# J.BYTESSPIKELS

./MA 99/4A USERS GROUP



#### JUNE 1988 VOLUME 4 #6

# THE NEW FEATURES OF CERTIFICATE 99 v2 and its companion disk.

by Charles Good Lima Ohio User Group

The original version of CERTIFICATE 99 was reviewed in the Dec 87 issue of Micropendium and in the Feb 88 issue of BB&P. Many of the shortfalls of the original have been corrected in v2 of this fine sign and certificate making program, and additional fonts and graphics have been made available on an extra cost companion disk. Read on for the details.

It is no longer necessary to flip the disk during the loading process. You use the system disk to boot CERTIFICATE 99 either as DSK1.LOAD frum XB or as UTIL1 from EARD. After you press (ENTER) from the title screen you are asked to insert the COMPANION disk, if you have it, into DSK1 and then press (FNTFR). The COMPANION disk has on it all of the font, border, and graphics files that are on the system disk, plus some additional fonts borders and graphics. After you insert the COMPANION disk in DSK1 it is not necessary to use the system disk again. If you don't have the COMPANION disk just leave the system disk in DSK1 and press (ENTER) to continue the loading process.

If you have the COMPANION disk and have DSSD or SSDD capacity you can put all the necessary files onto a single backup working disk disk using file by file copying from the originals. Although the system and COMPANION disks are said to be copy protected, I had no trouble using DM1000 to make this backup. To boot CERTIFICATE 99 v2 from XB as DSK1.LOAD and have access to all needed system disk and COMPANION disk files without having to change disks, put these files on your DSSD or SSDD backup:

n or gonn nackah:	
BORDERS01	BORDERS02
BORDERS03	BORDERS04
CDATA00	CDATA01
CDATAOA	CDATAOB
CDÁTAOC	CDATAOD
CDATA0E	CDATAOF
CDATA06	CBATAOH
CDATAOI	CDATAOJ
CDATAOK	CDATAOL
CDATA31	CDATA32
CLOAD	GRAPHICS01
GRAPHICS02	GRAPHICS03
GRAPHICS04	GRAPHICSO5
LOAD	UTIL1
UTIL2	

After the program is fully loaded you are prompted "LOAD A CERTIFICATE (Y/N)". The default (you get this by answering "N" at the beginning of a CERTIFICATE 99 session) is file CDATAOO, and this should be left on the system disk configured on a blank certificate. If you answer "Y" you may specify any file name you want for the text, graphics, signature, and border of a previously saved certificate.

Next you are offered a choice of fonts, with samples displayed on the screen. Iwelve text fonts (A-L) are available if you use the COMPANION disk and only six (A-F) are available with just the system disk. The screen display of these fonts does not adequately indicate which have both upper and lower case lettering and which have only upper case. I think it is strange that only some of the fonts have lower case available. Also, the screen display doesn't indicate which of the fonts have letters that almost overlap when used in single spacing. The samples of these fonts that accompany this article are shown here in both large and small letter size and in both upper case and lower case. It might be a good idea to xerox these samples and attach them to your CERTIFICATE 99 v2 documentation. For general use in signs I like font C the best.

You are next asked to load a border file. There are 2 of these files on the system disk and 2 additional on the COMPANION disk. Each of these files has 6 borders and you can cycle through and see a screen display of each. If you don't like what you see on the screen sample after you load a border file, you are given the opportunity to load another border file. With COMPANION, you get your choice of 24 borders. I find the Christmas border on file BORDERO3 particularly interesting.

The next step in creating a certificate is to load a graphic file. Each file contains 12 graphic pictures. There are 2 such files on the system disk and an additional 3 graphic files on COMPANION. These files have been compresed using JOY PAINT'S PAL v2.1 into PROGRAM files of between 9 and 13 disk sectors, and cannot be viewed using MAX-RLE nor easily modified using the usual "artist" programs. Apparently you need JOY PAINT'S PAL v2.1 in order to alter any of these pre-defined graphics. You can, however, create your own screen of 12 graphics from scratch using any "artist" software that saves screens as 25 sector PROGRAM files. DRAW 'N PLOT, and TI ARTIST will make such files. These 25 sector PROGRAM graphic files will successfully load into CERTIFICATE 99 v2.

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### DEMONSTRATIONS ROOM

10:00 Jack Sughrue-demo of DCUS! 10:30 GENEUE CONPUTER ON H CHRB 11:00 BUD DILLS-RORIZON RADDISK 11:30 BRUL UHEELER-SOFTWARE DEMO DOOD "THE FUTURE OF USER GROUPS" 1:00 Blind Person using 99/4% 1:30 Sim Reterson's DUCS& BOUTS

2:00 Generology with Gene III

2:30 99/4n output to a DGR

# DEMONSTRATIONS

10:00 JACK SUGHRUE-DEMO OF PLUSI 10:30 GENEUE CONPUTER ON A CARD 11:00 BUD MILLS-HORIZON RAMDISK 11: 30 PAUL WHEELER-SOFTWARE DEMONOON "THE FUTURE OF USER GROUPS" 1:00 Blind Person using 99/47 1:30 Jim Peterson's NUTS&BOLTS 2:00 GENEROLOGY WITH GENE 111 2: 30 99/49 OUTPUT TO 9 UCB

### **DEMONSTRATIONS** In room 160

10:00 Jack Sughrue-demo of PLUS! 10: 30 GENEVE conputer on a card 11: 00 Bud Mills-HORIZON RAMDISK 11: 30 Paul Wheeler-software demo NOON THE FUTURE OF USER GROUPS 1: 00 Blind person using 99'4A 1: 30 Jim Peterson's NUTS&BOLTS

2:00 Geneaology with GENE III

2:30 99/4a output to a VCR

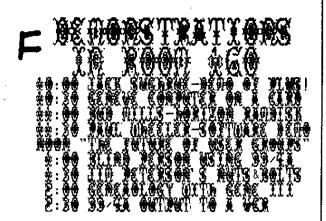
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1:30 din Perenson's 114784.80278

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10:00 JACK SUGHRUE-DEMO OF PLUS! 10:30 GENEVE CONPUTER ON A CARD 11:00 BUD MILLS-HORIZON RAMDISK 11:30 PAUL WHEELER-SOFTWARE DEMO

NOON "THE FUTURE OF USER GROUPS' 1:00 BLIND PERSON USING 99/4A

1:30 JIM PETERSON'S NUTSEBULTS 2:00 GENEAOLOGY WITH GENE 111

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1:30 JIM PETERSON'S NUTS&BOLTS
2:00 GENEAOLOGY WITH GENE III

# DEMONSTRATIONS IN ROOM 160

2:30 99\4A OUTPUT TO A VCR

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10: 30 GENEVE CONPUTER ON A CARD
11: 00 BUD MILLS-HORIZON RAMDISK
11: 30 PAUL WHEELER-SOFTWARE DEMO
NOON "THE FUTURE OF USER CROUPS"
1: 00 BLIND PERSON USING 99/4A
1: 30 JIM PETERSON'S NUTS&BOLTS
2: 00 GENEROLOGY WITH GENE III

2: 30 99/48 OUTPUT TO B UCR

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finally you are asked to pick a signature, or no signature. You are offered the same choice of predefined signatures that were available with the original CERTIFICATE 79. The COMPANION disk does not provide any additional choices.

After positioning your text and printing out certificate you are given the opportunity to "SAVE CERTIFICATE (Y/N)\*. If you answer Y, you can then save using any file name you want the text, border, graphic, and signature in a 4 sector data file. This data file can be loaded again whenever prompted to "LOAD A CERTIFICATE (Y/N)". When these certificate data files are later loaded, you still have to go through the entire routine described above for loading border and graphic files. However, the default file name is displayed on the screen and the border or graphic file is loaded by just pressing (ENTER). Also, when using a previously saved certificate data file, the desired border or graphic is the first to be displayed on the screen after the default border or graphic file is loaded, and can be selected by just pressing (ENTER). Thus, when you load a previously saved certificate you can print the certificate by just pressing (ENTER) at each prompt until the printing routine starts.

#### Other minor changes:

1- You are no longer asked to specify screen foreground and background colors after each and every certificate is printed. Alot of time was wasted in vi of CERTIFICATE 99 doing this.

2- The v2 hardcopy docs have printouts of all the borders and most of the graphics for you to see all at once. I like this. The docs also have samples of each font, but these samples are the same as the on screen samples and are of limited value. The font samples that accompany this article are much more useful.

CERTIFICATE 99 v2 is available for \$19.95 and its COMPANION for \$9.95 from TRITON, TEX-COMP, other TI dealers, or directly from Great Lakes Software, 804 Grand River Ave, Howell MI 48843. Great Lakes Software charges \$1 per disk for shipping. Owners of the original CERTIFICATE 99 can get a special price on v2 and on its COMPANION by returning the original directly to Great Lakes Software. The exchange price on the v2 system disk is \$9.95 (+\$1) or you can exchange for both the v2 system disk and its COMPANION for \$14.95 (+\$1, yes only \$1 shipping for both disks). If you get a chance to visit a TI faire, such as next year's Lima Multi-User Group Conference, you might be able to get CERTIFICATE 99 v2 and COMPANION at a lower price. Great Lakes Software sometimes offers discounts on their software at such shows.

I updated from the original to v2 and am glad I did. I recommend the updated version, particularly as an easy to use sign maker. \*\*DONE\*\*

#### Bits, Bytes & Pixels

#### Replacing the Gram Kracker Lithium Battery with a NiCad Battery by Mike Richardson Lima Ohio User Group

**NOTE:** Proceed at your own risk. You assume all responsibility for decisions to modifying a Gram Kracker. The memory chips (6264) in the Gram Kracker are sensitive to static electricity and are easily damaged. If you are not adept at modifying circuitry, seek help from a users group who may be able to assist.

The average life of the lithium battery in my Gram Kracker is about 6 months. After opening it about a half dozen times to replace the battery, the pins between the two mother boards have become bent. I decided to install a NiCad battery in the Gram Kracker. This article documents the procedure I followed.

#### MATERIAL REQUIRED:

- 1 Yuasa #3-51 FT-P 3.6 Vdc 50maH NiCad battery with wire leads.
- 1 1N4001 diode
- 1 10 ohm 1/4 watt resistor, SEE NOTE BELOW

#### **SOURCE** of Battery:

You may order the battery from All Electronics Corp., P.O. Box 567, Van Nuys, CA., 91408. This company has treated me fairly in the past when I was not satisfied with an order.

Catalog # NCB-3.4PC \$1.50 each 10 for \$12.50 S/H \$3.00 per order Phone # 1-800-826-5432

#### **INSTRUCTIONS:**

- 1. Study the schematic and board layout before beginning.
- Open the Gram Kracker according to the Operators Manual.
- 3. Momentarily place the NiCad battery behind the center switch and between the two CMOS ram chip banks (6264). Visually inspect and confirm that the battery will fit within your version of the Gram Kracker.

DO NOT PROCEED UNLESS YOU ARE CONVINCED THAT THE BATTERY WILL FIT!

- 4. Remove the lithium battery.
- 5. Observe the polarity markings on the lithium battery holder. Now carefully unsolder and remove the holder. Using an ink pen, mark a small t and sign symbol next to the printed circuit (PC) traces that the battery holder went through.
- 6. Using a pair of side cutters, gently cut the top row of leads off the center switch (Gram 1-2 / TI BASIC). The top two leads of this switch are not electrically connected to any circuit on the board. Now unsolder and remove the other end of the cut switch wire leads from the board.

NEXT PAGE

#### Bits, Bytes & Pixels

10 ohm

111

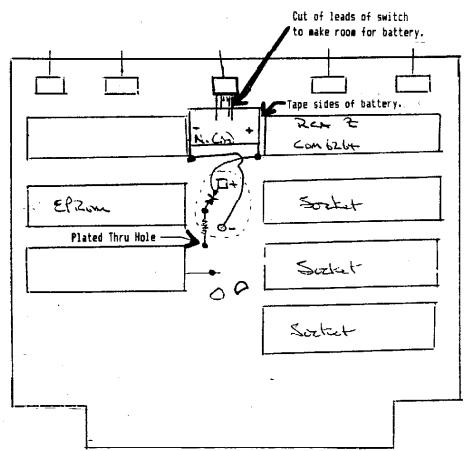
- 7. Cut one lead of the resistor to 1/2 inch length. Cut the anode lead of the diode to 1/2 inch length. Wrap the cut lead of the resistor around the anode lead, of the diode. Solder this joint. Solder a 3 inch piece of Kynar wire (Radio Shack wire wrap) to the cathode lead of the diode.
- 8. Referring to the attached sketch, install the other end of the resistor lead in the plated thru hole and the cathode lead of the diode in the positive PC terminal. Solder both ends on the PC board. Solder the other end of the Kynar wire on the diode to the positive Lerminal of the N1Cad battery.
- 9. Cut a 3 inch piece of Kynar wire and solder one end to the negative terminal of the NiCad battery. Solder the other end of the wire to the PC board hole where the old lithium battery holder was installed.
- 10. Put 2 small pieces of electrical tape on each end of the NiCad battery. Press fit the NiCad battery in between the two banks of CMOS ram chips (6264).
- 11. Double check all your work. Check to make sure there are no solder or flux bridges on the board. Power up the Gram Kracker at YOUR OWN RISK.
- 12. Leave the computer on for about 20 hours to fully charge the NiCad battery. This battery should power the battery backup circuitry for about 4 to 6 weeks between charges.

XI7

Note: The +5 volts to the resistor is obtained from the plated thru hole on the GK lower board. This plated thru hole picks up the +5 volts from the edge connector #19 of the GK board. You will need to trace this from this edge connector to the plated thru hole.



#### SKETCH OF BOTTOM GRAM-KRACKER BOARD



Note: The "Memo Power" NiCad battery apparently has a built in current limiting resistor. I am currently using a 10 ohm resistor in the schematic above. A digital voltmeter reading of the voltage across the resistor indicates that the charging current thru the NiCad is about 2ma. The old GE NiCad Battery reference book suggest a charge rate between 0.05C and 0.1C. The 2ma rate would be 2/50= 0.04C. Close enough! However, I leave it up to you to choose the proper resistor value.

#### Bits, Bytes & Pixels

#### HORE ABOUT RIP OFFS AND HON TO AVOID THEM: 51VE THE HELPLINE A CALL BEFORE BUYING. by Charles Good

In August 1987 Micropendium carried two full page ads from a dealer called "Innovative Programming". These ads were mainly devoted to the GrandRam of DataBiotics, with delivery promised in September 87. "Innovative Programming" is a one man operation in the form of Mr. Galen Read. Mr. Read took in over \$10000 from these Micropendium ads including \$4000 from several southwestern user groups. That was the last anyone ever saw of this money. DataBiotics never received any money from Galen Read and potential purchasers will probably never see their GrandRams or their money.

This should never have happened. The tip off that something was wrong should have been Innovative Programming's unwillingness to accept credit card orders even though they operated a toll free phone line. As I have said in a previous article, paying by bank credit card guarantees that you will receive the paid for items. If not, you can get your bank to cancel the charge.

But, the fact is that most of the T.I. market these days is based on very small "ma and pa" software and hardware companies that do not want to be bothered with the expense of processing credit card orders. This includes well respected names such as Genial Computerware, Bud Mills Services, and Asgard software. How then can a potential buyer protect against being cheated and not receiving goods paid when sending money through the mail for advertised TI software and hardware? There is a way. Check with the HELPLINE first before purchasing. This free, non-profit, non-affiliated phone service is available Monday-Saturday 9-4 California time at 414-753-5581 and is the closest thing in the T.I. community to a "rumor central".

When you call, the person who answers will be Dr. Guy Romano. He has seen an advance copy of this article and approves of its publication. If a dealer or manufacturer has any previous history of less than honest business practices Dr. Romano will probably know. He reads all the newsletters, regularly talks to many people in the T.I. community, and is the best single surce of T.I. information I know. In September 87, one month after the Innovative Programming published its GrandRam ads Dr. Romano warned me to stay clear of Innovative Programming and asked me to pass this warning on to members of my user group. Galen Read had previously done business under another name, according to Dr. Romano, and left many less than satisfied customers.

Ur. Komano has also in the past told me what he knows about Gary Kaplan of Home Computer Magazine fame and some of the stuff he has pulled. It seems Gary has a previous history, prior to publishing 79er Magazine, of publishing

special interest periodicals and then abruptly publication and leaveing long term subscribers with nothing. If I had known this prior to the time I subscribed to 3 years off 99er Magazine I could have saved myself alot of trouble. I have also learned from Dr. Romano of the terrible reputation of Ryte Data. He is the "highly respected and well informed source" I cited in my November BB&P editorial comment about Ryte Data as having knowledge about someone in England who paid \$300 to Ryte Data and never received the paid for items. Recently Ryte Data has circulated a statement to the effect that the negative comments in Micropendium about Ryte Data are only due to a business disagreement between the two. Micropendium is said to have altered an ad sent to them by Ryte Data for publication, so Ryte Data is refusing to pay for the ad. Well, all of this may be true, but I can assure you that Ryte Data's problems are not limited to Micropendium. A member of the Lima User has been cheated out of both money and his disk controller by Ryte Data and may never see either the money or the controller again. Ryte Data has failed to respond to a letter from me about this situation, a letter that specifically requested a reply.

Of course Dr. Romano cannot guarantee you that you will get what you pay for. However, if a dealer or manufacturer has any previous history of less than ethical dealings he probably knows the details. Dr. Romano can also give you his opinion of the QUALITY of a specific piece of software and hardware that you might wish to purchase. He has read most of the newsletter reviews ane has personal experience trying out much of what is available for the T.I. and beneve. I don't always agree with his opinions about specific hardware and software items, but I have found most to be quite accurate. For one man's knowledgable opinion about quality, and for the latest info about who is honest and who isn't, give the HELPLINE a call before you purchase. All it costs is your long distance phone time. 415-753-5581

#### \*\*DONE\*\*

#### CHEAP JOYSTICKS AVAILABLE AT RADIO SHACK

Radio Shack stores have available new surplus Colecovision (Adam Computer) game controllers for only \$2.99 each. These units are designed to be hand held and include double fire buttons activated by the thumb and foretinger of the holding hand, and a small umbrella-shaped joystick knob operated by your other hand. The controllers will work unmodified on Commodore and Atari systems and require an adapter (available from most TI dealers) to work properly with the TI99/4a. My kids and I have all found that with such an adapter they work just fine as joysticks. Farh unit also has a numeric keypad, but this keypad does not respond when used with the 99/4a. These controllers are available in limited quantity, and when they are gone they are gone. Radio Shack's catalog number is 270-1711.

#### SEEING IS BELIEVING

### USER GROUPS ARE ALIVE AND WELL

Saturday May 21,1988 was truly a day to remember for the OHIO VALLEY AND SURROUNDING AREAS. The day started before 8:00 a.m. when the first guest to arrive was a couple from Cleveland, Ohio. Shortly after that, Harold Hott from St.Louis, Mo. arrived with his wife. Before long, the doors were proped open to the exhibit area so that L.L.Conner of Lafayette, In. could bring in his truckload of wares including cables, Rave 99 keyboards, software from almost everyone, peripheral cards and a assortment of connectors and chips. Before L.L. Conner was set up, members from TI Chips and Northcoast 99ers from Cleveland, Ohio had their tables set up with X-10 powerhouse systems and a builetin board especially set up for the Lima conference. John Sturman and Jim Meekel had hardware and software for sale.

EDU-COMP from North Ridgeville, Ohio had the GENEVE on display and were called upon at the last minute to put on a demonstration in the demo room. With no hesitation, the fine people from EDU-COMP moved their system into the room and ran the machine through its paces. They also had a very good selection of anything for the II computer.

Mr. Tigercub, Jim Peterson was at his table showing off his fine collection of tips and programs. Jim answered a lot of questions and sold his software.

Jack Sughrue came in from Boston on Friday so that he could show off his PLUS disk that can be used with FUNNELWEB. If you have not seen this disk of utilities you are missing a fine piece of software from your collection. Jack also represented ASGARD SOFTWARE, NUTMEG TI 99ers, GENIAL TRAVELER, and MISSILE WARS by John Behnke.

Two young men from GREAT LAKES SOFTWARE of Howell Michigan shared a booth with MICRO-SERVICE of Ft. Loramie Ohio. GREAT LAKES demonstrated JOYPAINT 99 and CERTIFICATE 99. They had quite a show to see. MICRO-SERVICE demonstrated a STAR NX1000 PRINTER with JOYPAINT 99 and CERTIFICATE 99.

THE GREAT LAKES USER GROUP from the Detroit Michigan area was making FLIPPIES for everyone with a neat machine that lines everything up and punches notches and holes all in one punch. They also had misc. items for sale or trade.

THE FORT USER GROUP from Fort wayne Indiana was present showing their library and membership information. They also had a good selection of hardware and misc. for sale.

THE CIN-DAY USER GROUP was well represented at their table. They were running muliple systems showing off some fine graphics on the monitors. They also had their library and membership information available.

C.O.N.N.I. Columbus, Ohio user group also appeared to be here in force. Their group had a home made keyboard on display along with a variety of things for sale or trade. Irwin hot, one of their members, gave the most impressive demonstration of speech synthesizers. Irwin is blind and used speech to list output. I was lucky enough to see his demonstration and I swear he had his computer talking to itself.

Bud Mills of HORIZON RAM DISK was there dispite the fact that his family was having a retirement party for him the same day. Bud put on a demonstration of his HRD+RAM and answered many questions from the floor. I think Bud sold all the cards he had and was taking orders for more.

As the day came to a close it was apparent that this was going to be the lst. annual multi-user group conference. Everyone had a good time and enjoyed the company of over 320 fellow TI hobbist.

I want to thank all of you for your participation and support.

SEE YOU NEXT MAY!

Dave Szipp! Lima TI user group

#### Bits, Bytes & Pixels

# SOME PERSONAL COMMENTS ABOUT OUR MULTI-USER GROUP CONFERENCE

by Charles Good

Because I spent so much time running around greeting people and trying to see that everything ran smoothly I didn't actually get a chance to see many of the demonstrations and displays. Elsewhere in this newsletter is a better description of all that went on. Virtually all the individuals I talked to said that they had a good time and hope that the Lima Group will do it again next spring. All of the dealers present said that they did well financially and they too wanted to return. Based on the number of name tags we used (everybody was supposed to pick up a free name tag) and based on three independent and very close counts of the people who did not wear name tags we estimnate that total attendance was 320. This is probably a very accurate estimate. Considering the fact that there are only 15 local families that are members of the Lina U.G., this attendance figure was beyond our best expectations.

Will we do it again next spring? In all probability we will. We have a unique situation in our relation to the Lima Campus of thio State University which allows us to run our Conference at NO COST to anyone attending, and this is probably why we were able to get such a large attendance. The only circumstance I can forsee that might make us not want; to have a repeat Conference is if another thio area user group wants to organize their own Spring 1989 Conference. If that happens the Lima II.6. will attend. Otherwise, lets plan on getting together in Lima again next Spring.

\*\*DONE\*\*

#### FREE VIDEO TAPE OF OUR MULTI-USER GROUP CONFERENCE

At our recent Multi User Group Conference we videotaped all of the demonstrations. These demonstrations included, in addition to those listed in last month's newsletter, world premiers of the new features of FUNNELWEB v4.1 (as yet unreleased), the new features of DISK UTILITIES v4.1 (also as yet unreleased), and Norman Rokke demonstrating his "1000 Nords" which converts TI Artist graphics into files printable out of the TI\_Writer formatter.

A COPY OF THIS 5 HOUR VIDEO IS AVAILABLE FREE to any user group (not individuals) just for the asking. Send a blank good quality video tape and a postage paid return mailer to the Lima User Group at the newsletter address. We have been slow in delivering copies of this video to those who left tapes and postage with us at the Conference and for this we apologize. A sudden death in the family of the person responsible for copying the video is the main cause of this delay. We hope to get your tape in the mail soon. Please bear with us.

\*\*DONE\*\*

BITS, BYTES & PIXELS

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Published by Lima OH

99/4A User Group

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Disk Drive

TEAC.

360K Memory
Double Sided/Double Density
%" Floppy Disk Drive
Fits IBM PC, XT & Compatibles
Installation Regulard
Ends Constant Program/
Storage Disk Changings

ST995

This ad was found in the Spring 88 catalog of Computer Direct of Barrington IL

We are not sure whether it refers to a very thin disk drive, a drive that uses very tiny floppy disks, or both.