# The SX32 Expansion Module for the CD32

## The Eyetech Illustrated Installation Instructions


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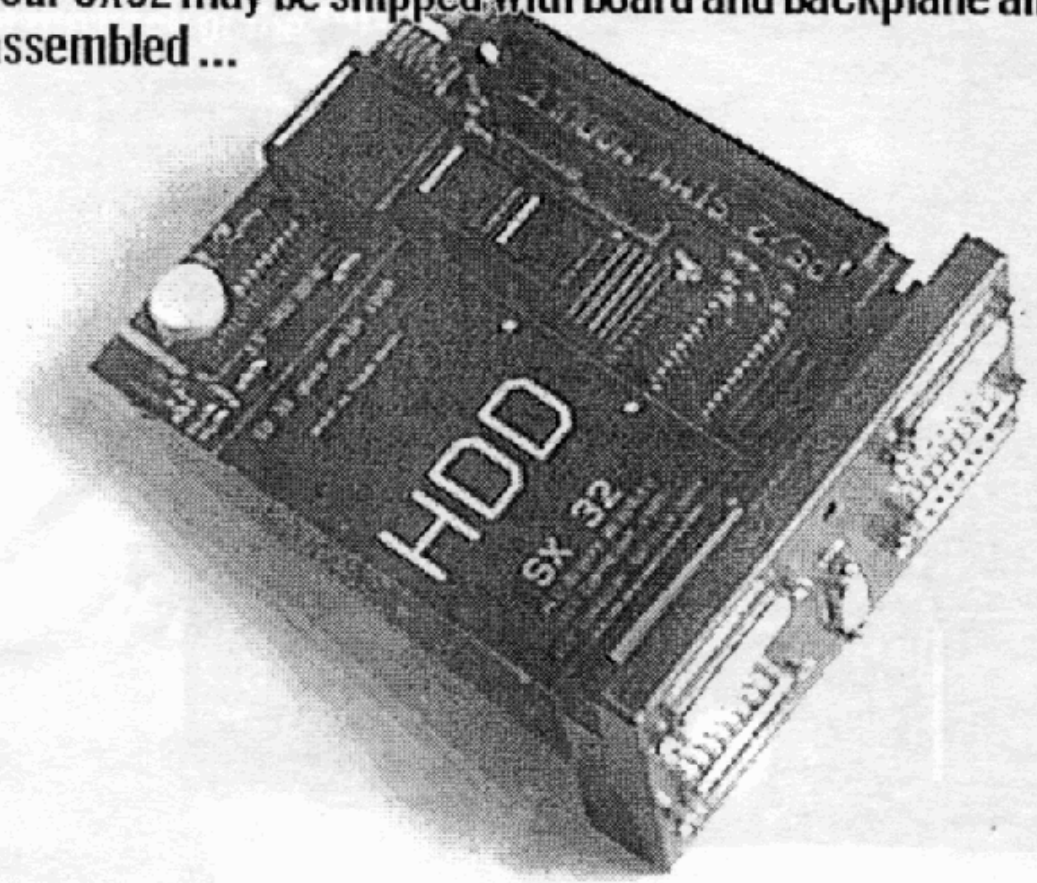
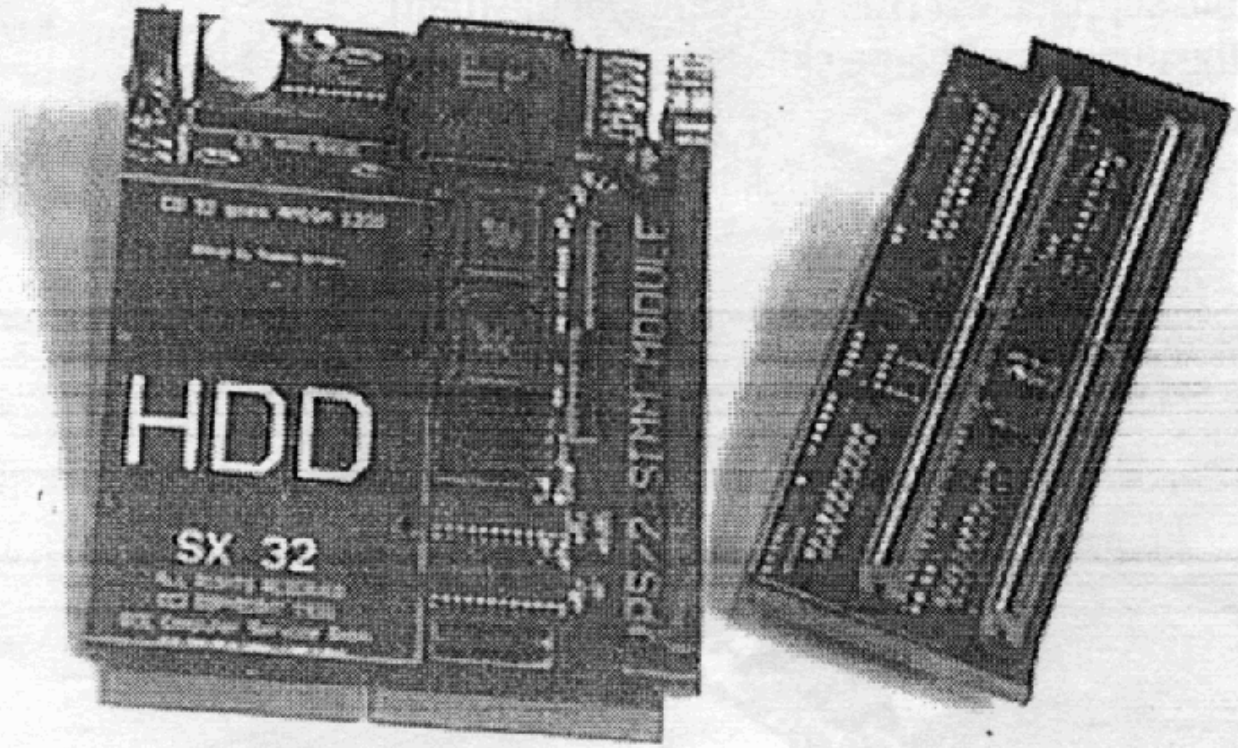
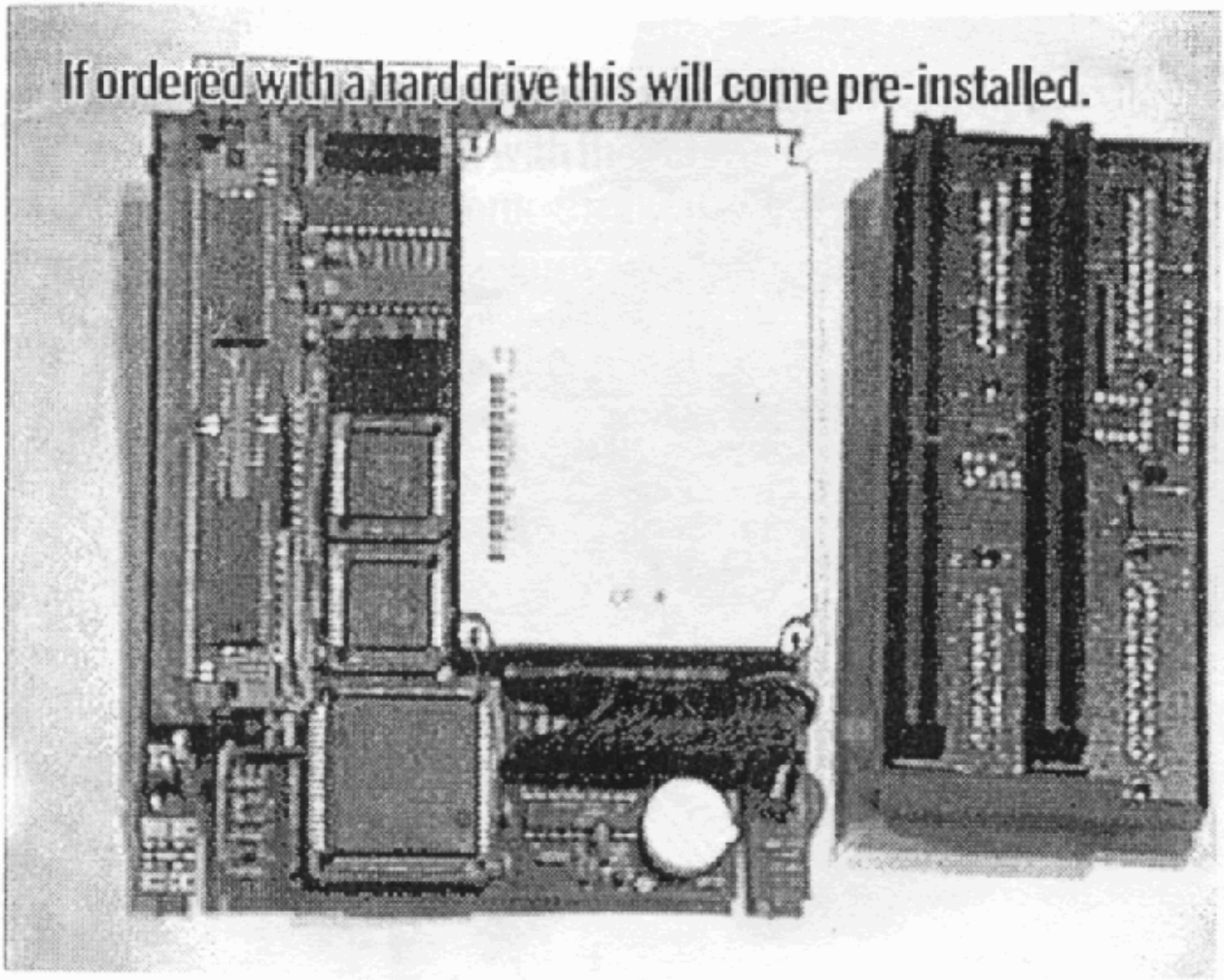
Your SX32 may be shipped with board and backplane already assembled ...



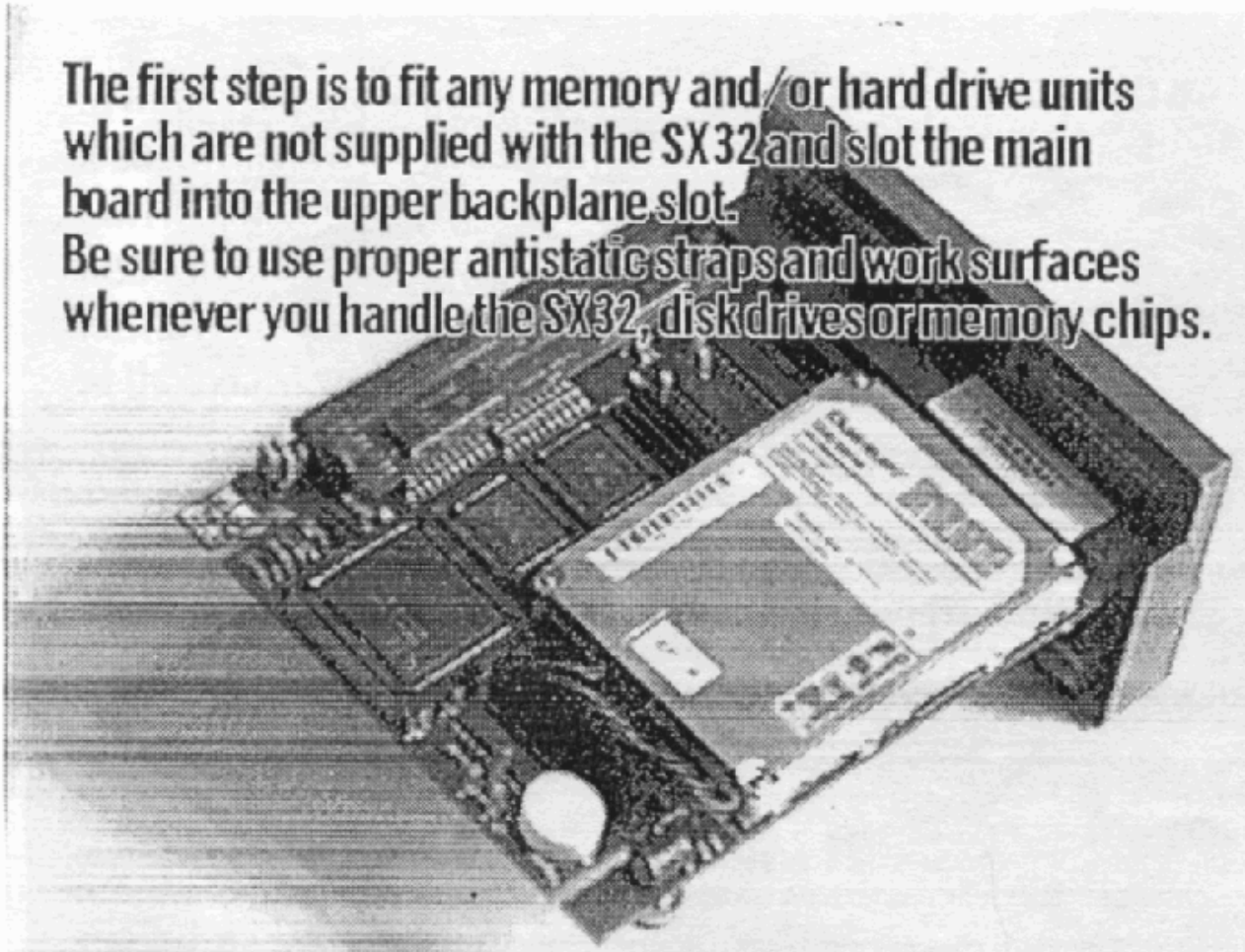

... or in its two component parts.

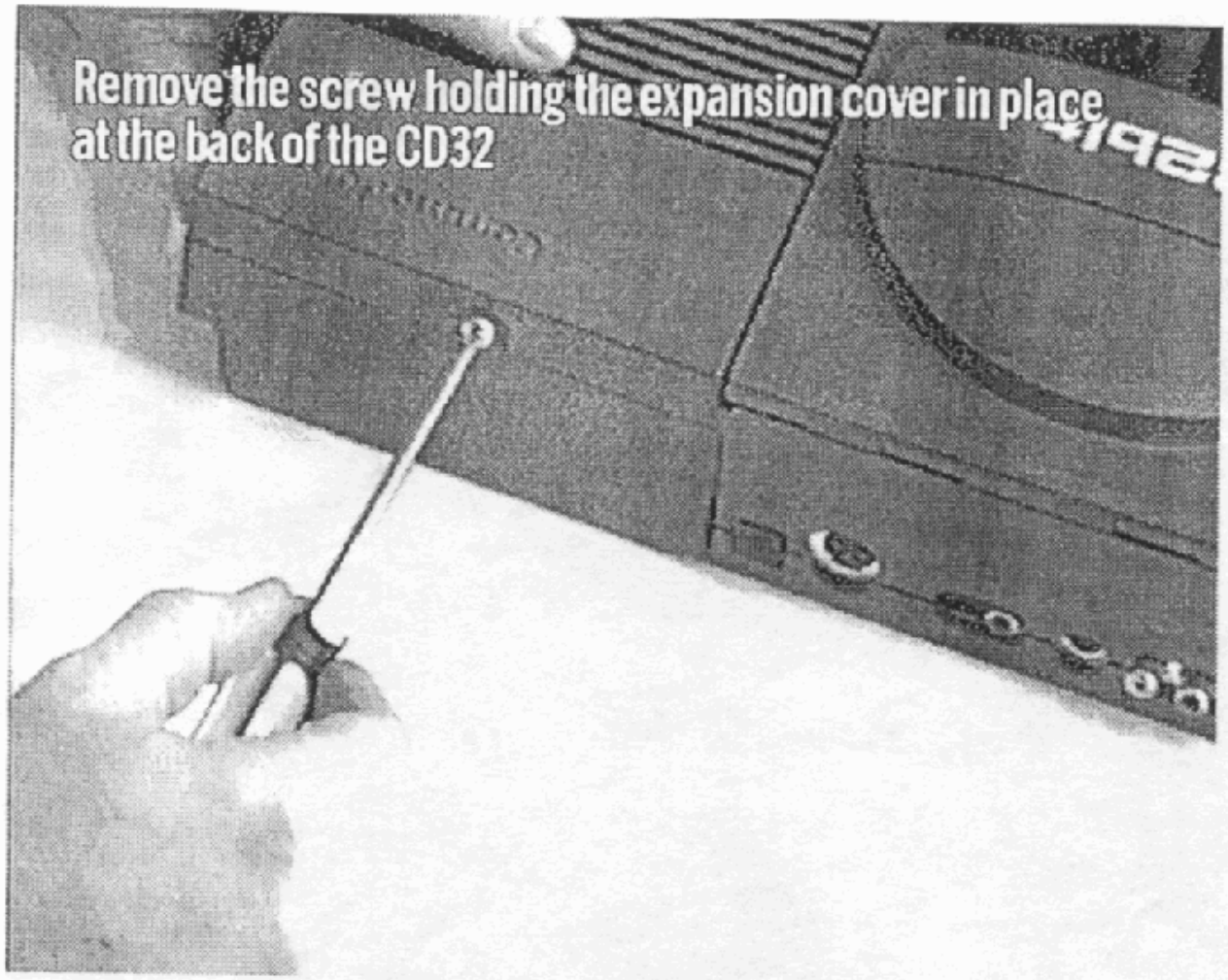


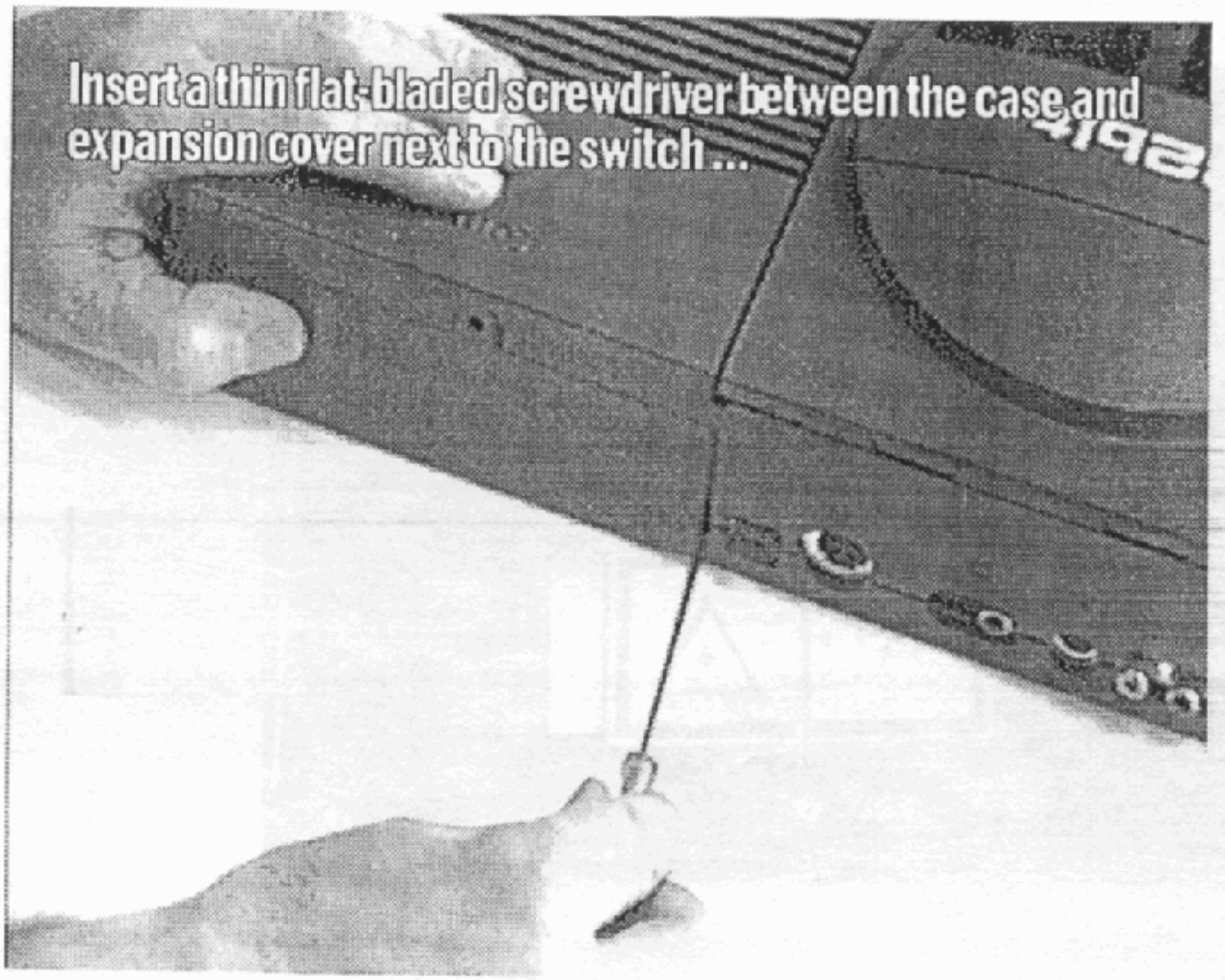
If ordered with a hard drive this will come pre-installed.

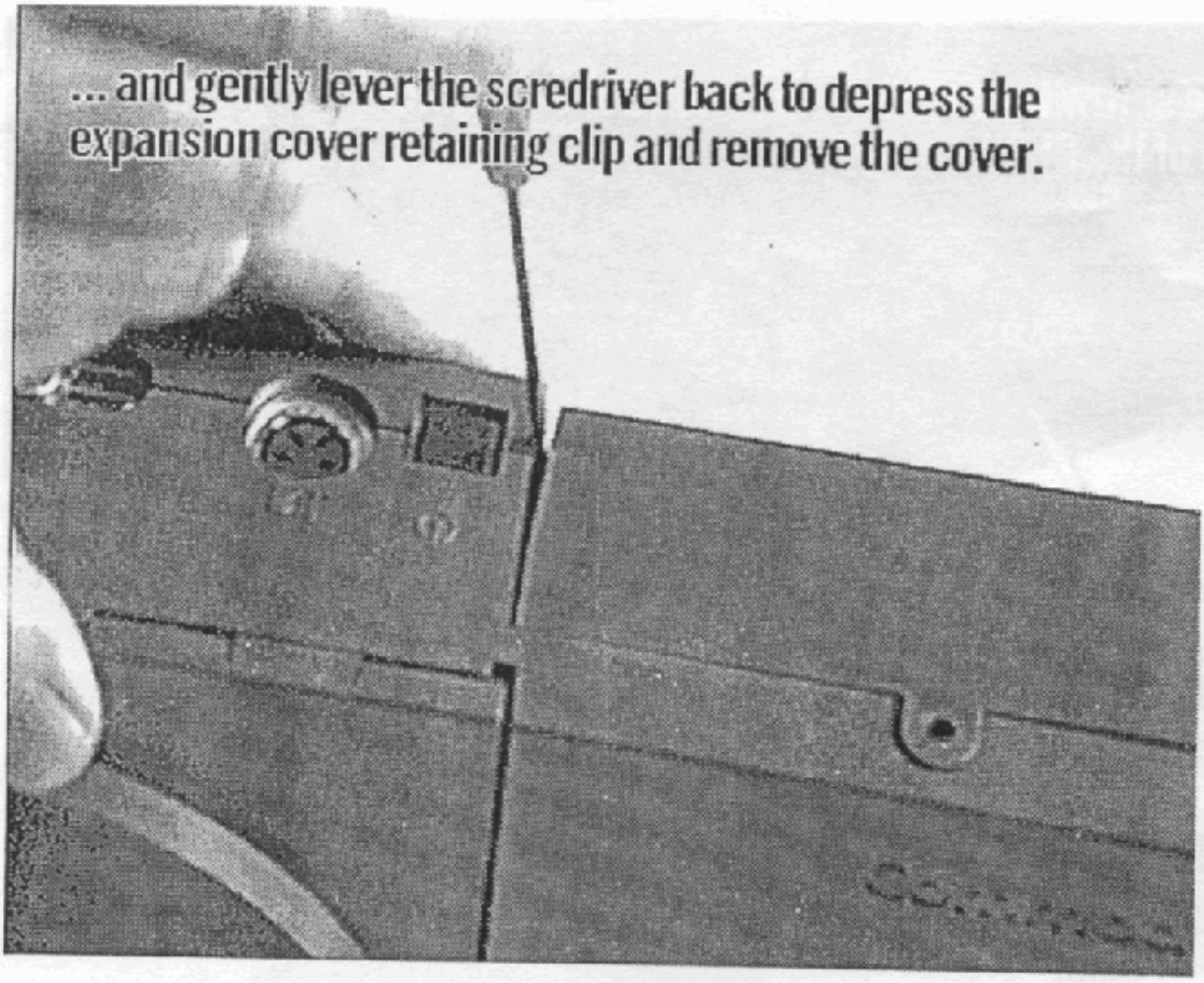


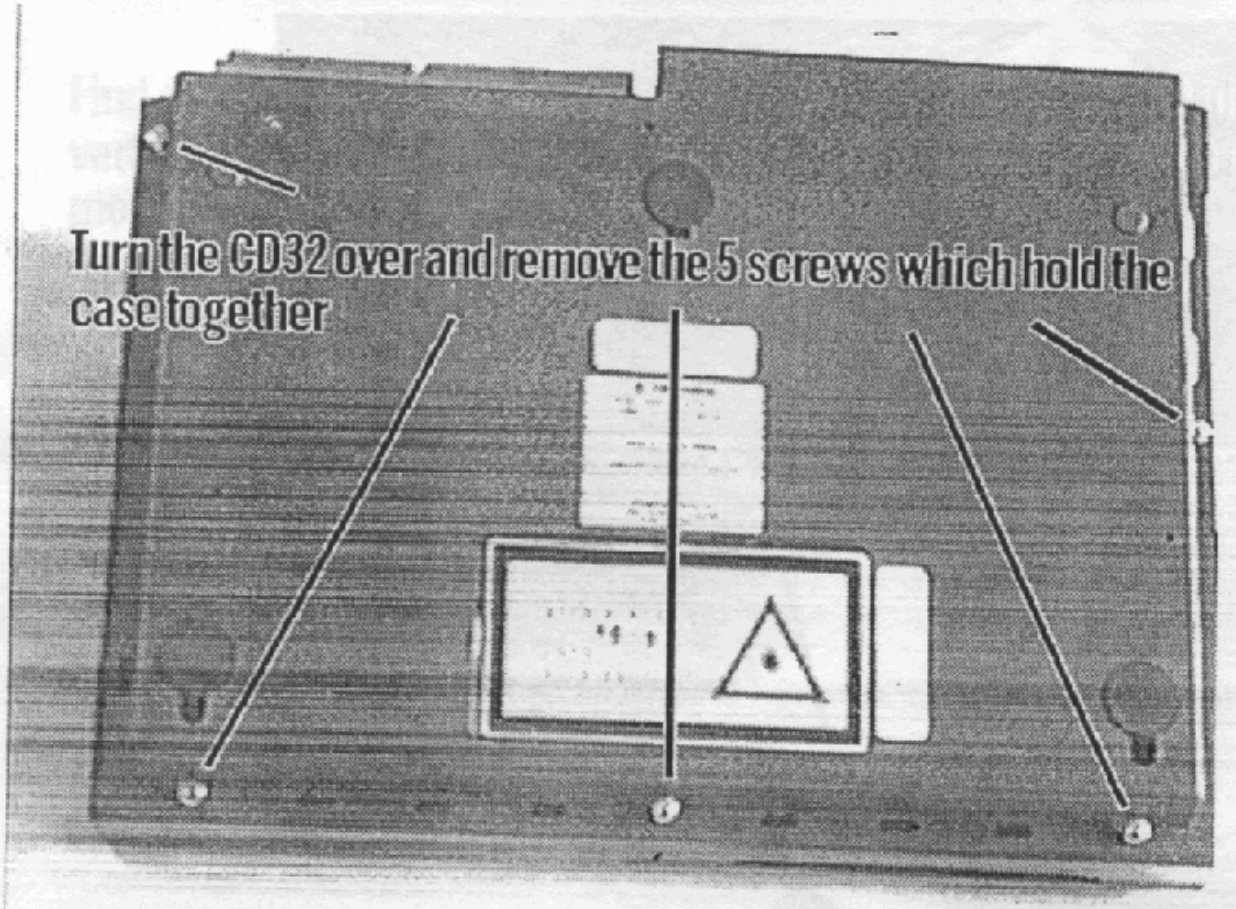
The first step is to fit any memory and/or hard drive units which are not supplied with the SX32 and slot the main board into the upper backplane slot.
Be sure to use proper antistatic straps and work surfaces whenever you handle the SX32, disk drives or memory chips.

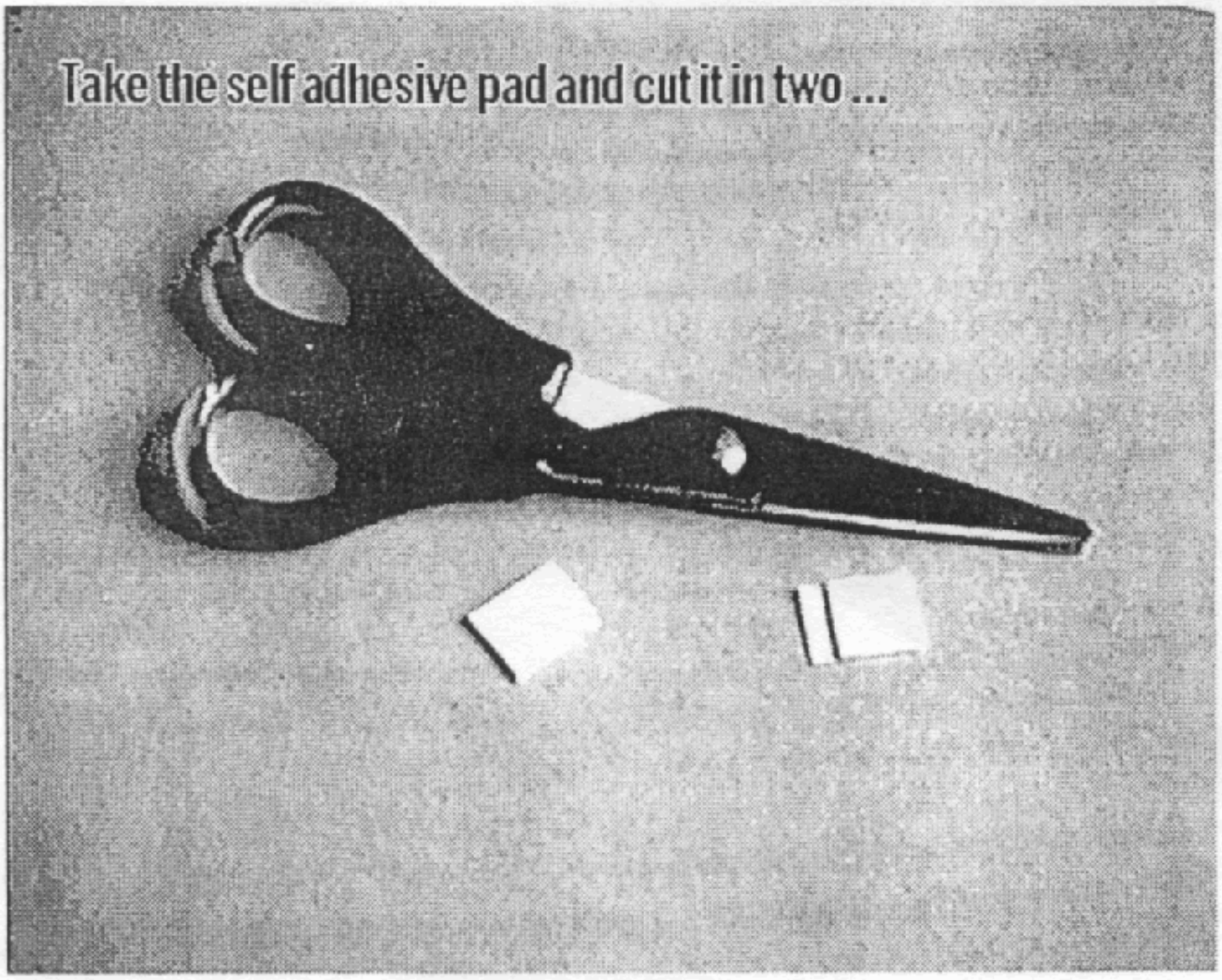


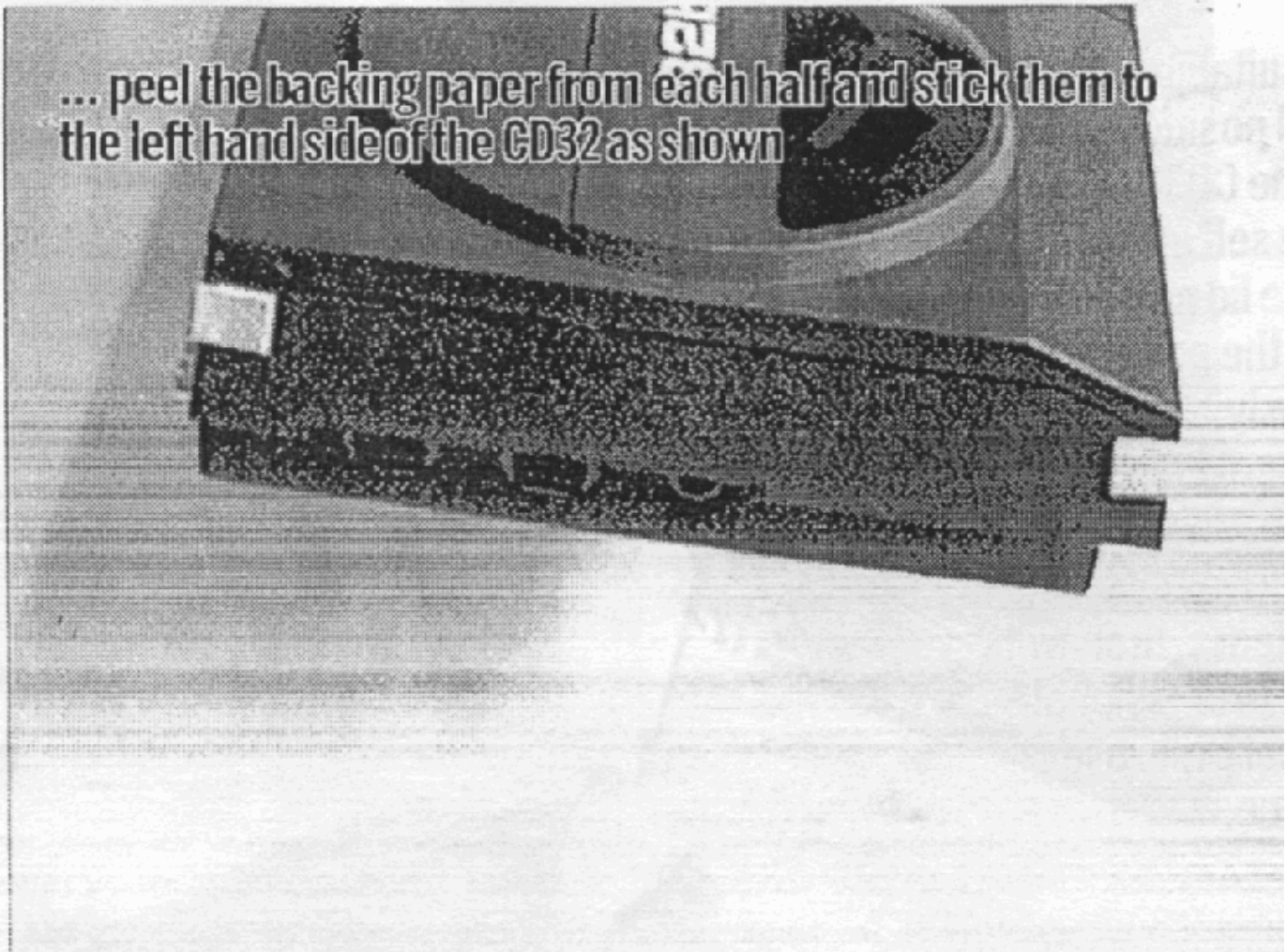

Remove the screw holding the expansion cover in place at the back of the CD32

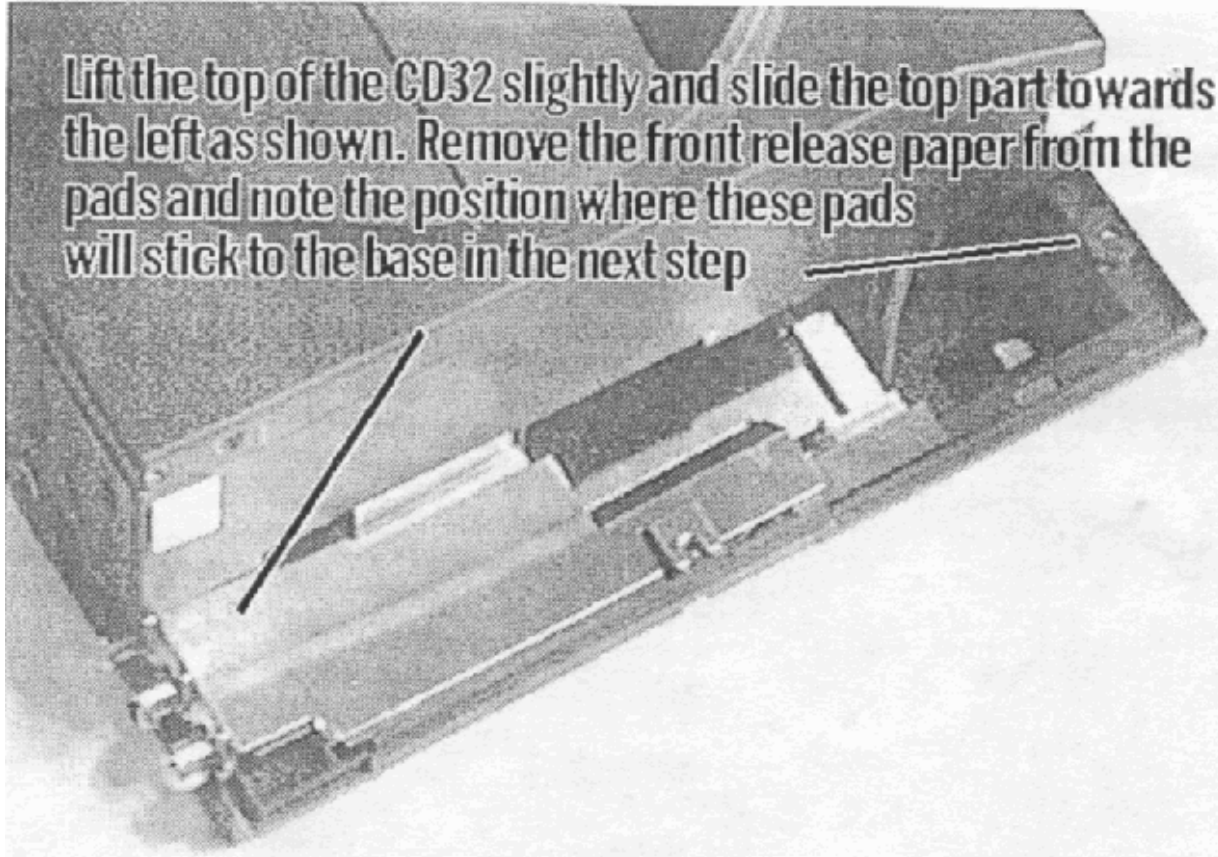

Insert a thin flat-bladed screwdriver between the case and expansion cover next to the switch ...

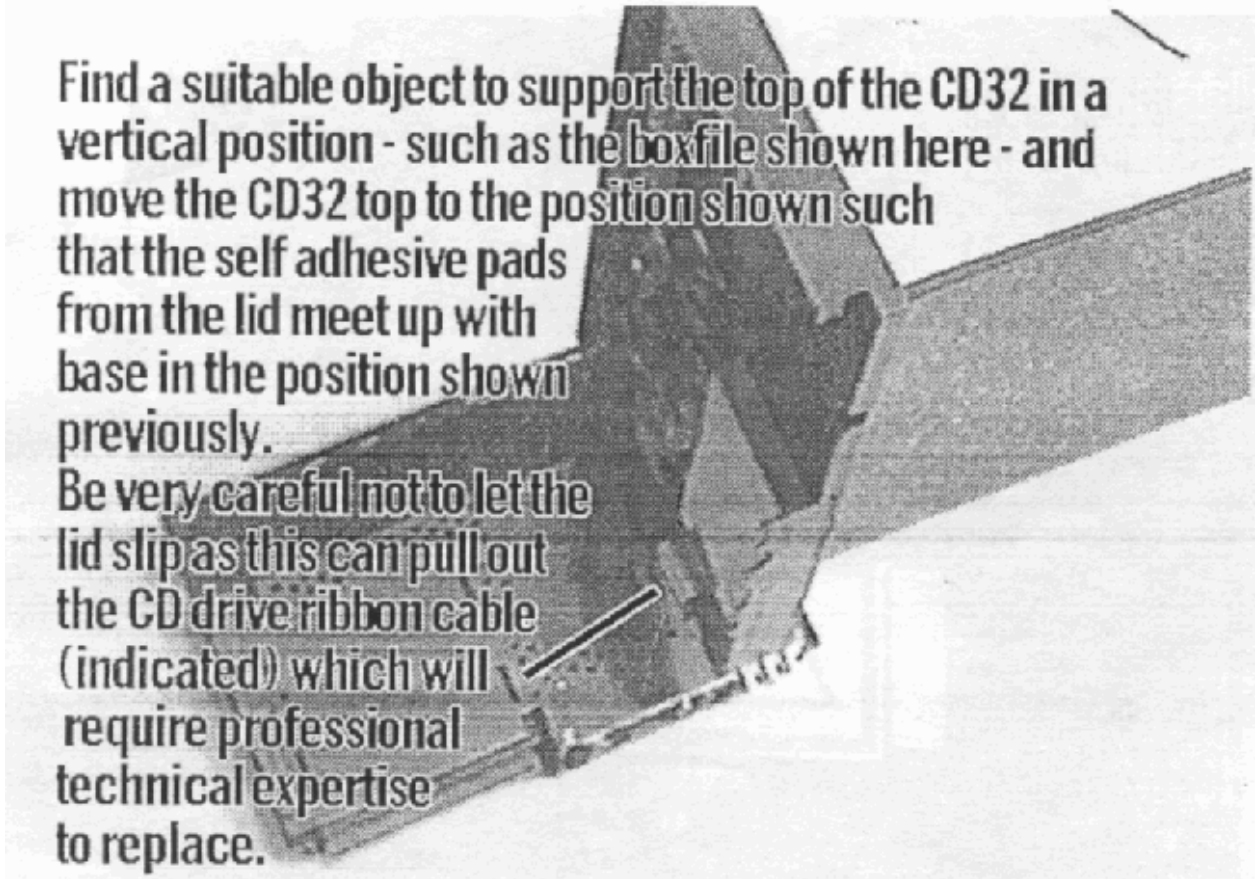

... and gently lever the scredriver back to depress the
expansion cover retaining clip and remove the cover.

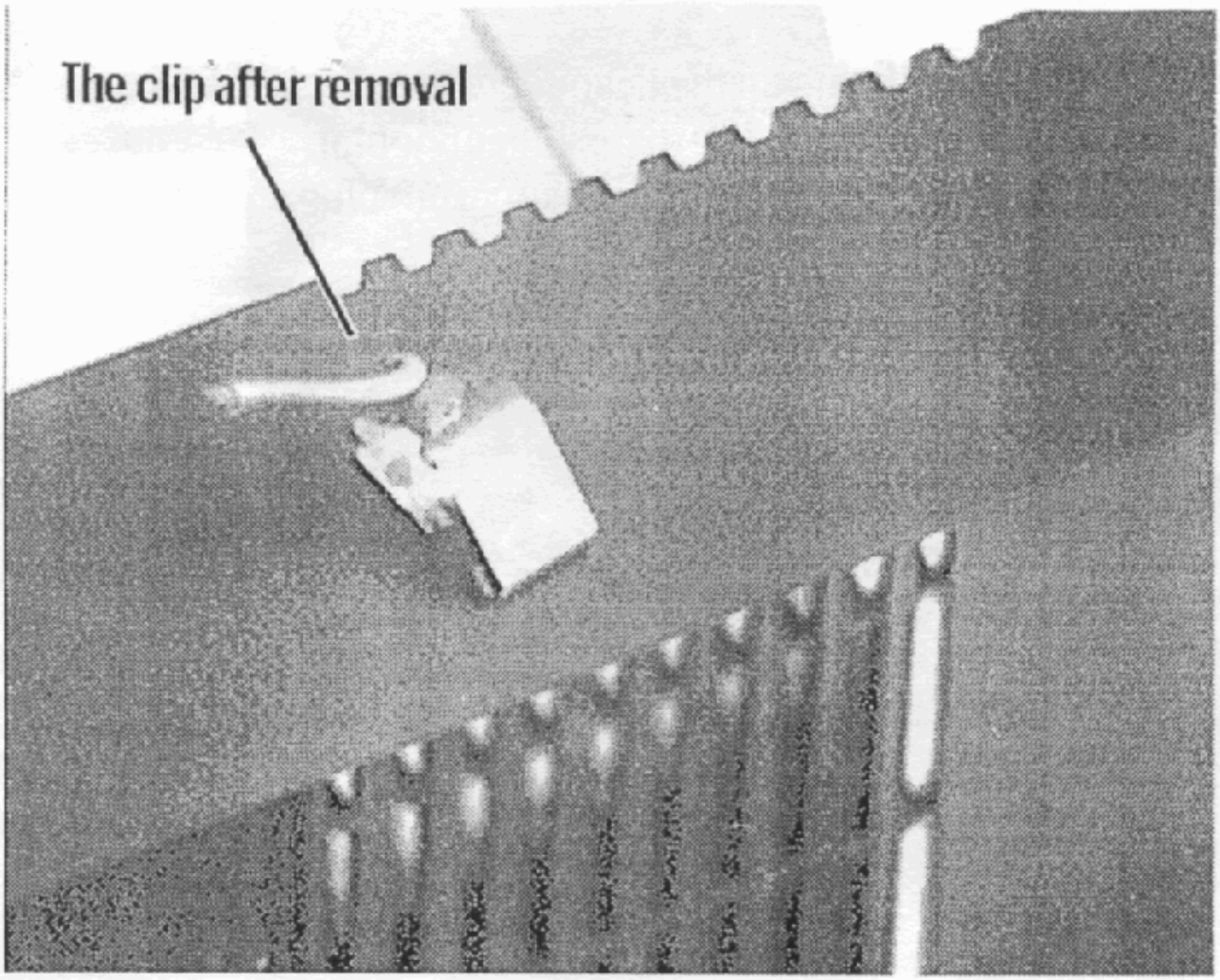

Turn the CD32 over and remove the 5 screws which hold the
case together


Take the self adhesive pad and cut it in two ...


... peel the backing paper from each half and stick them to the left hand side of the CD32 as shown


Lift the top of the CD32 slightly and slide the top part towards the left as shown. Remove the front release paper from the pads and note the position where these pads will stick to the base in the next step

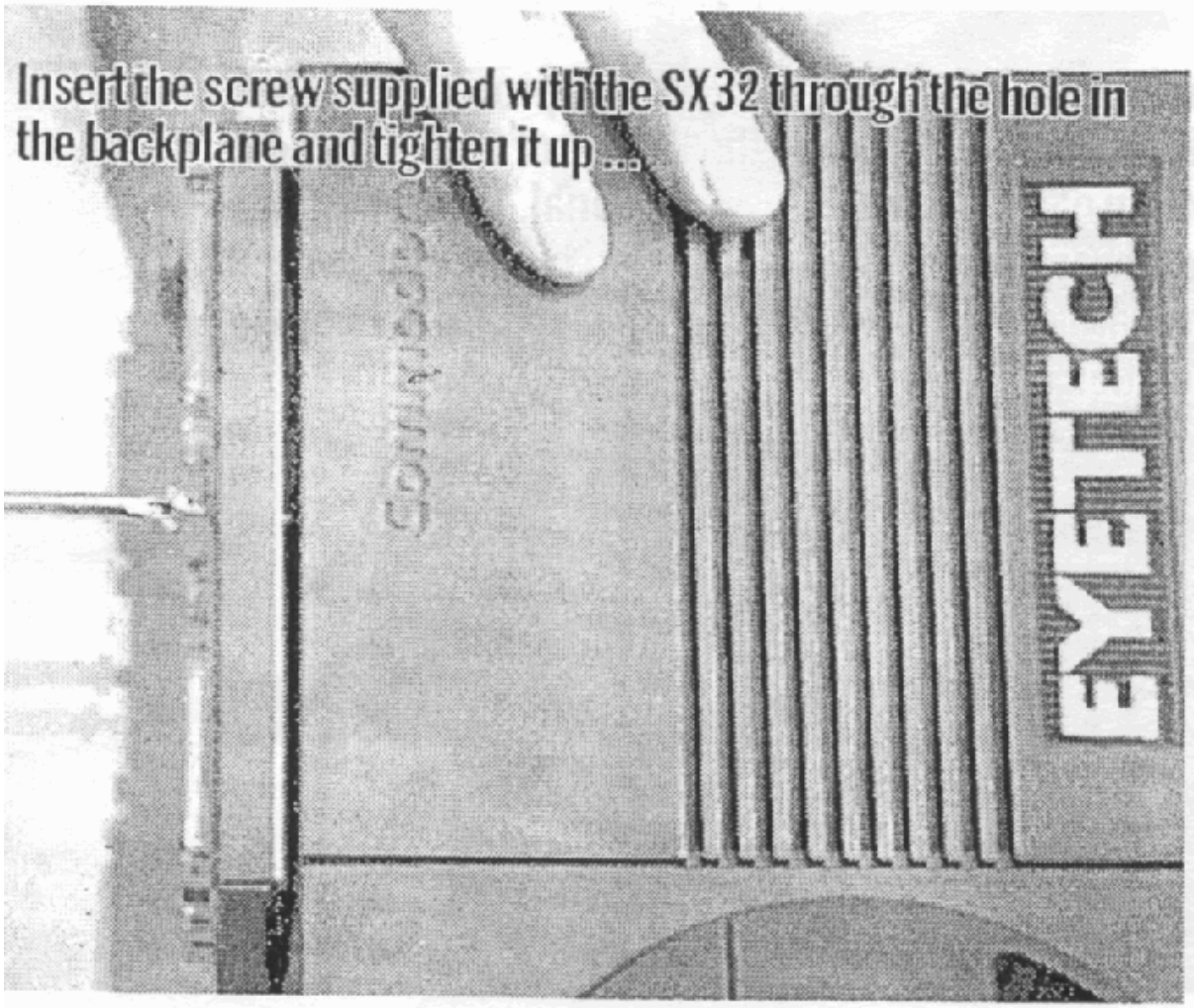

Find a suitable object to support the top of the CD32 in a vertical position - such as the boxfile shown here - and move the CD32 top to the position shown such that the self adhesive pads from the lid meet up with base in the position shown previously.
Be very careful not to let the lid slip as this can pull out the CD drive ribbon cable (indicated) which will require professional technical expertise to replace.



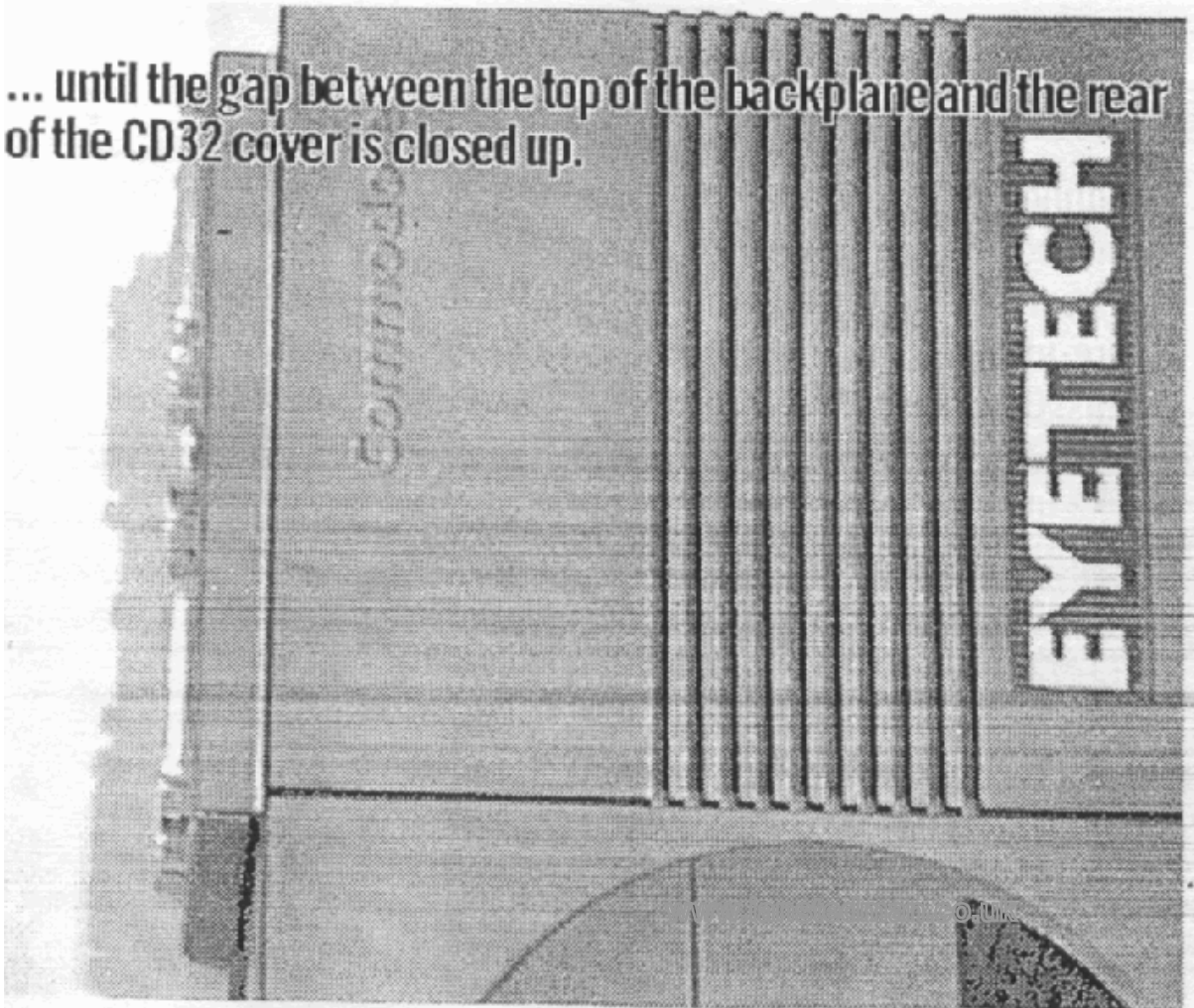

Break the adhesion of the self adhesive pads by moving the top of the CD32 clockwise slightly (viewed from the front of the CD32) and replace the top. You may need to joggle it slightly to ensure that the plastic locating legs martch up with the slots in the SX32 board.

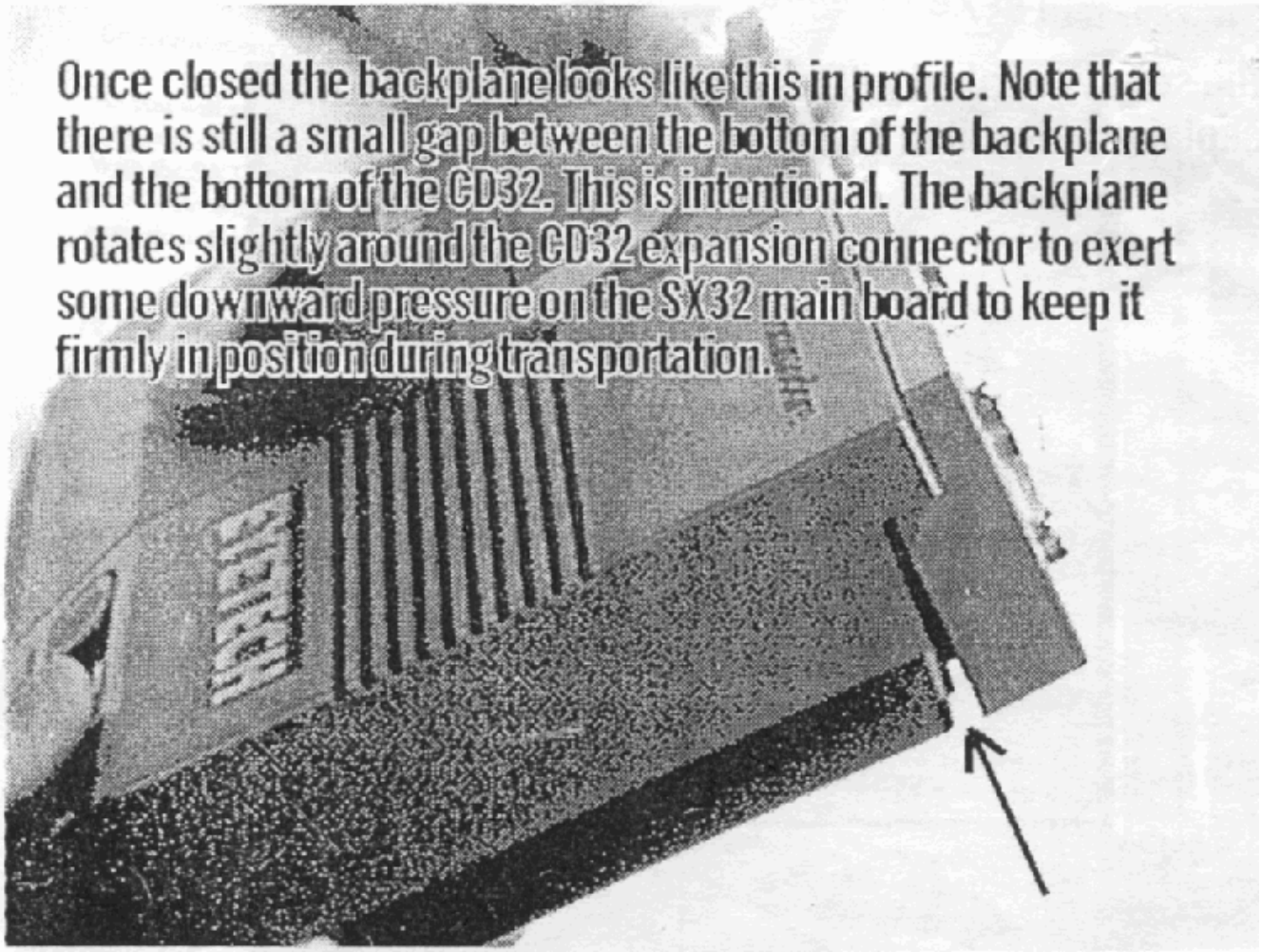
Holding both halves together turn the CD32 over and make sure that both halves match up properly as shown above. Then replace the 5 screws. If a screw doesn't fit in easily try unscrewing it half a turn until it clicks, and trying again.

Insert the screw supplied with the SX32 through the hole in the backplane and tighten it up ...

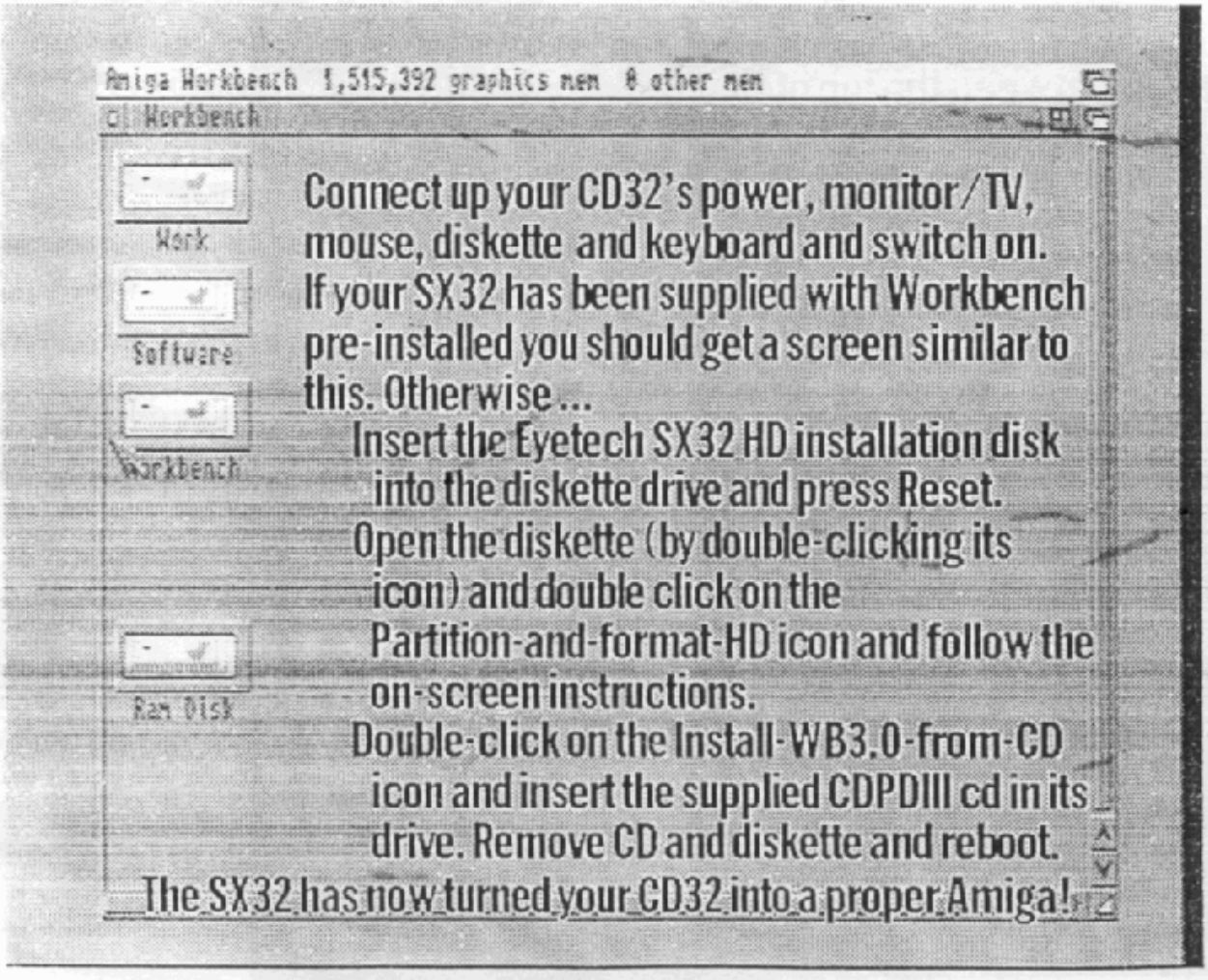



... until the gap between the top of the backplane and the rear of the CD32 cover is closed up.





Once closed the backplane looks like this in profile. Note that there is still a small gap between the bottom of the backplane and the bottom of the CD32. This is intentional. The backplane rotates slightly around the CD32 expansion connector to exert some downward pressure on the SX32 main board to keep it firmly in position during transportation.




Connect up your CD32's power, monitor/TV, mouse, diskette and keyboard and switch on. If your SX32 has been supplied with Workbench pre-installed you should get a screen similar to this. Otherwise ...

Insert the Eyetech SX32 HD installation disk into the diskette drive and press Reset.

Open the diskette (by double-clicking its icon) and double click on the Partition-and-format-HD icon and follow the on-screen instructions.

Double-click on the Install-WB3.0-from-CD icon and insert the supplied CDPDIII cd in its drive. Remove CD and diskette and reboot.

The SX32 has now turned your CD32 into a proper Amiga!

# SX32Pro Supplementary Installation Instructions

e have not yet had time to revamp the SX32 installation manual in the light of the SX32Pro so these brief ites have been written to act as a supplement to the original installation booklet

*ease note the following main differences from the original SX32 instructions.*

- The SX32 Pro automatically detects and configures most types of memory. It will take single or double sided 32 or 36 bit 72 pin simms, standard or EDO. Note that the autoconfig algorithm assumes that 2, 8 & 32 MB simms are double sided and 1, 4 , 16 and 64MB simms are single sided. If your simm is not configured in this way test it before parting with your money to ensure it works properly with your SX32 Pro.

- The SX32 Pro comes with a buffered IDE interface which is capable of supporting up to 2 IDE/ATAPI devices (4 with an optional EIDE expander adapter and software). These include additional external hard drives, removeable cartridge drives such as the SyQuest EZ or Iomega Zip/Jaz ranges, ATAPI CDROMS and tape streamers. Eyetech stock a range of external cases, cables and adapters, power supplies and hard drives - including the hard-to-obtain IDE Zip drive - to help you get the most out of your CD32/SX32 Pro.

- Note that the high performance of the SX32 Pro inevitably means that the CD32/SX32 Pro combination has a higher power requirement than that which can be provided by the standard CD32 PSU. An enhanced PSU having an output of at least 4.5A at +5v and 0.5v at +12v (such as an old A500 unit) must be used. You must also make an additional allowance if you intend to use external devices (eg digitizers, Zip drives, more than 1 floppy drive) with your CD32/SX32. In addition, if you use the unit in a warm environment you may need to fit a cooling fan to remove the heat generated by all that extra electricity consumption! Eyetech can supply suitable PSU's and cooling fans as optional extras.

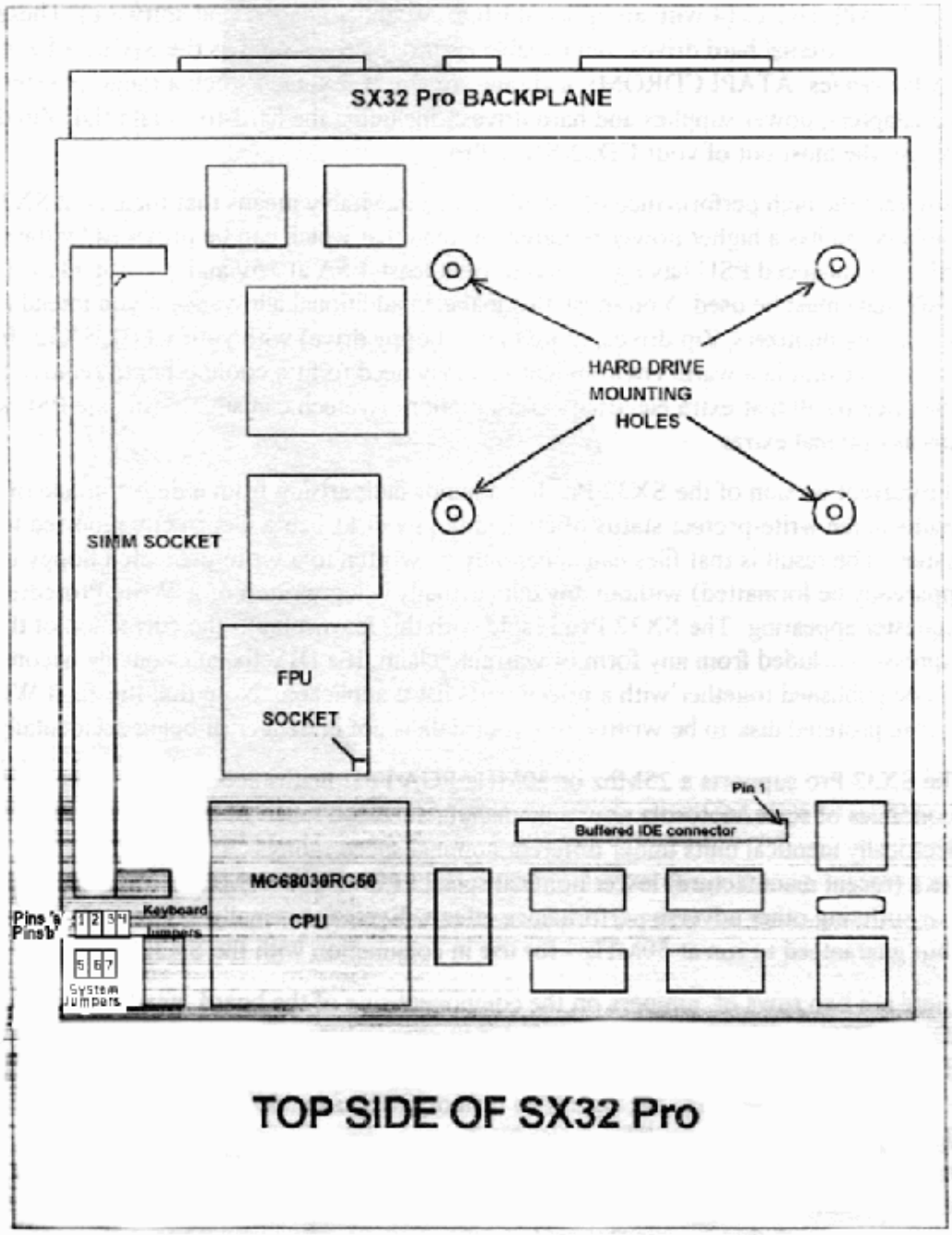
- The current version of the SX32 Pro has a minor fault arising from a defect in one of the chips. This results in the write-protect status of attched floppy disks being incorrectly reported to the operating system. The result is that files can apparently be written to a write-protected floppy disk (or it can apparently be formatted) without any data actually being written or a 'Write Protedted' status requester appearing. The SX32 Pro is sold with this known fault: the correction of this fault is expressly excluded from any form of warranty claim. If a DIY fix subsequenly becomes available this will be published together with a priced parts list if applicable. Note that this fault WILL NOT allow a write proteted disk to be written to - your data is not in danger of being accidentally erased.

- The SX32 Pro supports a 25Mhz or 50MHz PGA FPU maths accelerator. Note that for reasons of economies of scale Motorola now only manufacture one speed of PGA FPU but still market these electrically identical units under different nominal speed ratings. As a result you are quite at liberty to use a (recent manufacture) lower nominal speed FPU chip at 50MHz without in reality 'overclocking' it or suffering other adverse performance effects. Eyetech normally supplies FPU's marked at 40MHz - but guaranteed to run at 50MHz - for use in conjunction with the SX32 Pro.

- There are two rows of jumpers on the component side of the board, near the simm socket. The row of 4 jumpers nearest the the simm socket is to change between an Amiga and PC keyboard. The row of 3 jumpers nearest the back of the board are (respectively from left to right) #5. FPU speed 25MHz(on)/50MHz(off); #6: SX32Pro memory & cpu enable(on)/disable(off) and #7. fast(on)/slow(off) memory. The centre header pins can be connected to a remote switch mounted at the front of the CD32 under the 'lip' if disablng/enabling the fast memory & cpu is a frequent requirement for program compatibility. Labelling the keyboard jumpers 1 to 4 from left to right, with pins 'a' nearest to the simm socket and pins 'b' nearest to the row of 3 jumpers, the keyboard jumpers should be set as follows:

- Amiga keyboard - jumpers connect pins 1b & 2b, 3b & 4b
- PC keyboard - jumpers connect pins 1a & 1b, 2a & 2b, 4a & 4b. Jumper 3 pin 'a' (nearest to the simm socket) should be connected to the PC keyboard clock line via a special adapter which plugs into the CD32 Aux socket. The PC keyboard data, ground and +5v lines are connected directly to their Amiga equivalents on the Aux socket. The 'Amiga' keys are mapped to the PC keyboard keys F11 & F12.

- The CD32 aux socket pins have the following signals
  - Pin 1 - keyboard data
  - Pin 2 - TxD
  - Pin 3 - ground
  - Pin 4 - +5v
  - Pin 5 - keyboard clock
  - Pin 6 - RxD
- See the accompanying diagram for further clarification




**TOP SIDE OF SX32 Pro**

# The Eyetech illustrated guide to SX32 installation

Congratulations on your purchase of the SX32 expansion module for your CD32.

As you will soon find out the SX32 unit provides the CD32 with most of the expansion capabilities of the Amiga 1200, at a very cost effective price. It makes the CD32 into a compact, portable Amiga with Kickstart 3.1 and CD-ROM built in. With the SX32 expansion the CD32 also becomes a highly effective, low cost multimedia delivery platform capable of interfacing with all standard forms of commercial AV presentation equipment. And of course adding extra memory can more than double its performance as a games console.

## *PLEASE READ THE INSTRUCTIONS BEFORE YOU START INSTALLING THE SX32*

The following illustrated instructions are provided by Eyetech as an alternative to the manufacturers standard installation instructions - also included - and are designed to help you get up and running quickly and painlessly. Please read through this booklet and make sure you ***fully*** understand what to do ***before*** starting the installation. If you are unsure about any aspect please contact your supplier ***before*** proceeding - or arrange for the unit to be installed by someone familiar with upgrading computers.

## *MAKE SURE THE EQUIPMENT IS NOT SUSCEPTIBLE TO DAMAGE FROM STATIC ELECTRICITY*

Be sure to use proper antistatic precautions whenever handling electronic equipment, particularly memory modules or hard disks. Do not touch components or circuit board tracks if at all possible and *NEVER* touch them unless you are wearing an earthing strap and are working on an earthed surface - eg a table covered in kitchen foil which is itself electrically earthed to a radiator water pipe or the earth connection of a mains AC outlet. *ALL* manufacturers/suppliers/distributors exclude from their standard warranty provisions any damage which they find has been caused by mishandling - including damage from static electricity - so it is very much in your interest to observe these elementary precautions.

### *Warranty Information*

The SX32 (and any hard drive or memory modules supplied by Eyetech at the same time) carry a 12 month, return-to-base manufacturers warranty against mechanical or electrical failure. There is a £30 administration, carriage and handling charge made by Eyetech for processing warranty claims on behalf of the manufacturer for failures occurring more than 90 days from date of purchase. Note that the warranty does not cover failure through incorrect handling of the any of the units supplied, damage caused by incorrect use of hard disk management software, damage caused by faulty software or computer viruses, or damage caused by faulty equipment (including power supply units) with which any of the equipment supplied is used in conjunction. All forms of consequential loss are expressly excluded.

### *Purchase/Installation Record*

Please complete the following information for future reference at the time of fitting your SX32

Date purchased: _____

How/where purchased: _____

Disk make/model/capacity: _____

SX32/HD/FD/Kbd serial nos.: Serial No: [redacted] _____

When/where/who fitted the unit: _____

Please note any problems that you experienced when fitting the unit on a separate piece of paper and store it in a safe place along with this booklet - which forms your warranty document.