

**The Eyetech *CDPlus*
CDROM and Interface
for Amiga 1200 computers
with 2.5" internal hard drives**

Home Installation Instructions

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The Eyetech illustrated guide to CDPlus installation

Introduction

Congratulations on your purchase of the CDPlus CDROM and interface for your A1200.

The Eyetech CDPlus system and interface is far more than just another CDROM drive for your Amiga 1200 computer - it forms the basis of a complete data storage subsystem:

- The interface provided as part of the CDPlus kit can be upgraded easily and inexpensively to allow you to use a second hard drive and/or a second CDROM or a tape streamer. The second hard drive can be a conventional 3.5" IDE unit or a removable cartridge device such as a SyQuest EZ/SyJet drive or an IOmega Zip/Jaz drive
- The power supply included in the CDROM is over twice as powerful as the basic Amiga 1200 power supply unit and is capable of delivering up to 60 watts of power compared with the A1200's 23 watts. This means that you can run your additional hard drives, SyQuest units etc directly from the CDPlus units power supply using the optional adapter kit, and Eyetech can supply you with a range of low cost drive enclosures which allow you to implement these additional storage options with a simple cable connection to the CDPlus back panel.

About the CDPlus Interface Hardware and Software

Your CDPlus drive mechanism uses the ATAPI (AT architecture peripheral interface) standard - also loosely known as the 'IDE standard'. The A1200 IDE interface itself is a very much cut down version of the IDE interfaces supplied with PC's and the big box Amigas only electrically capable of supporting *ONE* IDE device on a very short cable without risking serious (and usually terminal) damage to the A1200 and/or the attached IDE devices. For this reason the CDPlus *MUST* be used with the interface supplied which - amongst other functions - adds in the IDE electronics left out of the A1200 by Commodore/AT.

The CDPlus also need two pieces of software to allow it to be recognised and used as an Amigados device/volume. These are a CDROM filesystem and an ATAPI device driver. The diskette supplied with the CDPlus contains PD/shareware versions of both these software programs, and installer routines to put these in the right places on your hard drive. (Note that there are separate installation routines for use with internal 2.5" drives and 3.5" drives). The ATAPI device driver - although fully functional - puts up a registration reminder from time to time which has to be clicked to remove it. This is usually only a minor inconvenience as most CD's are used to load programs or files intermittently. However an upgrade to the full version, including CD32 emulator, the CDFScache high performance CDROM filesystem, Audio CD players, on-screen CD ejector and software support for 2 hard drives and 2 ATAPI devices is available from Eyetech for a small additional amount. Please see the price list shipped with your CDPlus kit, or ring Eyetech for the latest prices of CDPlus accessories.

We are constantly adding to the flexibility of the hardware and the functionality of the software so please ensure that you read the 'Latest_News' file on the install diskette by double clicking on its icon.

Warranty Information

The CDPlus and interfacing components 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 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.

INSTALLATION OF THE CDPLUS

PLEASE READ THESE INSTRUCTIONS BEFORE YOU START INSTALLING THE CDPLUS

The following illustrated instructions 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 Eyetech *before* proceeding - or arrange for the unit to be installed by someone familiar with upgrading computers. *NEVER* proceed unless you are completely sure that you fully understand what you should do next - a mistake brought about by misunderstanding or a lapse in concentration can prove very costly in terms of damage caused to your A1200, CDPlus or both. *ALWAYS* ring Eyetech *BEFORE* proceeding if you need any clarification.

Please note that different interface cards - and different instructions - apply depending on whether you are fitting the CDPlus in conjunction with an internal 2.5" or 3.5" hard drive. The two interface boards - although similar in design - are electrically different and *NOT* interchangeable. If you have received the wrong interface kit and/or instructions please contact Eyetech immediately to arrange a replacement.

Precautions against damage from static electricity

Be sure to use proper antistatic precautions whenever handling electronic equipment, particularly memory modules, CDROM mechanisms 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.

Installing the CDPlus driver software

Once you have installed your CDPlus and interface boot your computer from the hard drive and insert the CDPlus installation diskette into your A1200's internal diskette drive. Open the diskette by double-clicking on it and then double-click on the 'CDPlus_for_2.5in_HDs' or the 'CDPlus_for_3.5in_HDs' icon depending on whether your internal drive is a 2.5" or 3.5" unit. The installer puts the filesystem into the L: directory of your boot (SYS:) partition and the CD0 icon (which 'mounts' the CDPlus drive) into the CDPlus drawer on your boot partition.

To have your Amiga recognise the CDPlus put an Amiga CDROM disk in the CDPlus drive, open up the CDPlus drawer in your Workbench partition and double-click on the CD0 icon. The icon representing the CD disk should automatically appear on your Workbench screen and can be manipulated with the mouse like a normal Amiga partition. Note that some disks do not have icons so you will have to select the 'Show all files' and 'Show by name' options from the 'Window' Toolsmenu whilst the opened CD is highlighted.

If you wish to have instant access to your CD you should drag the CD0 icon from the CDPlus drawer to the Workbench screen and, whilst it is still highlighted, choose 'Leave out' from the 'Icons' Toolsmenu. Again just double-click to mount your CD. Alternatively you can drag the CD0 icon into the WBStartup drawer or the Devs/DosDrivers drawer on your Workbench partition to have your CDPlus drive automatically mounted when you power up or reboot. Note however that this will mean that it takes longer to boot up, particularly if there is not a CDROM in the CDPlus drive at boot time.

Purchase/Installation Record

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

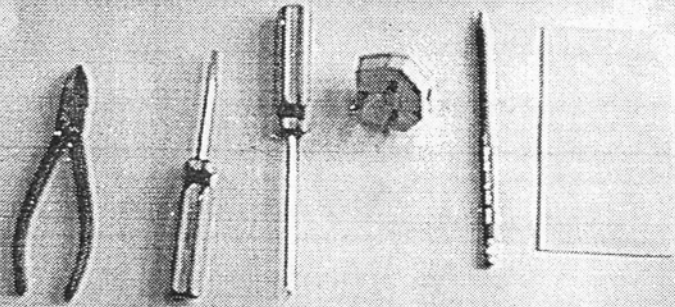
How/where/date purchased: _____

CDPlus/interface serial nos.: _____

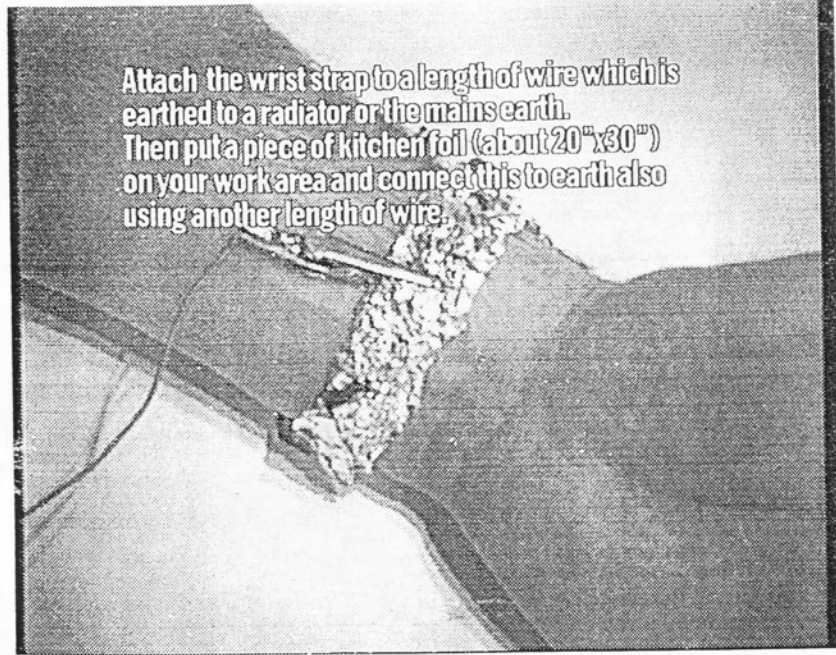
When/where/who fitted the unit: _____

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.

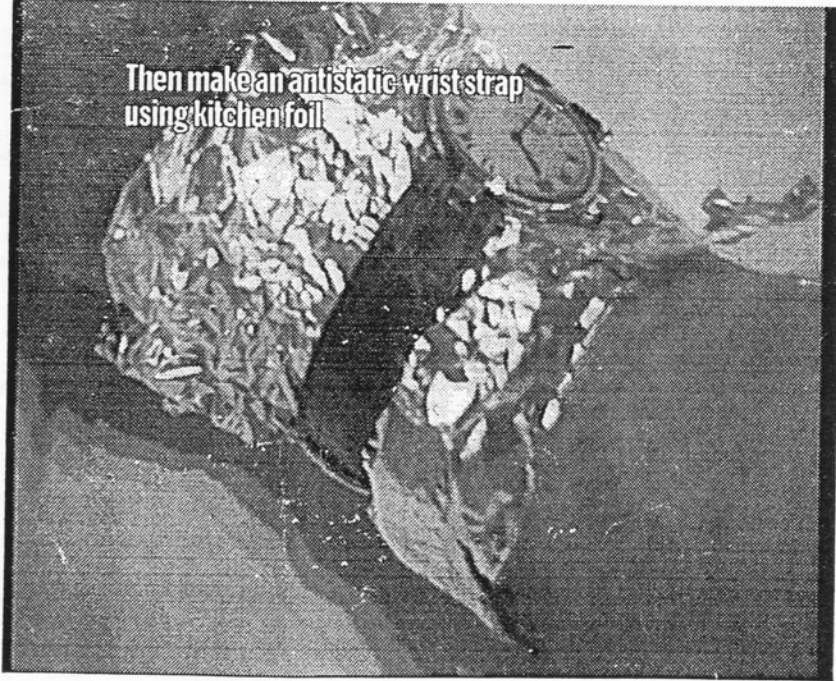
First assemble the tools you will need



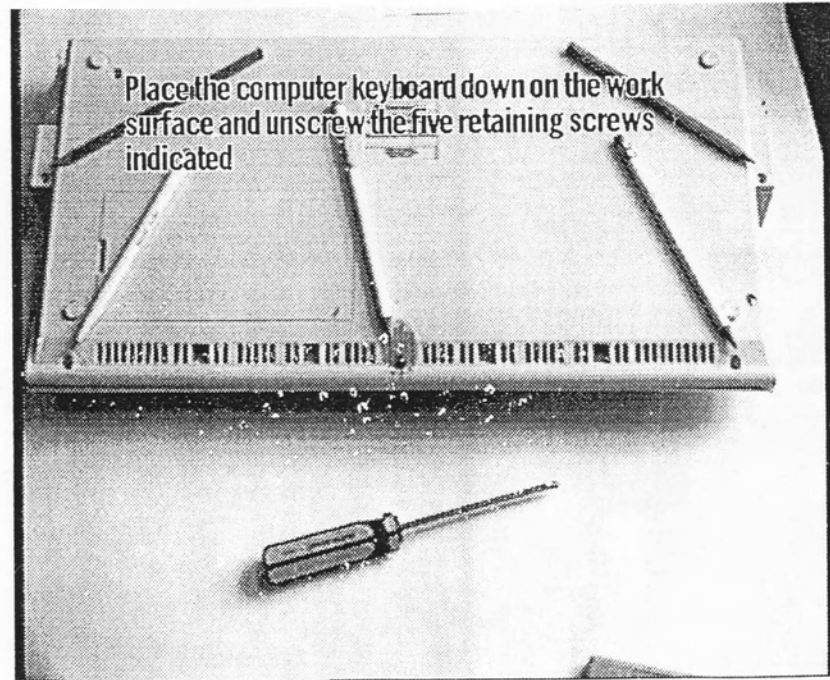
Attach the wrist strap to a length of wire which is earthed to a radiator or the mains earth. Then put a piece of kitchen foil (about 20" x 30") on your work area and connect this to earth also using another length of wire.

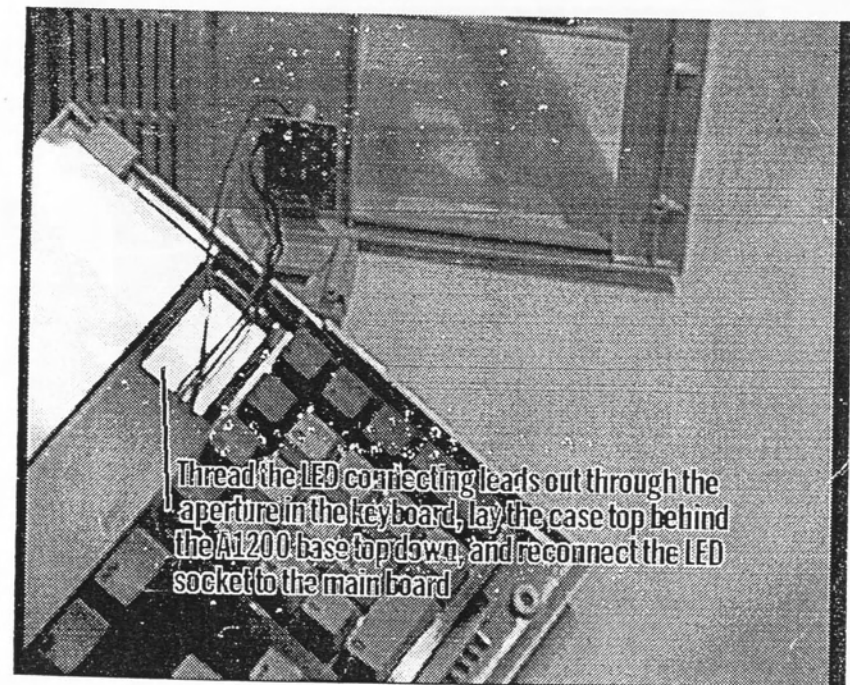
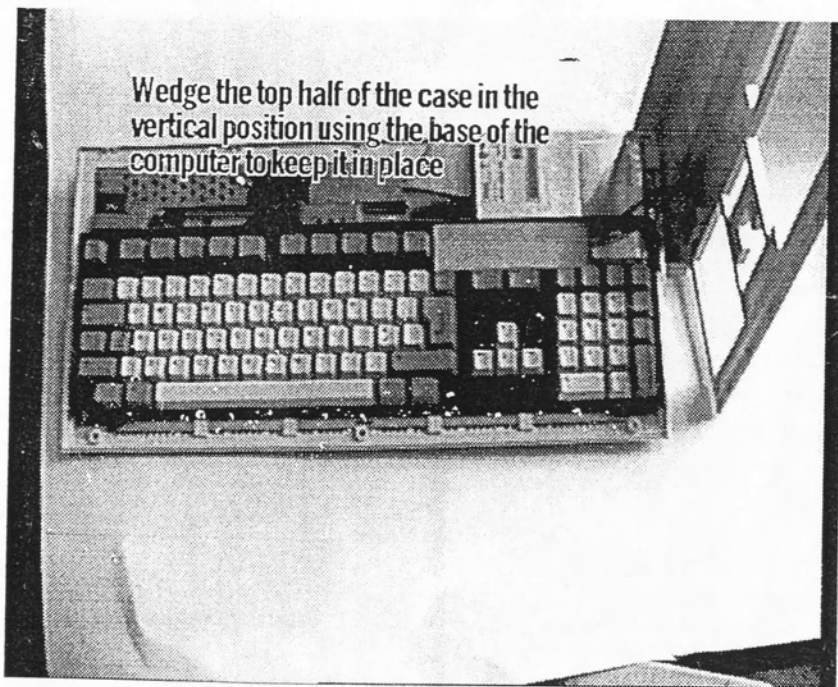
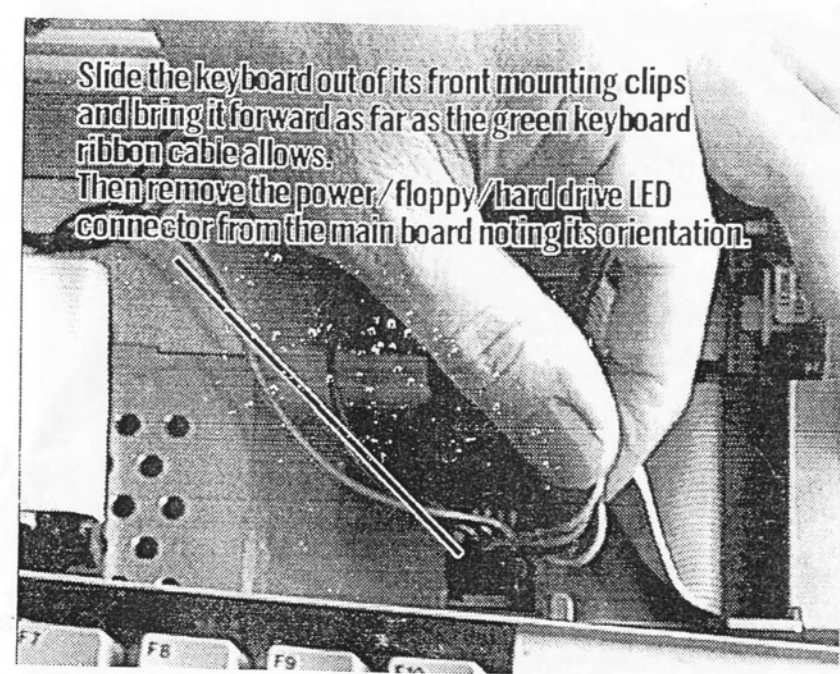
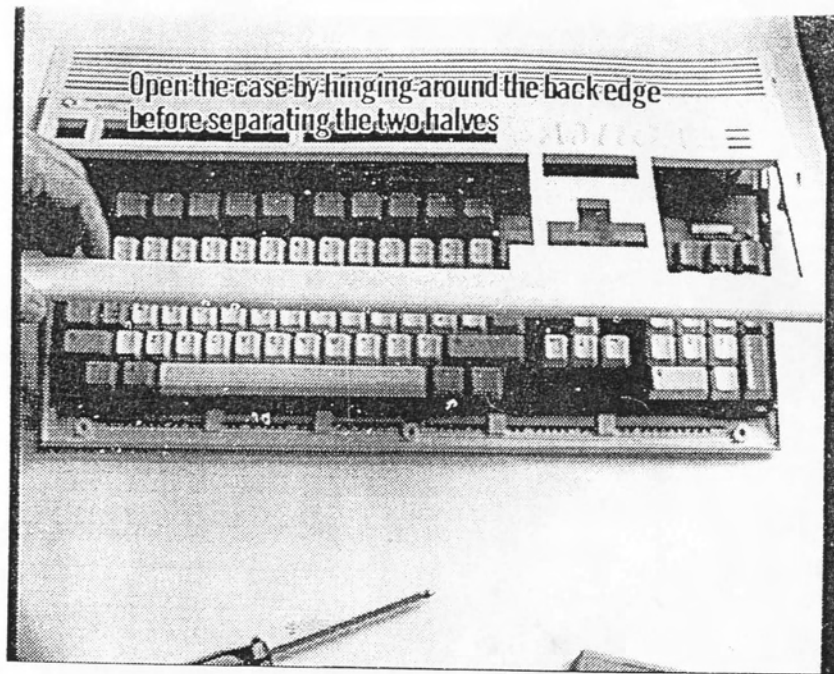


Then make an antistatic wrist strap using kitchen foil



Place the computer keyboard down on the work surface and unscrew the five retaining screws indicated





If you have a 2.5" disk drive already installed then your A1200 will probably look like this when you open the case. The CDROM kit you have purchased is designed to be used in conjunction with a 2.5" drive mounted in the position shown. A different interface kit is available for use in conjunction with 3.5" internal hard drives. The two kits are NOT interchangeable.

Please contact Eyttech immediately if you have purchased the wrong kit.

Locate the hard drive cable data connector where it plugs on to the main board. Note the position of the coloured/speckled stripe. The replacement connector from the CDROM interface board must ALWAYS be positioned with its striped cable at that end of the connector even if it requires the cable to be doubled back over the connector itself.

Coloured/speckled stripe

Remove the connector by pulling gently at both edges of the ribbon cable together so that the connector comes off the header pins squarely

Lift the drive and cradle out of its position on the main board as shown

Look at the end of the drive where the cable connects

Note that there are four spare exposed pins (usually - although some drive models may have jumpers on these pins) next to the striped/speckled wire of the data cable

The striped/speckled cable from the interface board must ALWAYS be next to these four pins - even if the cable needs folding back over the connector.

The interface board and cables for the 2.5" hard drive version as shipped.

CDROM connector

2.5" HD connector

This connector goes to the A1200 main board hard drive pin header

Red Stripe

Red stripes

Fix the Velcro loop strip as shown

To A1200 HD connector

Pin 1

Jumper to disable HD Reset line (remove to disable)

To 2.5" HD

Unused

To CDROM

Pin 1

The CDROM interface board for 2.5" hard drives in closeup

Connect the interface board to the A1200 hard drive connector as shown:

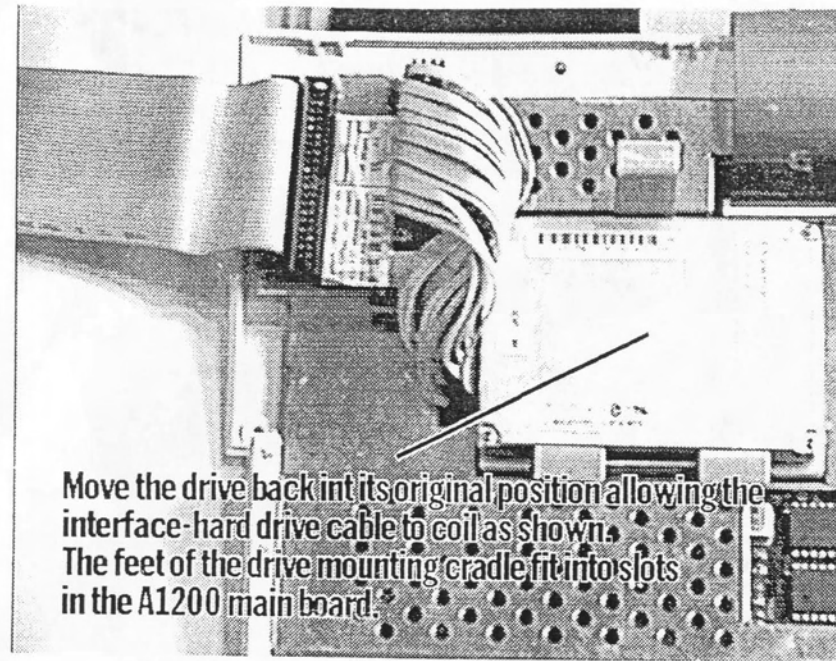
Be very careful to ensure that the cable connector mates with all the pins of the header (use a torch if necessary) and push home fully

Note the position of the striped wire. It must ALWAYS be towards the front of the computer where it connects to the A1200 main board connector

Connect the 44 way connector on the data cable to the 2.5" hard drive. Note that the striped wire should be next to the 4 spare pins on the drive connector

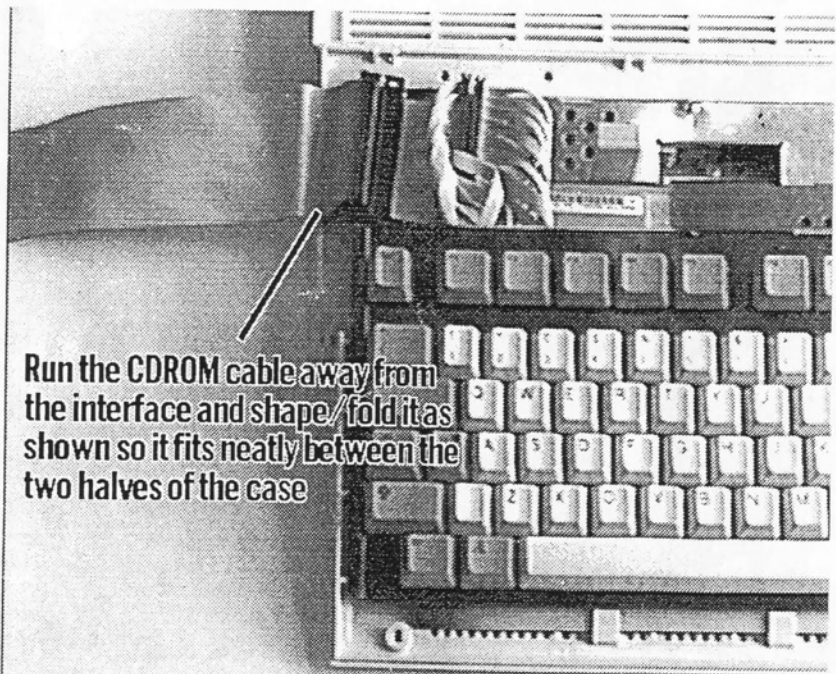
Striped wire

Spare pins



Move the drive back into its original position allowing the interface-hard drive cable to coil as shown. The feet of the drive mounting cradle fit into slots in the A1200 main board.

Move the interface board into place on the Velcro strip.

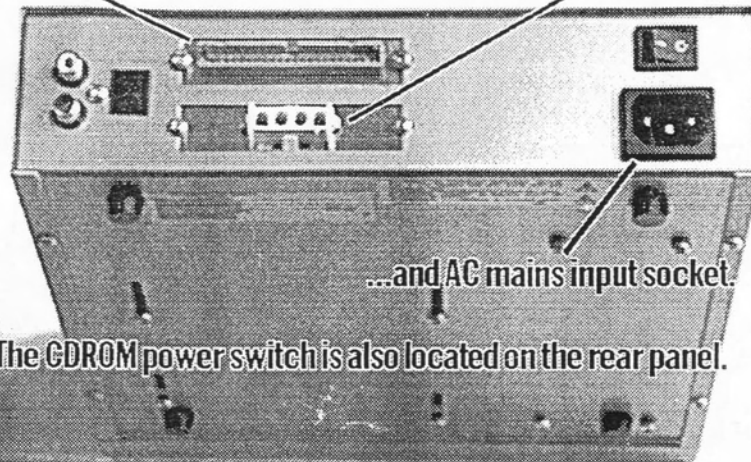


Run the CDROM cable away from the interface and shape/fold it as shown so it fits neatly between the two halves of the case

Replace the top half of the case and gently squeeze together at the rear until both halves click into place.

Holding the two halves together insert the 5 screws which hold the case together. Be careful not to overtighten them and strip the screw threads

The rear of the CDROM case has audio output connectors, data connector to the A1200, optional power output socket ...



...and AC mains input socket.

The CDROM power switch is also located on the rear panel.

Connect the CDROM lead to the socket on the back of the unit. (Connect it to the lower socket if you have ordered your CDROM with the optional auxilliary power/data interface.)

Your Eyetech CDROM and interface is able to be upgraded - at low cost - to support up to 2 hard drives and one additional storage device such as a tape streamer or second CDROM - including their power requirements. Amongst the options available are the SyQuest EZ135 and the lockable, transportable 3.5" drive case and interface as shown.

