

# Radio Shaek Dealer/Franchise UPDATE

RSCC/PLUSCO UPDATE 1985-40
## Internal Distribution Only ##
Lists A: 8: E: G: H: J: K1: M: U
31 October 1985 Page 1

<u>GENERA</u>	AL INTEREST
	Microsoft BASIC - Rounding Error
MODELS	<u> 4/III</u>
	Model 4 SuperSCRIPSIT - Error in "DO LESSON"
TANDY	6000/MODELS 16/12/II
	SCRIPSIT 16 - Training Package
<u>TANDY</u>	2000/1200 HD/1000
	Lattice C - Standard Input/Output
<u>PERIPH</u>	<u>PERALS</u>
	CM-2 & CM-4 Color Monitors - Tri-Dot Inline Pitch4

RSCC/PLUSCC UPDATE 1985-4C \*\* Internal Distribution Only \*\* LISTS A: B: E: G: H: J: K1: M: U 31 October 1985 Fage 2

#### PRODUCT NEWS

The following information is provided by Technical Support, Computer Customer Service, and Computer Merchandising.

#### RETURNING DEFECTIVE SOFTWARE

If you receive a defective software package (a 25 or 26 \*, not EOS), the procedure to follow is to return only that portion of the package that is defective to:

Tandy Software Exchange Customer Service 205 N.W. 7th St. Ft. Worth. TX. 76106

Include a speed memo showing your store number and current address, and a summary of what s wrong with what is being sent back.

If you have any questions about this procedure, call Tandy Software Assembly at (817 336-1330 and ask for Customer Service.

#### <u> SUPERSCRIPSIT PRINTER DRIVERS (700-2294) - AVAILABLE FROM TEW</u>

The new printer drivers for Model III and Model 4 SuperSCRIPSIT are now available. ONE copy of the printer drivers package will be drop shipped to each 01Y, 11, 18, and 3 store. Stores must KEEP THIS COPY because it will NOT be restocked in the warehouse. The appropriate driver should be copied to a diskette for the customer (the Customer should provide this diskette or should buy one there). Please be aware that you must be careful to be in the correct mode (Model III or 4) when copying the driver.

Testing of the Printer Drivers by SQC revealed one problem: when using the Model III drivers for the DMP-200, DMP-400, DMP-420, and DMP-500, and using User Print Codes to go into and out of Condensed print, any pages printed after that would not be boldfaced in the places selected. The solution is for the user to select Correspondence Quality characters when coming out of Condensed print, rather than Standard characters. This allows later text to be boldfaced correctly.

#### <u> SCRIPSIT 16 (26-6431) - TRAINING PACKAGE (700-3021)</u>

The long-awaited SCRIPSIT 16 Training Manual and Tapes are now available from TEW. Letters have been sent to all SCRIPSIT 16 owners who mailed in the training materials card notifying them to contact their local Computer Center and make arrangements for the training package to be ordered for them. There is no charge for the package.

Please be aware that customers will need to be using the 01.01.00 version of SCRIPSIT 16 in order to use the training materials. Version 01.01.00 (700-3019) is available from TEW at no additional charge to the customer.

#### TANDY 2000 FRAMEWORK (26-5320) - WITH HP-7470 & HP-7475

A problem exists in plotting output from Framework with the HP-7470 and HP-7475 plotters. Device errors requesting retries are displayed as output is plotted. The number of retries requested is decreased to only one when the baud rate of plotted output is slowed to 1200 baud.

To change the baud rate of plotted output use the following procedure:

- 1. Be sure an MS-DOS diskette is in the default drive or that the user is positioned in the directory of the hard disk containing MS-DOS.
- 2. At the system prompt, type:

#### MODE COM 1200 N 7 1 <ENTER>

- 3. Set the Dip Switches on the HP-7470 or HP-7475 for 1200 baud according to the instructions in the HP plotter owner's manual and turn on the plotter.
- 4. Execute Framework and plot according to the software documentation.

The @ BEEP function example in the manual shows a comma in the \$50,000 example. To make this function work, you must either take out the comma or enclose the figure in parentheses.



As indicated by the name, "Grapevine", this section allows Customer Service Representatives to share information with each other. It is here you can communicate your latest findings and "bits of wisdom" to all CSR's. If you wish to contribute to the CSR Grapevine use the Submission Form attached to the last Update of each month. Please be sure to include your Name and Store Number.

NQTE: We attempt to separate fact from fiction but not being omniscient we may occasionally goof. If so, let us know about it. We'll gladly correct ourselves.

WARNING: The information contained in the CSR Grapevine is made available on an "as is" basis for the use of store personnel only. Much of the information will not be supported by Computer Customer Service and in no way shall Tandy Corporation be responsible for any problems caused by the use of this information.

All articles which do not include a by-line came from Computer Customer Service.

#### MICROSOFT BASIC - ROUNDING ERROR

Because of the "excess 128" method of calculation which Microsoft BASIC uses, some calculations result in a rounding error (i.c. 8.52 becomes 8.520001). You can use string functions to work around this if you need to use the exact value in a calculation. For example on the Tandy 1000 run the following program:

- 1Ø A=8.52
- 20 PRINT A : REM YIELDS 8.520001
- 3Ø A\$ = STR\$(A)
- 40 FOR I = 1 TO LEN(A\$)
- 50 IF MID\$(A\$,I,L) ="." THEN J=I+2
- 60 NEXT I
- 70 X\$ = LEFT\$(A\$,J)
- 8Ø PRINT VAL (X\$) : REM YIELD 8.52
- 9Ø END

(\$ NINR. 01-7079)

#### CM-2 & CM-4 COLOR MONITORS (26-3212 & 25-1021) - TRI-DOT INLINE PITCH

The tri-dot inline pitch for the CM-2 Monitor is .42mm. The dot pitch on the CM-4 (25-1021) is .63mm (the same as the IBM PC JR. Monitor).

M BARNER, 01-78791



#### MODEL D (25-1070) - FORMAT AND BACKUPS

It is important to note the differences in FORMATting 4D system diskettes (06.02.01) and 4D DeskMate (26-1608, 01.00.00) diskettes. The Operating System provided with the 4D is on a single-sided diskette, hence the FORMAT instructions are as follows:

FORMAT :1 (Q=N) <ENTER>

However, the DeskMate provided with the 4D is double-sided and must be formatted as follows:

FORMAT :1 (Q=N, sides=2) <ENTER>

Backups are similar to the Model 4. For system diskettes, type:

BACKUP : Ø : 1 < ENTER>

For the DeskMate program, type:

BACKUP :0 :1 (X) <ENTER>

(D. WINER, 01-7879)

#### MODEL + SUPERSCRIPSIT (26-1595, 01.01.00) - ERROR IN "DO LESSON"

An addendum (Part #875-9449) included with SuperSCRIPSIT explains how to increase available disk space on your program diskette. It instructs you to enter:

#### DO LESSON

to run the JCL program which erases all unneeded printer drivers and other files. If you attempt this with version 01.01.00 you will be echoed ERROR 07H. This error occurs because the file \$Y\$11/\$Y\$ (which executes a DO file contained in \$Y\$6/\$Y\$) is not present.

The remedy - SYS11/SYS is present on TRSDOS 06.02.00, therefore place the TRSDOS disk in Drive 0 and SuperSCRIPSIT in Drive 1 and enter:

#### DO LESSON

It will work correctly and you will have greater free disk space on your Super SCRIPSIT disk for the lessons.

(ALLAN LIGHT, ATSO #43-0781)

#### XENIX .X - TAR COMMAND

Many times while extracting files from a floppy, the message "file permissions have changed" comes across the screen. This can be prevented by doing a "umask 000" before the tar. Umask 000 sets the default mode for the user to 666.



#### 3.0 XENIX ACCOUNTING - LOCAL PRINTING FROM A DT-1 (26-6050)

The addendums to the 3.0 Xenix accounting upgrades all state clearly that your DT-1 must have version 1.1 or greater ROM installed. To check the ROM on your DT-1 type the following sequence from login.

- 1. <CNTL> <SHIFT> <ENTER>
- . <CTRL> <SHIFT> <ENTER>
- 3. <CAPS> <SHIFT> <ESC> <V>

Your ROM version will be displayed on the bottom of the screen. To return to login type:

<CTRL> <SHIFT> <ENTER>

(J. SPOTTS, 01-7879)

#### XENIX - TAR DISK DIRECTORY

A directory of a tar disk can be listed with the "t" option of tar. This file listing can be sent to a file or to the printer if desired. Use:

tar tvfn /dev/rfdØ > /listing -to put it in a file tar tvfn /dev/rfdØ : lpr -to print it out

Notice the "n" option. This makes it run faster. "N" will also speed up an extract (use xvfn). The option allows tar to skip over the data in files and read only the directory entry. Without the "n", a "tvf" can be used to verify a tar disk by reading the whole thing.

: N BRUMLIK, 01-7879)

#### XENIX - PRINTING MANUAL PAGE DISK FILES

If you have ever tried to print any of the manual page disk files on paper, you know that the reverse-video control codes drive printers crazy! Here's a method of getting hardcopy that works.

Xenix 01.03.05 and older:

'cd' to the directory that contains the file you want to print (/usr/man/...) and type:

nroff -man filename | sed 's/\_.//g' | lpr

Xenix 3.0 and newer:

'cd' to the directory that contains the file you want to print (/usr/lib/help/lib/...) and type:

cat filename | sed 's/\_.//g! | lpr

#### RSCC/PLUSCC UPDATE 1985-40 \*\* Internal Distribution Only \*\* Lists A. B. E. G. H. J. K1. M. U. 31 October 1985 Page 7



#### XENIX LOST AND FOUND" DIRECTORY

The directory "/lost+found" is used by Xenix to reconnect lost files after an improper system shutdown. There's one catch! The /lost+found must contain "empty slots" first. These empty slots can be made by creating files and then deleting them. The easy way would be to login as root, cd to /lost+found, and type:

>1

>2

>3

To make files named "1", "2", and so on. Create a dozen or so files and then remove them with "rm \*". You now have slots. You should also do a "chmod 777 /lost+found"

NOTE: Every mounted device needs its own lost+found directory!!! For example, if a second hard disk is mounted on /hd1, create a /hd1/lost+found and make empty slots there, too

(M BRUNLIK, 01-7879)

#### XENIX 3.0 (700-3030) - WITH COBOL DEVELOPMENT SYSTEM (26-6455)

When You call a shell from COBOL on Xenix 3.0, you must reset the stty parameters. The shell as given to you by COBOL has no echo (as well as several other peculiarities).

To get a "normal" shell, you need to do the following sttys:

stty eof=^d icanon echo echoe echok icrnl onlcr onlret tab3

When you return to COBOL you should reset COBOL's modes:

stty eof=~a -icanon -echo -echoe -echok -icrnl -onlcr onlret

(C. FOX, 01-7879)

#### <u> TANDY 1000 (25-1000) - LOCK FUNCTIONS</u>

To engage the <Numeric Lock> function from BASIC, type: DEF SEG-&H40

POKE &H17,32

DEF SEG-Ø To disable it back to normal, type:

POKE &H17.Ø

DEF SEG=Ø To engage the <Caps Lock> function, type:

POKE &H17.64

And poke a 0 to disable it.

This will not turn on the key lights!

(R. BURROUGHS, 0:-7879)



### <u>TANDY 1000 (25-1000) - VIDEO RAM</u>

To poke characters to the screen in BASIC, type:

DEF SEG=15360 POKE 2.X

(X is the ASCII value of the character)

POKE 2 65 will put an 'A' in the upper left portion of the screen.

The start of video RAM changes with the amount of memory in the machine. (The end of video RAM is 19200 for a 256K Tandy 1000.) Refer to the Programmer's Reference Manual (25-1503) page 229.

Every other byte of the video RAM addresses is the character attribute byte. In other words, byte 2 is for the ASCII value of the character and byte 3 is for that characters attribute (color). To change the color of the 'A' to red, type:

POKE 3,4

To move the letter 'A' across your entire screen, type:

10 DEF SEG-15360

20 POKE 1.65

30 I=I+2

4Ø GOTO 2Ø

This address applies to 16K video modes. Sec Programmer's Reference Manual for 32K video modes on page 229.

(R. BURROUGHS, 01-7879)

#### DESKMATE (25-1000) - AVAILABLE RAN MEMORY LIMIT

DeskMate is dependent on the available RAM memory for loading of programs and data. However, only the first 256K of RAM is considered, nothing more.

After programs and DOS have been loaded into RAM, the user has approximately 60K left for text (as an example). It doesn't matter how much RAM above the 256K a user may have, nor how much disk storage space is available.

(D. WINER, 01-7879)

#### <u> DESKMA: E (25-1000) - AUTO DIALING WITH 300 BAUD MODEM BOARD (25-1003)</u>

If you are having trouble auto dialing with DeskMate and the 300 baud modem board, try setting the computer dial - send:x to send:pppx. This will allow the Tandy 1000 to wait for the phone to ring before sending a carrier.

(JOE SCHAFFNER, STORE #G097)



#### TANDY 1000 MICRO ILLUSTRATOR (25-1120) - ACCESSING PICTURES FROM BASIC

Micro Illustrator pictures can be used within BASIC programs on the Tandy 1000 computer system. Your high resolution graphics screens can be called to create a text/tutor slide show, casily create backgrounds for animation, and many other possibilities. Some knowledge of BASIC programming is required. Because of the memory limitations of BASIC and graphics on the Tandy 1000, you must have at least 256K of memory to perform this procedure.

#### PREPARING THE PICTURE FOR BASIC:

In order for BASIC to "read" a Micro Illustrator file, the picture file must be saved in a binary format; that is, one that contains an exact bit-image copy of what appears on the video screen. Micro Illustrator's standard save format is not a binary format but a special compressed format that allows Micro Illustrator to save screens in a minimum amount of disk space. As you notice when you save a Micro Illustrator file to disk, it takes several seconds to analyze the picture and compress it into a special format. This is time-consuming if you often make changes and want to record the picture as you go. This is why the program has a special "quick save" function which allows you to save a picture in a matter of a few seconds. This quick save function saves the picture in the binary format required by BASIC

To quick save a picture, press the <SPACE BAR> on the keyboard while the picture is on the screen. The computer immediately saves this to disk in a special file called Once you have quick saved your picture, you will need to exit to DOS. Now, if you are going to be using several pictures to merge with BASIC, you will have to rename the PICTURE because Micro Illustrator quick save will always use this name. You will be limited in the number of pictures BASIC can manipulate because each screen will occupy 32,769 bytes of disk space (32K).

#### LOADING PICTURE INTO BASIC:

Loading the picture onto the screen in BASIC is very easy. The computer must have 32K of graphics workspace to load the picture. After clearing this much memory you must select the proper screen resolution mode to display your Micro Illustrator picture. (Micro Illustrator uses the Medium Resolution, 16 color graphics set or the Tandy 1000 screen mode 5.) The final step is to load the picture onto the screen with the BLOAD command. The Micro Illustrator program will immediately be displayed.

SAMPLE PROGRAM:	
Program Lines	Comments
10 CLEAR ,,,32766	Sets aside 32K of graphics memory. The three (3) commas are important.
20 KEY OFF	Turns off the key labels at the bottom of the screen.
3Ø SCREEN 5	Sclects Medium Resolution, 16 color graphics screen.
40 BLOAD "PICTURE. "	Notice the "." followed by three (3) spaces. An extension is required by the BLOAD command. You will get a SYNTAX ERROR or BAD FILE MODE error if you leave it out.
5Ø AS=INKEYS	Program will wait until any key is pressed to continue.
60 IF A\$=""THEN 50	Program will not continue until a key is pressed.
70 CLS: SCREEN Ø: END	Screen clears, program returns to 80-column text mode,

then ends.



### TANDY 1200 HD (25-3000) - SCREEN DUMPS

To get a graphics screen dump to a DMP printer, take the GRAPHICS.EXE file off a Tandy 1000 MS-DOS 02.11.22 disk and use it on the Tandy 1200 HD.

At the DOS level type in GRAPHICS and a menu will come up. Select DMP for high resolution. Then when your picture is ready to be printed, hit the <SHIFT> and <PrtSc> keys at the same time.

At this time, this is not officially supported on the Tandy 1200 HD. It was tested on the DMP-430.

(R BURROUGHS. 01-7879)

#### TANDY 2000 - START OF VIDEO MEMORY

To find the start of video memory in the Tandy 2000, use this short BASIC program.

16 DEF SEG-6 26 PRINT HEXS(PEEK(&H475))+HEXS(PEEK(&H474))

RUN

The value will be returned in HEX.

(R BURROUGHS, 01-7879)

#### LATTICE C (26-5254) - STANDARD INPUT/OUTPUT

If you are using GETCHAR and PUTCHAR in your C programs, you must have an include statement that reads:

#!NCLUDE <stdio.h>

This allows standard input and output to occur.

(R. BURROUGHS, 61-7879)