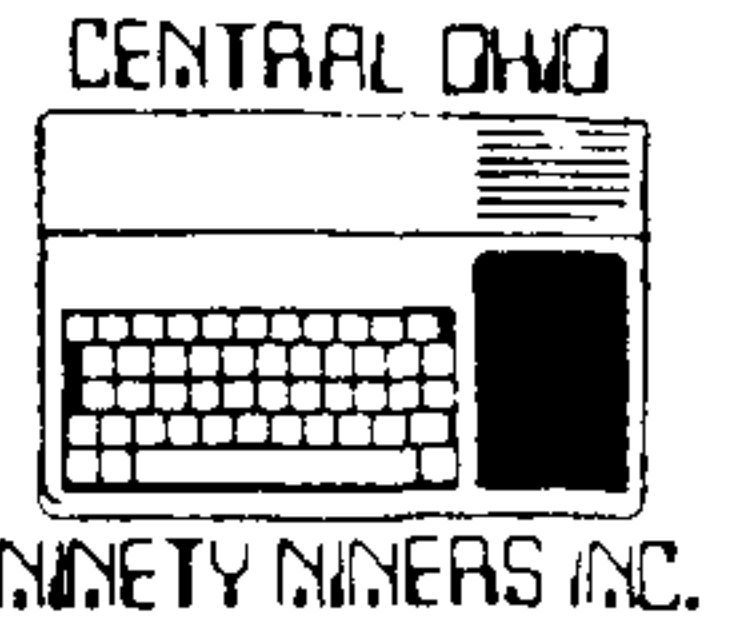


Spirit of 99



THE OFFICIAL NEWSLETTER OF THE CENTRAL OHIO NINETY-NINERS INC.

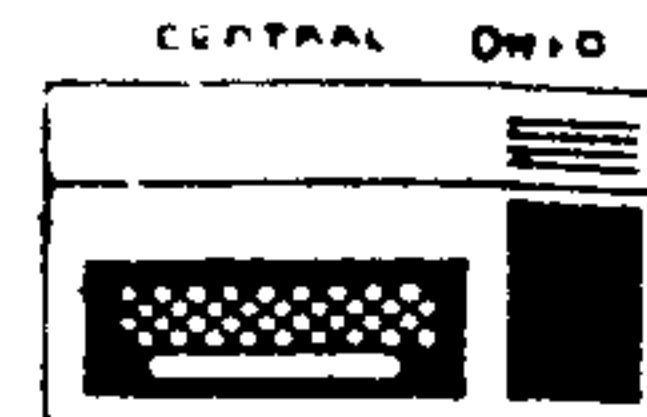
PUBLISHED MONTHLY IN COLUMBUS OHIO



\$1.50 VOL 5 NO 3 MARCH 1987

Spirit of 99

THE OFFICIAL NEWSLETTER OF CENTRAL OHIO NINETY-NINERS



COPYRIGHT © 1985
Central Ohio Ninety-Niners Incorporated (C.O.N.N.I.). Columbus Ohio 43212, USA. All rights reserved. Spirit of 99 is published monthly for Central Ohio Ninety-Niners Inc. by C.O.N.N.I. members and is the official newsletter of C.O.N.N.I. USFR GROUP.

Editorial, Advertising and subscription address is:
2215 Bayfield Drive
Columbus, Ohio 43229

Subscription rate (USA) \$18.00 /1 year (12 Issues). \$29.00/2 years (24 Issues). Foreign ADD \$5.00 per year. Third class postage paid at Columbus Ohio.

CHANGE OF ADDRESS: Send both OLD AND NEW address to: Subscription address above. WE assume no responsibility for manuscripts, programs (tape or disk not accompanied by return postage. Letter to the Editor become property of Spirit of 99. If published, WE reserve the right to edit at our discretion.

OPINIONS EXPRESSED HEREIN ARE THE AUTHORS AND ARE BASED ON VALID DOCUMENTABLE RESEARCH. THEY DO NOT NECESSARILY REFLECT THE OPINIONS OF THE PUBLISHER.

WE WILL NOT KNOWINGLY PUBLISH COPYRIGHT MATERIAL WITHOUT THE PERMISSION OF THE AUTHOR AND CREDIT DUE.

ALL PROGRAMS PUBLISHED HEREIN ARE OF PUBLIC DOMAIN UNLESS OTHERWISE NOTED.

OTHER NON-PROFIT USER GROUPS MAY USE MATERIAL FROM THIS NEWSLETTER ONLY IF SOURCE AND CREDIT IS GIVEN.

Central Ohio Ninety-Niners Inc. is a non profit organization comprised of MEMBERS who own or use the TI99/4A computer and it's related products and have paid a yearly membership fee of \$20.00 and whose main objective is the exchange of Educational and Scientific information for the purpose of computer literacy.

C.O.N.N.I. meetings are held the Second Saturday of each month at the Martin Janis Senior Center on East Eleventh Ave. at the Ohio State fairgrounds.

Meeting time is at 9:00 AM. Meetings are open to the public.

Membership dues (\$20.00) are payable yearly to C.O.N.N.I. and cover the immediate family of the member. (An application has been placed

in this newsletter for your convenience) Please address it to:
John Parkins
2215 Bayfield Dr.
Columbus, OH 43229

ADVERTISEMENT:
WE DO ACCEPT COMMERCIAL ADVERTISEMENT AT THE FOLLOWING RATES:
BUSINESS CARD (2X3.5):
\$5.00/ISSUE

1/4 PAGE: \$25.00
1/2 PAGE: \$45.00
FULL PAGE: \$75.00

WRITE THIS NEWSLETTER FOR OTHER SIZE ARRANGEMENTS.

ALL ADS SHOULD BE SUBMITTED (CAMERA READY) TO ADVERTISING ADDRESS ABOVE. PAYMENT ENCLOSED MEMBERS ADS ARE PUBLISHED AT NO COST. (LIMIT OF 25 WORDS AND MUST NOT BE COMMERCIAL PLEASE.)

INDEX

Programs Write Programs..	P. 3
Pres. Comments.....	P. 4
Jim Swedlow's XB/1-4.....	P. 5
Tips From The Tiger Cub..	P. 6
Income Tax.....	P. 8
Meeting Agenda.....	P.10
Notice.....	P.10
Printer Commands.....	P.11
Electronic Adventures....	P.12
Letters To The Editor....	P.16
Jack Sughrue.....	P.18

.....
.....
.....
Editor.....Carole Parkins
.....

OFFICERS

PRESIDENT.....	Irwin Hott
VICE PRES.....	Jim Seitz
SECRETARY.....	Vivian Prine
TREASURER.....	John Cummings

PROGRAMS THAT WRITE PROGRAMS

Part 5
by Jim Peterson

In addition to writing programs in MERGE format, the same techniques can be used to analyze or modify programs which have been SAVED in MERGE format. The D/V 163 file editor in Part 2 of this series was an example.

Here is a simple program to remove REM statements -

```
100 DISPLAY AT(3,5)ERASE ALL
:"REM REMOVER": : : "Program
must be SAVED in": "MERGE for
mat by": "SAVE DSK(filename),
MERGE"
110 DISPLAY AT(12,1): "FILENA
ME? DSK" :: ACCEPT AT(12,14)
:F$ :: DISPLAY AT(14,1): "NEW
FILENAME? DSK" :: ACCEPT AT
(14,18):NF$
120 OPEN #1:"DSK"&F$,VARIABLE
E 163,INPUT :: OPEN #2:"DSK"
&NF$,VARIABLE 163,OUTPUT
130 LINPUT #1:M$ :: A=POS(M$
,CHR$(131),1):: B=POS(M$,CHR
$(154),1):: A=MAX(A,B):: IF
A=3 THEN 150 :: IF A=0 THEN
PRINT #2:M$ :: GOTO 150
140 PRINT #2:SEG$(M$,1,A-1)&
CHR$(0)
150 IF EOF(1)<>1 THEN 130 ::
CLOSE #1 :: PRINT #2:CHR$(2
55)&CHR$(255):: CLOSE #2
```

The REM statement will begin with either a !, which is

CHR\$(131), or REM which is CHR\$(154). So, line 130 reads in the lines one at a time. A finds the position in the line of ! and B finds the position of REM; one or the other, or both, will not be present and will equal 0. Then MAX finds the larger of A and B, which will be whichever one is present, or 0 if neither.

If ! or REM is in the 3rd position, immediately after the 2-byte line number, we want to delete the line entirely, so we do not reprint it. If A=0 then neither ! nor REM is present, so we reprint the entire line in the new file.

Otherwise, the REM statement is obviously a tail remark, so we reprint to the new file the segment of it starting with the first character and consisting of the number of characters one less than the position of the ! or REM. And, since we have lopped off the end of the line, we do not forget to replace the end-of-line marker CHR\$(0).

If we have not reached the end of the file, we go back for the next line. Otherwise, we close the old file, but we remember to add the end-of-file marker to the new file before we close that too.



DUES ARE DUE IN MARCH.

\$20.00 FULL MEMBERSHIP

\$15.00 NEWSLETTER FOR ONE YEAR

FROM THE PRESIDENT'S COMPUTER DESK



BY IRWIN HOTT

As most of you know the CONNI elections were held at the last meeting. I would like to welcome John Cummings as our new treasurer, and Chuck Grimes to the elected office of librarian. For years it had been assumed that librarian was an appointed position. This turned out not to be the case. Jim Seitz was re-elected as vice-president, and Vivian Prine as secretary.

I would like to express our thanks on behalf of myself and the other officers for your support.

This year Art Morgan chose not to run for treasurer. Thanks to Art for his years of service in an extremely important and thankless job. I'm sure that we can count on his invaluable advice and support in the transition of the duties of the treasurer and beyond.

Thanks also to Dick Beery, Art Morgan and Jim Peterson for serving as the nominating committee for the preceding elections.

I thought I would also give you an update on the BBS. As many of you know the BBS equipment was donated to the club by Mr. Zettler. This necessitated a change in the location and the phone number of the BBS. The new number is: 614-263-3412). The Spirit of '99 TIBBS runs at 300/1200 baud. The BBS equipment is located at my house, so Dick Beery and I have traded rolls. I am SYSOP and Dick is assistant SYSOP.

I have made several changes to the board. Here is a partial list.

If you leave a program description after uploading a program, or leave a private message to me at sign-off you now have full editing capability.

If a line in a message is over 40 characters in length, the line will be shortened to the last space before the 41st character. Before, the line was truncated to the 40th character whether or not that character was in the middle of a word.

There is now an alphabetical list of users, that is available with the "L" command. WHEN A NEW USER SIGNS ON his or her name is automatically added to the list after logoff.

Press "T" if you wish to check or change your phone number.

If you leave a message to an individual you may check the spelling of the name. If the spelling is incorrect and the message is private, the user will not receive it. IF YOU PRESS ENTER AT "to whom" the default is "Everyone". IF THE "NAME" does not contain a space you will skip the spelling check and the private option.

As many of you know I am blind. That makes some work on the TI difficult and some nearly impossible. Because of the size of the BBS program, I cannot run TEXT-TO-SPEECH concurrently. That made it necessary to eliminate CHAT mode. CALL SAY is just too slow. It might take several minutes to read a message one letter at a time. The other alternative is to add an external speech synthesizer to the RS232 port. This is practical but somewhat expensive. I hope to experiment with an external synthesizer sometime in the future.

If you download a D/V 80 file from X-MODEM downloads you now have the choice to read it or download it.

Incidentally, thanks to Jim Peterson for the spelling check routine. It is a binary search routine which will be included in NUTS&BOLTS 3.

This would be an appropriate time to say thanks to Dick Beery, Chuck Grimes, Jim Peterson and Bud Wright for their help in testing and making changes in the BBS program. It has been quite a challenge to run and modify the BBS program. I have deleted several items included for the convenience of the SYSOP but not accessible to me without speech. I have made several options accessible to the SYSOP on-line (cataloging disks, reading

files) etc. I find it easier to do much work on-line rather than directly from the BBS console.

I have written some EX-BASIC programs with speech to update the user file as well as some other functions.

The comments and suggestions of other users have been of great help. Such support makes all of the work worthwhile.

I would also like to thank Bud Wright and Curt Borders for their recent help when the Micro-Expansion disk controller quit working.

It turned out that the TMS9901 chip went out and the power supply was putting out 4.6 volts instead of 5 volts. Curt donated the TMS9901 and Bud donated the voltage regulator, his time and expertise to the club in repairing the Micro-Expansion system.

During that time the BBS was running on my system so I could not access several functions easily. Dick Beery effectively took over as SYSOP during that time. Thanks Dick for your help.

See you next month.

```

X   X   BBBB   # 1 TO 4
X X   B   B
   X   BBBB
X X   B   B
X   X   BBBB

```

By
Jim
Swedlow

[This article is a summary of four XB columns that originally appeared in the User Group of Orange County, California ROM]

IF THEN

The incompatibility between FOR NEXT and IF THEN statements can cause your program to be awkward. The MAX and MIN statements will often work. For example, instead of this:

```
IF A<6 THEN A=6
```

Try:

```
A=MAX(A,6)
```

TOO MANY GO TO's

I was looking at a text only adventure game and found the following code:

```
370 FOR B=1 TO 58 ::
  IF A(B)=L THEN C=C+1 ::
  GOTO 372
371 NEXT B ::
  GOTO 374
372 IF C=1 then PRINT "You See:"
373 PRINT A$(B) ::
  GOTO 371
```

374 ! Program Continues

Note that in line 370 the program leaves the loop to print the message and then returns. Then it skips over the print instructions to continue.

This is simpler:

```
370 FOR B=1 TO 58 ::
  IF A(B)=L THEN C=C+1 ::
  IF C=1 THEN PRINT "You See:":A$(B)
  ELSE PRINT A$(B)
371 NEXT B ! Program Continues
```

This saves 25 bytes of memory

MORE IF THEN

Suppose that C\$ can be only "Y" or "N" and that you want to write a routine to change C\$ without knowing its current value.

You might do this:

```
100 IF C$="Y" THEN C$="N" ELSE C$="Y"
```

You don't need to use IF THEN:

```
100 C$=CHR$(167-ASC(C$))
```

Enjoy.



Copyright 1986

TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

Distributed by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. May be reprinted by non-profit users groups, with credit to Tigercub Software.

Over 130 original programs in Basic and Extended Basic, available on cassette or disk, only \$3.00 each plus \$1.50 per order for PPM. Entertainment, education, programmer's utilities. Descriptive catalog \$1.00, deductible from your first order.

Tips from The Tigercub, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, just \$15 postpaid. Tips from the Tigercub Vol. 2, another diskfull, complete contents of Nos. 15 through 24, over 60 files and programs, also just \$15 postpaid.

\$
\$ Tips from the Tigercub \$
\$ Vol. 3 is now ready. \$
\$ Another 62 programs, \$
\$ routines, tips, tricks. \$
\$ from Nos. 25 thru 32. \$
\$ Also \$15 postpaid. Any \$
\$ two Tips disks \$27 or \$
\$ all 3 for \$35 postpaid. \$
\$

Nuts & Bolts (No. 1), a full disk of 100 Extended Basic utility subprograms in merge format, ready to merge into your own programs. Plus the Tigercub Menuloader, a tutorial on using subprograms,

and 5 pages of documentation with an example of the use of each subprogram. All for just \$19.95 postpaid. Nuts & Bolts No. 2, another full disk of 100 utility subprograms in merge format, all new and fully compatible with the last, and with 10 pages of documentation and examples. Also \$19.95 postpaid, or both Nuts Bolts disks for \$37 postpaid.

Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

TIGERCUB'S BEST, PROGRAM-TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID'S GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCABULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

For descriptions of these send a dollar for my catalog!

I'm going to mail out the July and August Tips at the end of June, and go fishing. Imagine, a TI publication AHEAD of schedule! However, in the unlikely event that anyone should send me an order, it will receive my usual one-day service.

Here's another tune for the dulcimer player in the last Tips. Change the TD value to 94 -

350 DATA 9,11,13,13,13,13,13

,16,16,13,13,11,11,11,11,11,11
11
360 DATA 16,18,14,21,18,18,1
6,13,9,11,9,9,9,9,9
370 DATA 21,20,18,18,16,13,1
6,16,9,11,13,11,13,14,13,13
380 DATA 21,20,18,18,16,13,1
6,16,9,13,11,9,8,6,4,4
390 DATA 9,11,13,13,13,13,13
,16,16,13,13,11,11,11,11,11
400 DATA 16,18,14,21,18,18,1
6,13,9,11,9,9,9,9,9

Here's one for those who like graphics, and those who make a living designing floor tiles. It borrows a bit from a Renko & Edwards program -

```
100 CALL CLEAR : F=2 : BC=16 : RANDOMIZE : DISPLAY A  
T(2,10):"ESCHER ART": :TAB(14);"by": :TAB(9);"Jim Peters  
on"  
110 DISPLAY AT(12,3):"Press  
Q for new pattern":  
R to change colors":  
C for new colors": :  
Any key to start"  
120 CALL KEY(0,K,S):: IF S=0  
THEN 120 ELSE CALL CLEAR  
130 DATA 80808080808080808080  
000000000000010101010101010  
1000000000000000FF  
140 DATA 202020202020200000  
OFF00000000000404040404040  
400000000000FF0000  
150 DATA 10101010101010000  
000FF0000000080808080808080  
00000000FF000000  
160 DATA C0C0C0C0C0C0C0C0C0FF  
F0000000000000303030303030  
30000000000000FF  
170 DATA F0F0F0F0F0F0F0F0F0FF  
FFFFF000000000F0F0F0F0F0F0  
F00000000FF000000  
180 DATA 8040201008040201010  
2040810204080804020100804020  
10102040810204080  
190 DATA 101020C000000000808  
0403000000000000000003040808  
000000000C0201010  
200 DATA FFFEFCFBFOEC080FF7  
F3F1F0F0703010103070F1F3F7FF  
FB0C0E0F0FBFCFEFF  
210 DATA F0F0F0F0000000000F0  
F0F0F0000000000000000F0F0F0  
F00000000F0F0F0F0  
220 DATA 80C0A090888482FFFF8  
2848890A0C080FF4121110905030
```

```
101030509112141FF  
230 DATA 8142241818244281814  
2241818244281814224181824428  
18142241818244281  
240 DATA 08080808FF080808101  
01010FF101010101010FF1010101  
0080808FF08080808  
250 DATA AA55AA55AA55AA5555A  
A55AA55AA55AAA55AA55AA55AA5  
555AA55AA55AA55AA  
260 DATA F0F0F0F0F0F0F0F0F0  
F0F0FF0F0F0F0F0F0F0F0F0F0  
F0F0F0F0FF0F0F0F0  
270 CALL CHAR(84,RPT$("0",64  
)): FOR CH=88 TO 140 STEP 4  
: : READ CH : : CALL CHAR(CH  
,CH): : NEXT CH : : CALL SCRE  
EN(5)  
280 A=INT(63RND+3):: H=INT(2  
4/A):: HC=INT(28/A):: M=ABS(  
HC/2=INT(HC/2)): : DIM M(8,8)  
: : FOR P=1 TO A  
290 D(P)=INT(15RND+21)84  
300 NEXT P : : GOSUB 370  
310 CALL KEY(3,K,ST):: IF K<  
>81 THEN 330  
320 CALL SOUND(50,500,5):: F  
OR J=1 TO 4 : : FOR JJ=1 TO A  
: : M$(J,JJ)=" : : NEXT JJ :  
: NEXT J : : GOTO 280  
330 IF K<>67 THEN 360 : : F=1  
NT(15RND+2)  
340 BC=INT(15RND+2):: IF BC  
=F THEN 340  
350 FOR S=7 TO 14 : : CALL CO  
LOR(S,F,BC):: NEXT S : : GOTO  
310  
360 IF K<>ASC("R")THEN 310 :  
: T=F : : F=BC : : BC=T : : GOT  
O 350  
370 ON A-2 GOSUB 380,390,400  
,410,420,430 : : GOTO 520  
380 RESTORE 440 : : RETURN  
390 RESTORE 450 : : RETURN  
400 RESTORE 460 : : RETURN  
410 RESTORE 470 : : RETURN  
420 RESTORE 480 : : RETURN  
430 RESTORE 500 : : RETURN  
440 DATA 1,2,1,2,3,2,3,1,3  
450 DATA 1,2,2,1,2,3,3,2,3,4  
,4,3,4,1,1,4  
460 DATA 1,2,3,1,2,2,3,4,3,2  
,3,4,5,4,3,4,5,1,5,4,5,1,2,1  
,5  
470 DATA 1,2,3,3,2,1,2,3,4,4  
,3,2,3,4,5,5,4,3,4,5,6,6,5,4  
,5,6,1,1,6,5,6,1,2,2,1,6  
480 DATA 1,2,3,4,3,2,1,2,3,4  
,5,4,3,2,3,4,5,6,5,4,3,4,5,6  
,7,6,5,4
```



```

490 DATA 5,6,7,1,7,6,5,6,7,1
,2,1,7,6,7,1,2,3,2,1,7
500 DATA 1,2,3,4,4,3,2,1,2,3
,4,5,5,4,3,2,3,4,5,6,6,5,4,3
,4,5,6,7,7,6,5,4
510 DATA 5,6,7,8,8,7,6,5,6,7
,8,1,1,8,7,6,7,8,1,2,2,1,8,7
,8,1,2,3,3,2,1,8
520 FOR J=1 TO A :: FOR JJ=1
TO A :: READ M(J,JJ):: NEXT
JJ :: NEXT J
530 X=A+1 :: FOR J=1 TO A ::
FOR JJ=1 TO A :: M$(1,J)=M$(
1,J)&CHR$(D(M(J,JJ)))
540 M$(2,J)=M$(2,J)&CHR$(D(M
(JJ,X-J))+1)
550 M$(3,J)=M$(3,J)&CHR$(D(M
(X-J,X-JJ))+2)
560 M$(4,J)=M$(4,J)&CHR$(D(M
(X-JJ,J))+3)
570 NEXT JJ :: NEXT J
580 CALL CLEAR :: FOR R=1 TO
A&H STEP A :: FOR C=1 TO A&
HC STEP A
590 CALL KEY(0,K,ST):: IF K=
81 THEN 320
600 V=V+1+(V=4)*4 :: FOR T=1
TO A :: DISPLAY AT(R-1+T,C)
:M$(V,T):: NEXT T :: NEXT C
:: V=V+M+(V=4)*4 :: NEXT R
610 RETURN

```

This routine will search a disk file for up to 10 keywords in one pass - more if you DIM K\$() - and you may elect to find all records which contain the keyword or only those which contain it in combination with one of 1 or more secondary keywords.

```

100 CALL CLEAR
110 Y=0 :: DISPLAY AT(3,5):"
TIGERCUB KEYSEARCH" :: DISPL
AY AT(6,1):"Filename? DSK" :
: ACCEPT AT(6,14)BEEP:F$ ::
OPEN #1:"DSK"&F$,INPUT
120 DISPLAY AT(8,1):"Output
to:" (1)Screen:" (2)Printe
r:" (3)Both" :: ACCEPT AT(8
,11)VALIDATE("123")SIZE(1)BE
EP:8
130 IF Q>1 THEN DISPLAY AT(1
3,1):"Printer name?" :: ACCE
PT AT(13,15):P$ :: OPEN #2:P
$
140 DISPLAY AT(15,1):"Search
for:" (1)First match:" (2
)All matches" :: ACCEPT AT(1
5,13)VALIDATE("12")SIZE(1)BE

```

```

EP:S
150 DISPLAY AT(12,1)ERASE AL
L:"Press ENTER when all key-
":"words have been entered."
160 DISPLAY AT(17,1):"Press
ENTER if none -"
170 Y=Y+1 :: DISPLAY AT(15,1
):"Keyword? ";CHR$(127):: AC
CEPT AT(15,10)SIZE(-28)BEEP:
K$(Y):: IF K$(Y)=CHR$(127)TH
EN 190
180 W=W+1 :: DISPLAY AT(19,1
):"With? ";CHR$(127):: ACCEP
T AT(19,7)SIZE(-21)BEEP:M$(Y
,W):: IF M$(Y,W)=CHR$(127)TH
EN W=0 :: GOTO 170 ELSE GOTO
180
190 Y=Y-1
200 LINPUT #1:M$
210 FOR J=1 TO Y :: IF POS(M
$,K$(J),1)=0 THEN 290
220 IF M$(J,1)=CHR$(127)THEN
250
230 W=W+1 :: IF M$(J,W)=CHR$(
127)THEN W=0 :: GOTO 290
240 IF POS(M$,M$(J,W),1)=0 T
HEN 230
250 IF Q>1 THEN PRINT #2:M$
260 IF Q<>2 THEN PRINT M$
270 IF S=1 THEN 310
280 IF M$(J,W)<>CHR$(127)THE
N 230
290 NEXT J
300 IF EOF(1)<>1 THEN 200
310 CLOSE #1 :: DISPLAY AT(2
4,1):"FINISHED - PRESS ANY K
EY" :: CALL SOUND(200,500,5)
320 CALL KEY(0,K,ST):: IF ST
=0 THEN 320 ELSE CALL CLEAR
:: GOTO 110

```

You can set up a keyfile in TI-Writer - just remember that each 80-character line is a separate record, and keep the Alpha Lock down!

```

However, this is the pro-
gram that I plan to use to
set up a keyfile index of
all the newsletters you have
sent me, if I ever find the
time -
100 DISPLAY AT(3,10)ERASE AL
L:"TIGERCUB": " KEYWORD I
NDEX WRITER" !by Jim Peterso
n
110 DISPLAY AT(8,1):"Filenam
e? DSK" :: ACCEPT AT(8,14):F
$ :: OPEN #1:"DSK"&F$,APPEND
:: CALL KEY(3,K,S)

```

```

120 P$="#####" :: Y=00 :: M$
="###" :: P=00
130 DISPLAY AT(12,1):"NEWSLE
TTER? ";P$ :: ACCEPT AT(13,1
)SIZE(-28):P$ :: IF SEG$(P$,
1,3)="END" THEN CLOSE #1 ::
STOP
140 DISPLAY AT(14,1):"YEAR?"
;Y :: ACCEPT AT(14,7)VALIDAT
E(DIGIT)SIZE(-4):Y
150 DISPLAY AT(14,13):"MONTH
? ";M$ :: ACCEPT AT(14,20)SI
ZE(-9):M$
160 DISPLAY AT(16,1):"PAGE?"
;P :: ACCEPT AT(16,7)VALIDAT
E(DIGIT)SIZE(-3):P
170 DISPLAY AT(18,1):"ARTICL
E? " :: ACCEPT AT(19,1):A$
180 DISPLAY AT(20,1):"AUTHOR
?" :: ACCEPT AT(21,1):AU$
190 DISPLAY AT(22,1):"KEYWOR
DS?" :: ACCEPT AT(23,1):K$
200 PRINT #1:P$&" "&STR$(Y)&
" "&M$&" "&STR$(P)&" "&A$&
"&AU$&" "&K$
210 GOTO 130

```

Here's one to have fun with, from an ingenious German programmer. I just couldn't resist adding a tuba to his band.

```

100 !BY TORSTEN NIEMIETZ, MA
RBACHER WEG 3,D-2800 BREMEN
1, WEST GERMANY
110 FOR J=1 TO 10 :: READ T(
J)
120 NEXT J :: E=330 :: A=440
:: H=494 :: C=554 :: K=659
:: F=740 :: G=831
130 DISPLAY AT(3,8)ERASE ALL
:"S - O - L - O":;TAB
(10);"MIT OOMPANH";;RPT$(="
,28)::;"BY":" TORSTEN NIEM
IETZ":;"ait Oompah by Tiger
cub"
140 DISPLAY AT(18,1):"MAKE U
P YOUR SOLD WITH":"KEYS 1 TO
9 ... COME ON !!!"
150 FOR S=1 TO 2 :: CALL SOU
ND(200,E,3,H,3):: CALL SOUND
(200,E,3,H,3)
160 CALL SOUND(200,E,3,C,3):
: CALL SOUND(200,E,3,H,3)::
NEXT S
170 M=E :: N=H :: O=C :: D=B
:: GOSUB 210 :: M=A :: N=K
:: O=F :: D=4 :: GOSUB 210 :
: M=E :: N=H :: O=C :: GOSUB
210 :: M=H :: N=F :: O=6 ::

```

```

D=2
180 GOSUB 210 :: M=A :: N=K
:: O=F :: GOSUB 210 :: M=E :
: N=H :: O=C :: GOSUB 210 ::
M=H :: M=F :: O=6 :: GOSUB
210
190 FOR X=10 TO 3 STEP -1 ::
CALL SOUND(200,E,3,H,3,T(X)
,0)
200 NEXT X :: CALL SOUND(800
,E,3,H,3,K,0):: GOTO 150
210 FOR X=1 TO D :: FOR Y=1
TO 2 :: GOSUB 280
220 CALL SOUND(200,M,3,N,3,T
(R-48-(R=48))*9375,30,-4,0)
230 NEXT Y :: GOSUB 280
240 CALL SOUND(200,m,3,0,3,T
(R-48-(R=48))*9375,30,-4,0)
:: GOSUB 280
250 CALL SOUND(200,M,3,N,3,T
(R-48-(R=48))*9375,30,-4,0)
260 NEXT X :: RETURN
270 DATA 587,650,784,880,988
,1175,1319,1568,1760,44733
280 CALL KEY(0,R,S):: IF S<>
0 AND R>48 AND R<58 THEN RET
URN ELSE R=57 :: RETURN

```

1 !ONE-LINER universal calen-
dar for day of week of any d-
ate since 1905 - by Dennis H-
odgson in Sydney News Digest
2 !input day, month, year as
for instance 30,4,1986

```

100 A=1 :: INPUT D,M,Y :: FO
R T=A TO M-A :: H=H+29+VAL(S
EG$("20212122121",T,A)):: NE
XT T :: J=H+(Y/4<>INT(Y/4)AN
D M>2)+INT((Y-A)*365.25)+D :
: PRINT SEG$("SASUMDTUWETHFR
", (J-INT(J/7))*7)*2+A,2):: RU
N

```

Yes, there are legitimate uses for GRAM copiers and track copiers and such - but there is no way to get these utilities into the hands of the few who will only use them honestly, without also getting them into the hands of the many who will use them as burglar tools. And so, a few more nails are driven into the coffin...

MEMORY FULL
Jim Peterson

LINE#	DESCRIPTION					
14	LINE#DESCRIPTION					
15	7 WAGES, SALARIES, TIPS	30000			30000	FEDTXWITH 4567
16	8 INTEREST INCOME	222	1		223	STTXWITHH 1034
17	9 DIVIDENDS		0		0	FDTXDUE 4094
18	12 BUSINESS INCOME F#C		4000		4000	STTXDUE 932
19	18 RENTS ETC SCHEDULE E		0		0	
20	17 ANNUITY ROLLOVER?	1			1	FDPAY -473
21	22 OTHER INCOME				34224	STPAY -252
22	23 TOTAL INCOME	30223	4001		34224	TOTPAY -725
23	-----					
24	25 BUSINESS EXPENSES				0	- SIGN =
25	26 IRA DEDUCTION				0	REFUND !!
26	27 PAYMENTS TO A KEOUGH P				0	
27	28 PENALTY FOR EARLY WITH				0	
28	30 MARRIED COUPLE ALLOWAN		400		400	
29	31 TOTAL ADJUSTMENTS				33824	
30	32 ADJUSTED GROSS INCOME	30223	3601		33824	
31	-----					
32	33					
33	34 ITEMIZED DEDUCTIONS				5560	
34	36 EXEMPTIONS @ \$1080 EA	1080	1080		2160	
35	37 TAXABLE INCOME				26104	
36	38 FEDERAL TAX PER _____	22226.5	3642		3732	(OLD RATE
37	39 ADDITIONAL TAX F4970,F	32238	3443		0	(1985)
38	40 TOTAL FED TAX	49465	6030		0	
39	51 SELF-EMPLOYMENT TAX (S		452		452	
40	55 TAX ON IRA (F5329)					
41	56 TOTAL TAX				4094	
42	-----					
43	57 FED TAX WITHHELD	4567				
44	58 EST TAX PAYMENTS					
45	64 TOTAL PAYMENTS				4567	
46	-----					
47						
48						
49	A6 STATE & LOCAL INCOME T	1912	1		1913	
50	A7 REAL ESTATE TAXES	1500	0		1500	
51	A8 STATE SALES TAXES	550	377		927	
52	A10 TOTAL TAXES					4340
53	A11 HOME MORTGAGE INTEREST		3000		3000	
54	A12 CREDIT CARD INTEREST	1	171		172	
55	A13 OTHER INTEREST PAID	2	262		264	
56	A14 TOTAL INTEREST PAID					3436
57	A18 CONTRIBUTIONS	3	999		1002	
58	A19 CASUALTY LOSSES	4	4		8	
59	A20 PROFESSIONAL DUES	338	5		343	
60	A21 TAX RETURN PREP FEE	6	11		17	
61	A22 OTHER MISC DEDUCTIONS	7	77		84	
62	A23 TOTAL MISCELLANEOUS DE					1454
63	A24 TOTAL OF 5,10,14,18,19					9230
64	A25 ZERO BRACKET AMOUNT (3					3670
65	A26 ALLOWABLE DEDUCTIONS					5560
66	-----					
67	L3 OHIO TAXABLE INCOME				33824.00	
68	L4 OHIO EXEMPTION @ \$50EA.				1300.00	
69	L6 OHIO TAXABLE INCOME				32524.00	
70	L7 TAX BEFORE CREDITS				1155.48	
71	L12 JOINT FILING CREDIT				173.32	
72	L13 OHIO 85 INCOME TAX				982.16	
73	OHIO TAX WITHHELD				1234.00	
74					-251.84	

IMPORTANT! Bring your friends to the meeting in March, and for the rest of the year. We need them, and can help them and learn from them.



Beginning with the March meeting, we will offer:

BEGINNERS/CASSETTE interest session. Get the computer off the shelf and learn how to set up and operate it, how to load and save cassette files and programs, and see the great variety of cassette programs that are available from our club library (free), and from other sources. This group will be led by Sonny Grubb, a young experienced program

mer with wide experience in cassette access and programming. For ages eight to eighty. Bring your cassettes and questions, or just come to observe and listen.

CURRENT MEMBERS: Find people who can/should benefit from this group and bring them with you. Adoption of "Orphans" begins with each of us!

A second new offering at meetings will be:

PROGRAMMING MUSIC (and other interests in Extended Basic). Led by the renowned Jim Peterson, this group will look at, and discuss programming techniques for, many different approaches to MUSIC programming, as well as general programming concerns in Extended Basic.

MEETING AGENDA SATURDAY MARCH 14, 1987

9-9:50AM BEGINNERS/CASSETTE GROUP
SATURDAY
10-11:10AM BUSINESS MEETING
PROGRAM
11:15AM-NOON MUSIC AND EX- BAS.

GIVE A GIFT!

Pat Saturn has suggested that in order to interest others in joining our Group, each member be entitled to send one "gift Newsletter" to a prospective member as an incentive to join. A note could be included saying that this Newsletter is being sent compliments of _____, and if they are interested in joining please contact the member. Be sure to include your return address.

It sounds like a good idea! Why don't each of you try to think of a prospective member and try it?

Opinions expressed in this Newsletter are not necessarily those of the editor, staff, or members at large.

NOTICE



HERE'S WHAT'S COMING UP!

Note: Program for the March meeting will include demos of keyboards by John Parkins (special); John Cummings (Rave 99) and others, plus games

demos by Dave Rogers. Later meetings may include: flea market (buy-sell-swap); Database demos, and more. Watch for more details next issue.

LOOK FOR PAT'S COLUMN

A monthly column will be started by Pat Saturn beginning with this issue. We know he has so many worthwhile contributions to make, and we are very grateful for his participation. Thanks Pat!

PRINTER COMMANDS

(energizes or turns on)

	10X	SG-10	MX-80	FX-80	KX-P1091	DKIDATA
ITALICS	127 52	127 52	*****127 52	127 52	127 52	*****
ELITE	127 66 2	127 66 2	*****127 77	127 77	1	28
CONDENSED	127 15	127 15	127 15	127 15	127 15	1 29
FICA	127 66 1	127 66 1	*****	*****127 80	1	30
EXPANDED	127 87 1	127 87 1	127 14	127 87 1	127 87 1	1 31
SUPERSCRIPT	127 83 0	127 83 0	*****	27 83 0	127 83 0	127 74
SUBSCRIPT	127 83 1	127 83 1	*****	127 83 1	127 83 1	127 76
NEAR LETTER	*****	127 66 4	*****	127 120 1	127 110	127 49
EMPHASIZED	127 69	127 69	*****	127 69	127 69	127 84
UNDERLINE	127 45 1	127 45 1	*****	127 45 1	127 45 1	127 67
DOUBLE STRIKE	127 71	127 71	127 71	127 71	127 71	127 72
SLASHED ZERO	*****	127 92 1	*****	*****	*****	*****
1/8 LINE SP.	127 48	127 48	127 48	127 48	127 48	127 56
1/6 LINE SP.	127 50	127 50	127 50	127 50	127 50	127 54
7/72 LINE SP.	127 49	127 49	127 49	127 49	127 49	*****
n/72 LINE SP.	127 65 n	127 65 n	127 65 n	127 65 n	*****	*****
n/144 LINE SP.	127 51 n	127 51 n	*****	*****	*****	127 37 57 n
n/216 LINE SP.	*****	*****	*****	127 51 n	*****	*****
TOP MARGIN	127 82 n	127 82 n	*****	*****	*****	*****
BOTTOM MARGIN	127 78 n	127 78 n	127 78 n	127 78 n	*****	*****
LEFT MARGIN	127 77 n	127 77 n	*****	127 108 n	*****	*****
RIGHT MARGIN	127 81 n	127 81 n	*****	127 81 n	*****	*****
COLUMN WIDTH	*****	*****	127 81 n	*****	*****	*****
PAGE LTH. LINES	127 67 n	127 67 n	27 67 n	127 67 n	*****	*****
PAGE LTH. INCHES	127 67 0 n	127 67 0 n	*****	127 67 0 n	*****	*****
PAPER OUT "OFF"	127 56	127 56	127 56	127 56	127 56	*****
PROPORTIONAL	*****	127 112	*****	127 112	127 111	*****
RESET PRINTER	127 64	127 64	*****	127 64	*****	24



ELECTRONIC ADVENTURES

by Pat Saturn

This column will deal with building and understanding electronic gizmos that you can build for your computer with simple tools and available parts. Our first project will deal with sound. One of the ports on the back of your TI is the output for video and sound, located in the left rear of your computer.

The plug is a male five pin din with a locator notch. This plug has an arrangement of five wires which if you are using a TV set are connected to a video modulator, (the ugly box at the other end). You may have already done something about the so-so picture that this arrangement produces by buying a monitor, if so then please goto the next article because this one will more than likely bore you.

Now for those of you who are still reading...

About those five wires. First there is a small thin wire covered with an opaque white plastic insulator, wrapped with a braided wire shield, again covered with an opaque white insulator, (usually nylon). This is the wire that carries the video, modulated VHF signals and the ground. The yellow wire is direct audio, the black is ground and, the red wire is B+. You need not concern yourself with the last wire for it will serve no useful purpose in our adventure.

Now you may not be aware of a 12 inch green screen monitor available from Zettlers for \$99.99, But...it has no sound. Not to worry, this adventure is going to deal with just that... Let's assume you have a monitor with no sound, or you just want sound in your console like the other computers...

The circuit shown below will do just that. It is a 7 watt amplifier made with radio shack parts for less than \$25.00 (my kind of price). The amp uses a single IC to produce up to 7 watts of output with less than 250mv of input. The unit is designed to run on 11 to 14 VDC. The supply should a relatively well filtered source of DC capable of one amp of current. (Next months article).

Some tips before you begin...when you mount the caps and resistors place them against the PC board. Do not leave them hanging in the air. It is recommended that you use a small soldering iron, (25 watts or less). Keep the tip clean by wiping the tip on a damp sponge or cloth. Use small diameter solder (.035 or smaller). Use a good grade of solder (Kester 60/40). READ EACH STEP COMPLETELY THROUGH BEFORE DOING IT !!! The electrolytic caps are marked with a polarity either with a plus or minus sign. Install them so that the polarity is correct as shown in the parts overlay. (fig #1) ALL COMPONENTS ARE INSTALLED ON THE TOP (NON-FOIL) SIDE OF THE PC BOARD. The overlay below is looking down on top of the board with an x-ray view of the bottom, (foil side).

ASSEMBLY INSTRUCTIONS

1. Locate the TA7205 Audio IC. Note the location of pin 1 as illustrated in the drawing. Install the IC in the PC board up to where the pins get wider. Make sure the pins are located in the correct holes per fig 2. Pin #1 is marked with a small dot on the chip. Carefully solder pins #1 & #2, then solder the remaining pins. Your solder joints should go completely around the pins to form a small cone, and should be shiney, (not grey or blob like). Bad solder joints will cause problems later. 2. Install the five disc capacitors being careful to put the proper value in each location, (see fig #2). Keep in mind that often the parts themselves are labeled differently than the package, so save the package until you are finished. Solder each cap as it is installed and clip the excess leads. 3. The electrolytic capacitors should now be installed, (see fig 2.) , making sure the polarities are correct. Electrolytic capacitors are tubular in shape and have either a plus or a minus sign on them to show polarity. The working voltage on electrolytics is simply a DO NOT EXCEED rating and has nothing to do with operating characteristics, thus a cap will work as long as the microfarad value is correct and the voltage rating exceeds the maximum circuit voltage. Solder each cap as it is installed and clip the excess leads. 4. Insert the vertical mount potentiometer in the triangle hole pattern and push it so the pins stick completely through the board. Solder, DO NOT CLIP. 5. Insert the resistor in the location shown. Solder and clip. 6. Strip about 1/8" from a piece of red #22 or #24 stranded wire. Do the same with a piece of black, make both pieces approximately 8" long. Solder these two wires to the POS & NEG positions on the PC board. Strip a 6" piece of shielded cable on both ends and solder them to the two speaker pads & the other ends to a speaker. Remember to observe polarity, (the center wire to POS and the shield to ground). 7. before applying power, check the PC board for bad solder joints or solder shorts. make sure all components are in their proper location and the polarities on the electrolytic capacitors are correct. 8. Connect a 4 OHM speaker or two 8 OHM speakers in parallel, (4 OHMS TOTAL). A 4 OHM speaker puts out more power than an 8 OHM unit. 9. The IC has a heat tab, however if the unit is used at maximum ratings for extended periods of time the IC will get too hot. Cut a 1" x 2" piece of .032 to .060 aluminium or copper and mount it to the existing tab on the IC to provide additional heatsinking.

CONTINUED

fig #1 OVERLAY PARTS LOCATION W/X-RAY VIEW OF CIRCUIT ON BOTTOM

fig #2 PARTS LOCATION ON -PC BOARD SHOWING POLARITY OF COMPONENTS

fig #3. SCHEMATIC OF AUDIO AMPLIFIER CIRCUIT

fig #4. SUGGESTED POWER SUPPLY EXAMPLE SCHEMATIC
(WE WILL BUILD THIS ONE NEXT MONTH)

PARTS			LIST
PART	QUAN	VALUE/DESC.	RADIO SHACK PART NO.
C 1	1	1000 MFD@35V ELEC	272-1037 / \$1.59
C 2	1	470 MFD@35V ELEC	272-1030 / \$.99
C 3	1	220 MFD@16V ELEC	272-1029 / \$.79
C4&5	3	47 PF@50WV DISC	272-121 / \$.39
C6	1	47 PF@50V DISC	272-121 / \$.39
C 10	2	47 MFD@35V ELEC	272-1027 / \$.69
C 7	1	4.7 MFD@35V ELEC	272-1024 / \$.49
R 1	1	82 OHMS 1/4W	271-011 / \$.19
R 2	1	25K OHM POT 1/8W	271-336 / \$.49

WARNING

1. BEWARE: The author suggests that you do not attempt this project yourself if you are not familiar with electronic circuit boards. You will be working with high voltage which may be dangerous. Get someone familiar with this if you wish to make it!
2. Please understand that neither the author nor the editor can be held responsible for mishaps, damages, or injuries incurred while attempting this project.
3. The drawings are not to scale but will be correct if shot to 93% on a copier.
4. If you want the actual size circuit print free, contact Pat, and he will get it for you.
5. You may buy this P.C. board from Pat. There must, however, be a minimum order of 10. The exact cost is not known, but they will be under \$10.00 each. To order, write Pat at: 1456 Granview Ave., Columbus, Ohio 43212.

TI EQUIPMENT

Need TI equipment? Pat Saturn sells almost anything you need. Contact him at Zettler Hardware, at the meetings, or at 1456 Granview Ave., Columbus, Ohio 43212.

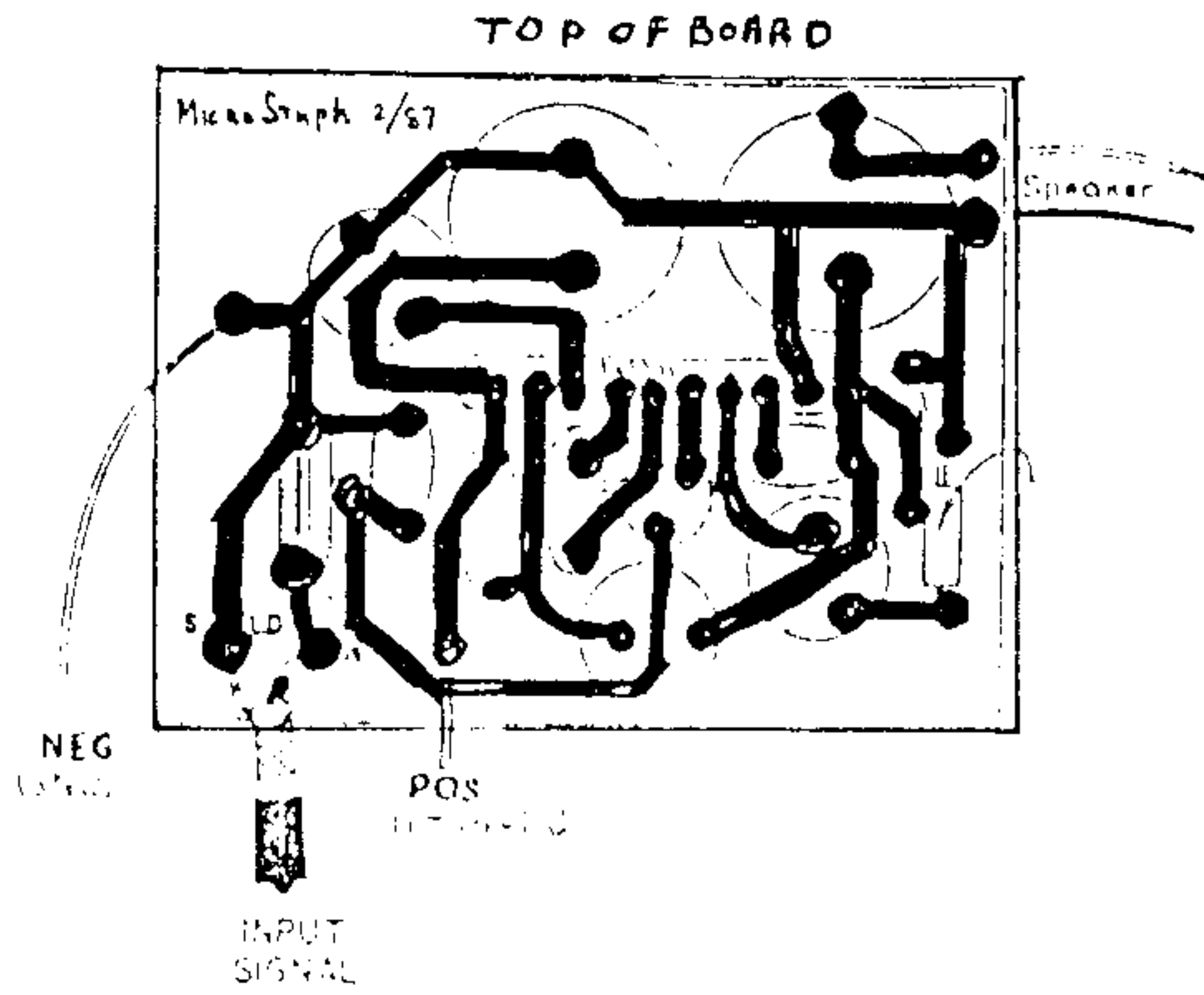


Fig.#1

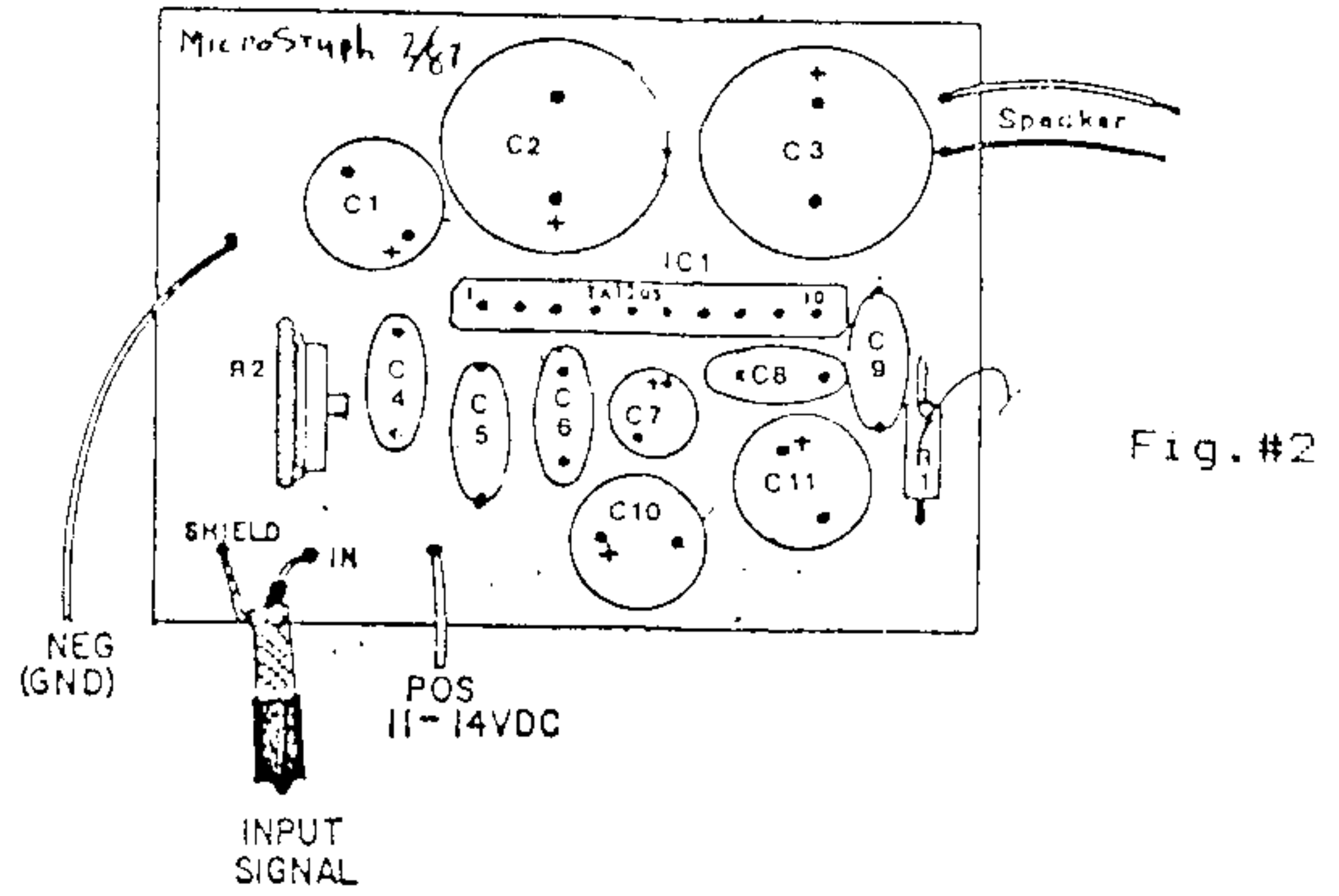


Fig.#2

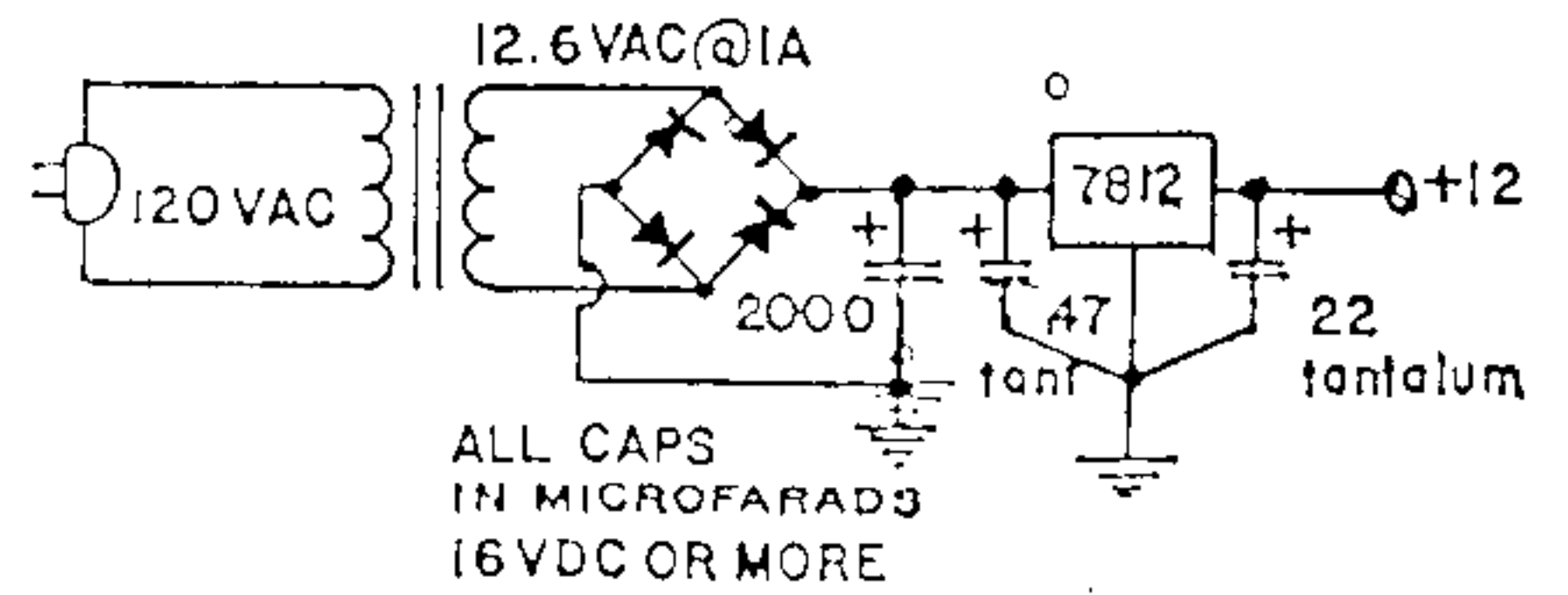
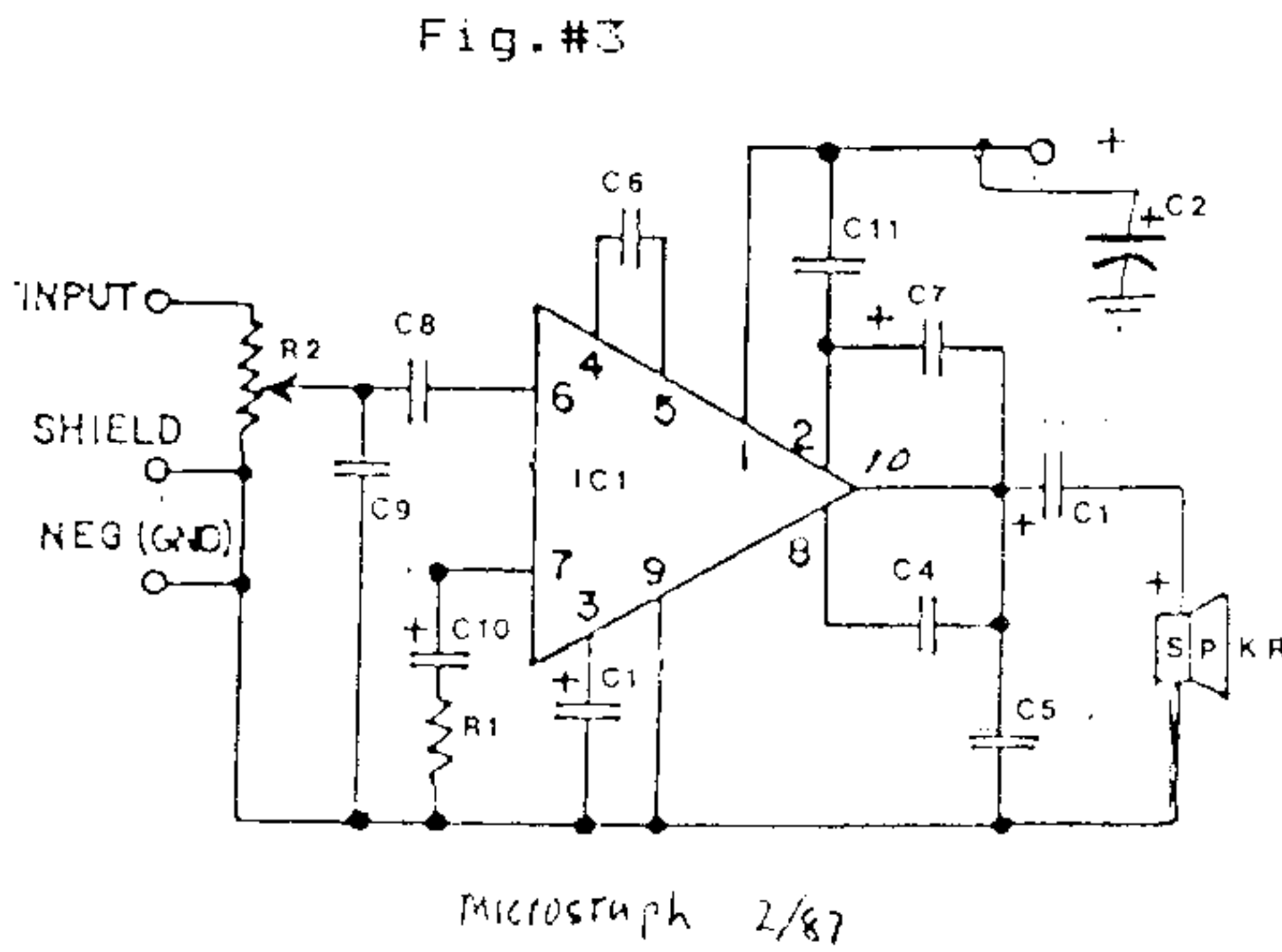
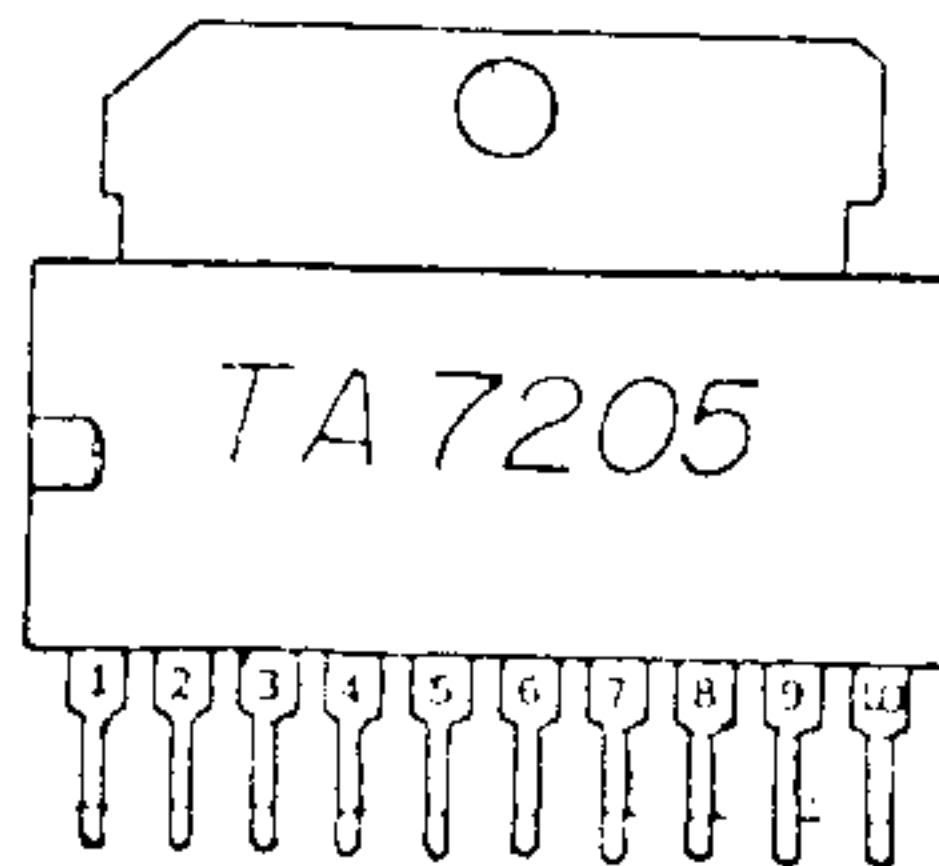
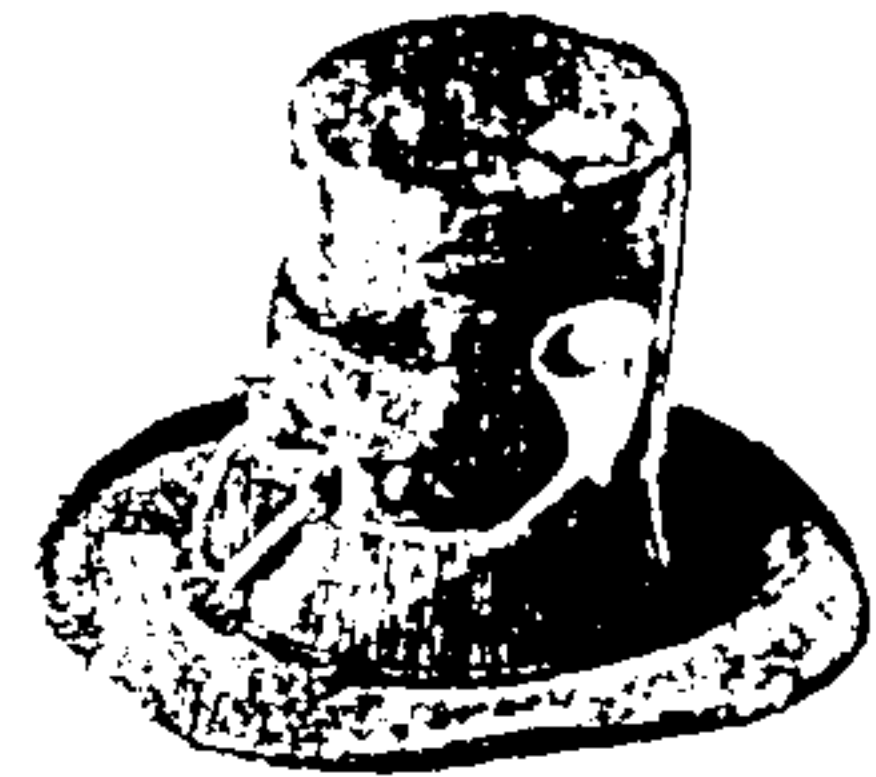


Fig.#4



LETTERS TO THE EDITOR



THE TITANIC, THE BATTLE OF BULGARIA, and ELSTON/REGENT
Happenings in the TI World Community
by JACK SUGHRUE

Dear Editor,

TI newsletters throughout the world have been having some difficulties lately: loss of revenues because of rapidly falling memberships; decrease in the number of people helping with the newsletter; more space than writers filling the space.

I hope I may be able to provide some assistance. If you would like I will mail you my monthly TI column, IMPACT-99! This is a column by, about, and for TI owners. It is a monthly essay which previews and reviews software, textware, and hardware and discusses the things which are happening in the TI/99's world community. Oftentimes graphics and sample programs are included.

My only interest is in sharing my love for this machine. It has come to symbolize a triumph over incredible odds, and I enjoy being a part of this successful struggle (as I'm sure you do).

Enclosed are two articles (the first about Jim Peterson, the second about graphic design - the first of four articles). If you like them and would like to publish them as a regular part of your newsletter please drop me a line. I will continue to mail you my column regularly. I will send two or three each time about a month before publication date. This will allow you to plan your paste-ups way in advance. The articles will always be two pages (with a third-page option of graphics, examples, programs, or related comments) usually available).

I purchase all of the items I review, so there can be no complaints about favoritism. And, though I have written lots of PD and Fairware programs, I have no commercial ventures to promote. The essays are simply essays about the 99.

I have written TI and other computer articles for the past four years for educational journals and newsletters, but I write fiction and poetry mostly. I have one book published and have numerous magazine credits. I am a teacher, married, father of four grown-ups, computer freak, collector of old radio shows and jazz, short-wave listener, and games player. But I'm most of all a teacher and a writer; have been writing for newspapers and magazines most of my adult life and have taught almost as long.

The only thing I require is to be placed on your subscription list. For as long as I keep receiving your newsletter I will continue to provide this free (and hopefully good) service.

Please let me know soon.

(JACK SUGHRUE, BOX 459, E.DOUGLAS MA 01516)

Carole Parkins
Editor
Spirit of 99
2215 Bayfield Drive
Columbus, Ohio 43229

March 1, 1987

Mr. Jack Sughrue
Box 459
E. Douglas, Ma. 01516

Dear Mr. Sughrue,

Chuck Grimes gave me your letter and articles which I enjoyed very much. We appreciate your considering us for a monthly column. It sounds as though you will have many interesting things to tell us.

You most definitely are now on our mailing list, and we look forward to your future articles.

Sincerely,

Carole Parkins
Editor

Jack E. Evans
1339 Pauline Ave.
Columbus Ohio
43224

01-29-87

C.O.N.N.I.
2215 Bayfield Dr.
Columbus Ohio 43229

Dear Sirs:

Here is a tip for using my 3-column disk cataloger--
If you want to be able to put the list on the disk jacket,
send your printer the code for condensed print. Add the
code at line 245. If you have a Gemini printer you would add
this line: 245 PRINT #2:CHR\$(15)

Thank You

Jack E. Evans Sr.
1339 Pauline Ave.
Columbus Ohio 43224

NAME	ADDRESS	CITY	STATE	ZIP
JOHN DOE	123 MAIN ST	COLUMBUS	OH	43210
JANE SMITH	456 EASY AVE	COLUMBUS	OH	43211
BOB BROWN	789 HARDY DR	COLUMBUS	OH	43212
ALICE WHITE	101 SOUTH ST	COLUMBUS	OH	43213
CHARLIE BLACK	202 WEST ST	COLUMBUS	OH	43214
DAVID GREEN	303 NORTH ST	COLUMBUS	OH	43215
EVA PINK	404 SOUTH ST	COLUMBUS	OH	43216
FRANK BLUE	505 WEST ST	COLUMBUS	OH	43217
GRACE BROWN	606 NORTH ST	COLUMBUS	OH	43218
HEIDI GREEN	707 SOUTH ST	COLUMBUS	OH	43219
IRVING PINK	808 WEST ST	COLUMBUS	OH	43220
JACK BLUE	909 NORTH ST	COLUMBUS	OH	43221
KAREN BROWN	1010 SOUTH ST	COLUMBUS	OH	43222
LEWIS GREEN	1111 WEST ST	COLUMBUS	OH	43223
MARY PINK	1212 NORTH ST	COLUMBUS	OH	43224
NOEL BLUE	1313 SOUTH ST	COLUMBUS	OH	43225
OLIVER BROWN	1414 WEST ST	COLUMBUS	OH	43226
PAT GREEN	1515 NORTH ST	COLUMBUS	OH	43227
QUINN PINK	1616 SOUTH ST	COLUMBUS	OH	43228
RALPH BLUE	1717 WEST ST	COLUMBUS	OH	43229
SARAH BROWN	1818 NORTH ST	COLUMBUS	OH	43230
TOM GREEN	1919 SOUTH ST	COLUMBUS	OH	43231
URSULA PINK	2020 WEST ST	COLUMBUS	OH	43232
VICTOR BLUE	2121 NORTH ST	COLUMBUS	OH	43233
WALTER BROWN	2222 SOUTH ST	COLUMBUS	OH	43234
XENIA GREEN	2323 WEST ST	COLUMBUS	OH	43235
YOUNG PINK	2424 NORTH ST	COLUMBUS	OH	43236
ZACHARY BLUE	2525 SOUTH ST	COLUMBUS	OH	43237

TELETYPE, ENCRYPTING, and ALGEBRAIC Happenings in the T.I. World Community by JACK BUSHROE

There's a grandfather in Ohio who bought his son a computer back in 1982. His son was in high school then and was planning on going into engineering. Neither father nor son knew anything about computers, but the TI-99/4a was purchased because they both liked the feel of the keyboard. The son went into journalism instead of engineering, and the father began to play with the machine. He perused the blue manual, experimented with the computer, liked the things he discovered, and became a computer addict.

Within the next four years the addict became an expert of world-wide fame within our special world of the 99. During that time Jim Peterson - also known as Tigercub Software (156 Collingwood Ave., Columbus, OH 43213) - became the Columbus of this special world. He discovered more and explored more new TI territories than anyone else in the business (including the people at TI). And he shared these discoveries with us in monthly columns: TIPS FROM THE TIGERCUB. Those 41 columns were chock full of programs, tips, subroutines, reviews, recommendations, and items from his huge and dedicated following.

When TI died Jim Peterson did not. He stayed aboard what appeared to be a sinking ship, throwing us a life preserver before we all went down for the third time.

Though he teaches computer workshops, he never took one. I learned more about the TI from Jim Peterson than I did from the 60-plus books I own on 99 computing.

Looking through my disk files a few minutes ago I discovered I have over 400 files from Tigercub Software, most included on five remarkable (there is no other word) disks: TIPS #1, 2, 3 and NUTS 'n BOLTS #1 and 2. The others are single programs I bought along the way: ANTONYMY, SYNONYMY, HOMONYMY, HIEROGLYPHY, PLAIN OF JEWELS, DRUNKEN SAILOR, BAZOO, MECHANICAL APTITUDE TEST, GRAPHIC DESIGNER, SCRUM, SQUINCH, STUFF 'n NONSENSE, KID/STUFF, HANDYDANDY 1,2,3, HAUNTED GRAVEYARD and others with equally fascinating titles. There are lots of demos, music, utilities, games, puzzles, graphics: all original, all his.

I never purchased anything from Jim that I haven't been extremely satisfied with. Little by little I hope to buy his entire catalog. Then I can have the TIGERCUB LIBRARY to spend my cold winter nights with. And that's good company. Look at the titles above. Variety? Yes. But the big thing is the sense of humor. This genius seems to be filled with wonder and awe everytime he uncovers something new about our machine, and he shares these uncoverings in such unusual ways and with such a delightful sense of humor that one cannot help but be caught up in his enthusiasm. He does all this in the speech of the common human: not in techie robotics. He has never lowered himself to shunning the masses. He's one of those people I'd really like to meet someday.

Intrigued by these titles, you probably wonder, What's a Squinch, Scrum, Mechanical Aptitude Test, Synonymy, or Handydandy?

Well, a Squinch is a very peculiar word game for one or many players in which two words have been bizarrely intermingled into one. A timer may be activated as you try to separate the combinations. There are literally millions of possibilities. A Scrum is a very speedy puzzle where you attempt to change the colors on a 3X3 grid. The problem is that the adjacent square's color also changes. Over 500 puzzles in one.

Very challenging. The Mechanical Aptitude Test should be shot at dawn. A frustratingly wonderful puzzle requiring only the mental ability to join two geometric pieces together. (You have to see this to readily understand this.) Handydandies (1,2,3) are collections of about 75 programming routines you can read and LIST and use (and demonstrate). Excellent forerunner to the WONDERFUL disks of TIPS and NUTS 'n BOLTS. Synonymy (similar to Antonymy, etc.) is a game of synonyms. Excellent for adult fun and ideal for children's learning fun.

It would be easy and endless to describe all of Jim's neat little programs (including the rather whacked-out Drunken Sailor), but I wanted to save a little column space for his masterpieces.

There can be no question that NUTS 'n BOLTS (1 and 2) and TIPS (1, 2, 3) are masterpieces. (I just learned in this morning's mail that there is also a #4 TIPS. I learned this from reading Jim's 41st and final TIPS FROM THE TIGERCUB column.) Every person I know who bought these 5 disks (about 400 programs, files, subroutines, tutorials, etc., not counting TIPS 4) is astounded. If one opened up these packages today and did no work outside the home it would really take months to go through these items and use them. The files include such things as TIMEDEF, NUMBERSPK, POCKETKAL (for Kaleidoscope), BELLMUSIC, CHAMBORDER (for Chameleon), UPSIDEDOWN, SLASHZERO, SCREENGRIID, INITCHECK, MOON, STACKGRAPH, QUICKCOLOR. On and on. Hundreds of programs and subroutines. The subs are already in MERGE format ready to plug into any program and try them out. They are numbered so any subs may be used in the same program. A quickref-type manual sheet comes with easy-to-follow directions with N 'n B. There are README files for docs.

Aren't the titles tantalizing? So are the programs.

Jim Peterson is MR. 99 to most of us in the TI community. We have looked forward to reading his columns in newsletters from around the country; have admired his frankness and dedication and humor and humanness. Now that Jim is no longer doing his column for newsletters around the world, maybe he'll still put out some more great disks. As he said in his final column "I am NOT going out of business."

All of us in the TI community are going to miss his TIPS. Best of luck, Jim. Thanks to you our "Memories are Full," too.

~~~~~  
Send Jim \$1.00 (deductable from first order) for complete Tigercub catalog.

**3, 2, 1 IMPACT! until next time.**

(Jack Sughrue, Box 459, E. Douglas MA 01516)

Ed. Note: These are our sentiments, too, Jack! Thank you for this great opening article.

I had a psychology professor who once said, "Genius finds a way!" Perhaps it does.

Interestingly, both Chuck Grimes and Dick Heim individually submitted this article for this issue. You couldn't have done better!

Spirit of 99

Bulk Rate  
U.S. Postage  
PAID  
COLUMBUS 43221  
Permit No. 1945

TIME SENSITIVE MATERIAL  
POSTMASTER - PLEASE DELIVER PROMPTLY

S.M.A.U.G., USER'S GROUP/99  
RT.4, BOX 23  
BREWTON, AL 36426

\*\*\* MEMBERSHIP APPLICATION \*\*\*

NAME \_\_\_\_\_ AGE \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
AREA CODE \_\_\_\_\_ HOME PHONE \_\_\_\_\_ BUSINESS PHONE \_\_\_\_\_ EXT# \_\_\_\_\_  
WHAT IS YOUR PROFESSION/VOCATION \_\_\_\_\_  
HOW LONG HAVE YOU OWNED YOUR COMPUTER \_\_\_\_\_  
DATE OF APPLICATION \_\_\_\_\_ ACCEPTED BY \_\_\_\_\_