

**TANDY**  
ELECTRONICSThe biggest name  
in little computers

# MICROCOMPUTER NEWSLETTER

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Prices may vary at individual Stores and Dealers

## NEW PRODUCTS

### The TRS-80 Pocket Computer

Tandy puts big computing power in the palm of your hand with the amazing new TRS-80 Pocket Computer, the first complete, portable computing system that you can program in BASIC. The Pocket Computer can solve problems, process data, assist with decision making, teach and even entertain — at a low price that seems all the more incredible once you have explored its exciting features.

The real power of the Pocket Computer comes from its ability to run programs, either yours or ours, in the BASIC language. The BASIC used is very similar to TRS-80 Level I BASIC, with the addition of 15 arithmetic functions.

You can program the Pocket Computer to do almost any job the TRS-80 Computer can do, except those requiring graphics capability.

Programs can be saved onto cassette using the optional cassette interface or left in memory for as long as required.

#### Specifications:

Microprocessors: Two 4-bit CMOS (one for arithmetic and one for BASIC interpreter and keyboard).  
Keyboard: 57 key alphanumeric  
Display: 24-character 7x5 dot-matrix plus 8 symbols. Automatic scrolling and manual playback of lines longer than 24 characters. 80 character input buffer.

Memory: ROM 11K bytes (7K for BASIC, 4K for monitor). RAM 1.9K bytes CMOS

Subroutines and FOR-NEXT loops: 4 Levels each, up to 15 level of parentheses.

Power Supply: Four type 675 mercury batteries. Nominal battery life 300 hours.

**Pocket Computer 269-3501 .. 249.00**  
**Cassette Interface 269-3503 ... 49.00**

### Software

The following software is now in stock and is available through any Tandy store. If they do not have it in stock then they will be glad to order it for you.

#### Model I

### Education

#### K-8 Maths — Volume 1

This is a self-paced drill and practice program on number concepts, addition, subtraction, multiplication and division for primary school children. Program features student placement, skill building, and test modes of operation. Automatically advances students as they master each lesson. Includes detailed reporting function and a comprehensive teacher manual. It is supplied on both cassette and diskette and is designed for classroom use. Requires 16K Level II.

**K-8 Maths. 269-1715 ..... 249.95**

#### Part I — Introduction to BASIC

A complete classroom teaching package that introduces secondary student to the TRS-80 and BASIC language. All programming exercises are designed to be entered and run by students with hands-on access to the TRS-80. It includes teacher's manuals, 143 transparencies, and 25 student workbooks.

#### Part 1 Intro. to BASIC

**269-2150 ..... 199.00**

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### Computer Support

If you have any queries regarding the TRS-80 then address them to:

Computer Support,  
Tandy Electronics,  
P.O. Box 229,  
Rydalmere, NSW. 2116

If you wish to telephone, the number is (02) 638-6633.

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### Show and Spell

This program is designed to teach in the recognition and spelling of:

Alphabet  
Beginning Sounds  
Ending Sounds  
Vowels and Blends  
Three Letter Words  
Word Patterns  
Action Words  
Position Words  
Compound Words  
Numbers and Days of the Week

Also included is a Utility program which allows you to create your own materials for use with Show and Spell. This program is to assist your children (pre-school through 2nd grade) in developing fundamental spelling skills. Requires 4K Level II.

**Show and Spell. 269-1712 ..... 59.95**

### Printer Information.

We have long suggested using CHR\$(138) to generate a linefeed on our lineprinters. We recently discovered that CHR\$(138) doesn't really do what we thought. Yes it does produce a linefeed, and it does prevent the printhead from 'banging' on our earlier printers. But ... DO NOT use CHR\$(138) with the Daisy Wheel printer (269-1158). It will not always work! CHR\$(138) will not work with any new printers that we introduce from now on. Our printers are getting 'smarter' and can't be fooled as easily as before.

In Model I you can send a code 10 (linefeed without a carriage return) from BASIC by poking the code directly to the printer address. i.e. POKE 14312,10

In Model II you must use Supervisor Clals (SVC) to perform this function. SVC 18 is the code to send a single character to the printer.



## Model II Languages

### Games

#### Dancing Demon

You are the theatrical agent for the amazing Dancing Demon. He depends on you to write his music, and choreograph the dance to fit. Two dance routines and sample songs are supplied, just to give you an idea of how talented this fellow is!

By using a small amplifier (such as Tandy Cat. No. 277-1008) you can listen to the music while the demon dances.

Requires 16K Level II

**Dancing Demon. 269-1911 .... 14.95**

#### Pyramid

You are standing before the Great Lost Pyramid, which you must explore. The object is to get as many treasures as possible and score as many points as you can. Be careful! The Pyramid is large and the Curse of the Tomb is still effective!

Requires 16K Level I

**Pyramid. 269-1909 ..... 24.95**

#### Haunted House

You must explore and find your way through the Haunted House! There are no treasures to find or points to score. The only object is to get out of the house ALIVE!

Requires 4K Level I.

**Haunted House. 269-1910 .... 14.95**

#### Astrology

If you are interested in casting your own horoscope, then this program will relieve you of the time consuming calculations that are involved in determining the positions of the sun, moon, and planets at the hour of your birth. You can then devote your time to the interpretation and meaning of those results.

Requires 16K Level I.

**Astrology. 269-1605 ..... 59.95**

### Editor/Assembler

The Editor/Assembler Package provides you with an Editor, Assembler, Cross Reference facility, Linking Loader, FORTRAN Library and ASCII Print Utility. The macro-assembler can provide you with fully relocatable machine code to give maximum flexibility during the life of your program. Features Macro and Conditional assembly, Z80 or 8080 mnemonics. Constants can be specified in hex, octal, binary or decimal. The assembler produces relocatable object code which is stored on disk to be recalled later by the linking loader, loaded into memory and executed. The text editor is a line and character oriented editor which provides the same editing facilities as Model II BASIC as well as global search and replace functions.

Requires 64K single disk Model II.

**Editor/Assembler. 269-4702 .. 249.95**

### COBOL

Model II COBOL is designed primarily for business applications. It gives you access to a high-level implementation of the ANSI-74 COBOL Standard for minicomputers. Features include a single pass compiler which generates an object code that can be executed by the run-time package; multi-keyed ISAM; full level-2 I/O Commands; interactive DEBUG with address stop, single step and variable display; and CRT control with extended ACCEPT/DISPLAY commands for attractive screen formatting. The program is supplied on a single diskette with the COBOL Users Manual, Language Manual, Run-Time and Print packages.

Requires 64K single disk Model II.

**COBOL. 269-4703 ..... 349.95**

### FORTRAN

The FORTRAN package is based on the ANSI-66 language and features complete error documentation in the compiler, and hex and octal addresses for compiler listings. The package consists of four modules consisting of Editor, Compiler, Linking Loader and the FORTRAN library. The FORTRAN package is supplied on a single diskette with a binder containing: FORTRAN Users Manual, FORTRAN-80 Reference Manual, LINK-80 Reference Manual, and the EDIT-80 Users Manual, Plus a sample program.

Requires 64K single disk Model II.

**FORTRAN. 269-4701 ..... 249.95**

### Business

#### Accounts Payable

One of the most important tasks in any business is the monitoring of cash flow into payable accounts. The Tandy Accounts Payable System will help you decide when to write your cheques for maximum discount and how these cheques affect your cash position. It will also produce aging reports, print cheques and cash requirements as well as totals for posting to your company's General Ledger. It is compatible with either Cash or Accrual accounting methods. Other reports available include G/L Codes, Vendor Listings, Invoice Listing, Posting Report, Cash Requirements, Aging Status, Cheque Preview, Cheque Register, Discount Lost Report, End of Period and Year End Reports.

If you are using Tandy's General Ledger program (269-4501) and you have one or more expansion drives then APS can post directly to your General Ledger.

Capabilities of the APS are:

Up to 500 Vendor Accounts

Up to 3000 Invoices on file

Requires 64K single disk Model II.

**APS. 269-4505 ..... 349.95**

#### Versafile

Versafile is a database program that answers questions. It is an easy to use, sentence oriented data storage program. You enter information in simple sentence form. The computer store data in one of seven disk files based on a KEY WORD. To retrieve information you simply ask a question and the computer will search the appropriate KEY WORD file for a match.

You can use the key words provided or change them to suit your requirements.

Requires 64K single disk Model II.

**Versafile. 269-4510 ..... 99.95**



# Software Updates and Addendum

Here is a list of corrections to some Model I and Model II software. These can be incorporated using the EDIT function. Don't forget to SAVE a copy of the modified program (or CSAVE if you are using tape).

## Real Estate III (269-1573)

The VARIABLE INCOME ANALYSIS program has a line missing in the current production tapes. There should be a line 6060 which will distinguish between beginning of a period and end of period payments.

If you are using this program, then add the following line, and then CSAVE a copy of the new program:

```
6060 ON J GOTO 6070,6080
```

## Versafile (269-1604)

The manual does not give the correct method of exiting the program. The program keeps all files closed unless it is accessing them. This means that any time the prompt is showing you can exit the program either by pressing RESET or just by removing the diskette.

## Model I Inventory Control (269-1553)

1) Some users have reported a problem in ICS where a listing of inventory by prefix is printed. The listing is sometimes different from a complete listing of the inventory. In most cases the total cost and retail cost values are incorrect on the complete inventory listing. This can be caused by improper termination of the program or system 'crashes' which leave files open. The following lines need to be changed or added.

```
1730 GI = 0: GC# = 0: GP# = 0: GR# = 0:
  LPRINT " ": LPRINT "TOTAL ITEMS
  LISTED: "; TAB(25)TI
1790 GOSUB 2540: GOSUB 2600: GOSUB 2610:
  GOSUB 4000: RETURN
```

Add these lines:

```
1725 IF GI <> TI AND GC# <> TC# AND
  GP# <> TP# AND GR# <> TR# THEN
  GOSUB 4050
4000 GC# = GC# + IQ% * IC: GP# = GP# + IQ% *
  IP: GR# = GR# + IQ% * IC:
  GI = GI + 1: RETURN
4050 TI = GI: TC# = GC#: TP# = GP#:
  TR# = GR#: RETURN
```

If the totals are shown incorrectly when option (9) "DISPLAY SYSTEM STATUS" is chosen, then print a complete listing and everything will

be reset to its correct value for both options.

- 2) If A) Reorder Pt/Qty and Max Order Qty are close together.  
B) Units are being sold  
C) While the item is on order, QTY on-hand reaches 0.

Then the program will never give Out Reorder Stock indication even if the item is under Reorder Point. To fix this make the following change.

Change line 3450

```
3450 GOSUB 1790: IF LEFT$(IV$,LEN(IX$))
  <> IX$ OR IQ% > IR% OR
  IR% < (10% - 1Q%) THEN RETURN ELSE
  GOSUB 1780: GOSUB 3800: RETURN
```

NOTE: Be certain that you are using DOS 2.3 and version 1.1 of ICS.

## General Ledger (269-1552)

If you are using this program and are having problems with transaction entry, check the following:

1. There should be NO foreign files on the program diskette. If there are, then allocation problems will arise.

2. BASICR must not be on the program disk, for the above reason.

A new version of GL will allow dynamic allocation of GLJOUR file which contains the transactions, the following change will allow the user to add routines to the program disk (i.e. LP III routine)

Program: GLTXPOST

Change line 301 to read:

```
301 PUT 2,ME:ME = ME + 5: GOTO 302
```

Change line 304 to read:

```
304 IF ERR <> 122 THEN RESUME ELSE ME =
  (ME*6)-6: RESUME 305
```

## Manufacturing Inventory Control 269-1559)

- 1) In Ver. 1.0, if more than 63 raw materials are in the finished good, the Bill of Material and Pull Sheets will not print to conclusion. To fix this make the following changes.

Program: REPORT1

Change line 1180

```
1180 RC = 1: FOR X = 1 TO RM/63 + 1: GET4,RC:
  RC = RC + 1: IF RM < X*63 THEN
  ZT = RM - (X-1)*63 ELSE ZT = 63
```

Change line 2170

```
2170 RM% = CVI (FG$(X,3)): FOR Y = 1 TO
  RM/63 + 1: GET4,RC: RC = RC + 1: IF
  RM < Y*63 THEN ZT = RM - (Y-1)*63
  ELSE ZT = 63
```

Add the following lines 1182, 2172

```
1182 IF ZT = 0 THEN FOR Y = 0 TO 0:
  GOTO 1220
2172 IF ZT = 0 THEN 2190
```

- 2) In some cases, the system may reboot while doing an inactive raw materials list. Make the following change.

Program: REPORT2

Change line 4110

```
4110 FOR Z = 1 TO NF: GOSUB 11010:
  HL = USRO .....(etc).
```



## Advanced Statistical Analysis (269-1705)

In the Descriptive Analysis program if you are using large numbers then inaccurate results can occur in the Standard Deviation Section. Make the following changes.

Program : Descriptive Statistics

Delete lines 810, 830

Change lines 450, 460, 750

```
450 S8 = S8 + (X(J) - AV) ↑ 2: S3 = S3 + (X(J) - AV) ↑ 3: S4 = S4 + (X(J) - AV) ↑ 4
```

```
460 S8 = S8 + (X-AV)↑2: S3 = S3 + (X-AV)↑3: S4 = S4 + (X - AV) ↑ 4
```

```
750 ON IP GOTO 800,857
```

Add lines 857, 858

```
857 SD = 0: V = S8/(N-1): IF V <= 0 THEN V = 0 ELSE SD = SQR(V)
858 SG = 0: VV = S8/N: IF VV <= 0 THEN VV = 0 ELSE SG = SQR(VV)
```

## Accounts Receivable (269-1555)

If you are using this program and you get the following error occurring:

Unexpected ERROR CODE 5 IN LINE #2500

then try breaking the account into two separate sections i.e. treat as two customers. This error occurs because more than 256 transactions have been posted to a single customer.

## Program Replacement

If you are using either the Accounts Receivable (269-1555) or Accounts Payable (269-1554), then you may consider replacing them with the latest version (3.0 in both cases).

Just send your ORIGINAL program diskette to Computer Support or drop it in at your nearest Tandy store. It will be re-dumped and returned to you at no charge. A sheet listing the operation changes will be returned with your diskette.

## Profile

Profile uses an 'on-disk' sorting method which requires a large number of disk read/write operations. Disk life is a significant factor in system failures especially in long sorts of this kind. Be sure to make new backup copies regularly.

The maximum number of fields you may have on one screen is 32. If

you exceed this number an error message will be generated.

You CANNOT add records to Profile using BASIC. You can read, and modify records, but Profile will not recognise any records you add from BASIC.

If you wish to access Profile from BASIC, the LRL or number of characters in a record must be a number which is an even divisor of 256 minus 1. The reason for subtracting 1 is that Profile will add a carriage return (OD hex) at the end of each record.

This means that 127 is a valid record length ( $127 + 1 = 128$   $256/128 = 2$ ) a whole number) but 254 is not ( $254 + 1 = 255$   $256/255$  is not a whole number).

By using this formula you would expect 255 to be a valid record length, however, tests show that this will not work. The only valid record lengths are 3, 7, 15, 31, 63 and 127.

The formula for calculating LRL first line 20 on page 25 of the manual is incorrect — it should read :

$20 \text{ PR} = 1 + \text{INT}((\text{N}-1)/4): \text{LR} = (\text{N}-1) - (\text{PR}-1)*4$

On pages 26 and 28 make the following changes :

```
60 GET 1,2: J = 0: FOR I = OTONF-1: IF I = 16 THEN GET 1,3: J = 0
70 FIELD 1, (J*16) AS DUMMY$, .....(etc)
80 J = J + 1: NEXT I: CLOSE
```

On page 28 only, make the following change :

Add  $\text{RS}(32)$  to the DIM statement in line 10

Please note the examples on page 28 will only work with files whose logical record length is 64. The program can easily be modified for files with LRL = 4, 8, 16, 32 and 128.

We should point out that the formulae for calculating physical record and sub-records (PR and LR in line 150 page 28) are normally :

$\text{PR} = \text{INT}((\text{KEY}\% - 1)/\text{N}) + 1$  and  
 $\text{LR} = \text{KEY}\% - \text{N} * (\text{PR} - 1)$

Where PR is the physical record number, KEY% is the number of the record that you want to access, N is the number of sub-records in each physical record and LR is the sub-record which contains the data for KEY%. These formulae have been modified to allow us to determine which disk drive as well as which

physical record and sub-record contained the information.

For more detail refer to the Model I Disk Operating System, Section 7.

## Hints and Suggestions

The following hint is from Geoff Niland of Sydney. To disable the 'BREAK' key, execute the command

POKE 16396,241

Using the INKEY\$ function, your software can check for the 'BREAK' being depressed. (It will return the value of 4).

If you POKE 16396,201 this will return the 'BREAK' key to normal operation. Poking 16396 with 195 will cause the TRS-80 to reset when the 'BREAK' key is pressed.



## Inventory Management System 1.1 (269-4502)

This version of INVENTORY MANAGEMENT SYSTEM includes some additional features. These are not covered in the manual.

**PRICE LIST** — An option has been added to the master file list to print a price list without cost and sales information. When the MASTER FILE LISTING is selected, the question "PRICE LIST ONLY (Y/N)?" will appear. If you want the full master file listing, press N. If you want a Price List only, press Y.

**BREAK KEY** — The BREAK key has been disabled to avoid inadvertently BREAKing from the program by mistake. The BREAK key is restored when the program is exited.

**RECOVER** — This routine is included to recover data in the event of a system 'crash' or operator error which causes the index file to be corrupted. It takes a while to recover all your data, but the alternative is to retype it all.

### Receive Purchase Orders

In this section of IMS, if the purchase order created was a large one and the quantity received left the amount not shipped greater than 32768, an OV ERROR will occur when the order is put on backorder status. This is caused by the variables involved being integers instead of single precision. You can correct this by changing all occurrences of the variables "FR" and "FB" in program "ORDER/BAS" (lines 3050, 3140, 3190 and 3330) to "FR!" and "FB!".

### List Sales Transactions

If there is more than one video screen full of sales tickets, the program will not list the 17th transaction item. Make the following change.

Change the end of line 2540.

```
2540 ..... THEN N = N + 16
```

### Review/Edit

If you change a stock number, the vendor number will sometimes change also. If a change occurs, the vendor number will either become 0 or 201. This problem occurs in versions 1.0 and 1.1

Ver. 1.0 — Edit line 2310 in "RETINV" program :

```
2310 PUT 1,I(I,O): GOSUB1040: IFKF<>0
      THEN KF = 0: N1 = I: N2 = I(I,O):
      I(I,O) = -I(I,O): VN = I(I,1): ND = ND + 1:
      GOSUB3140: NI = NI-1
```

Ver. 1.1 — Edit line 234 in "IMS/BAS" program :

```
234 PUT 1,I(I,O): GOSUB184: IFKF<>0 THEN
      KF = 0: N1 = I: N2 = I(I,O): I(I,O) = -I(I,O):
      VN = I(I,1): ND = ND + 1: GOSUB292:
      NI = NI-1
```

Change the "GOTO 184" at the end of line 182 to :

```
..... IF I > NR THEN GOSUB 372: RETURN
Master IMS Diskette
```

If you have run your original IMS diskette, you will no doubt have found that you can not use it again as a master diskette. To re-initialize IMS, do the following:

Computer shows You type

TRSDOS READY BASIC - F:3

```
Ready          10 CLEAR 1000
                20 KILL "SALEDATA/DAT"
                30 KILL "CONTROL/DAT"
                40 OPEN "D":1,"CONTROL/
                DAT",96
                50 FIELD1,96ASXS
                60 LSETXS = STRING$(96,0)
                70 PUT 1,1
                80 PUT 1,2
                90 PUT 1,3
                100 PUT 1,4
                110 PUT 1,5
                120 CLOSE
```

RUN and press ENTER

Please note that there is not enough space to save this program to disk so don't try. After you have run this program there should be 4 free granules of disk space left.

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**The Lineprinter III routine which is available from Computer Support, at no charge, should be used if you are running a Model I with either a Lineprinter III or the Daisy Wheel printer.**

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### Mailing List (269-4506)

Two problems have been found with this package.

1. In some cases, when a lot of editing followed by adding, deleting, etc. is performed on large data files, the files will be split up and scattered on the disk. The operating system can only handle 14 extends on any file. If this is exceeded, a disk full of errors occurs, even though the Directory shows plenty of free space.

This can be corrected by pre-allocating the files in contiguous sections before you start to enter your data. All future releases will have this option as part of the SETUP program.

2. When adding a name, data from the previous record can be stored in the current record if no entry is made for a given field. This occurs most frequently in the remarks field.

This can be corrected by making the following change to file MLS/BAS

CHANGE LINE 1610 TO READ:

```
1610 EO$ = SPACE$(M1): E1$ = SPACE$(M1):
      E6$ = SPACE$(M6): E2$ = "":
      E3$ = "": E4$ = "": E5$ = "": E7 = 0:
      E8$ = "": RETURN
```

Alternatively, you can request a new version of this program (Ver. 2.0). Just send your original MLS diskette to Computer Support or drop it into any Tandy store and they will pass it on.

Be sure you realize that any data files on the diskette you send will be lost.

### General Ledger

Three 'bugs' have been found in this program. To update your General Ledger to the latest version, make the following changes :

Programs : GImaint & Txentry

Change line 220

```
220 IN# = ABS(VAL(MID$(IN$,W,LEN(IN$)-
      W + 1)): IN# = CDBL(WS)*FNRD#(IN#)
```

This will fix any rounding problems that may have occurred in the past.

Program : Income

Change line 1170

```
1170 SC# = Z#: SY# = Z#: FOR I = CA(1,0)-1
      TO CA(1,1)-1: GET2,IX(I,1): IF VAL(Y$(3))
      <>1 THEN 1190
```

This will fix errors in calculating NET SALES if no COST OF SALES category is defined.

Program : Txreport

Change : the end of line 1140

```
1140 .....: GOTO 1210
```

This will prevent a page overflow error from occurring.



## Notes on Model II TRSDOS 1.2

### Forms

Do not reset the width value under FORMS in TRSDOS 1.2. The width function is not working properly, and will cause you to lose one character when your line is 'wrapped-around' to the next printer line. An extra line-feed may also be generated. If you need to limit the width of your print-out then do it in software.

### VERIFY

If you turn the VERIFY function off, you will not be able to write to disk under any circumstances. TRSDOS 1.2 powers up with VERIFY on. Do not turn VERIFY off.

### TERMINAL

If you are receiving a file at a speed of greater than 600 baud, and a blank line is received then the first character of the next line will be lost and an overrun error will occur. A temporary solution is to make sure that each line contains at least 1 space character or transmit at less than 600 baud.

These problems will be fixed in a future release of TRSDOS.

### Model II Owners Manual

Page 7/6 of the operation section of the Model II manual has a misprint. Pin 28 (or Fault) is an active LOW signal, not an active high as the manual states.

### TRSDOS Reference Manual

Page 3/13 of the TRSDOS manual indicates that DATM32 has its origin at hex X'6B70' and the DATM64 has its origin at hex X'EB70'. These are the origins for EXDATM32 and EXDATM64 respectively.

The assembly language listing of DATMnn beginning on page 3/15 correctly lists the origin. They are:

DATM32 ORG'd at X'6C60'  
DATM64 ORG'd at X'EC60'

### TRSDOS

Here are a few updates to Ver. 1.2 of TRSDOS for the Model II. All minor changes to TRSDOS will be implemented using the 'PATCH' command (See Utilities section of The Model II Owners Manual)

These changes should ONLY be inserted if you are experiencing difficulties in the area involved. (With the exception of 8 & 9)

1. Problem : BASIC issuing a carriage return to printer on 132nd character i.e. 132nd character prints on the next line.  
Patch : PATCH BASIC A = 56BF, F = CCD256, C = 000000
2. Problem: When using communication drivers (including TERMINAL) and a parity error occurs, the parity error indicator does not reset for the next byte  
Patch : PATCH SYSCA/SYS A = 724F, F = E660, C = E670 (32K version)  
PATCH SYSCB/SYS A = F24F, F = E660, C = E670 (64K version)
3. Problem : TERMINAL utility could not load a file with LRL = 256 (G command). There is no apparent indication that an error has occurred unless you examine the RAM buffer.  
Patch : PATCH TERMINAL A = 35E7, F = 21DD3B016400, C = 21DD3D010001
4. Problem : Scrolling video problems when screen clock on (this patch will slow down scrolling considerably, so do not use on all copies of TRSDOS)  
Patch : PATCH IODVRS/SYS A = 0676, F = 00, C = 76
5. Problem : Printer software hangs-up when certain control functions are executed and printer is off-line.  
Patch : PATCH IODVRS/SYS A = 0F8C, F = 3E2D, C = F62D
6. Problem : Error occurred when doing multi diskette, single drive copies and diskette Mount Destination Disk copies message was displayed. Four (4) patches are required.  
Patch 1: PATCH SYS11/SYS A = 2BCC, F = CD5F29, C = CDA52D  
2: PATCH SYS11/SYS A = 2CD2, F = CD5F29, C = CDA52D  
3: PATCH SYS11/SYS A = 2DA5,  
F = FFFFFFFFFFFFFFFFFF,  
C = 21A92846230E0D3E09CF  
4: PATCH SYS11/SYS A = 2DAF,  
F = FFFFFFFFFFFFFFFFFF,  
C = 3E01CF3E04CF20FBC9
7. Problem : Possibility of ERROR 49 occurring under TRSDOS, this is a lost interrupt on the floppy disc controller. When running in BASIC this error is translated into NF errors and does not seem to be recoverable.  
Patch : PATCH IODVRS/SYS A = 0B9D, F = DO, C = D8
8. Problem : BREAK key and COBOL. As supplied, neither RUNCOBOL nor RSCOBOL will run from a "DO" file. This was done because pressing BREAK with an active DO can destroy ISAM files if it occurs during index updating. The following PATCH will allow you to use DO files. You may COMPILE a series of COBOL programs (with RSCOBOL) using a DO file, and there are several advantages in doing so.  
Patch: PATCH RSCOBOL A = 7055, F = C2BF75, C = 000000
9. Problem : Executing RUNCOBOL from a DO file allows the operator to press BREAK at anytime. This is not recommended (See Patch 8). To prevent the possibility of this happening, install the following PATCH.  
Patch : PATCH RUNCOBOL A = 7077, B = CD, C = CC

UNDER NO CIRCUMSTANCES EXECUTE "RUNCOBOL" FROM A "DO" FILE

Note: It is recommended that you 'reboot' the system after any patch is made. Do this by pressing reset on the front panel of the Model II.