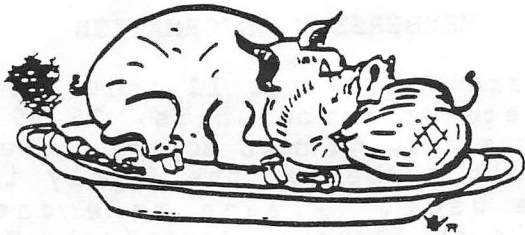


H.A.A.U.G.



HOUSTON AREA APPLE USERS GROUP

THE APPLE BARREL

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President, Bruce Barber

Vice President, Mike Kramer

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Houston Area Apple Users Group
APPLE BARREL
Box 42888 #293
Houston, Texas 77042

MEMBERSHIP INFORMATION

<<< CLUB NOTES >>>

The HOUSTON AREA APPLE USERS GROUP is an Apple II user club, not affiliated with Apple, Inc., or with any retail computer store. HAAUG is a member of the International Apple Core and supports its purposes and publications. General membership meetings are held on the second Thursday of each month in the rear chapel of Memorial Lutheran Church, 5600 Westheimer, right by the Jungman Branch Library and west of Chimney Rock. They start at 6:30 p.m. An additional meeting for access to the club software library, problem-solving, and various lectures is held the last Saturday of each month at the University of Texas School of Public Health (in the Medical Center), 6905 Bertner off Holcomb, across from Medical Center entrance #7. We meet on the main floor, first room on the left. Parking is adjacent to the building. These Saturday meetings begin at 2:00 p.m. Bring your Apple if you like!

Dues are \$18.00 per 12-month period for regular memberships, \$6.00 for students through high school and where no adult member of the family is an Apple user. Please make checks payable to "Houston Area Apple Users Group," and mail to Lee E. Gilbreth, Membership Chair, 3609 Glenmeadow, Rosenberg, TX 77471. This includes a subscription to APPLE BARREL, which is published nine times a year. Newsletter exchanges with similar clubs are invited.

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SPECIAL INTEREST GROUPS

Members who share a common interest are encouraged to form Special Interest Groups to more fully explore their fields. Meetings may be arranged by common consent of the group and will ordinarily have one member who serves to coordinate or convene the meetings. If you would like to start a group around any given interest, please contact one of the club officers. If you would like to be in touch with others who share one of the following interests with you, please phone the coordinator.

APPLE HOTLINE

668-8685

ABBS

654-0759

Membership Robin Cox 660-9814

5401 Chimney Rock #607

Houston, Tx. 77081

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Page 1

Verbatim

FOR THE APPLE COMPUTER

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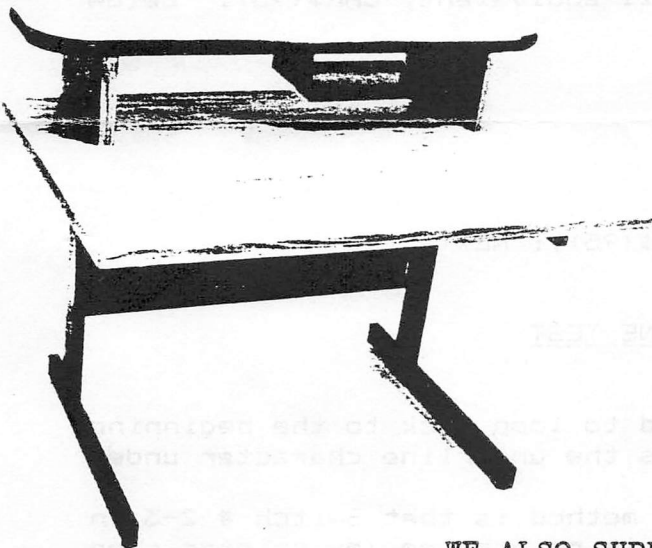
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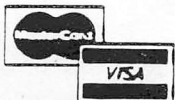
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UNDERLINING WITH THE MX-80

BY
CLARK JOHNSON

Not everyone is aware of the underlining capabilities of the Epson MX-80 printer. The MX-80 instruction manual does suggest one "artificial" method of underlining (by changing the vertical spacing between lines temporarily and then using the hyphen character), but I have found that method to be extremely confusing and cumbersome.

There are three fairly simple methods to cause the MX-80 to underline. The first two are true underlines. The third method is easier but does not give a true underline and may not be acceptable to you.

Method 1

This method essentially causes the printer head to finish the line being printed and then loop back (without a line feed) on the same line to print the underline characters where required. The Apple keyboard does not have a underline character, but it can be generated by using its ASCII equivalent, CHR\$(95). Below is a listing of this method.

```
10 HD$ = "METHOD 1 UNDERLINE TEST"  
20 PR#1  
30 HIAB 20: PRINT HD$;  
40 PRINT SPC(80 - LEN(HD$));  
50 FOR I = 1 TO LEN(HD$): PRINT CHR$(95);: NEXT
```

TRUN

METHOD 1 UNDERLINE TEST

Line 40 causes the printer head to loop back to the beginning of the heading. Line 50 prints the underline character under each character of the heading.

The only requirement for this method is that Switch # 2-3 in the MX-80 be turned off. This is no problem (my printer came that way). If this switch were on, the printer would automatically provide a line feed when the printer buffer filled.

The second listing below gives an example of how to underline a "double-width" heading. I have also included the "double-strike" and "emphasized" modes for a bolder heading.

```
10 HD$ = "BOLD HEADING"  
20 PR#1  
30 HIAB 18  
40 PRINT CHR$(14)CHR$(27)"E"CHR$(27)"G";HD$;  
50 PRINT CHR$(20)SPC(80 - 2*LEN(HD$));  
60 FOR I = 1 TO LEN(HD$): PRINT CHR$(14) CHR$(95);:NEXT  
70 PRINT:PRINT CHR$(27)"F"CHR$(27)"H"
```

TRUN

BOLD HEADING

The major difference for underlining double width characters is that corrections must be made for the double width when looping back for the underline. In the above listing, line 40 turns on "double width", "emphasized", and "double strike" before printing the heading. CHR\$(14) is the double width command, CHR\$(27) "E" is the emphasized command, and CHR\$(27)"G" is the double strike command. Line 50 returns the printer head back to the beginning of the heading. But first the double width command must be turned off by using the CHR\$(20) command in order to get the true count for spacing. You may recall that the double width mode normally turns off after each line, but the use of the semicolon (;) prevents that from happening. Line 60 turns the double width mode back on before printing the underline character. You will note that the underline character is also double width. Line 70 returns the printer to the normal density mode, with "F" and "H" eliminating the emphasized and double strike modes, respectively.

Method_2

This is not too significantly different from Method 1. The major change is in the method of suppressing a line feed. For a parallel printer the command CTRL-I "K" will suppress all future automatic line feeds. The same command will later toggle the line feed back on when required.

```
10 HD# = "METHOD 2 UNDERLINE TEST"
20 PR#1
30 PRINT CHR$(9) "K": REM CHR$(9) IS CTRL-I
40 HTAB 20: PRINT HD#
50 HTAB 20: FOR I = 1 TO LEN(HD#): PRINT CHR$(95);:NEXT
60 PRINT CHR$(9) "K"
```

IRUN

METHOD_2_UNDERLINE_TEST

The same procedure can be used for double width printing.

Method_3

This is not a true underline since it uses the hyphen character, resulting in underline characters positioned about halfway between the heading and the next line.

```
10 HD# = "METHOD 3 -- HYPHEN UNDERLINE"
20 PR#1
30 HTAB 27: PRINT HD#
40 HTAB 27: FOR I = 1 TO LEN(HD#): PRINT "--":NEXT
```

IRUN

METHOD 3 -- HYPHEN UNDERLINE

There is very little difference between Methods 1 and 2, and under most circumstances, I believe them to be superior to Method 3. Methods 1 and 2 can be used with text in the line directly below the heading, but Method 3 must have a blank line following it. All of the above methods could have had an additional program line to automatically center the heading (instead of using HIAB 'n'), but that would have confused the true intent of this article.

FOR SALE...PR40 - 40 column strip printer with card and software.
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NOTICE

UPCOMING HAAUG PRESENTATIONS

The program for the evening meeting on Thursday, December 10 will be a discussion of who can and who can't write off their Apple on their income tax. The guest speaker will be Rocky Venden, an IRS Appeals Officer, and a new Apple owner. This is a rare opportunity to talk to the IRS under friendly circumstances, so be sure to come armed with lots of questions.

APPLE GARAGE SALE AND FLEA MARKET

Gather up all your surplus hardware, software, or whatever and bring it to the Saturday meeting on January 30. You may be able to afford that new printer or modem if you can find someone to take your old DOS 3.1 or Model 33 Teletype off your hands.

TWENTY-FIVE PER CENT OFF RETAIL PRICES!! How would you like some of the most popular software on the market at discount prices?!

We can get a 25% discount with group orders from the members of H.A.A.U.G. The companies available to us at this time are Broderbund, Muse, and On-Line. The list could grow if you like the idea and we get enough orders.

On-Line is known for Hi-Res Adventure games (Cranston Manor, Ulysses), Hi-Res Football and excellent utility programs. Imagine getting Super-scribe II for only \$97.46 (retail: \$129.95). Muse has popular programs like Robot War, Castle Wolfenstein, ABM, and Snoggle (Pack Man) comes from Broderbund.

I will have a complete list available at the Saturday meeting. Make checks payable to H.A.A.U.G. and give me your orders at the meeting on Saturday, or mail your request with check to my home address: Craig Goodman 9310 Hendon, Houston, TX 77036.

I will place all orders by the tenth of the month following the Saturday meeting. You may pick up your software at the next meeting or call me for a pick up.

HAAUG MEMBERSHIP SURVEY

First Name	Init.	Last Name	Home Phone	
------------	-------	-----------	------------	--

Street Address	Apt.#	City	State	Zip
----------------	-------	------	-------	-----

Occupation	Company	Work Phone	
------------	---------	------------	--

Business Address	City	State	Zip
------------------	------	-------	-----

Prefer Mail To: Home / / Work / /

Ages of children using your Apple? -----

Childrens' areas of interest? -----

SPECIAL INTERESTS (Check all that apply)

Science/Engineering	---	Games/Puzzles	---
Business Applications	---	Data Base Systems	---
CP/M	---	Modems/Communications	---
Education	---	Hardware	---
Assembly Language	---	BASIC	---
Pascal	---	Forth	---
FORTRAN	---	Graphics	---
Music	---	Stock Market	---
Real Time Applications	---	Other	-----

CLUB PARTICIPATION AREAS (Check where you want to help)

Write articles for Apple Barrel	---	Maintain hardcopy library	---
Help prepare Apple Bbl for mail	---	Write programs for library	---
Evaluate programs for library	---	Maintain program library	---
Help run program copy session	---	Bring Apple to copy session	---
Coordinate hardware projects	---	Coordinate group purchases	---
Present lectures or tutorials	---	Arrange vendor presentations	---
Assist in new member orientation	---	Assemble and label starter kits	---
Copy starter kit disks/tapes	---	Xerox starter kit material	---
Hold office in club	---	Other	-----

Please take a few minutes to fill out this questionnaire. Your responses will aid us in meeting planning. The form is complete with an address on the reverse side so simply remove, fold, affix a stamp and mail this page.

MIKE KRAMER
2218 RUNNING SPRINGS
KINGWOOD, TX 77339

During the November 12th HAAUG meeting the following individuals were submitted by the nominating committee to fill vacancies on the executive board:

President	Vice President	Secretary	Treasurer
Mike Kramer	Robin Cox Brian Whaley	Ruth Dill	Glen Blaha Walley E. Miston A. D. Smith

There were no nominations made from the floor. A motion was made to close the nominations and was seconded.

Voting will be on December 10th. New officers will begin their term immediately following election.

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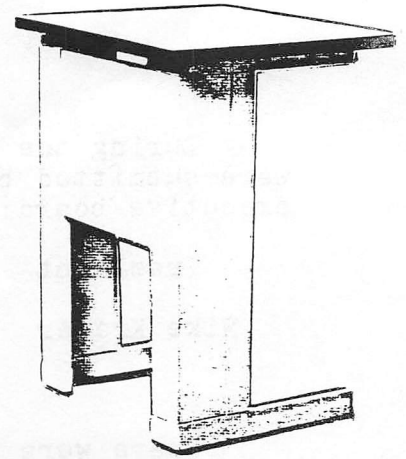
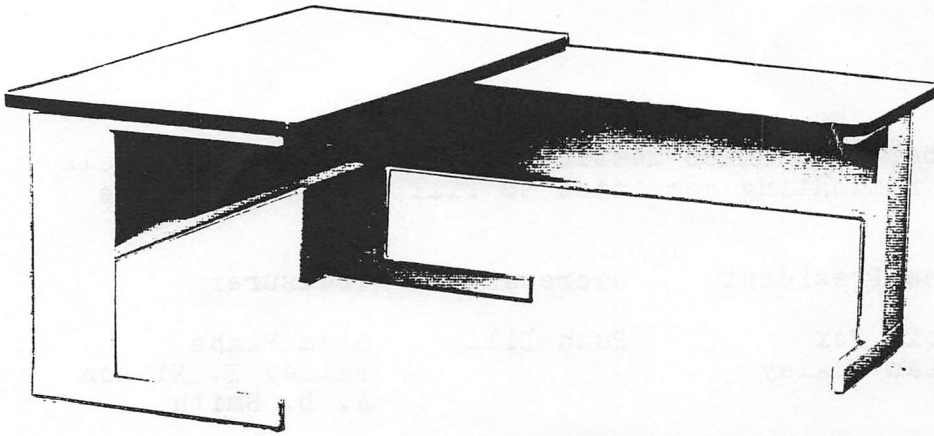
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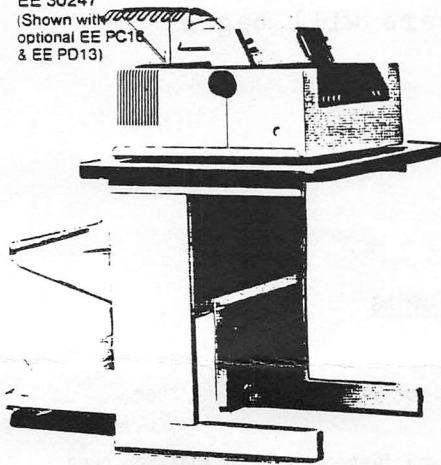
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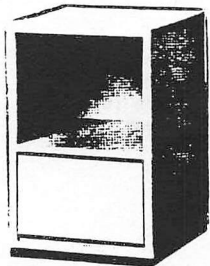


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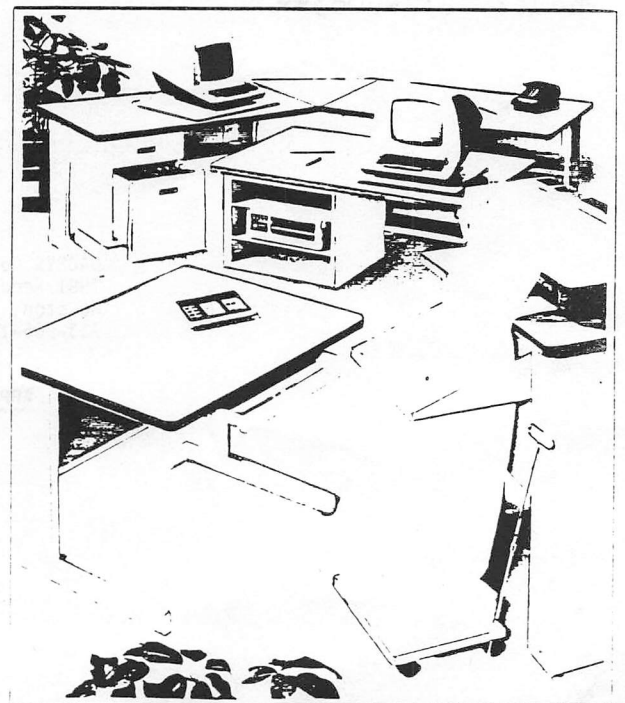
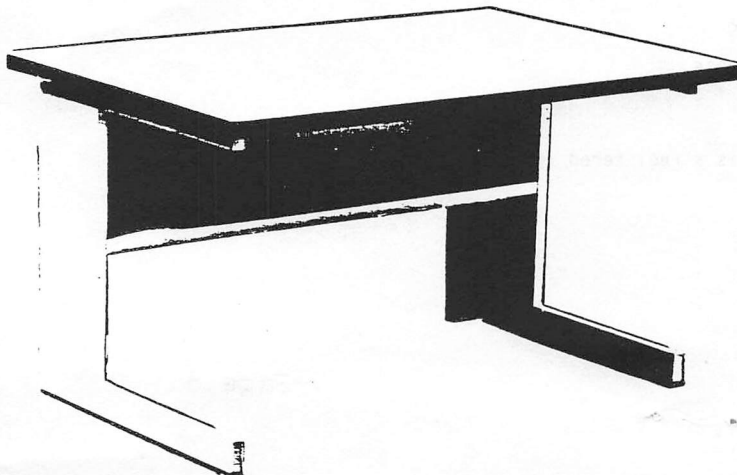
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The Diskette Craze

Several times over the past few months I've heard of people recording on both side of their diskettes. One source of software even ships their programs recorded this way. This is a very risky practice. Here's why:

- Single sided media is only certified on the normal recording side of the diskette.
- The uncertified side can have 'soft spots' that may not generate enough output to be read by the read head. Some drives will work OK, some won't.
- Diskettes spin in one direction. Dirt is collected on one side by the liner in the diskette jacket.
- When you turn the diskette over, it spins in the opposite direction. The dirt comes loose and passes under the head. Increased head and media wear is the result.
- A felt pad is used to load the head, under light pressure, against the diskette. In normal use, the pad collects dirt and bits of magnetic material.
- Pressed against the normally unrecorded side, the head load pad poses no problem. The resulting abrasion is on the unused side. You can guess what is going to happen to your programs when this abrasive pad is allowed to rub on both sides of your diskettes.

Note that two sided drives use read/write heads loaded against each other. The diskette always spins in one direction. And, the media is certified on both sides. The diskettes that "fall out" or are marginal are used for single side applications.

Also, in order to use the media on both sides, a notch must be cut in the diskette jacket. If even the smallest plastic chip gets loose and wedges inside, the magnetic surface will be scraped bare. If you're lucky this will occur outside the recording area on

the diskette (if you're lucky). Assuming you can cut the second notch without making chips, some of your easily replaced programs might be saved on both sides of a diskette. If you belong to a club with a large library or can easily get another copy of a non-critical program, there is little risk. If a particular program generates a unique data base, then don't take the risk. Any special programs you write or use should only be saved on the normal recording side of unmodified diskettes.

One more point: If you insist on using both sides of a diskette, have them checked. If you have access to the new language system, Pascal, use the BAD BLOCKS function to check diskette surfaces. The higher writing density of the Pascal DOS increases the chance of finding any bad spots, too. Doing some certifying on your own will significantly improve your odds against lost data.

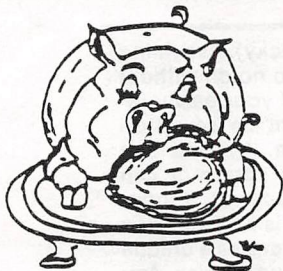
These comments are the result of personal experiences with dozens of disk drives and hundreds of diskettes. A recent assignment of mine included subsystem responsibility for drives and media. Also, I made a specific point of discussing the problem with Shugart Field Engineers. Their comments concurred exactly with mine.

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