

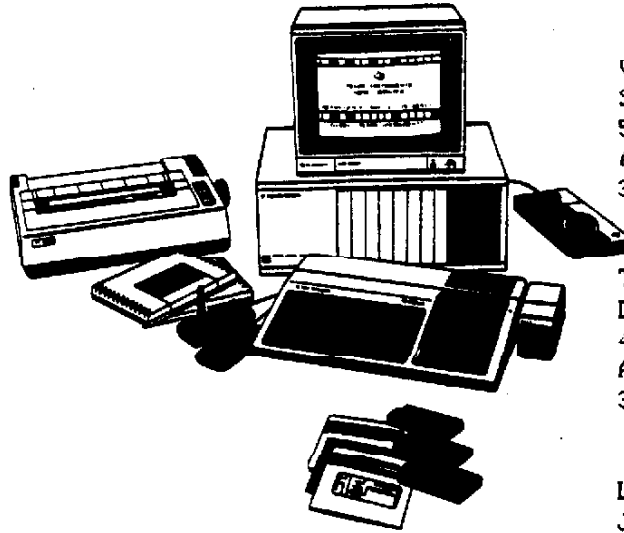
A

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MARCH 1988 NEWSLETTER
VOL 8 NUM 3

MARCH							APRIL						
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6	7	8	9	10	11	12	3	4	5	6	7	8	9
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This newsletter is the official publication of the AMARILLO 99/4A USERS GROUP, a non-profit organization serving member/users of the Texas Instruments 99/4A HOME COMPUTER and compatibles.

SAINT PATRICK'S DAY

* * * TEXAS INSTRUMENTS * * *

Do you have their number?

TI CARES : 1-800-842-2737
TI MANUALS : 806-741 2265
TECHNICAL ASS'T : 806-741-2663

The Amarillo 99/4A Users Group(AUG) releases its newsletter 12 times annually in Amarillo, Texas. Material contained within this newsletter has been freely compiled from various sources (cited when ever possible). While every attempt has been made to provide high quality factual and interesting articles, the AUG and its editorial staff cannot accept responsibility for errors in advertising or text appearing in this newsletter. Any articles concerning hardware modifications are printed with the understanding that the modifications void the warranty and are undertaken at the reader's own risk!

===== DISCLAIMER =====

The Amarillo 99/4A Users Group (AUG) is not affiliated with Texas Instruments and has no type of relationship with them, either implied or otherwise. WE are an independent non profit organization. Views expressed in this newsletter do not necessarily reflect the views of the group.

===== ADVERTISING RATES =====

For best results, each ad must be on white photocopy ready media. The AUG is not held liable for any damages exceeding the cost of advertising. Members of the AUG are permitted to advertise TI equipment in the Swap and Sell section at no cost.

FULL PAGE	\$10.00
HALF PAGE	5.00
QUARTER PAGE	3.00
BUSINESS CARD	2.00

SHARE YOUR KNOWLEDGE

Keep other TIGgers in touch with your work by contributing articles, programs and helpful tips. If you want to grow and prosper then your help is needed and appreciated by the officers and staff of the AUG. For information about submitting articles, call Sam Burton - Editor, at 352-4778.

We welcome papers, tutorials and application articles. Length should be 400-500 words. We prefer delivery by mail or on a 5 1/4 diskette using TI-Writer compatible format. Double spaced, letter quality hard copy is acceptable. Original computer art work (TI-Artist or MAX-RLE files) are welcome. Please include a short biography and author's telephone number.

MINUTESBy Steve Eggers (for Sam Burton)

The meeting was called to order by Joe Slutz at 7:12 PM.

Old Business consisted of putting the club's TI-system to work as a bulletin board for the Amarillo TI community. The BBS will be run by Steven Eggers. The TPA program will be placed in the group library. Documentation on disk will be provided.

New business consisted of a digitizer card for the TI-99/4A, and the upcoming TI-FAIR in Dallas. Several members have expressed interest in attending.

DEMOS: Joe Slutz demonstrated the speech to console hardware modification, the resistor to improve screen quality mod, and the fan change for the PE box. Steven Eggers showed arcturus, a demo program, and music maker cartridge.

The meeting broke into smaller discussion groups and the meeting was adjourned at 8:41 PM.

ATTENDING WERE: Joe Slutz, Steve Eggers, Diana Woods, Fred Dennis, Jere Lawrence, Jake Fortenberry, Frank Aleman, Erwin Kohn, Walt EddieNew Members....Corkey Billingsley, Larry DeSierra

VVV VVV PPPPPPP
VVV VVV PPP PPP
The VVVVV PPPPPPPP Downloads.
VVV PPP
V PPP

Well, it's time for another newsletter, and let me tell ya', it came up on quickly and suddenly. The first thing I want to say is that I want to thank you all for the support and help you have giving me with the Board. I have had a lot of problems with the software and Sam is helping me with that, then came the DS/DD drive problem and Fred helped me with that, then the Auto-Answer modem problem came and Joe helped with that. This is really going to be a User Group BBS.

I just recently got The Printer Apprentice and I am really anxious to work on and with this new Desktop Publisher for the TI. I have seen some articles in other user group newsletters done with the Printers Apprentice and it looks sharp. I will give demonstration at the next meeting.

Well, not much more to say so,

See you at the Meeting!!!!!!

Steve Eggers

FROM THE EDITOR:

Its March, Happy St Patrick's Day! This month we were happy to have several members renew their memberships in the group. This is not only encouraging but also a good sign for our users group. Also the new faces are great to see! I feel very up on our TI 99/4A! In fact the very first TI-FAIRE is to be held in Dallas, Texas on April 30th 1988. That's right, just next month a TI faire in our own state! I'm trying to schedule a trip down there over the weekend to see what's new. This is a very good sign the TI is still strong and kicking! Non confirmed rumors are coming out of Dallas concerning a NEW HOME COMPUTER by TI. Richard Fleetwood, president of FLUG, felt that the new computer will be MS-Dos compatible and not 99/4A compatible. I reported last month about reading in TI COMPUTING magazine, that TI would build the machine for another company, not market it under a TI label. If TI did come out with another HOME COMPUTER it will almost certainly be a DOS clone and incompatible with the 99/4A.

I have been busy organising the International Users Group Library Disks for your use. Should you like a copy of any of these programs please let me know. This newsletter has a lot to offer this month. I'm continuing the Modifications Manual, Humor Page, Swap and Sell, and Programs section of the newsletter. What do you think? If there is something you would like to see changed let me know. If you have any suggestions ...LET ME KNOW! This is our newsletter let us all work to make this group the finest in Texas. One sure way is to write me a letter, send me your graphics, and share your ideas. Send me any interesting computer articles or cartoons. I need them for the humor page. Get involved See you at the next meeting.

SAMUEL BURTON

***** TREASURER'S REPORT *****
MARCH 1988

FOR THE PERIOD MARCH 1 - MARCH 31

CASH ON HAND, BEGIN	\$ 311.26
CASH RECEIPTS	0.00
CASH AVAILABLE	311.26
CASH DISBURSED	35.00
CASH ON HAND, END	276.26

RESPECTFULLY SUBMITTED: DIANA WOODS, TREASURER AUG

HHH HHH IIIIIIIII
 HHH HHH IIIIIIIII and good day. I was sitting at home
 HHHHHHHHH III today and I got to thinking about all
 HHHHHHHHH III of the possible ways to expand the
 HHH HHH IIIIIIIII TI-99/4A. The thought about blew me
 HHH HHH IIIIIIIII out of my seat. Here in this artical,
 I am going to do a little explanation
 and list of all of the expansions for the TI-99/4A.

The first is the ultimate upgrade for the TI-99/4A, and that is MYARC's GENEVE 9640 Computer. The Geneve comes with 640k of RAM, 256 colors displayed simultaneously, the 9938 VDP chip with 7 graphics modes, TMS 9985 CPU operating at 12MHz for the speed of an 80286. The Geneve is 100% compatible with TI, Corcomp, and Myarc Disk Controllers and RS232 cards. If you have the money (\$500.00) and want a non-IBM compatible machine that runs all TI software as well as M-Dos (Myarc-Disk Operating System) software, then this is the machine for you.

The next piece of equipment is Horizon's RAMDISK. The Horizon RAMDISK has been reworked to store 1 MEG (yes! 1 Megabyte) of RAM inside of it. It is battery backed so the information will last quite a long time. If your sick of loading certain programs that you use most frequently from a drive then give the Horizon RAMDISK a try.

Do you use TI-Writer quite a bit? Don't you hate it when you print a document and your machine is locked up and you can't type until the printer is finished printing, or do hate it when your working on something important with Multiplan or TI-Writer and your wife or kids hit the console and move the foot and Speech Synthesizer and lock up the machine, or have you wondered what time it was but didn't have a clock in the room or your watch on. Then Corcomp's Triple Tech card is for you. It has a 5k printer buffer that cuts print time considerably. A Speech Synthesizer connection that lets you hide speech in the P.E. Box and that cuts 4 inches off the side of the console. It also has a Clock/Calendar built in.

Do you have a working knowledge of CP/M? Do you use CP/M at work and would like to program in CP/M on your 99/4A. Then get a CP/M card for your TI. Rught off hand I can't remember who puts out the CP/M peripheral card but, I do know how much it costs, \$425.00 mail order. I think only 2 have been sold in the U.S.

Thunderscan is a very popular program on the Macintosh. Thunderscan is an optical digitizer. Now, the TI has a digitizer it can call it own. The digitizer can be bought in built or kit form. The kit costs \$189.00 so, you can imagine what it costs built.

Then there are the numerous memory expansions for the TI made buy RAVE 99, Myarc, and Corcomp. They all do the same thing, and that is expand your TI memory to either 128k, 256k, or

512k. Corcomp only put out a 128k expansion, while all the rest put out 3 different memory expansions.

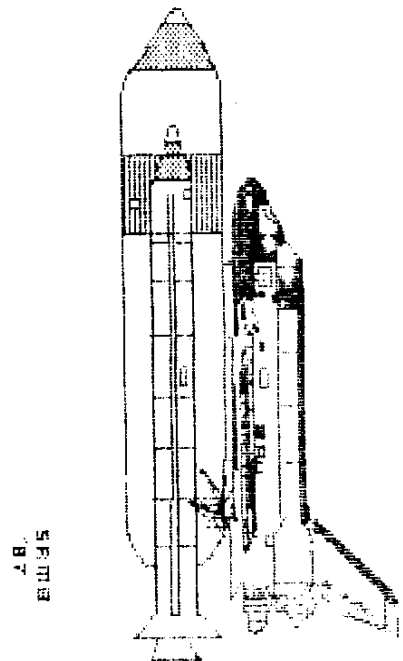
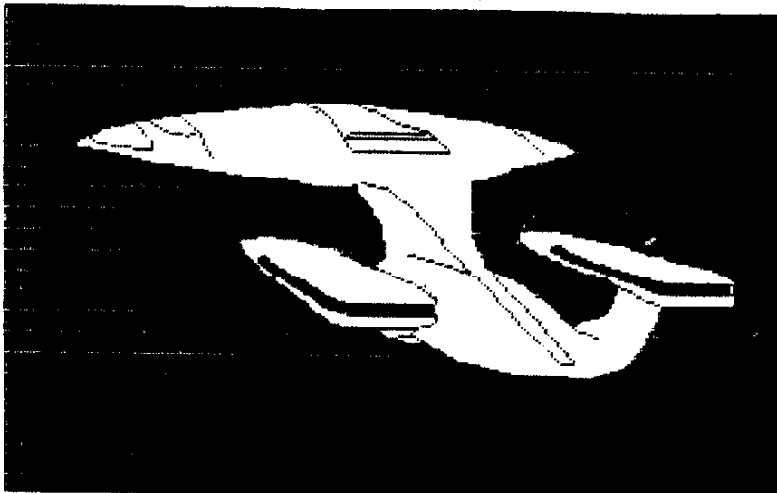
You can now buy Mechatronics 80-column card to display a full 80 columns on the screen using an RGB monitor. The 80-column card uses the Yamaha 9938 VDP to display 256 colors simultaneously. This is the same VDP used in the Geneve 9640.

You can of course buy keyboard enhancements for the TI now like I did. Rave 99 and M.L. Systems both put out keyboard upgrade for the TI for less than \$250.00.

You can also buy a Mechatronic TI-Mouse to use for mouse interfacing of programs.

Well, this little idea got rather involved but, I wanted to bring up some points and make you think about that little black and silver or beige computer sitting on you desk. I wanted to let you know that you have a very powerful computer at your disposal. All of this mentioned above is not even half of what is out for the TI. I could keep this going for another page or two. I thank you for your time and than you for reading this article. See you at the meeting!!!!!!!!!!!!!!

Steve Eggers



MSP99

XBASIC Quick Reference Sheet

ASCII Codes				Pattern-Identifier Conversion Table		Color Codes		Screen Grid Layout		
SET	CODE	CHAR	SET	CODE	CHAR	Blocks	BINARY	HEX	COLOR	CODE
0	30		7	80	P		0000	0	Transparent	1
	31			81	Q		0001	1	Black	2
	32	!		82	R		0010	2	Medium Green	3
	33	"		83	S		0011	3	Light Green	4
	34	#		84	T		0100	4	Dark Blue	5
	35	\$		85	U		0101	5	Light Blue	6
	36	%		86	V		0110	6	Dark Red	7
1	37	&	8	87	W	0111	7	Cyan	8	
	38	'		88	X	1000	8	Medium Red	9	
	39	(		89	Y	1001	9	Light Red	10
	40	)		90	Z	1010	A	Dark Yellow	11
	41	*		91	[	1011	B	Light Yellow	12
	42	+		92	\	1100	C	Dark Green	13	
	43	,		93	]	1101	D	Magenta	14
2	44	;	9	94	^	1110	E	Gray	15	
	45	-		95	_	1111	F	White	16	
	46	~		96	`					
	47	/		97	a					
	48	0		98	b					
	49	1		99	c					
	3	50		2	10	100	d			
51		3	101	e						
52		4	102	f						
53		5	103	g						
54		6	104	h						
55		7	105	i						
4		56	8	11		106	j			
	57	9	107		k					
	58	:	108		l					
	59	;	109		m					
	60	<	110		n					
	61	=	111		o					
	5	62	>		12	112	p			
63		?	113	q						
64		@	114	r						
65		A	115	s						
66		B	116	t						
67		C	117	u						
6		68	D	13		118	v			
	69	E	119		w					
	70	F	120		x					
	71	G	121		y					
	72	H	122		z					
	73	I	123		(
	74	J	124)					
7	75	K	14	125	!					
	76	L		126	"					
	77	M		127	DEL					
	78	N		128	-	131				
	79	O		132	-	135				
					136	-	139			
					140	-	144			

Joystick Values

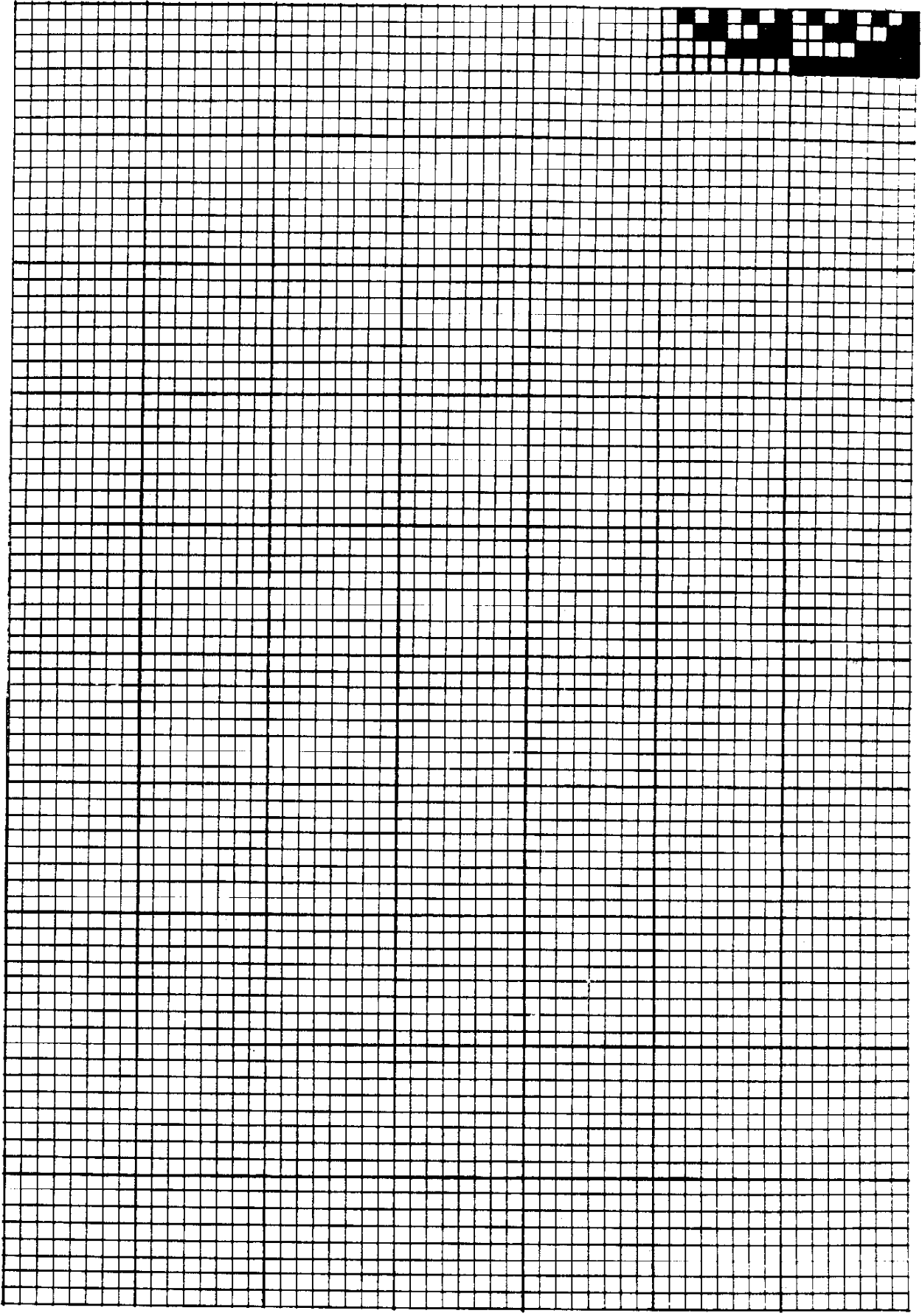
Split Console Keyboard

Musical Tone Frequencies

GRAPHIC CHARACTER DESIGN SHEET

PAGE OF

TITLE: _____
DESIGNER: _____



Bits and Bytes.....by Sam Burton

Our Users Group is listed in a national magazine , check out this month's Computer Shopper in your local bookstore.(When we get our BBS running I will try to get it listed as well.

If you need ANYTHING for your TI call 352-4778 or contact Fred Dennis at 355-3868.

Did you know that IBM no longer makes PC,XT, or AT computers anymore? I guess that those machines are "technically" also orphans now!!

IMPORTANT!!!- This coming month is the biggest TI Fair and the first one held in the state of Texas. Isn't it ironic that the home state for the TI 99/4A has never held a fair? Or even more so that Lubbock, the home town for the 99 doesn't have a users group? I'm going to this fair...are you?

DID YOU KNOW THAT TI STILL SUPPORTS THE TI COMMUNITY? Sure enough that is the sign of a good company...customer service. We usually hear negative comment from other vendors but Texas Instruments does not need to do anything for the 99er community yet still does provide information, repairs, and diagnostic aids. (I bet IBM PC jr. users wish they had that kind of support from IBM.)

RAVE 99 announces a new memory expansion of up to 2 Meg of battery backed memory. They also have a speech adaptor card for putting the speech synthesizer in the PE Box and are releasing a card to use an IBM style keyboard on the TI! I am always interested in any product announcements from these guys. Just as Steve Eggers about his Rave keyboard.....

Get your latest TI-WRITER Manual Update from Dick Altman. He rewrote that whole manual into an easier to read version. It can be run interactive with TI-WRITER to give you direct use of the instructions in a real application mode. This is available on disk from Dick at no charge! Please be sure to support the reproduction and mailing costs or he'll loose his enthusiasm. The address is DICK ALTMAN

1053 SCHRADER STREET
TEL #(415)-661-1994 SAN FRANCISCO, CA 94117

COME TO THE NEXT MEETING TO SEE HOW TO SLOW DOWN YOUR SCREEN DISPLAYS USING THE MACORMICK SLOW DOWN CIRCUIT.



FROM: ROCKY MOUNTAIN 99ERS FEB 1988 ISSUE

How many times while working on a special project have you had the whole thing come to a screeching halt, with the computer crashing, or the printer stopping, or the modem outputting unintelligent garbage or even worse smoke curling ominously out of a piece of equipment?

Times like these are very frustrating and usually after a few choice words about the "bug" that caused our particular problem, we start all over again.

Some anonymous member of the computer community has finally identified these various "bugs" and we are happy to share this information with our readers. While knowing what "bug" caused our problem will not solve it we might find satisfaction in knowing which "bug" to blame.

Below are pictures showing the various "bugs" along with their common and "scientific" names and how they affect our equipment.

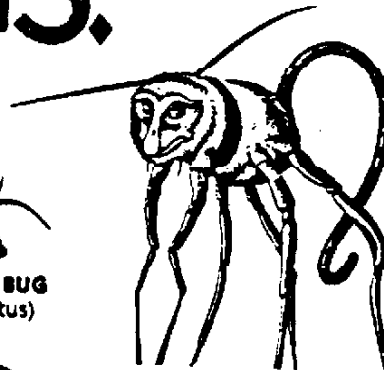
KNOW YOUR BUGS.



PYGMY JUMPING SPIKE FLY
(rapiditis bombus)



HUMPBAC SURGE BUG
(destructus abruptus)



DANCING VOLTAGE MONKEY ROACH
(disci dumpi)



CREEPING BROWNOUT FUNGUS LOUSE
(systemii interrupti)

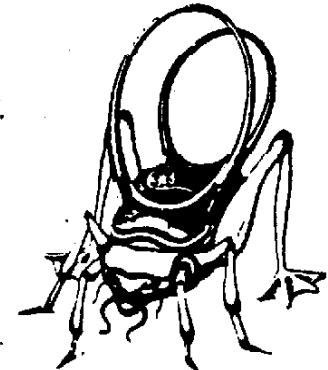


GIANT BLACKOUT ASSASSIN BEETLE
(monstrositus catastrophus)

SNOUTSUCKING SAG WORM
(datis obliteratis)



TRANSIENT STINK FLEA
(printi garbiagelli)



RINGED-ANTENNA LINEHOPPER
(signellus distorti)



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SCHEDULE A-1 **SCHEDULE A-1** (Itemized Deductions) **OMB No. 1545-0074 Attachment Sequence No. 07** **1987**

Use as shown on Form 1040

Part 1 **Medical and Dental Expenses** (Do not include expenses reimbursed or paid to others.)

1a Prescription medicines and drugs, medical, dental, optician, nurse, hospital, insurance premium you paid for medical and dental care, etc. **100**

1b Transportation and lodging. **100**

1c Other first-aid-aid bearing (not, dentures, eyeglasses, etc.) **100**

2 Add lines 1a through 1c, and enter the total here **100.00**

3 Multiply the amount on line 2 by 7.5% (0.075). Enter the result here **75.00**

4 Subtract line 3 from line 2. If zero or less, enter -0- **25.00**

5 Add the amounts on lines 4 through 7. Enter the total here. Total medical and dental **25.00**

Part 2 **Charitable Contributions**

6a Cash contributions. If you give \$2,000 or more to any one organization, report these contributions on line 14a. **100**

6b Other contributions totaling \$2,000 or more to any one organization. (Show to whom you gave and how much you gave.) **100**

7 Enter the amount on line 6a by 30% (0.30). Enter the result here **30.00**

8 Add the amounts on lines 6b through 7 and enter the total here. Total charitable contributions **130.00**

9 Add the amounts on lines 5 through 8. Enter the total here. Total itemized deductions **155.00**

Part 3 **State and Local Taxes**

10 State and local income taxes **100**

11 Real estate taxes **100**

12 Other taxes (do not include personal property taxes) **100**

13 Add the amounts on lines 10 through 12. Enter the total here. Total state and local taxes **300.00**

14 Multiply the amount on line 13 by 50% (0.50). Enter the result here **150.00**

15 Add the amounts on lines 9 through 14. Enter the total here. Total state and local taxes **455.00**

Part 4 **Gift Taxes**

16 Gift taxes **100**

17 Add the amount on line 16 to the amount on line 15. Enter the total here **555.00**

Part 5 **Capital Gains and Losses**

18 Net capital gain **100**

19 Net capital loss **100**

20 Enter the amount on line 18, if zero or less, enter -0- **100.00**

21 Add the amount on line 20 to the amount on line 17. Enter the total here **655.00**

Part 6 **Other Deductions**

22 Miscellaneous deductions not subject to 2% AGI limit (see page 20). (List type and amount.) **100**

23 Add the amounts on lines 4 through 22. Enter the total here and on line 21 **755.00**

24 Subtract line 23 from line 22. Enter the result here and on line 21 **100.00**

25 Add the amounts on lines 21 through 24. Enter the total here and on line 21 **855.00**

26 Subtract line 25 from line 24. Enter the result here and on line 21 **100.00**

27 Add the amounts on lines 21 through 26. Enter the total here and on line 21 **955.00**

28 Subtract line 27 from line 26. Enter the result here and on line 21 **100.00**

29 Add the amounts on lines 21 through 28. Enter the total here and on line 21 **1055.00**

30 Subtract line 29 from line 28. Enter the result here and on line 21 **100.00**

31 Add the amounts on lines 21 through 30. Enter the total here and on line 21 **1155.00**

32 Subtract line 31 from line 30. Enter the result here and on line 21 **100.00**

33 Add the amounts on lines 21 through 32. Enter the total here and on line 21 **1255.00**

34 Subtract line 33 from line 32. Enter the result here and on line 21 **100.00**

35 Add the amounts on lines 21 through 34. Enter the total here and on line 21 **1355.00**

36 Subtract line 35 from line 34. Enter the result here and on line 21 **100.00**

37 Add the amounts on lines 21 through 36. Enter the total here and on line 21 **1455.00**

38 Subtract line 37 from line 36. Enter the result here and on line 21 **100.00**

39 Add the amounts on lines 21 through 38. Enter the total here and on line 21 **1555.00**

40 Subtract line 39 from line 38. Enter the result here and on line 21 **100.00**

41 Add the amounts on lines 21 through 40. Enter the total here and on line 21 **1655.00**

42 Subtract line 41 from line 40. Enter the result here and on line 21 **100.00**

43 Add the amounts on lines 21 through 42. Enter the total here and on line 21 **1755.00**

44 Subtract line 43 from line 42. Enter the result here and on line 21 **100.00**

45 Add the amounts on lines 21 through 44. Enter the total here and on line 21 **1855.00**

46 Subtract line 45 from line 44. Enter the result here and on line 21 **100.00**

47 Add the amounts on lines 21 through 46. Enter the total here and on line 21 **1955.00**

48 Subtract line 47 from line 46. Enter the result here and on line 21 **100.00**

49 Add the amounts on lines 21 through 48. Enter the total here and on line 21 **2055.00**

50 Subtract line 49 from line 48. Enter the result here and on line 21 **100.00**

51 Add the amounts on lines 21 through 50. Enter the total here and on line 21 **2155.00**

52 Subtract line 51 from line 50. Enter the result here and on line 21 **100.00**

53 Add the amounts on lines 21 through 52. Enter the total here and on line 21 **2255.00**

54 Subtract line 53 from line 52. Enter the result here and on line 21 **100.00**

55 Add the amounts on lines 21 through 54. Enter the total here and on line 21 **2355.00**

56 Subtract line 55 from line 54. Enter the result here and on line 21 **100.00**

57 Add the amounts on lines 21 through 56. Enter the total here and on line 21 **2455.00**

58 Subtract line 57 from line 56. Enter the result here and on line 21 **100.00**

59 Add the amounts on lines 21 through 58. Enter the total here and on line 21 **2555.00**

60 Subtract line 59 from line 58. Enter the result here and on line 21 **100.00**

61 Add the amounts on lines 21 through 60. Enter the total here and on line 21 **2655.00**

62 Subtract line 61 from line 60. Enter the result here and on line 21 **100.00**

63 Add the amounts on lines 21 through 62. Enter the total here and on line 21 **2755.00**

64 Subtract line 63 from line 62. Enter the result here and on line 21 **100.00**

65 Add the amounts on lines 21 through 64. Enter the total here and on line 21 **2855.00**

66 Subtract line 65 from line 64. Enter the result here and on line 21 **100.00**

67 Add the amounts on lines 21 through 66. Enter the total here and on line 21 **2955.00**

68 Subtract line 67 from line 66. Enter the result here and on line 21 **100.00**

69 Add the amounts on lines 21 through 68. Enter the total here and on line 21 **3055.00**

70 Subtract line 69 from line 68. Enter the result here and on line 21 **100.00**

71 Add the amounts on lines 21 through 70. Enter the total here and on line 21 **3155.00**

72 Subtract line 71 from line 70. Enter the result here and on line 21 **100.00**

73 Add the amounts on lines 21 through 72. Enter the total here and on line 21 **3255.00**

74 Subtract line 73 from line 72. Enter the result here and on line 21 **100.00**

75 Add the amounts on lines 21 through 74. Enter the total here and on line 21 **3355.00**

76 Subtract line 75 from line 74. Enter the result here and on line 21 **100.00**

77 Add the amounts on lines 21 through 76. Enter the total here and on line 21 **3455.00**

78 Subtract line 77 from line 76. Enter the result here and on line 21 **100.00**

79 Add the amounts on lines 21 through 78. Enter the total here and on line 21 **3555.00**

80 Subtract line 79 from line 78. Enter the result here and on line 21 **100.00**

81 Add the amounts on lines 21 through 80. Enter the total here and on line 21 **3655.00**

82 Subtract line 81 from line 80. Enter the result here and on line 21 **100.00**

83 Add the amounts on lines 21 through 82. Enter the total here and on line 21 **3755.00**

84 Subtract line 83 from line 82. Enter the result here and on line 21 **100.00**

85 Add the amounts on lines 21 through 84. Enter the total here and on line 21 **3855.00**

86 Subtract line 85 from line 84. Enter the result here and on line 21 **100.00**

87 Add the amounts on lines 21 through 86. Enter the total here and on line 21 **3955.00**

88 Subtract line 87 from line 86. Enter the result here and on line 21 **100.00**

89 Add the amounts on lines 21 through 88. Enter the total here and on line 21 **4055.00**

90 Subtract line 89 from line 88. Enter the result here and on line 21 **100.00**

91 Add the amounts on lines 21 through 90. Enter the total here and on line 21 **4155.00**

92 Subtract line 91 from line 90. Enter the result here and on line 21 **100.00**

93 Add the amounts on lines 21 through 92. Enter the total here and on line 21 **4255.00**

94 Subtract line 93 from line 92. Enter the result here and on line 21 **100.00**

95 Add the amounts on lines 21 through 94. Enter the total here and on line 21 **4355.00**

96 Subtract line 95 from line 94. Enter the result here and on line 21 **100.00**

97 Add the amounts on lines 21 through 96. Enter the total here and on line 21 **4455.00**

98 Subtract line 97 from line 96. Enter the result here and on line 21 **100.00**

99 Add the amounts on lines 21 through 98. Enter the total here and on line 21 **4555.00**

100 Subtract line 99 from line 98. Enter the result here and on line 21 **100.00**

Form 2106 **Employee Business Expenses** **OMB No. 1545-0129 Attachment Sequence No. 04** **1987**

Use as shown on Form 1040

Part 1 **Employee Business Expenses**

1 Enter your expenses

2 Add lines 1 through 3. Enter the total here. Total expenses **100.00**

3 Subtract line 2 from line 1. If zero or less, enter -0- **0.00**

4 Add the amounts on lines 3 through 5. Enter the total here. Total expenses **100.00**

5 Add lines 4 through 5 and enter the total here. Total expenses **100.00**

Part 2 **Figure Any Excess Reimbursements To Report in Column 2**

6 Reimbursements for the expenses listed in step 1 that your employer did not report to you on Form 1099 **100**

7 Enter the amount on line 6, if zero or less, enter -0- **100**

8 Subtract line 7 from line 6. If zero or less, enter -0- **0**

9 Add the amounts on line 8 of both columns and enter the total here. Also add this amount to any amount shown on Form 1040, line 7. This is an EXCESS REIMBURSEMENT reportable as income **100**

Part 3 **Figure Fully Deductible Reimbursed Expenses**

10 Subtract line 7 from line 6. If zero or less, enter -0- **100**

11 Reimbursements or allowances for the expenses in Step 1 that your employer identified to you, included on Form 1099, and were not subject to withholding tax **100**

12 Enter the amount on line 11, if zero or less, enter -0- **100**

13 Subtract line 12 from line 10. If zero or less, enter -0- **0**

14 Add the amounts on line 13 of both columns. Enter here and on Form 1040, line 23. This is your FULLY DEDUCTIBLE REIMBURSED EXPENSES **100**

Part 4 **Figure Expenses To Deduct as an Itemized Deduction on Schedule A (Form 1040)**

15 Subtract line 13 from line 10. If zero or less, do not complete the rest of Part 3. **100**

16 Enter 20% (0.20) of line 15, Column B. **20**

17 Subtract line 16 from line 15. **80**

18 Add the amounts on line 16 of both columns and enter the total here. Also enter the total on Schedule A (Form 1040), line 20. (Qualified Reimbursed Expenses and handwritten entries, see instructions.) **100**

THE TIGERCUB NUTS & BOLTS DISKS

What are they? The Nuts & Bolts disks are collections of 100 or more subprograms in merge format, ready to merge into your own programs.

And what does that mean? Well, TI-99/4A Extended Basic allows the use of user-written subprograms. And what are subprograms? You know them well. CALL COLOR, CALL SOUND, CALL HCHAR - those are all subprograms which are built into the Basic language. You can write your own subprograms, to do anything that Extended Basic is capable of, and tack them onto the end of your program to be CALLED whenever you need them.

To put it in another way, using a subprogram is almost like running one program from another - except that you can access it much faster, you can pass along any values that you want to, and you can return to where you left the first program.

Also, with a disk drive you can save programs in MERGE format and then MERGE them into a program in memory. Providing that the line numbers are different, the program which you MERGE in will be added to the existing program.

The variables used in a subprogram are entirely separate from those used in the main program, therefore libraries of utility subprograms can be developed in MERGE format, and MERGED into any program without conflict.

The Nuts & Bolts disks are libraries of such subprograms. The first disk contains 100 such subprograms, plus a tutorial on using them. Disk No.2 contains 108, and No.3 contains 140 of them in 114 files. Nothing like them has ever been offered by anyone else for the TI-99/4A computer.

These 348 subprograms have been consecutively line-numbered with high line numbers so that they will not overwrite your program line numbers, and so that any number of them may be MERGED into a program without overwriting each other.

Advanced programming techniques have been used to make these routines as compact as possible, averaging hardly more than 3 sectors each, so that a hundred or more could be crammed onto a disk and so that they would add very little to the length of a program. If you are learning to program, you might learn a great deal by studying these subprograms.

Each disk is accompanied by several pages of printed documentation, explaining the use of each subprogram and giving a short demo routine which you can key in, run, and experiment with.

Many of these subprograms can be used by persons with almost no programming knowledge, to modify existing programs. For instance, a program written in Basic, which crashes with BAD VALUE when run in XBasic, will run with a simple CALL BXB, and CALL KILLQUIT will disable the infernal QUIT key. Many different screen character styles are available, as well as colorful wipes to replace CALL CLEAR.

However, it is the programmer who will find these disks truly invaluable. Even if you have the skill and ingenuity to develop these routines for yourself, wouldn't you rather just pay fifteen cents apiece for them?

The three Nuts & Bolts disks are available for \$15 each, postpaid, from Tigercub Software, 156 Collingwood Ave., Columbus OH 43213.

TIPS FROM THE TIGERCUB

#46

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

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Over 100 original programs in Basic and Extended Basic, available on cassette or disk, NOW REDUCED TO JUST \$1.00 EACH!, plus \$1.50 per order for cassette or disk and P&H. Minimum order of \$10.00. Cassette programs will not be available after my present stock of blanks is exhausted. The Mandy Dandy series, and Color Frog-reading Tutor, are no longer available on cassette. Descriptive catalogs, while they last, \$1.00 which is deductible from your first order.

Tigercub Full Disk Collections, reduced to \$5 postpaid. Each of these contains either 5 or 6 of my regular 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 - they are a free bonus!

TIGERCUB'S BEST, PROGRAMMING 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, VOCAB-

ULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

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. Reduced to \$15.00 postpaid. NUTS & BOLTS NO. 2, another full disk of 108 utility subprograms in merge format, all new and fully compatible with the last, and with 10 pages of documentation and examples. Also \$15 postpaid.

\$ NUTS & BOLTS #3 is now \$
\$ ready, another full disk \$
\$ of 140 new merge-format \$
\$ utility subprograms, all \$
\$ compatible with the pre- \$
\$ vious. With 11 pages of \$
\$ documentation, \$15 ppd. \$

TIPS FROM THE TIGERCUB, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, reduced to \$10 ppd. TIPS FROM THE TIGERCUB VOL. 2, another diskfull, complete contents of Nos. 15 through 24, over 60 files and programs, also just \$10 TIPS FROM THE TIGERCUB VOL. 3, another 62 programs, tips and routines from Nos. 25 through 32, \$10 postpaid. TIPS FROM THE TIGERCUB VOL. 4, another 48 programs and files from issues 33 through 41, also \$10 postpaid.

TIGERCUB CARE DISKS #1, #2 & #3, three full disks of text files, mostly of lessons on programming in XBasic, \$5 per disk postpaid.

This one is explained in lines 180-190. I think that it will run on any Gemini printer.

```
100 DIM B(25,12),B$(25),CH$(12),L$(12)
110 GOTO 150
120 S,K,T%,C%,V,J,A,CH$(0),X,X%,B$(1),B$(X,J),T,M,Q%,L$(1),C,C1%,C2%,L,M%
130 CALL CLEAR :: CALL COLOR :: CALL SCREEN :: CALL CHAR :: CALL KEY :: CALL NUMTH
140 !@P-
150 !SEGMENTED BAR GRAPH
    by Jim Peterson 10/87
160 CALL CLEAR :: FOR S=1 TO 12 :: CALL COLOR(S,2,B) :: NEXT S :: CALL SCREEN(5) :: DISPLAY AT(3,10):"TIGERCUB" :: DISPLAY AT(5,6):"SEGMENTED BAR GRAPH"
170 CALL CHAR(95,"3C4299A1A199423C"): DISPLAY AT(7,12):" _ 1987" :: DISPLAY AT(9,2):"For free distribution but no c":"price or copying fee may be":"charged."
180 DISPLAY AT(14,2):" Will output to a Gemini":"printer a horizontal bar-":"graph of f up to 25 bars, each":"segmented into up to 12"
190 DISPLAY AT(18,1):"values , with a title for":"each an d optionally with a":"table of identification of":"the segment symbols."
200 DISPLAY AT(24,8):"" :: DISPLAY AT(24,8):"PRESS ANY KEY" :: CALL KEY(0,K,B) :: IF S=0 THEN 200
210 ON WARNING NEXT
220 DISPLAY AT(12,1)Erase ALL: "GRAPH TITLE?" :: ACCEPT AT(14,1):T% :: T%=RPT$( " ",17 -LEN(T%)/2)&T% :: C%=CHR$(27)
230 DISPLAY AT(16,1):"HOW MANY SEGMENTS PER BAR?" :: ACCEPT AT(16,2):V% :: VALIDATE(DIGIT) SIZE(2)V% :: IF V=0 OR V>12 THEN 230
240 !@P+
250 DATA 239,229,168,251,173,175,184,236,169,250,160,207
260 !@P-
270 FOR J=1 TO V :: READ A :: CH$(J)=CHR$(A) :: NEXT J
```

```
280 DISPLAY AT(1,1)Erase ALL: "Type END when finished"
290 X=X+1 :: IF X/25 THEN J=0
300 CALL NUMTH(X,X%) :: DISPLAY AT(12,1):"Title of 'X%'" :: ACCEPT AT(14,1):B$(X) :: IF B$(X)="END" OR B$(X)="end" THEN J=0
310 FOR J=1 TO V :: CALL NUMTH(J,X%) :: DISPLAY AT(16,1):X% " segment value?" :: ACCEPT AT(18,1):VALIDATE(NUMERIC) :B(X,J) :: T=T+B(X,J) :: NEXT J
320 M=MAX(M,T) :: T=0 :: GOTO 290
330 X=X-1 :: DISPLAY AT(20,1):"Print labels? Y/N" :: ACCEPT AT(20,1):VALIDATE("YN") :S IZE(1)Q% :: IF Q="N" THEN J=0
340 FOR J=1 TO V :: CALL NUMTH(J,X%) :: DISPLAY AT(22,1):X% " label?" :: ACCEPT AT(24,1):L$(J) :: NEXT J
350 D=120/M :: C1=C%*B%*CH R$(1)&C%&"G"&C%&"E" :: C2=C% &"B"&CHR$(C)
360 OPEN #1:"PI0".VARIABLE 255 :: PRINT #1:C%&"E" :: PRINT #1:C%&"E"&C%&"G"&C%&"M"&CHR$(B)
370 PRINT #1:CHR$(14)&T%&CHR $(20):"":RPT$(CHR$(229),70) :: PRINT #1:C%&"S"&CHR$(10)
380 FOR J=1 TO X :: PRINT #1 :B$(J)&C% :: FOR L=1 TO V :: M%=M%&RPT$(CHR$(L),INT(B/J ,L)&C%,J) :: NEXT L
390 PRINT #1:RPT$(CHR$(222), LEN(M%)) :: PRINT #1:M% :: PRINT #1:RPT$(C HR$(221),LEN(M%))
400 M%="" :: PRINT #1:C1% :: NEXT J :: IF Q="N" THEN ST OP
410 PRINT #1:"":
420 FOR J=1 TO V :: PRINT #1 :C2%&RPT$(CHR$(222),10) :: PRINT #1:RPT$(CHR$(J),10)&C1%&" " &L$(J) :: PRINT #1:C2%& RPT$(CHR$(J),10) :: PRINT #1:R PT$(CHR$(221),10) :: NEXT J
430 !@P+
440 SUB NUMTH(N,M) :: IF FLAG=1 THEN 520 :: FLAG= :: RE STOP 460
450 GOTO 480
```

```

460 J,ONES(),TEENS(),TENS(),
V,N$
470 !@P-
480 DATA first,second,third,
fourth,fifth,sixth,seventh,e
ighth,ninth,tenth
490 DATA eleventh,twelfth,th
irteenth,fourteenth,fifteenth
h,sixteenth,seventeenth,eigh
teenth,nineteenth
500 DATA twenty,THIRTY,FORTY
,FIFTY,SIXTY,SEVENTY,EIGHTY,
NINETY
510 FOR J=1 TO 10 :: READ ON
E$(J):: NEXT J :: FOR J=1 TO
9 :: READ TEENS$(J):: NEXT J
:: FOR J=2 TO 9 :: FEAD TEN
$(J):: NEXT J
520 IF N<11 THEN N$=ONES$(N):
: SUBEXIT
530 IF N<20 THEN N$=TEENS$(N-
10):: SUBEXIT
540 IF N/10=INT(N/10) THEN N$
=SEGS$(TENS$(N/10),1,LEN(TENS$(
N/10))-1)&"ieth" :: SUBEXIT
550 N$=TENS$(INT(N/10))&"-&D
NES$(N/10-INT(N/10))&10)
560 !@P+
570 SUBEND

```

And a little something educational -

```

100 DIM M$(100)
110 GOTO 150
120 S,J,M$(1),A$,Z$,K,M$(1),X,
Y,ADVs,A,Q$
130 CALL CLEAR :: CALL COLOR
:: CALL SCREEN :: CALL CHAR
:: CALL KEY :: CALL ADVERB
:: CALL SOUND
140 !@P-
150 CALL CLEAR :: FOR S=0 TO
12 :: CALL COLOR(S,Z,B):: N
EXT S :: CALL SCREEN(5):: DI
SPLAY AT(3,2):"ADJECTIVE TO
ADVERB V.1.3"
160 CALL CHAR(64,"3C4299A1A1
99423C"): DISPLAY AT(5,6):"
@ Tigercub Software": " For
free distribution with no
charge or copying fee."
170 FOR J=1 TO 100 :: READ M
$(J):: A$=A$&CHR$(J):: NEXT
J :: Z$=A$ :: CALL KEY(3,K,S
)
180 M$(1)=" If adjective end
s in Y, change the Y to
ILY." :: M$(2)=" If adjectiv
e ends in C, add ALLY."

```

```

190 M$(3)=" If adjective end
s in LL, just add Y."
200 M$(4)=" If adjective end
s in LE, preceded by a con
sonant, drop the E and ad
d Y."
210 M$(5)=" If the word ends
in E preceded by a con
sonant, preceded by a vow
el, just add LY."
220 M$(6)=" This word is an
exception to the rule - the
adverb is WHOLLY."
230 M$(7)=" If the adjective
does not end in C,E,LL or
Y, always just add LY."
240 M$(8)=" This is an excep
tion to the rule. The prefer
red adverb form is DRILY."
250 M$(9)=" If the adjective
ends in E preceded by a vo
wel, drop the E and add LY
."
260 M$(10)=" If the adjectiv
e ends in E preceded by a co
nsonant other than L, ad
d LY."
270 RANDOMIZE :: X=INT(RND*LE
N(Z$)+1):: Y=ASC(SEG$(Z$,X,
1)): Z$=SEG$(Z$,1,X-1)&SEG$(
Z$,X+1,Z$):: IF LEN(Z$)=0
THEN Z$=A$
280 ACCEPT AT(24,1):M$(Y)
290 CALL ADVERB(M$(Y),ADVs,A
)
300 DISPLAY AT(12,1):" Type
the adverb form of -" :: DIS
PLAY AT(15,1):M$(Y):: DISPLA
Y AT(18,10):" :: ACCEPT AT(
15,15)BEEP:Q$
310 IF Q$=ADVs THEN DISPLAY
AT(18,10):"CORRECT!" :: GOTO
240
320 CALL SOUND(100,110,5,-4,
5):: DISPLAY AT(20,1):M$(A):
" :: GOTO 300
330 !@P+
340 DATA DUE,COOL,SOLE,STOIC
,FRANTIC,COMIC,ABLE,FULL,POO
R,HANDY,SORE,SOCIAL,PENAL,SL
OW,HIGH,LOW
350 !@P-
360 DATA FRISKY,PLAYFUL,HEAL
THY,ROUGH,BUSY,SILLY,SICK,SM
ART,SORE,FAIR,ANGRY,BARE,TIR
ED,WISHFUL,ACTUAL
370 DATA HASTY,LONE,HECTIC,O
FFICIAL,MAGIC,MAGICAL,MATHEM
ATIC,LOGIC,TRAGIC,FATHETIC,T
RAUMATIC

```

```

380 DATA DRAMATIC,AUTOMATIC,
AROMATIC,EQUAL,SERIAL,BASIC,
USUAL,FAVORABLE,UNSTABLE,LEG
IBLE
390 DATA HECTIC,LIVE,WARY,VI
SIBLE,TERRIBLE,HORRIBLE,VIVI
D,FANCY,EASY,VILE,WICKED,BLO
ODY,SHODDY
400 DATA NOBLE,HAPPY,LEGAL,M
ERRY,JOLLY,CRAZY,CASUAL,CARE
FUL,FOOLISH,FAMOUS,SAV,GUILTY
410 DATA HOPEFUL,HATEFUL,TIM
ID,BRAVE,BEAUTIFUL,DRY,NICE,
LARGE,PAINFUL,SINFUL,SORROWF
UL,SIMPLE,WILLFUL
420 DATA MENTAL,MORAL,FALE,W
HOLE,HUNGRY,FINAL,FORMAL,TRU
E,AMPLE,DOUBLE
430 !@P+
440 SUB ADVERB(M$,ADVs,A)::
L=LEN(M$):: E$=SEG$(M$,L,1):
: F$=SEG$(M$,L-1,2):: G$=SEG
$(M$,L-1,1):: H$=SEG$(M$,L-2,1)
450 IF ASC(SEG$(M$,1,1))<97
THEN A$="ALLY" :: I$="ILY" :
: L$="LY" :: Y$="Y" :: V$="A
EIOU" ELSE A$="ally" :: I$="
ily" :: L$="ly" :: Y$="y" ::
460 IF M$="WHOLE" THEN ADV$=
"WHOLLY" :: A=6 :: SUBEXIT
470 IF M$="DRY" THEN ADV$="D
RYLY" :: A=8 :: SUBEXIT ELSE
IF F$="LL" OR F$="ll" THEN
ADV$=M$&Y$ :: A=3 :: SUBEXIT
480 IF E$="C" OR E$="c" THEN
ADV$=M$&A$ :: A=2 :: SUBEXI
T ELSE IF E$="Y" OR E$="y" T
HEN ADV$=P$&I$ :: A=1 :: SUB
EXIT
490 IF E$<>"E" AND E$<>"e" T
HEN 530
500 IF G$="L" OR G$="l" THEN
IF POS(V$,M$,1)<>0 THEN ADV
$=M$&L$ :: A=5 :: SUBEXIT EL
SE ADV$=F$&Y$ :: A=4 :: SUBE
XIT
510 IF POS(V$,G$,1)<>0 THEN
ADV$=P$&L$ :: A=9 :: SUBEXIT
520 IF POS(V$,SEG$(M$,L-2,1)
,1)=0 THEN ADV$=M$&L$ :: A=1
0 :: SUBEXIT ELSE ADV$=M$&L$
:: A=5 :: SUBEXIT
530 ADV$=M$&L$ :: A=7 :: SUB
END

```

100 !MOCKINGBIRD TINYGRAM by
Jim Peterson. Tap your
tune on the 1 to 0 keys

```

(tuned A through G)
110 !Then press any other
key to hear it repeated
120 DATA 220,247,262,294,330
,349,372,440,474,520
130 FOR J=1 TO 10 :: READ N(
J):: NEXT J :: C=0 :: DIM T(
50,2)
140 CALL KEY(5,K,S):: IF S=0
THEN 140
150 ON ERROR 190
160 CALL KEY(5,K,S):: IF K=
1 THEN 150 :: K=K-(K=48)*10
:: T(J,1)=N(K-48):: CALL SOUN
D(N(K-99),T(J,1),0)
170 IF K=K2 THEN T(J,2)=T(J,
2)+1 :: GOTO 160
180 K2=K :: J=J+1 :: GOTO 16
0
190 FOR X=0 TO J-1 :: CALL S
OUND(T(J,2)-1)*400,T(X,1),0
,T(X,1)*1.01,0):: NEXT X ::
J=0 :: GOTO 140

```

A little subprogram to add a bit of variety to your "PRESS ANY KEY" routine.

```

1 CALL CLEAR :: CALL FRESSKE
Y(24)
30000 SUB FRESSKEY(R)
30001 C=C+1 :: IF C=16 THEN
30002 :: DISPLAY AT(R,1):"
:: DISPLAY AT(R,C):"PRESS AN
Y KEY" :: DISPLAY AT(R,C):"p
ress any key" :: CALL KEY(0,
K,S):: IF S=0 THEN 30001 ELS
E 30003
30002 C=C-1 :: IF C=0 THEN 3
0001 :: DISPLAY AT(R,1):" "
: DISPLAY AT(R,C):"PRESS ANY
KEY" :: DISPLAY AT(R,C):"pr
ess any key" :: CALL KEY(0,K
,S):: IF S=0 THEN 30002
30003 DISPLAY AT(R,1):" " ::
SUBEND

```

And a new way to wipe the screen -

```

1 CALL CORNERWIPE(30)
29000 SUB CORNERWIPE(CH):: F
OR T=1 TO 24 :: CALL HCHAR(T
,3,CH,T+4):: CALL HCHAR(25-T
,32-T,CH,T):: NEXT T :: CALL
CLEAR :: SUBEND

```

MEMORY FULL
Jim Peterson

Mechatronic TI-Mouse -- A Review

I recently recieved a Mechatronics TI-Mouse for my system. Let me ya', it is very slick to use and easy to interface with other programs. It was an easy decision, to make a Texas Instruments computer more user friendly.

When you recieve the TI-Mouse in the mail, you get: a mouse, an AC adapter to power the PC board inside the mouse, a 20 page user manual, and a disk with some demo programs. The disk consits of 4 main programs and they are:

1. BASIC - This allows you to run Basic programs.
2. TI-DOS - This allows you to have full disk access, cataloging 1 to 3 drives, reading DISPLAY type files, protecting/unprotecting files, loading Extended Basic programs.
3. CALCULATOR - This program uses an icon finger to push the buttons on the face of a calculator.
4. BREAKOUT - The game of Breakout is availible on every machine ever invented that could play a game of some sort. The mouse adds a new dimension to the game.

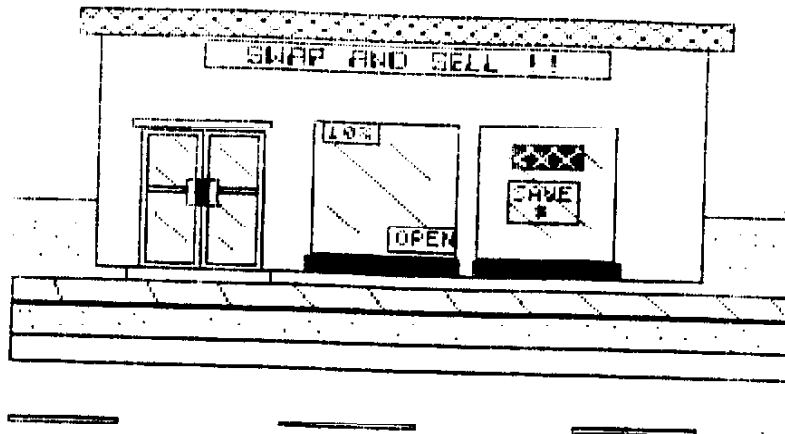
The manual notes that the disk that is supplied with the mouse is only a demo program, and there is a more complete TI-Dos package availible thru Mechtronics.

I recently got my hands on the latest version of TI-Artist. On the TI-Dos demo there is a file on the disk called MAUS, this file allows you to interface the Mechatronic mouse with TI-Artist. So, I loaded TI-Artist and loaded MAUS thru option 3, INPUT DEVICE, and then loaded TI-Artist. When TI-Artist came to the screen the action from the mouse was flawless and a beauty to work with.

I rate the Mechatronics TI-Mouse an A+ for design, layout, and ease of use. My mouse cost \$130.00 but, you can find it cheaper thru some mail order companies.

If you are looking for a rather inexpensive and quite useful piece of equipment for your TI, why not give this a try.

Steve Eggers



WANTED: TI COLOR MONITOR in good shape.....
Call Sam Burton 352-4778 after 6 PM

FOR SALE: Complete TI system.....\$1700.00
Contact Fred Dennis for details!!

Wanted :Your sellable TI items....call Sam Burton

FOR SALE: Various Cartridge Games (\$5-10)
2 Modems 300 baud rate
TI-Writer in Original unopened package
Multiplan " " " "

PE-BOX (32K,disk controller,ss Shugart drive,RS 232
flex cable, all cards original TI equipment)
\$320.00

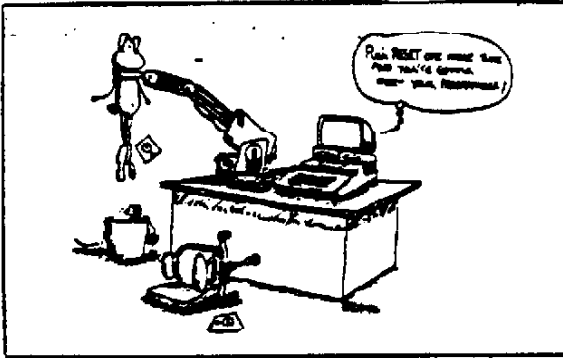
32k memory expansion card (TI original) \$90.00
RS 232 card (TI original) \$80.00

TI tape recorder with cables \$45.00
Call Sam Burton

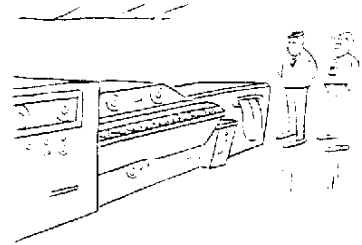
FOR SALE: Mechatronics Mouse for your TI system.. works with
TI-Artist. Call Steven Eggers \$150.00

NOTICE: The Swap and Sell section of this newsletter is
provided for your computer needs. Should you have an item to
sell or swap let the editor put your ads here at NO CHARGE.

COMPUTER HUMOR



"Push RESET one more time and you're going to meet your programmer!!"



"The entire package mailing job is done by computer here - including sealing the envelope."

Personal Selling Power—January/February 1988



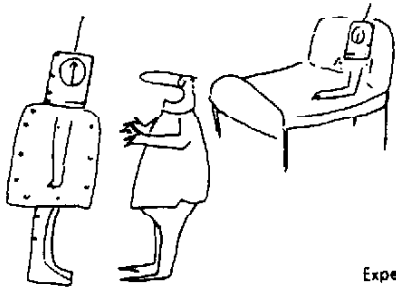
"Can it remember anniversaries?"



"These educational packages sure have learned me a lot, Dad!"

MSP 99 NEWSLETTER

DECEMBER 1987



I realize it's a name to be proud of. But you can't call the baby IBM—it's copyrighted.

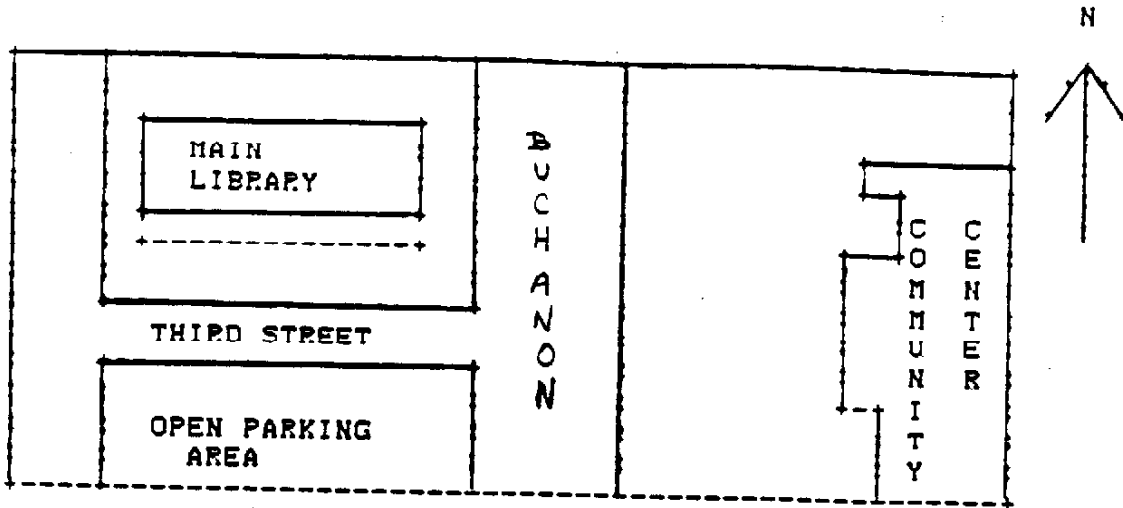
Expecting



RESEARCH ARTICLES

11 MARCH 1988

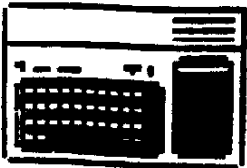
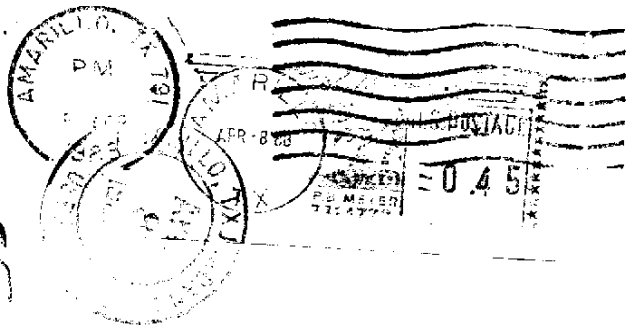
AUG MEETING LOCATION MAP



MEETINGS ARE SECOND MONDAY OF EVERY MONTH AT 7:00 PM
IN MEETING ROOM ON SECOND FLOOR OF MAIN LIBRARY...I'LL
SEE YOU THERE!

Amarillo 99/4 Users Group
P.O. Box 8421
Amarillo, TX. 79114

FIRST CLASS



TO
UG DALLAS TIUG %JOHN HODGES
P.O. BOX 29863
DALLAS, TX 75229