

## A2000+ Replacement PCB for corrosion damaged A2000

I am now offering a new service to Amiga A2000 owners who have been plagued by corrosion due to leaking batteries. A new main board has been reverse engineered by "Floppie209" to replace the corrosion damaged board in these computers. For those who don't feel confident enough with their soldering skill (there are a LOT of solder joints to make!), I can offer a partially built board using new parts.

I install all new resistors, capacitors, IC sockets, transistors, and most of the logic ICs. From your original board you would need to remove several connectors, all the main ICs, and a handful of obsolete or difficult to obtain parts. All IC positions are socketed for easier fault-finding / replacing in the future.

My price includes a new board (ask for a discount if you already have an A2000 board), plus all new parts as above. You will need to unsolder the video connector and a few other parts from your original A2000 board as well as use all your existing socketed chips (I can quote for any parts that may be faulty or missing from your board).

A2000 Board fitted with sockets for ICs etc. and most common components. Some connectors, ICs, etc. are required from your old board or may be purchased separately. Parts marked with * are supplied with this service.	£435.00
A2000 Board built up using your original A2000 board (which will need to be removed from the case and sent to me in advance). Some parts will be unsoldered by me and fitted to the new board. Parts marked with * are supplied with this service.	£475.00
A2000 Board built up using new parts where possible and reclaimed parts where necessary. Fully working and tested board only.	£695.00

## A2000 Components

Please note that prices are subject to change without notice.

Parts supplied are not necessarily the same as shown on the A2000 BOM, but are functionally equivalent and are the same as used in our own builds. Some parts are tested, used / old stock as new parts aren't always available.

A2000 PCB	49.95	Black
<b>Parts marked with * are included on all PCB builds</b>		
* Capacitor Pack	£80.00	All capacitors
* Resistor Pack	£20.00	All resistors / networks
* Transistors / Diodes	£5.00	All transistors / diodes
Set of Sockets (Turned Pin)	£50.00	Excludes Oscillator
* Set of Sockets (Alternative Double Wipe)	£20.00	Excludes Oscillator
* Connector Set	£35.00	Excludes 23 pin D
* MC1488	£1.00	
* MC1489	£1.00	
* LF347 / TL084	£1.00	
* 74F00	£3.00	
* 74F04	£3.00	

* 74F08	£3.00	
* 74LS08	£1.00	2 Required
* 74LS38	£1.00	
* 74LS74	£1.00	
* LM339	£1.00	
* 74LS138	£1.00	
* 74LS148	£1.00	
* 74LS245	£1.00	4 Required
* 74F245	£3.00	2 Required
* 74F244	£3.00	2 Required
* 74LS244	£1.00	2 Required
* 74HCT245	£1.00	2 Required
* 74LS373	£1.00	2 Required
* 74LS157	£1.00	
* 74LS32	£1.00	2 Required
M62428B RTC	£7.50	
* RTC-72421B	£12.50	Alternative RTC
* Crystal Oscillator 28.37516MHz	£5.00	
* Ferrite Beads	50p	5 Required
* Battery Holder for CR2032	£3.50	Battery not supplied
* Line Filter	£10.00	
Oscillator Socket (not recommended)	£1.25	
8362 DENISE	£35.00	Used / Old Stock
MC68000	£25.00	Used / Old Stock
8230A CIA	£25.00	2 Required. Used / Old Stock
5719 GARY	£25.00	Used / Old Stock
8364R7 PAULA	£25.00	Used / Old Stock
8372 FAT LADY	£75.00	Used / Old Stock
5721 BUSTER	P.O.A.	Used / Old Stock
Video Hybrid	£35.00	Used / Old Stock
* 44256 RAM	£10.00	8 Required
* ROM V1.3	£25.00	Used / Old Stock
23 pin D Female	£25.00	Used
23 pin D Male	£25.00	Used
* Zorro Socket – 100 pin	£6.50	
* ISA 16 Socket – 36 pin	£2.50	4 / 6 Required
* ISA 8 Socket – 62 pin	£3.50	4 Required
* Co-Processor Socket – 86 pin	£7.50	
* Power LEDs / Resistors	£5.00	Optional

UK Shipping is free for all orders over £20  
Small orders or overseas, please enquire.

[www.retrofix.co.uk](http://www.retrofix.co.uk)

[graham@gb7.com](mailto:graham@gb7.com)

## Amiga A2000 PCB – Partially Built

Thank you for purchasing the Amiga A2000 upgrade. You will need to finish building the PCB using parts from your original A2000, or I can supply at an extra cost (a price list is enclosed with the board).

Please take care when unsoldering items from your donor board. If you are not confident, please get the components removed professionally or contact me to arrange a further service. I can't take any responsibility for damage done to either your original parts or to the new PCB if damaged by unskilled work.

The following parts are required and should be removed from the donor board or may be purchased separately:

CN302 – 23 pin Sub-D Female Connector

CN202 – 23 pin Sub-D Male Connector

HY200 – Video Hybrid

U100 – MC68000 CPU

U101 – FAT LADY (PAL or NTSC)

U200 – PAULA

U201 – DENISE

U102 – GARY

U500 – KICKSTART ROM

U300 – CIA

U301 – CIA

U800 – BUSTER

Sockets are provided for all integrated circuits, the other items should be soldered directly to the board.

If you want the clock to maintain time while the computer is not in use, you can also add a CR2032 coin cell to the holder fitted on the board.

[www.retrofix.co.uk](http://www.retrofix.co.uk)

[graham@gb7.com](mailto:graham@gb7.com)



## Amiga 2000 PCB – Partially Built

### Amendments

Due to a number of customers contacting me regarding corrosion on their original RTC I am now supplying a replacement RTC for the board at no extra cost (U801). This is the later model Epson chip - RTC-72421B which doesn't need an external crystal to keep time. This means that the following components are now no longer supplied and fitted to the A2000 board – Y800, VC800, C810. If you prefer to use an original RTC chip, you can remove these components from your original A2000 board or contact me if you are unable to do this.

I am now also supplying 8 x 44256 DRAM chips (1Mb), so there is no longer any need to de-solder the original RAM from the old board.

A diode is fitted between the battery holder and R803 (D803) – this stops the computer trying to charge the battery and allows the use of a standard CR2032 battery.

The crystal oscillator fitted to the board is for use with a PAL AGNUS (FAT LADY) chip. If you are using an NTSC AGNUS you will need to remove the oscillator and fit the original one from your old board. You will also need to put a solder blob on J102 to connect the 2 pads.