Caution:

- 1. Do not insert any game/software cartridge into the memory expansion port of the disk drive. This expansion port is designed only to hook up additional RAH cartridge to the system. Remove the disk drive interface box when you want to connect a game cartridge to the computer.
- Power off before connecting the disk drive to the computer or connecting any RAN cartridge to the system.

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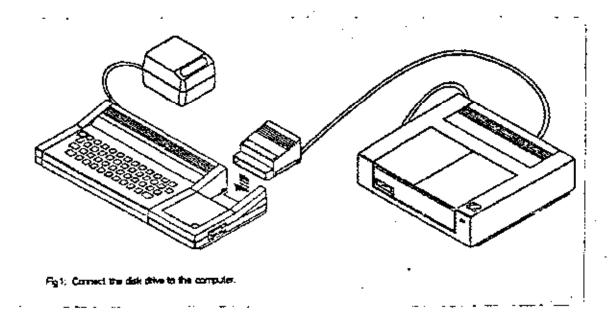
Appendix

- A. AQ-DOS Commands summary
- B. Error Nessages.

CHAPTER 1: Setting started

Connecting your Disk Brive

Before hooking up the disk drive with the AG computer, check the bottom label of the disk drive to verify if the application voltage required is the same as that of the area you live. Then connect the interface box of the disk drive to the computer as shown in Pig. 1. Connect the power cord and RP cable of the domputer to the mains socket and the TV as usual. Plug in the power cord of the disk drive to the mains socket. Check the drive selection switch located at the rear panel of the disk drive. It should be selected to drive (1) location.



Power up

always turn ON the power to the disk drive BEFORE the computer is turned on. The green LED on the left hand side of the front panel will light to indicate that power is applied to the disk drive.

When you turned on the computer and strike the "Return" key you will see the following message.

AGUARIUS DOS BASIC VER 1.0 COPYRIGHT C BY BIRCROSOFT INC.

The message means you had properly hooked up the disk drive with the computer. If you cannot find "Aquarius DOS" in the message and the green LED is not lif, it means no power has been applied to the disk drive. In case the green LED is lit and you cannot find the "Aquarius DOS" word on the screen, check if the interface box is properly connected to the computer.

For the computer to be used with the UHF TV Channels, please try both the and that to solve a channel which provides a better picture quality.

Additional memory required?

The AQ disk drive is specially designed to save your pocket money to purchase a mini expander when you want to expand your computer-disk drive system with additional memory. A memory expansion port is conveniently located at the rear panel of the disk drive (Fig. 2) and ready to accept any additional RAN cartridge. Never connect a game (RON) cartridge into this port otherwise both the cartridge and the disk drive may be damaged. This is because the Disk Operating System (DOS) is 100% packed into a firmware which resides on the same location as the game cartridge in the memory wap. This special feature means the valuable memory space of your computer will not be occupied by the DOS as compare to other disk drives in the market.

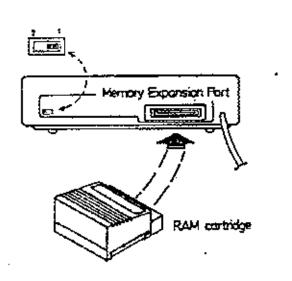


Fig 2: Expand the memory of the system.

For you to check if the RAN cartridge is properly connected, ker in

?fre(O) (Return)

The screen will display the free RAR space available. The number displayed will be the original free space available in the computer plus the addition RAR space added by the RAR cartridge.

Nake sure the power to the disk drive is switched OFF before you connect or remove a RAN module.

Imstalling the second drive.

Follow the illustration in Fig. 1 to connect the first disk drive to the computer. The drive selection switch should be selected to the drive (1) location. Then plus in the interface box of the second disk drive into the expansion port of disk drive (1) as shown in Fig. 3. The drive selection switch of drive 2 should be selected to the number (2) location. The power of the disk drives and computer must not be turned on until the system is properly connected.

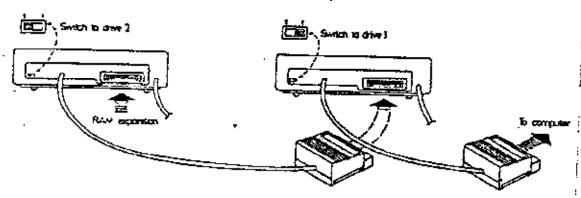


Fig.3; tracketure of the second disk drive.

To power up the system, switch on the disk drives first and then the computer. Theck that the words, "Aquarius 205" appears on the screen when you boot up the system and strike the "Return" key. In case you cannot find the "Aquarius 205" on the screen, it means the system is not properly booked up.

For your protection - Read Only Piles.

after you have stored some valueble programs and data files on a floppy diskette and do not want the diskette to be accidently erased, you can break away the "Urite Protect" frame located on the top left corner of the diskette. There Is a "Urite Protect" frame for each of side A and side B respectively. (Fig. 4)

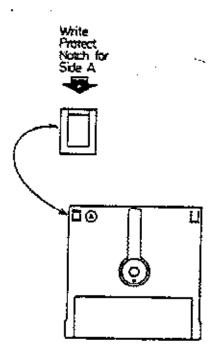


Fig 4: Write Protect Notch of a diskette

2: The 40-200

Bet w with a new diskette.

A blank new diskette must be initialized and formatted before use. The command to initialize a diskette is

INIT, (drive number)

Example: To initialize a blank diskette locates at drive 1.

INIT, 1

For a single drive system, the drive location is always drive *1". Alternatively, you may only key in "INIT" and the AG.DOS will prompt you for the drive number. An "OK" will be displayed on the screen to inform you that the diskette initialization is completed. To initialize the other side of your diskette, turn the diskette over and key in "INIT" again.

What's on the diskette?

BIR, (drive number)

is the command to produce a list of all files on the diskette on that drive. It will also give the number of free bytes available for new files.

Example: To display the directory of a diskette locates at drive

ATR

1

SIZE

TAEO

DIE, 1

An example directory displayed on the screen is:-

BIRECTORY
RAME ATR SIZE WAKE
FILE 1 1 0500 FILE 2
FILE 3 2 1000
48271 BYTES AVAILABLE ON DISK.

Where WANE denotes the name of file. ATR denotes the altribute of the file - ATR I implies the file is a machine code program or data. ATR 2 means the file is a BASIC program. Size denotes the number of bytes taken up by the file. The size is displayed in REX number to facilitate the memory calculation for software management in the AO RAH area. The number of free bytes in DECIMAL is displayed at the bottom of the directory. Totally there are 51200 free bytes available on each side of the diskette which means a total formatted storage of 100K bytes per diskette.

An alternate way to display the directory is to just key in DIR and the AQ.DOS will prompt you for the drive number.

BF1=e and Uriting

SAUE ("file name"), (drive number)

the command to save a SASIC program. The file name cannot be then six characters. In particular, you should feel the user friendlyness of AU.DOS by Just keying in the SAVE command and the DOS will prompt you for the drive number and file name.

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To load a file from the disk drive, you may use the command,

LOAD ("file name"), (drive number)

Similarly, AQ.BOS will prompt you for the drive number and file name if you simply enter the command "LOAD".

Bousekeeping

As you continue to create and save new files the disk will eventually be fill up. This can be anticipated by keeping an eye on the number of free bytes upon the DIR command. If you try to save a file which is too large, the file will not be created and an error message "DUT OF MEMORY" will be displayed.

It is a good practice to maintain a good housekeeping on your disketle. That is, to delete all unwanted files as soon as they become unwanted. This may be achieved with the KILL command.

KILL <"file name">, <drive number>

CRAPTER 3: Nore Advanced Peatures of the AG-DGS

Saving and loading machine codes

To save a machine code program, you have to specify the starting address, the ending address, and the execution address.

URITE <*file name*>, Cdrive number>, Ctop address>, Cend address>, Cexec address>.

The file name cannot be more then six characters.

As usual, if you key in only the MRITE command, the AG.BOS will prompt you for the rest of the variables respectively.

A particular rule to be noticed is that the address numbers entered must be in SEX numbers.

To retrieve the machine program use the command

LOAD ("file name">, (drive number)

and the machine code program will be dumped into the starting and anding address specified when this file is created. Of course these address area must be in the RAH area for you to LOAD the program. In loading a machine code program, the recorded execution address is also displayed to remind you where the program should start to run.

Duplicating a file

To dublicate a file from one disk drive to another disk drive (in a dual disk system) or to duplicate a file with different file name on the same disk drive use the command

DISKCOPY

The AQ.DOS will then friendly prompt you for the source drive number, the destination drive number, the source file name and the desirable fileneme for the dupilcated file. Interactive programs.

The AG.BOS commands are designed to be interactive with AG computer built-in BASIC. Listed below is a simple demonstration BASIC program which assigns a NAME to your diskette. With this program you can also RENAME your diskette anytime you went.

```
DATA:....
 10
 20
      P=PEEK(14415)+PEEK(14416)*256
 30
       READHAS.
40
       IFASC(NA#)=33THEN200
      PRINT*The name of this diskette is*;
50
60
      FORN-1T030
70
      ASSETTE CHAS, N. 1)
80
      IFAF="["THEH100
90
      PRINTAS
100
      NEXT
110
      PRINT
      INPUT "BO YOU WANT TO REMAME IT (Y/N)": AT
120
      INHID#(A#,1,1)="y"THEN190
130
140
      STOP
      KILL "NAME", 1
150
160
      IMPUT-Enter the name of diskette "; NA+
170
      IFLEN(NAS) BOTHENZOO
180
      PORNALTOLEH(NA4)
190
      ASERIDS(NAS, N. 1)
200
      POKEP+4+N, ASC(A$)
210
      NEXT
220
      POKEP+4+N, ASC(*;*)
230
      SAVE "WARE", 1
```

then you have finished the key-in of this BASIC program. SAVE it with the filename "NAME". For you to read the name of the diskette or to RENAME it, just LOAD the "NAME" file and RUN it.

If you go through the program carefully, you may discover that line 150 and line 230 are not BASIC command but AGDOS commands to enable you to access the disk drive through a BASIC program.

Appendix a

Summery of AQ-DOS c amends

I. BIR. drive number

Function: To display the directory of the diskette. Example: DIR, 1

2. INIT, drive number

Function: To format and initialize a diskette. Example: INIT, 1

3. SAVE "file name", drive number

Function: To store a BASIC program onto a diskette. Example: SAVE "TEST". 1

4. LOAD "file name", drive number

Function: To load a file from the disk drive. Example: LOAD "TEST", 1

5. KILL "file name", drive number

Function: To delete a file from the diskette. Example: KILL "TEST", 1

6. URITE "file name", drive number, top address, end address, execution address.

Function: To save a MACHINE CODE program on to a diskette. Example: URITE "CODE", 1, 3900, 3940, 3900

7. DISKCOPY.

Function: To copy a file from a diskette. Example: DISKCOPY

The computer will prompt you for the file name, drive number of the source and destination.

Appendix B

---ERROR MESSAGE---

1. 'NO DISKETTS'

You have requested disk (read or write) operations on a nonexistent disk. This may be a drive without a disk inserted, or a disk drive door that has been left open.

2. 'URITE PROTECTED'

The disk is write protected and writing is not allowed.

3. 'TIME OUT BREDR'

You may be reading from an unformatted disk.

4. 'DISK READ ERROR'

A read error occurred while trying to read a block of data. You may be reading from a block of data which may have been physically damaged or partially erased.

5. "OVER RUN"

This indicates that more than four characters have been received without the attention from the CPU.

6. 'CRC ERROR'

This indicates that a bad file is being reac from the disc.

7. 'EDF ERROR'

The file that you are reading either was not closed when it was created, or this file has been corrupted.

B. YOUT OF MEMORY'

Program too large for available memory.

9. 'SAD PILE NAME'

File name exceeds 6 character. .

10 'TOO HANY FILES'

The disk has already got 40 different files (Maximum number of file is 40) entered into it.

13 'FILE ALREADY EXISTS'

An attempt has been made to save a file, but another file with this file name already exists.

12 "INSUFFICIENT DISK SPACE" -

Uhile saving file, the entire disk was filled up.

13 'FILE NOT FOUND'

An attempt was made to load a file, but the file does not exist.