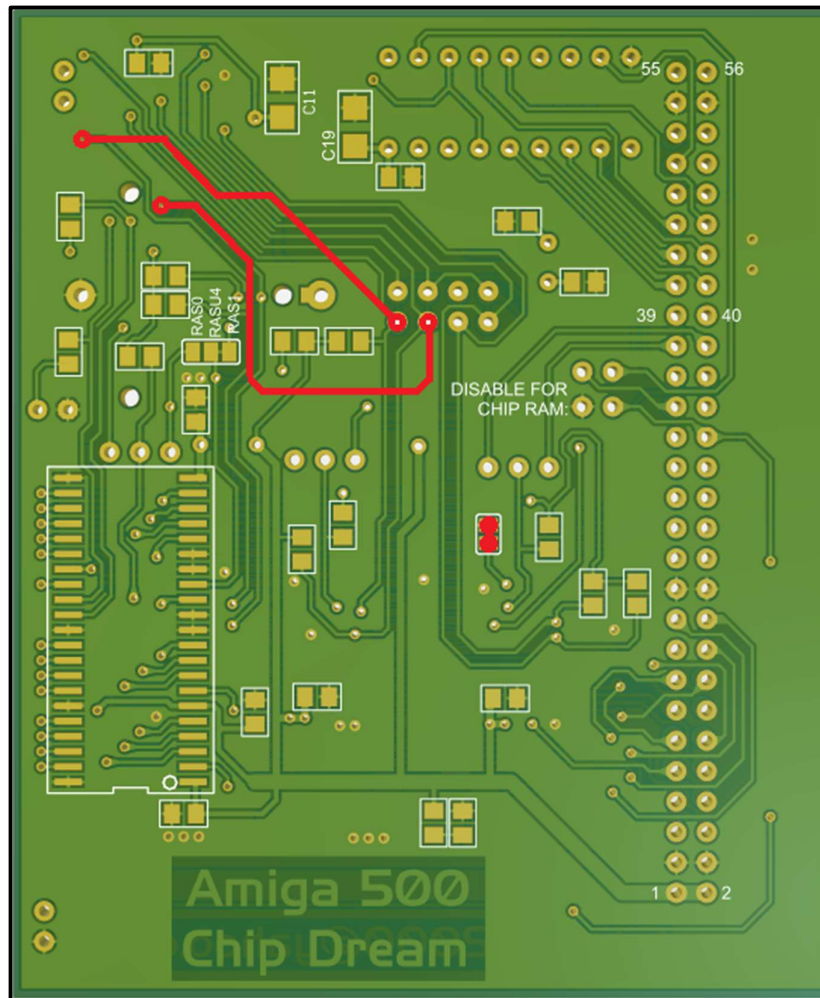


**Step 3: Bent pins 5,6,7,10,11,12 of 74LS139 to disconnect them from motherboard then solder 4 wires to pins 4, 5, 11, 12 as shown in the picture.**

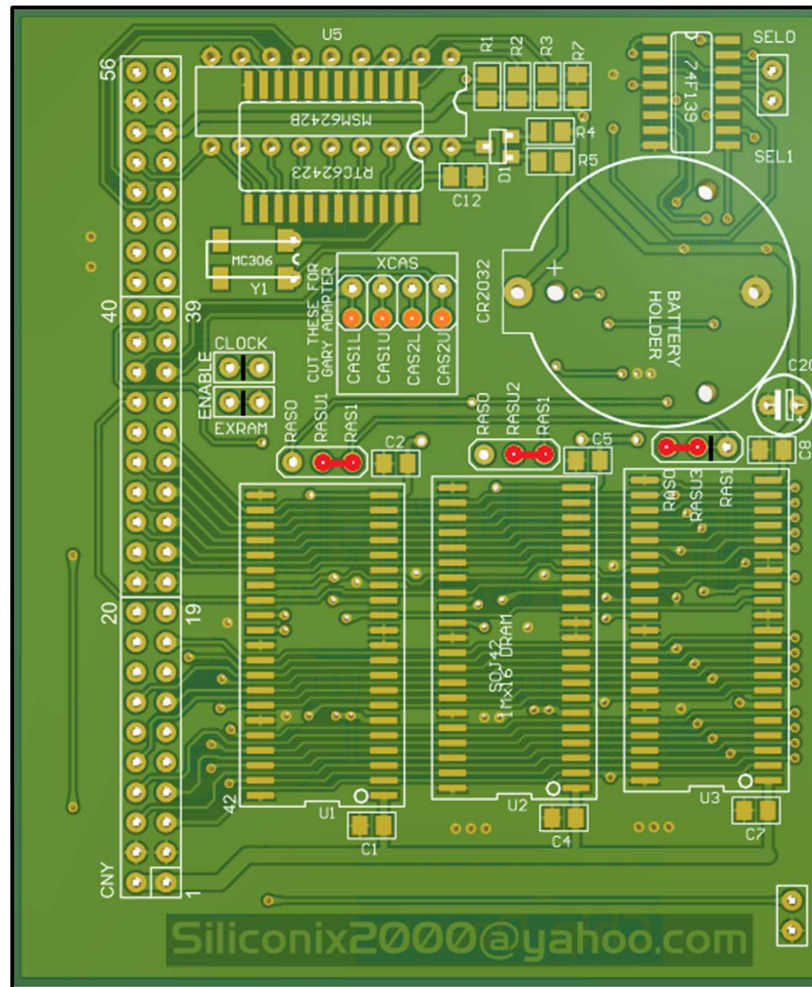


**Step 4: Solder wires from the previous step to a 4-pins female pin header.  
Be careful about the color and order of wires.**



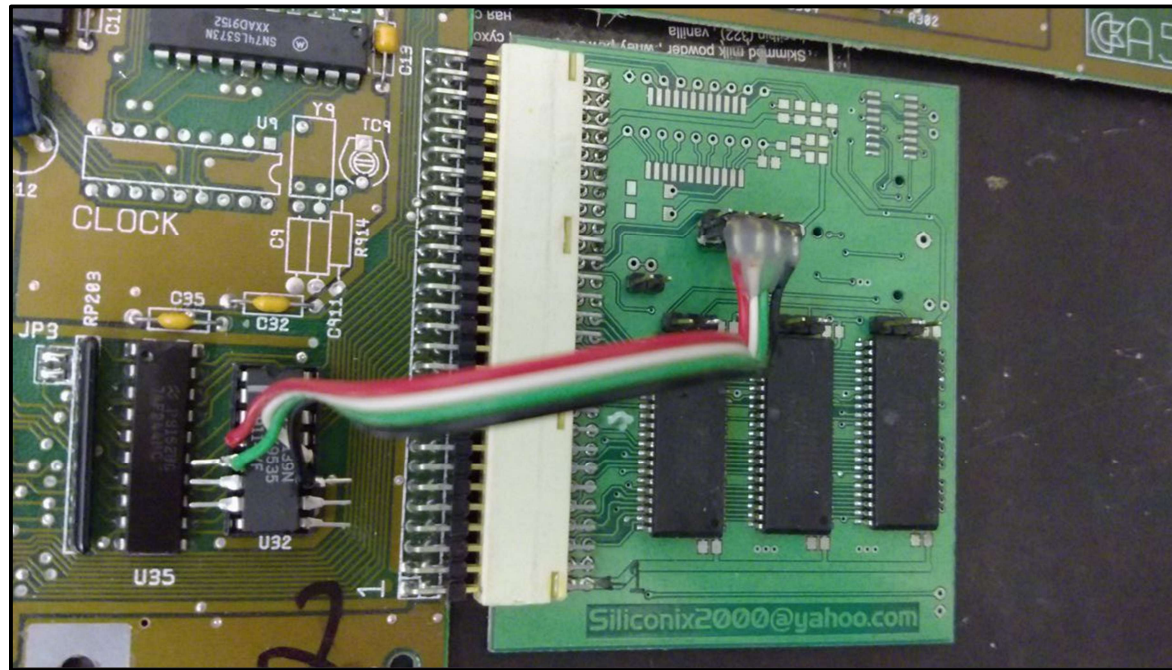


**Step 5: Connect CASL\_U2 to CASL\_U3 and CASU\_U2 to CASU\_U3. Solder A9 jumper to connect it to the ground.**



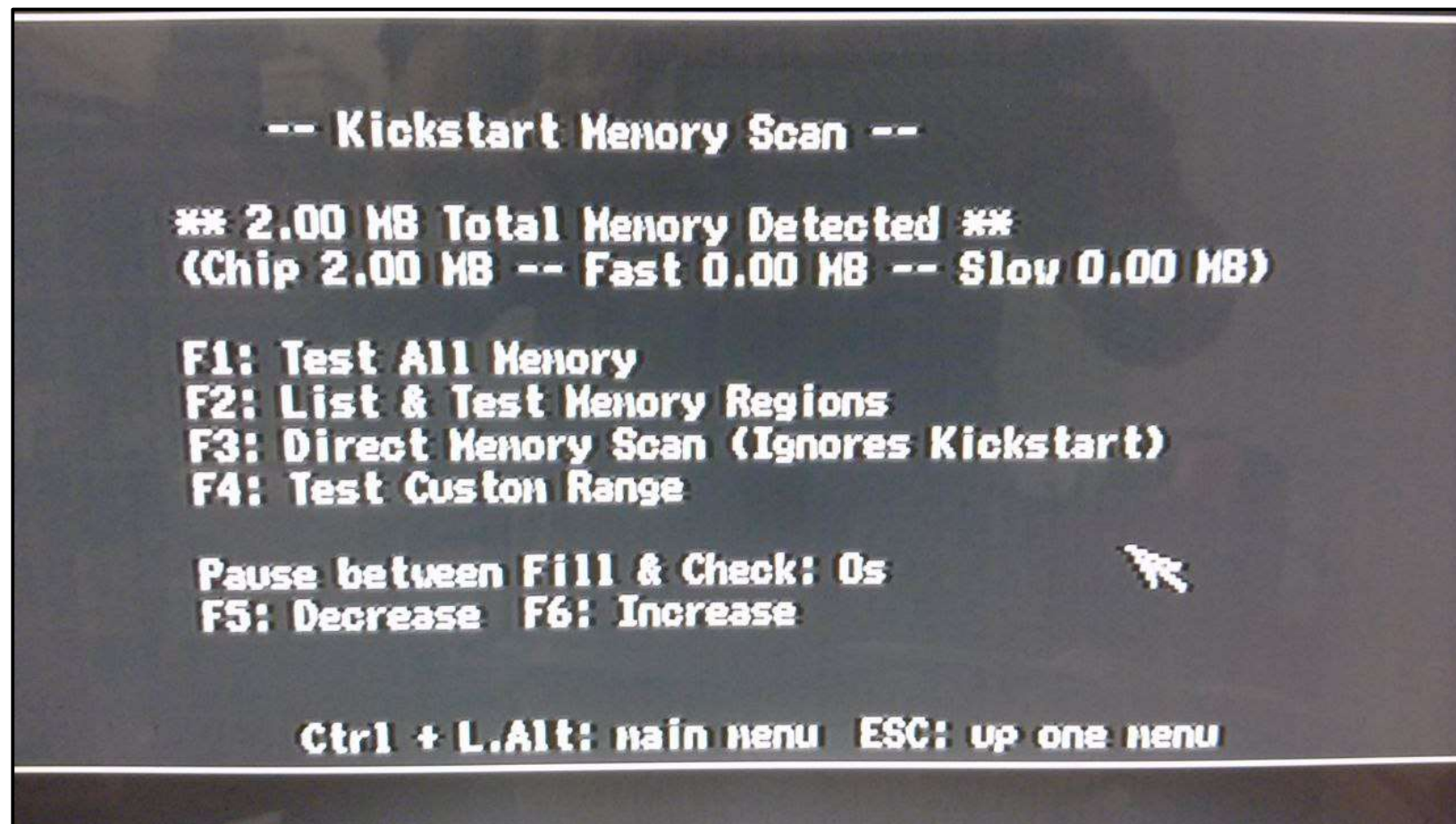
**Step 6: Cut CLOCK, EXRAM, RASU3 to RAS1 default jumper track.**

**Connect RASU1 to RAS1, RASU2 to RAS1, RASU3 to RAS0.**



**Step 7: Put 74LS139 to the socket, connect the wires connector to the pin header of the RAM board, and power up the amiga...**



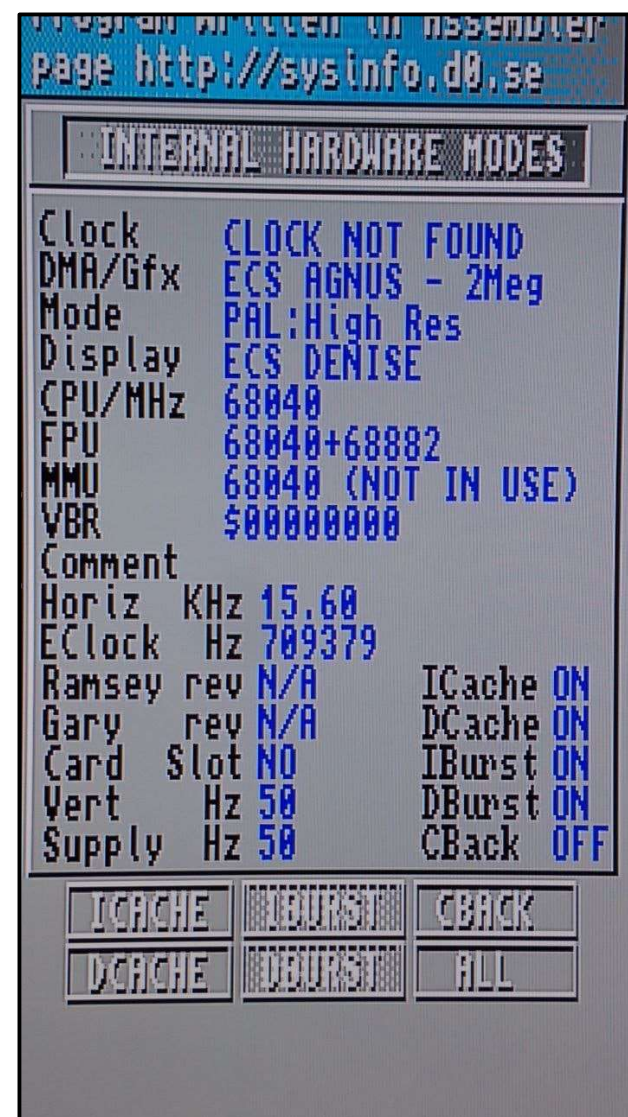
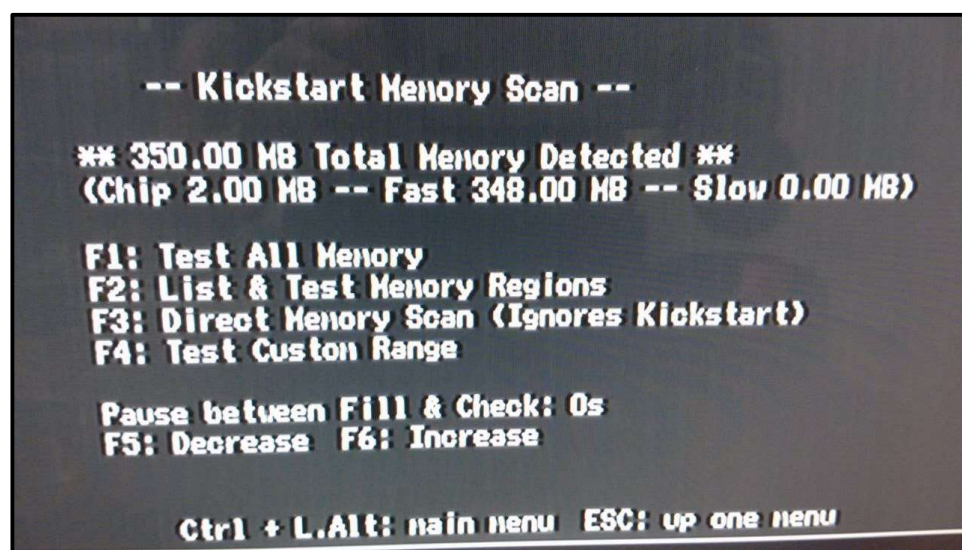
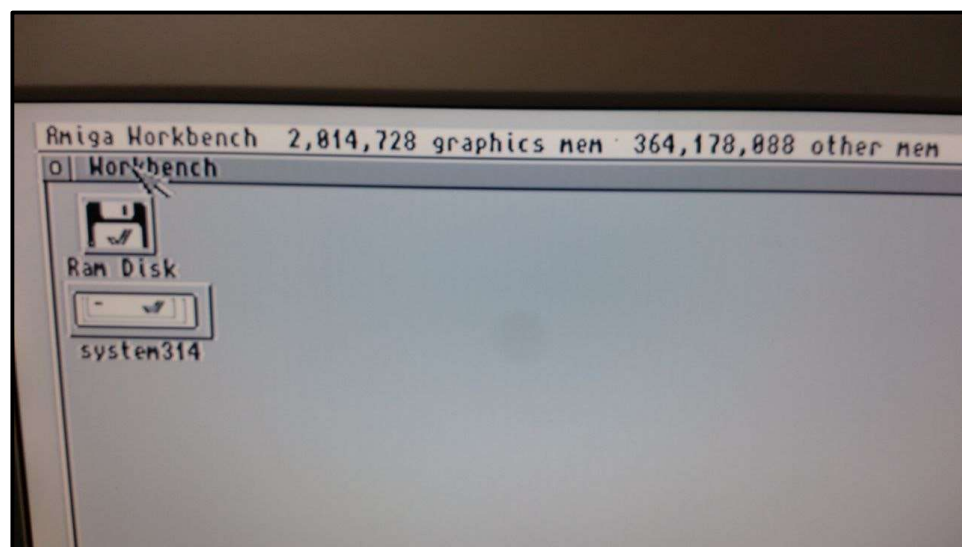


Now you have an Amiga with 2MB of Chip RAM...

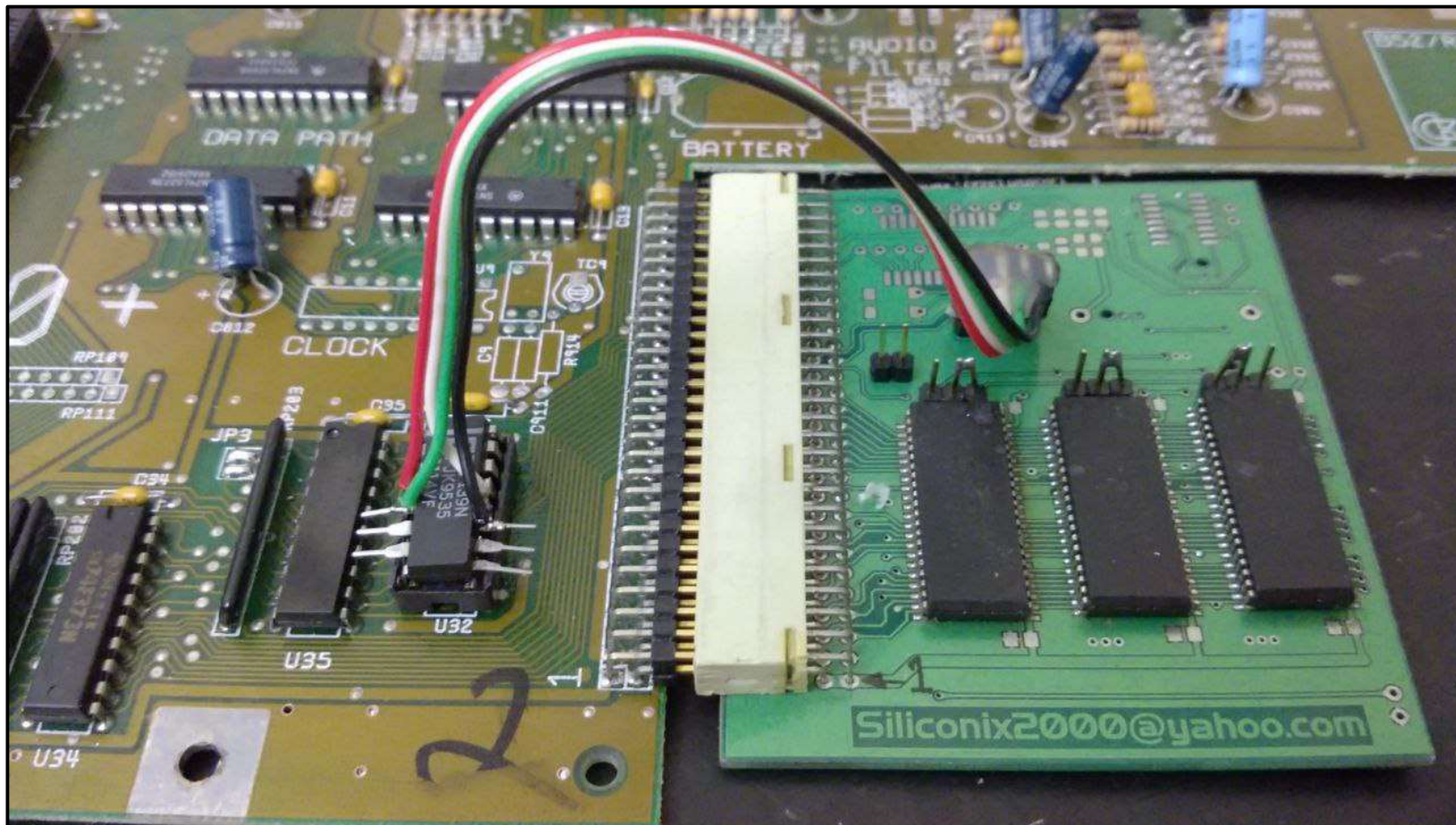


the project was tested by Pistorm. 2MB Chip RAM is available in WB!









# THE END.