MATOR SHARK / 22 MEGABYTE -INSTALLATION GUIDE (COMMODORE VERSION)

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INTRODUCTION

The Mator SHARK is an Intelligent Winchester Disc Subsystem designed for use with the Commodore PET microcomputer. It is fully compatible with the current range of Commodore Floppy Disc Units. It consists of a "Winchester" technology hard disc drive, a power-supply and intelligent Intel 8085A-based "Chichester" controller housed in a metal cabinet, complete with cooling fan, looms and IEEE-488 socket.

It is an extremely robust unit since the the Winchester drive is enclosed within a permanently sealed container, ensuring that no dust, smoke or other particles can contaminate the disc surfaces and recording heads. This makes the unit ideal for use in "hostile" environments, where a floppy disc would quickly be rendered useless.

However, certain simple precautions have to be taken, particularly when the unit is to be transported, to ensure that the unit is not damaged.

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO USE OR MOVE THE UNIT. FAILURE TO DO SO COULD CAUSE SERIOUS DAMAGE TO THE UNIT. AND COULD INVALIDATE YOUR WARRANTY.

UNPACKING INSTRUCTIONS

On receipt of your disc unit, remove it carefully from its packing and place where it is to be used. This should be on a level surface - the disc drive will not function correctly if it is not within 5 degrees of horizontal. There should be at least 3 inches clearance between the fan mounted in the rear of the unit and any obstruction, to ensure adequate ventilation.

To ensure that the recording heads of the drive are not damaged during transit, they have been "locked" at the factory. Before use they must be unlocked. The procedure is as follows;

1. Look carefully through the rectangular hole in the the front of the unit. You will see a label on the side of the disc drive showing the locked and unlocked positions of the head lock lever, which is located immediately below the label. The lever will be in its locked position. Before switching the unit on, but after installing the unit in its place of use, move the lever from its locked to unlocked position.

2. Plug in the unit's mains lead and switch the unit on at its illuminated mains switch. Note that the unit is set for UK mains operation i.e. 220/240 volts 50/60 Hz.

Check that;

i. the red error LED on the front panel lights up
ii. the fan is working - there should be a steady flow of air issuing from the top front of the unit.

4. Check that the error LED goes out after about 20 seconds. If it does not, switch the unit off, wait for 20 seconds and switch on again. The error LED should light up and then go out after about 20 seconds. If it still does not go out, the unit has been damaged in transit and will need professional repair. Follow the packing instructions and return the unit to Mator.

5. Once the error LED has gone out, the unit is ready to use - simply connect it to your PET with a standard IEEE cable.

PACKING / MOVING INSTRUCTIONS

If you need to re-pack your unit, or simply require to move it, IT IS ESSENTIAL THAT THE HEADS ARE LOCKED TO AVOID DAMAGE. The procedure is as follows;

1. With the unit switched OFF, simply move the head lock lever from its unlocked to locked position.

2. Disconnect both the IEEE and mains lead from the rear of the unit. The unit may now be moved without risk of damage.

IEEE CONFIGURATION

The Mator SHARK may be used in any 3987/ IEEE configuration with other devices (printers, disc units etc) No special considerations regarding the unit's position within the configuration need be taken into account.

The IEEE device number of the units been preset at the factory to 9. This is to allow the unit to be used in conjunction with a Commodore Floppy Disc Unit which is usually set to device number 8. If you wish to change the device number of the units imply follow the procedure below:

1. Switch the unit off and dismanect its power lead from the mains socket.

2. Use a small screwdriver to remark the screws holding on the unit's cover and lift off the cover. This will expose the "Chichester" controller board mounted on top of middisc drive.

NEVER REMOVE THE COVER WITHOUT ENT DISCONNECTING THE UNIT FROM THE MAINS.

3. Towards the front of the constiller board you will see a set of eight small switches numbered 1 to Switches 1 to 4 are used to select the IEEE device number (Switchessito 8 should always be set OFF). Switches 1 to 4 represent the unstilled device number in binary i.e. when ON, switch 1 = 1, switch 2 = 2, swith 3 = 4 and switch 4 = 8. Thus any device number in the range 0 to 15====be selected.

e.g. Device number 8 = switch 4 ON switches 3, and 1 OFF Device number 9 = switch 4 ON switches 3 and 0FF switch 1 ON

4. Having selected the desired deme number, replace the cover and its fixing screws and reconnect the unime the mains.

NEVER CONNECT THE UNIT TO THE MAINSTH ITS COVER OFF.

POWERING ON

The normal "power-on" procedure (i.e. when the unit is in regular use and has not been moved) is as follows;

1. Switch the unit on.

2. Check that the error LED on the front panel lights up and goes out after about 20 seconds. During this period various internal checks are carried out by the controller as well as the disc motor running up to full speed. If the error light does not go out, try again as described in the Unpacking Instructions. Please note that with the exception of the IEEE device number switches, there are no user-serviceable components in the unit. DO NOT ATTEMPT TO REPAIR, ADJUST OR OTHERWISE TAMPER WITH THE INSIDE OF THE UNIT SINCE THIS COULD CAUSE SERIOUS DAMAGE AND COULD INVALIDATE YOUR WARRANTY.

3. Once the error LED has gone out, the unit is ready to use.