

### KickStart Board

Installation instructions for Amiga 500  
Manufactured and Distributed By Utilities Unlimited of Oregon, Inc.  
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The installation of the KickStart Board may or may not void the warranty of your computer. Check with your local Commodore dealer for complete details on installation of NON-Commodore peripherals.

Disconnect ALL cables from your computer. Set the computer on a suitable workbench with plenty of lighting. Using a Phillips screwdriver (one that is the correct size for the screws being removed), remove the ALL of the screws that hold the lid to chassis. Set the lid and screws aside for now.

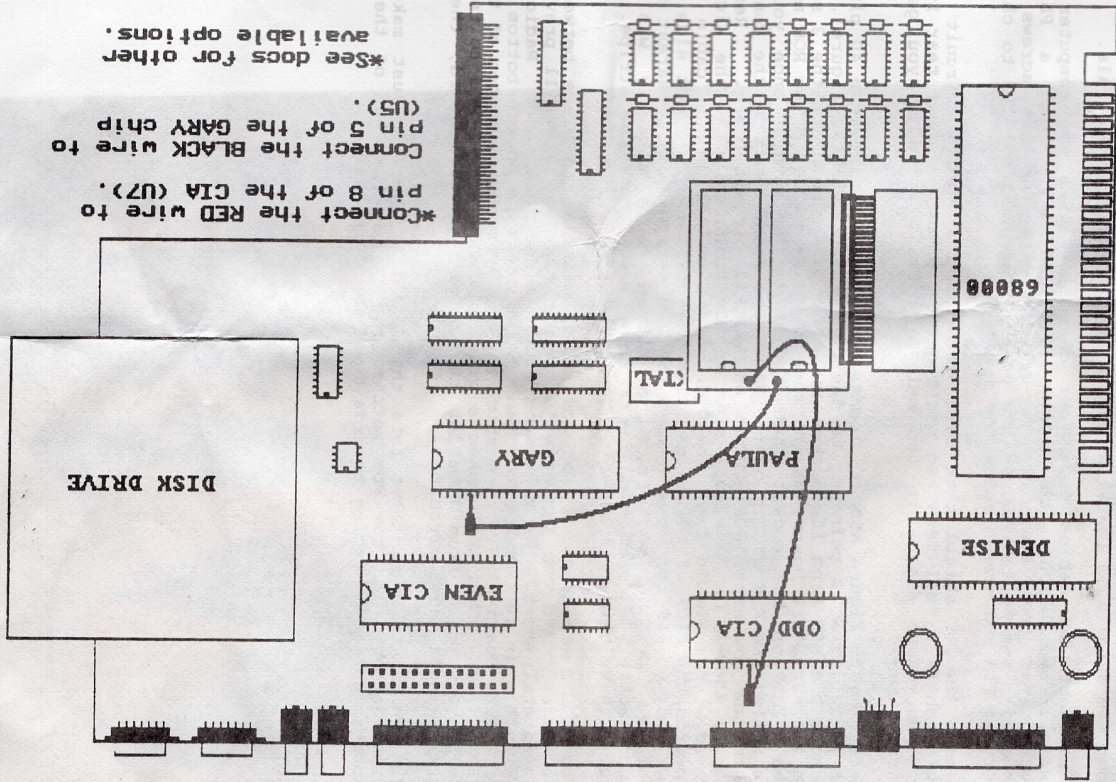
Remove the RF shield that sits over-top the Amiga's circuit board. This can be a real pain, so don't get impatient and just tear it off. You can cause damage to the Amiga's circuit board if you get too carried away.

Referring to figure A500-1, locate the ROM chip. It is a 40 pin chip (a large arrow is pointing to the ROM location in the figure). Now, remove the ROM from its socket and place it into one of the 2 sockets on the KickStart Board, making sure that the NOTCH on the ROM matches the NOTCH on the socket that ROM is to go into. Once you have installed the ROM on top of the KickStart Board, install the connector into the now empty ROM socket on Amiga's circuit board. Refer to figure A500-2 for a visual aide of the orientation of the KickStart Board. You should have the RED stripe on the ribbon cable facing towards the BACK of the Amiga, with the board on the right side of the ROM chip. (If for some reason the RED stripe is not nearest to the notches on the sockets the ribbon cable assembly was built incorrectly. It will still work fine, just ignore the stripe..humans build these things ya know!)

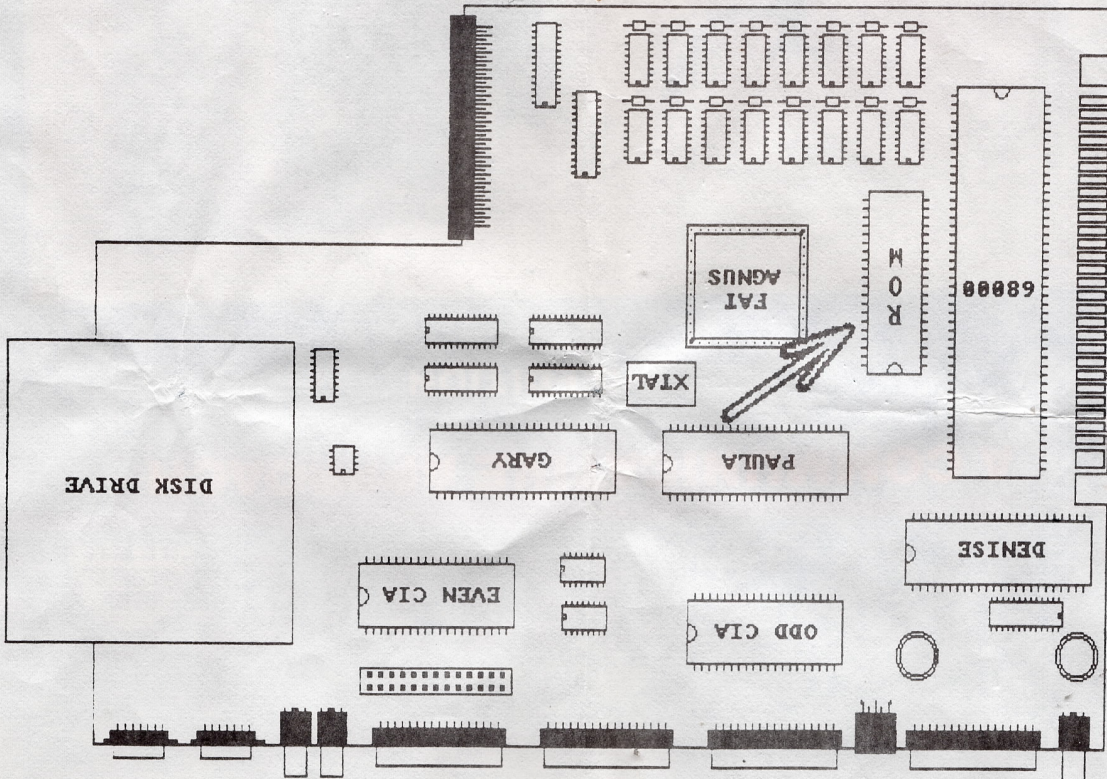
You will need some sort of insulating material to place between the KickStart board and the Amiga's circuit board. This will prevent an accidental short. We recommend double sided foam tape. Radio Shack sell this in rectangular strips. Stick the tape on the bottom of the KickStart Board FIRST, then stick the KickStart Board on top of the FAT AGNUS chip. This chip makes a great place for the board to rest and keeps the board from touching the Amiga's circuit board, therefore preventing a short circuit.

You may install two ROMs into the KickStart Board. Just make sure that the notch on the ROM matches the socket (ie. ALL of the ROMs' notches should be facing towards the BACK of the Amiga).

Kickstart+ Board  
FIGURE A500-2



Kickstart+ Board  
FIGURE A500-1



CONNECTING THE CLIP LEADS:

The clip lead with BLACK wire (nearest ribbon cable) must connect to pin 5 of the GARY chip (IC U102 for A2000/2500, IC U5 for A500). Look at figures for clip lead placement.

The clip lead with RED wire can be connected to various places inside the Amiga, depending on HOW you want to switch to the other ROM. Here is a list of possible locations for ROM selection:

A2000/2500 owners:

Switch to 1st ROM slot by:	Location	Pin #
Holding down LEFT mouse on re-boot	CIA (U300)	8
Holding down RIGHT mouse on re-boot	PAULA (U200)	33
Holding down Joystick fire on re-boot	CIA (U300)	9

A500 owners:

Switch to 1st ROM slot by:	Location	Pin #
Holding down LEFT mouse on re-boot	CIA (U7)	8
Holding down RIGHT mouse on re-boot	PAULA (U3)	33
Holding down Joystick fire on re-boot	CIA (U7)	9
Holding down LEFT SHIFT key on re-boot	6570-036	25
Holding down RIGHT SHIFT key on re-boot	6570-036	29
Holding down LEFT ALT key on re-boot	6570-036	24
Holding down RIGHT ALT key on re-boot	6570-036	28

\*NOTE\* The 6570-036 is the keyboard processor that is on the A500 keyboard assembly, it is the only 40 pin (large) IC on the keyboard's electronic section (to the left of the power/drive LED's). It is recommended that A500 users use the LEFT SHIFT key to switch to the 1st ROM socket. The reason is simple...if you press CTRL-R.AMIGA-L.AMIGA, the LEFT SHIFT is right there with the rest of your fingers! ;-)

Remember, the ROM that is switched in is located in the 1st socket (closest to the ribbon cable). If you boot without pressing any buttons, then the ROM located in the 2nd socket is used.

Put your Amiga back together. Plug the power cable into the Amiga. Now, turn on the power to the Amiga. You should now get the WorkBench requester (for the version that the ROM in the 2nd socket). If not, re-check your installation and make sure that the clip leads are connected to the correct pin. Holding down whatever button you chose previously while booting your Amiga should switch to the other ROM.

FIGURE A2000-4

Kickstart+ Board

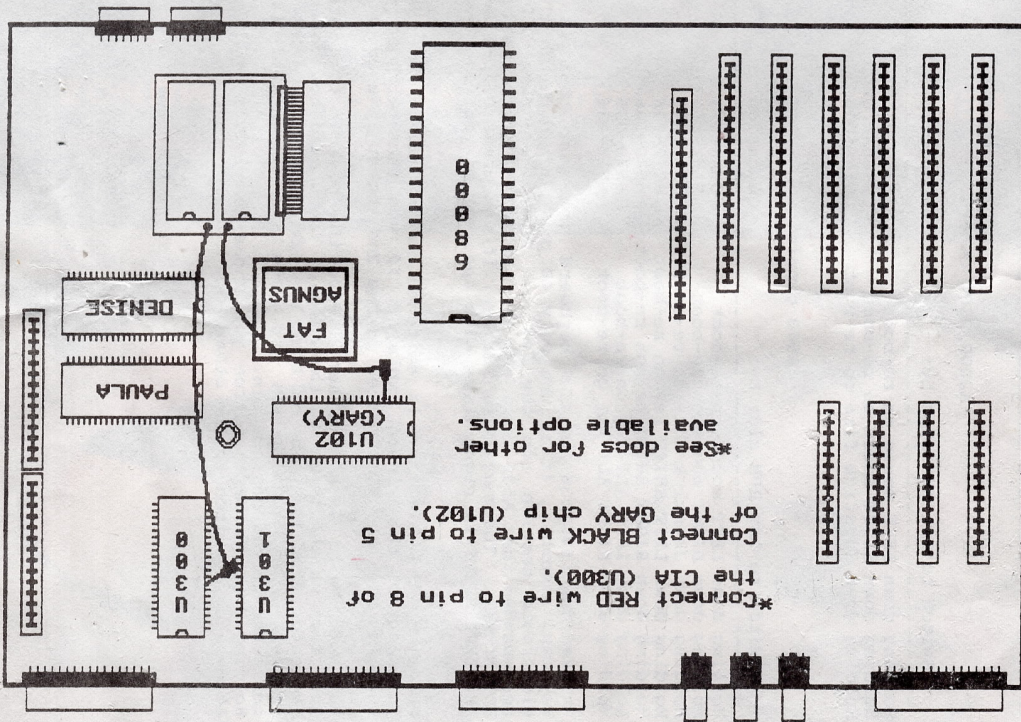


FIGURE A2000-3

Kickstart+ Board

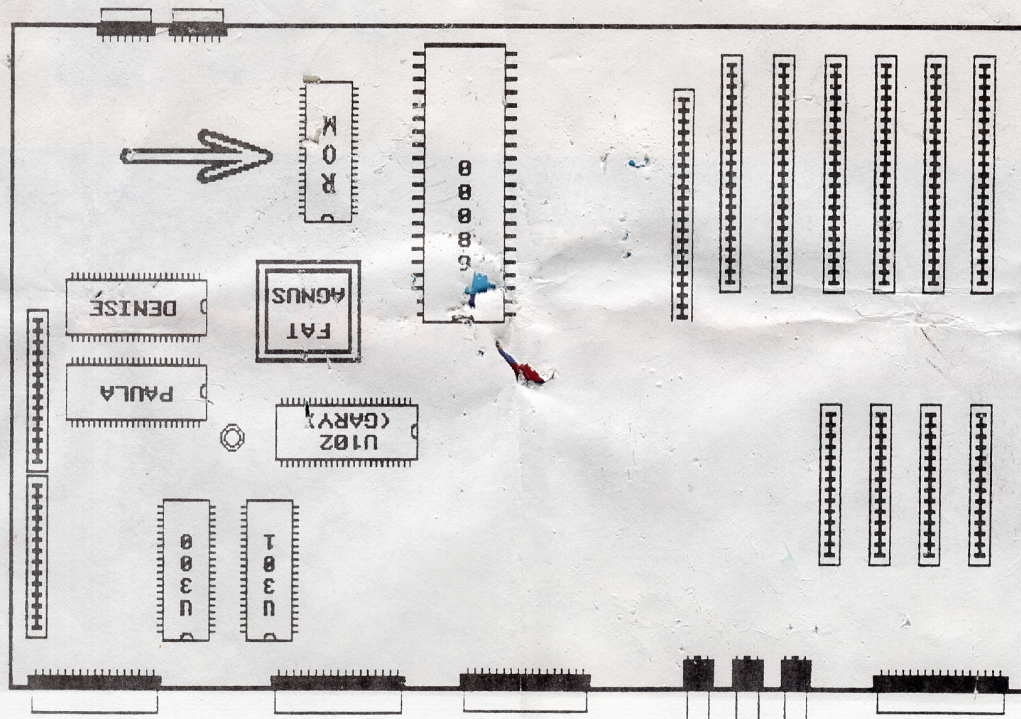


FIGURE A2000-2

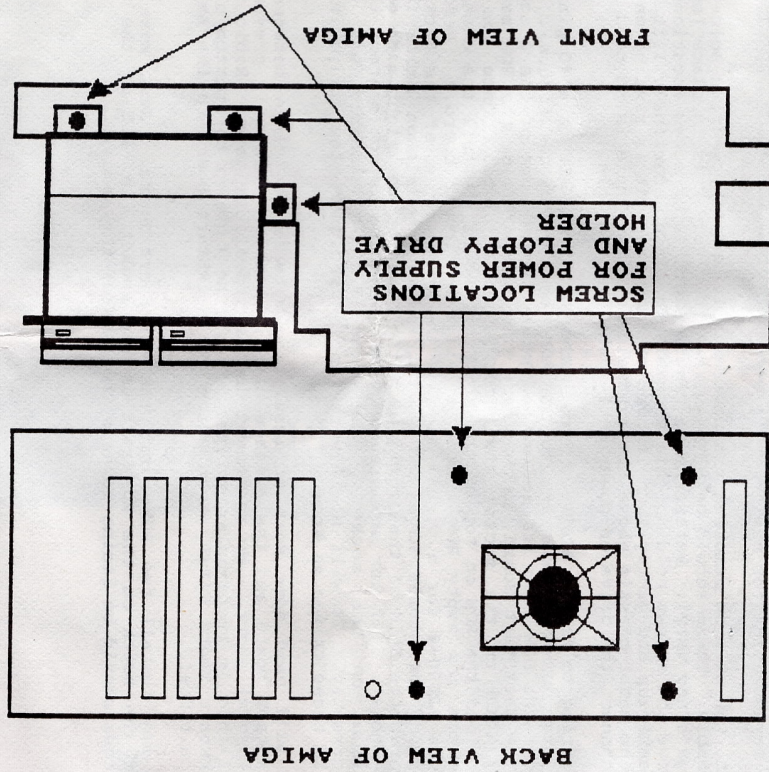


FIGURE A2000-1

