#### NATIONAL IMAGINATION COMPUTER CLUB

\* 515 Shadylane-Barrington-Illinois-60010

#### NOVEMBER/DECEMBER 1982

#### URGENT!IMPORTANT!LAST CHANCE!ACT NOW

- 1. Join the ALL NEW, GREATLY IMPROVED 1983 COMPUTER CLUB before 12/25/82 for ONLY \$10.00 SAVE \$5.00. If you don't send in your club application before 12/25/82, you won't get the SUPER-DUPER JANUARY 1983 CLUB LETTER!! It will also cost you \$15.00 to join after 12/25/82.
- 2. LAST CHANCE to buy programs and peripherals from Protecto Enterprises at CLOSE OUT PRICES!! Limited quantities are availabe!
- 3. New improved sales and service for APF Computer Owners!!!

Jim and Milly Brewer - Box 1411, Springdale, Arkansas 72764 Phone 501-756-6394 - will provide complete support after 12/25/82:

- a. The will handle ALL service—
  send your computer to Jim Brewer 1403 Willard,
  Springdale, Arkansas 72764 UNITED PARCEL SERVICE
  PREPAID.
- b. They will stock and sell all programs and peripherals for the APF computer.
- c. They will also provide NEW PROGRAMS and EXPANSION CAPABILITIES.

#### YOU'LL FEEL LIKE A MILLION!!!!!

\*

ANSWERS/TIPS/QUESTIONS FROM OTHER CLUB MEMBERS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FROM BILL LUNQUIST OF WYOMING, MICHIGAN

In the June, 1982 newsletter, there is a letter on how to modify the MPA-10 for 16K of RAM. The letter is apparently based on the theory, since it doesn't work as presented. I will now explain how I did this modification. (The club apologizes to all members who tried this modification, we were unable to test it prior to publication.)

Set the MPA-10 upside down on your work surface and remove the screws which hold the bottom of the case on. After removing the case bottom, remove the screws which hold the main circuit board in place. Un-solder the ground strap that comes from the cassette, where it attaches to the main board cover. Unplug the four plugs which attach the board to the cassette and keyboard. Remove the board from the MPA-10 case and set the case aside. Next, remove the metal shields from the cirucit board. The top shield can be removed by straightening the bent tabs. The bottom shield must be un-soldered.

The description of what chips are necessary is correct. You just need to remove the 8K chips and install the 16K versions. I installed a 14 pin socket (Radio Shack #276-1999) in the open area to the right of U4 and U5. The whole board is grounded here so you need to remove the conducting surfaces on both sides of the board. I drilled the 14 holes using a piece of project board as a guide.

Using wire wrap wire, I ran 5 volts to pin 14 of the new socket from pin 16 of U5. Pin 7 of the new socket should go to the ground. I did not cut the foil away from that pin, so all I had to do was solder it to the foil.

The chip which goes in this new socket is a 74LSO8, also available from Radio Shack. As described in the June article, the inputs to this AND gate (pins 4 & 5) should go to pins 10 and 11 of U5. This is very easy to do with wire wrap wire since U5 is only about 1 1/2 inches away from the new socket. Pin 6 of the new socket goes to resistor R6. I did this connection by un-soldering the end of R6 nearest the metal shield and lifting it up. I then soldered a piece of wire wrap wire to the lifted end of the resistor. I ran this wire through a hole already in the board near the new chip and connected the other end to pin 6 of the new chip.

So far this is exactly what was covered in the June article. There is one more thing to do before the new memory will work. The jumper which either sent ground or +5 to pin 10 of U3 must be removed and replaced with another jumper to supply pin 10 of U3 with the BA13 signal. First remove the jumper that is to the left of U6. The new jumper, soldered to the underside of thew board, should go from the old jumper connection nearest to the memory chips, to pin 26 of the J connector socket. Looking at the underside of the board, this is the third pin on the top row of the J connector socket. There is a handy hole just to the left of the socket which is connected to this pin. You can use an ohm meter to verify that this is the same connection that goes to pin 1 of U7.

You are now done. Put the MPA-10 back together. I didn't bother to re-solder the cover. I don't think it is necessary, and if you did goof, it would be one more thing you would have to do to make corrections. You should re-solder the ground strap, however.

I have made one other change to my APF computer. I have built a modification for the MP-1000 which causes the computer to go into a new monitor if a program crashes or you press the reset key. It means that you no longer loose your BASIC or machine language programs if an error occurs. The monitor has many features which are usable by both BASIC and machine language programmers. It is really great to no longer see "APF BASIC" appear if I forget a ")" on a BASIC statement. Now I get a different cursor, press one key, and go back to BASIC with my program still there. This MP-1000 modification should be available soon from Bob Eisman.

After you have completed the 16K modification, you will notice that your 8K tapes don't load correctly. This is because the computer wants to load all of RAM from tape. To get around this problem, poke 41446,191. Load your tape, poke 41446,223, and re-save your program. Memory locations 41446 and 41447 are used by the APF as indicated end of memory. When you save or load a tape, the APF looks at these locations to determine how much memory to load or save.

```
**************************************
PROGRAMS FROM OTHER CLUB MEMBERS
************************
SQUARE ROOT ONLY
        ..... FROM JOHN PIERCE OF CLAYTON, UTAH
 10 INPUT "NUMBER = ", N
    IF N<=0 GOTO 10
 20
 30 X=1
 40 X = .5 * (X + N/X)
   IF ABS (X*X/N-1)<.0001 GDTD 70
 50
 60 GOTO 40
 70 PRINT "THE SQUARE ROOT OF ";N;" IS ";X
 80 END
************************
SQUARE & CUBE ROOTS
                                                   B.
       .....ALSO FROM JOHN PIERCE
10 INPUT "NUMBER = ", X
20 INPUT "ROOT (2 OR 3) = ",R
30 INPUT "# OF DECIMMAL PLACES OF ACCURACY", S
40 IF R<0 PRINT "ROOT MUST BE 0 OR LARGER": GOTO 10
50 IF R=0 THEN P=1: GOTO 140
60 P=X/R
70 FOR Y=1 TO 100
80 Z=P
90 RR=R-1
```

110 IF ABS (Z-P)/( ABS (A)+ ABS (P))<.001 GOTO 130

130 P= INT (P\*10^S+.5)/ INT (10^S+.5)

140 PRINT "THE ";R;" ROOT OF ";X;" IS ";P

100 P=(X/P^RR+RR\*P)/R

120 NEXT Y

150 END

```
SHAPE
            ...... from CHUCK RATHGEBER of Virginia
       This program will demonstrate all of the lo-resolution graphics
       shapes and paints them in all colors, one shape at a time.
1 REM -CHUCK RATHGEBER
10 CALL 17046
20 POKE 24578,54
30 FOR S=1 TO 15
40 SHAPE =S
50 FOR C=0 TO 8
60 COLOR =C
70 FOR X=0 TO 31
80 FOR Y=0 TO 15
90 PLOT X.Y
100 NEXT Y: NEXT X: NEXT C
110 CALL 17046
120 NEXT S
        SNAKE
             ..... from RON ROADY of Oxnard, California
1 POKE 24578,38
2 REM -RON ROADY
5 CALL 17046
10 ,DIM R$(1): DIM L$(1)
15 PRINT "DON'T SIT STILL!!!": PRINT "YOU MUST KEEP MOVING!!!": PRINT "PRESS RE
TURN KEY WHEN READY": INPUT S
20 SHAPE =15: CALL 17046
30 XA=31: YA=0: XB=0: YB=15: RC=-3: LC=-3: RFLAG=0: LFLAG=0
40 X1=XA; Y1=YA; X2=XB; Y2=YB
44 IF RC=2ANDLC=2 THEN PRINT "NOBODY WINS": GOTO 530
45 IF RC=2 THEN PRINT "RED WINS": GOTO 510
4& IF LC=2 THEN PRINT "BLUE WINS": GOTO 510
50 R4= KEY$ (1):L4= KEY$ (2)
100 IF R$="N" THEN YA=Y1-1: IF YA<O THEN YA=O
110 IF R$="S" THEN YA=Y1+1; IF YA>15 THEN YA=15
120 IF R$="E" THEN XA=X1+1: IF XA>31 THEN XA=31
130 IF R$="W" THEN XA=X1-1: IF XA<O THEN XA=O
150 IF L$="N" THEN YB=Y2-1: IF YB<0 THEN YB=0
160 IF L$="S" THEN YB=Y2+1: IF YB>15 THEN YB=15
170 IF L*="E" THEN XB=XB+1: IF XB>31 THEN XB=31
```

PAGE5

#### SNAKE (continued)

```
180 IF L#="W" THEN XB=XB-1: IF XB<0 THEN XB=0
200 IF PEEK (512+YA*32+XA)<>128 THEN XA=X1:YA=Y1:RC=RC+1: 80TO 210
205 RC=0
210 IF PEEK (512+YB*32+XB)<>128 THEN XB=X2:YB=Y2:LC=LC+1: 80T0 300
220 IF XB=XAANDYB=YA THEN XB=X2:YB=Y2: GOTO 300
225 LC=0
300 COLOR =2: PLOT XA, YA: COLOR =3: PLOT XB, YB
310 IF PEEK (512+(YA+1) *32+XA)=128 THEN GOTO 400
320 IF PEEK (512+(YA-1) *32+XA)=128 THEN GOTO 400
330 IF PEEK (512+YA*32+XA+1)=128 THEN GOTO 400
340 IF PEEK (512+YA*32+XB-1)=128 THEN GOTO 400
350 RFLAG=1
400 IF PEEK (512+(YB+1)*32+XB)=128 THEN GOTO 450
410 IF
       PEEK (512+(YB-1) *32+XB)=128 THEN GOTO 450
420 IF PEEK (512+YB*32+XB+1)=128 THEN GOTO 450
430 IF PEEK (512+YB*32+XB-1)=128 THEN GOTO 450
440 LFLAG=1
450 IF RFLAG<>1AND IF LFLAG<>1 THEN GOTO 40
460 IF RFLAG=1AND IF LFLAG<>1 THEN PRINT "RED WINS": GOTO 510
470 IF LFLAG=1AND IF RFLAG<>1 THEN PRINT "BLUE WINS": GOTO 510
480 PRINT "NOBODY WINS": GOTO 530
510 MUSIC "104060*1 6 *100"
520 STOP
530 MUSIC "-/50000 -/1000000"
540 END
```

\*

DOODLE

30 PDKE 586,5: PDKE 602,84

10 A=8193: POKE A,60

```
12 POKE A+1,158

13 REM SETUP SHAPES IN SHAPE TABLE

14 B=512: GOSUB 100: GOSUB 105

16 B=544: GOSUB 101: GOSUB 106

18 B=576: GOSUB 100: GOSUB 106

20 B=608: GOSUB 101: GOSUB 105

22 B=640: GOSUB 101: GOSUB 105

24 B=656: GOSUB 100: GOSUB 106

26 B=672: GOSUB 101: GOSUB 106

27 REM FILL-IN NON-STANDARD SHAPES

28 POKE 522,85: POKE 570,85
```

#### DOODLE (continued)

NEXT X: RETURN

109

POKE 618,84: POKE 634,5 32 34 POKE 650,85: POKE 666,85 36 POKE 682.5: POKE 698.84 40 REM CLEAR SCREEN WITH GREEN FIELD FOR X=0 TO 383 42 44 POKE X,1: NEXT X 45 PLACE CURBOR IN CENTER OF SCREEN 46 P=176 47 CHANGE COLOR GROP OF CURRENT CURSOR POSITION REM 48 POKE P, ( PEEK (P)+64) 49 IF A KEYBOARD KEY IS PRESSED RETURN TO BASIC MONITOR 50 IF ASC ( KEY\$ (0))=0 THEN 54 POKE A,52: POKE A+1,30: END 52 53 GET A KEY FROM THE RIGHT HAND CONTROL 54 K= ASC ( KEY\$ (1)) 55 REM RETURN TO CHECK BOTH KEYBOARDS IF NO KEY PRESSED 56 IF K=0 THEN 50 57 REM IF KEY IS AN NUMBER KEY BRANCH 58 IF K<65 THEN 80 59 REM DIRECTION KEY: DECODE AND MOVE CURSOR 60 IF K=69 THEN I=1: GOTO 68 62 IF K=78 THEN I=-32: GOTO 68 IF K=83 THEN I=32: GOTO 68 66 I≖-1 67 CHECK IF NEW POSITION IS WITHIN FIELD REM 68 K=P+I: IF K<0 THEN 50 70 IF K>382 THEN 50 71 CHANGE COLOR OF OLD CURSOR, PLAY ANOTE, AND UPDATE CURSOR 72 POKE P. ( PEEK (P)-64) 74 P=K: MUSIC "1": GOTO 48 79 REM DECODE THE NUMBER KEY TO A SHAPE IF K=63 THEN I=10: GOTO 86 82 IF K=33 THEN I=11: GOTO 86 84 I=K-48 85 REM PLACE THE NEW SHAPE, PLAY A NOTE AND RETURN FOR NEW KEY POKE P. I: MUSIC "7": GOTO 48 SET THE UPPER ROW OF DOTS IN TWO ROWS IN SHAPE TABLE 100 C=0: GDTD 102 101 C=4 102 FOR X=0 TO 10 103 POKE B+X,C: POKE (B+X+16),C 104 NEXT X: RETURN 105 C=0: GOTO 107 106 C=4 107 FOR X=11 TO 15 108 POKE B+X,C: POKE (B+X+16),C

#### Other Special News:

Protecto Enterprizes apologizes for delays in shipping orders. Their objective is always to ship the following day after an order is placed and to give two to seven days delivery on phone orders anywhere in the USA.

The problem on delayed orders was caused when the 28 below zero weather hit the New York area. It froze the water main on the third floor of the warehouse where the 23K IM-1 computers and peripherals were stored on the first floor. This completely flooded the first floor and ruined all the computers and peripherals. We had to bring in all new merchandise to replace the computers causing a 60 to 90 day delay. At the same time we sold out all the computers (several thousand) we planned for this sale! (We planned this sale for six months and sold out in 30 days.)

We are now shipping all orders. We are shipping about two weeks later than we promised. We still have not been able to get any peripherals and do not expect to be able to ship peripherals back orders before June 1, 1982. (BUILDING BLOCKS-RAM CARTINGES-RSL32 CARTINGES-BISKS)

We do have all the programs in stock we show on our price list as they were stored in another warehouse and were not affected by the flood. There are a lot of good programs available from other firms, and we will advise club members of these programs in future club letters.

So please have patience. We are dedicated to giving APF IM-1 owners the best possible service and continued program support.

P.S. WENEED PROGRAMS AND SUGGESTIONS FROM
YOU TO MAKE DUR CLUB SUCCESSEUL!



# Product Catalog and Price List

COMPUTER PRODUCTS JANUARY 1, 1982	LIST PRICE	*FACTORY PRICE
23K APF IM-1 COMPUTER. Includes 14,000 Bytes ROM with BASIC built in,	\$599.00	\$239.00
9000 Bytes User RAM, Color, Sound. Professional 53 keyboard, Two		
controllers, Two 10 key numeric pads, High speed cassette, A. C. adapter,		
R. F. Modulator, T.V. switch box. Accepts TAPE-DISK-PLUG in cartridges.		
It is plug in expandable. 90 days parts and labor warranty, Owners guide,		
BASIC language manual, Beautiful Black & White Console Case.  23K APF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus	698.00	289.00
"BASIC TUTOR program" on two tape cassettes with manual to teach you how	090.00	209.00
to cut programming time, "PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL"		
for Graphics, Machine Language-Memory maps, Schematics and Parts List.		
Also you get the popular "SPACE DESTROYERS Program."		
BB-1 BUILDING BLOCK INTERFACE. This plug in interface allows you to use	199.00	79.50
the 23K IM-1 computer to its fullest degree. It contains 4 universal		
ports to add: RAM memory, Printers, Telephone Modem, and Floppy Disk		
drives. (5.00 shipping)		
8K-RAM EXPANSION. Plug into interface port to increase your RAM memory	129.00	79.50
8192 Bytes. (3.00 shipping)	140.00	~~ <b>6</b> ~
SI-232 SERIAL INTERFACE. Plug in to interface port to connect printers and telephone modems. (3.00 shipping)	149.00	79 <b>.5</b> 0
MX-80 EPSON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc-	726.00	499.00
tional, 40-80-66 132 columns-uses regular paper. Includes serial port.	720.00	499.00
(20.00 shipping)		
TM-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex,	199.00	129.00
switches! Originate-off-answer. (4.00 shipping)		
FI-100 DISK INTERFACE. Plug into interface port - allows you to	149.00	79.50
connect the floppy disk drive. (\$3.00 shipping)		
D-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own	599.00	399.00
power supply and controller - uses no RAM memory, give you 72,000		
Bytes of additional data storage, plus instant loading and accessing		
of data. (7.50 shipping)		
BROOD AND TANGULOR ATEG	FACTORY	**CLUB
PROGRAMMING AND LANGUAGE AIDS	PRICE	PRICE
BASIC TUTOR. This program includes two cassette tape programs with a	49.95	29.95
243 page manual - Teaches you how to use the simplified Level II BASIC cuts programming time - a must for beginners and professionals.		
PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory	19.95	14.95
maps, machine language, schematics, and parts list.	17.77	14.93
6800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to	59.95	29.95
create source code file - this file is then used as the assembler -	37175	
simplifies entry or editing, adding, deleting, change in lines, etc.		
6800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging,	19.95	14.95
and recording of machine language.		
DISK COPIER PROGRAM. Allows you to make duplicate copies of all disk	19.95	9.95
programs written for the APF-IM-1. **NATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices -		1
programming assistance-new developments-program exchange-factory sponsored.		15.00
ro assistance new developments-brokram exchange-ractory sponsored.		

We ship C.O.D., Honor Visa and MASTER CARDS

\*Add \$15.00 for shippping - if C.O.D., add \$5.00 more.

\*\*Add \$3.00 for postage - if C.O.D., add \$2.00 more.

## PROTECTO

ENTERPRIZES (FACTORY - DIRECT RELIABILITY)

BOX 550, BARRINGTON, ILLINOIS 60010 - Phone 312/382-5244 to order

MANAGEMENT PROGRAM TAPES	FACTORY PRICE	**CLUB PRICE
ELECTRONIC FILES This is a computer filing system that allows you to	\$ 29.95	\$ 19.95
keep track of names, addresses, and other records.  BAR CHARTS Color charts for comparisons, year to year category by	19.95	14.95
category - See your situation at a glance!  TYPING TUTOR Learn typing at your own speed-unique program-Computer	29.95	19.95
designs and changes to fit your ability.  CHECK BOOK BUDGET MANAGER Faster way to balance your check book- Balance your budget - Keep tax records, etc!	29.95	19.95
BUDGET MANAGER Day by day, week by week, 3 categories, including food, medical, automotive - even summary reports.	19.95	14.95
PERSONAL BUSINESS MACHINE Calculate loans, interest, principle payments, loan payments, etc.	29.95	19.95
BILLBOARD Great for creating messages in sound, color, and graphics with a beautiful display.	19.95	14.95
SPACE SIZE AND SURFACE GUIDE Great for home improvements, figure your material needs - How much Paint - Carpeting - Fertilizer, etc.	29.95	19.95
MATH TUTOR Great for improving math skills at any age level, based on personal ability - a private tutor with lots of fun.	29.95	19.95
THE WORD FACTORY A spelling game that's fun - spell name of object pictured - great to improve your kids spelling skill and adult to!	19.95	14.95
SPELLING DUEL Challenging and educational. Great fun with combination spelling and crossword game!	19.95	14.95
JUMBLED UP THINGS Create words from jumbled up letters against the clock - Great educational program to improve your memory.	29.95	19.95
PERCEPTION Learning game - Two players any level compete - Improves your ability to solve problems.	19.95	14.95
ARTIST AND EASEL Great color art program for those who like to paint, doodle - Save your masterpiece - Use your imagination.	19.95	14.95
MUSIC COMPOSTER Practice on keyboard, select key and tempo, write a tune and record it.	19.95	14.95
SPACE DESTROYERS The most popular space game played - Hold off the invaders, save the earth from destruction!	29.95	19.95
GAME CARTRIDGES	FACTORY PRICE	**CLUB PRICE
HANGMAN Tic-Tac-Toe, Doodle. Two competitive games, plus the electronic	\$ 19.95	14.95
art of Doodle. U.F.O. Shoot-a-Lot, Sea Monsters, Break-it-Down. Two great adventures in	19.95	14.95
space and the deep, and two challenging carnival games.  SHOOTING GALLARY Brickdown-it takes smart shooting to get all bricks, and	19.95	14.95
a steady aim.  PINBALL Blockout, Dungeon Hunt, Electronic flippers and tricky ball speed	19.95	14.95
changes in pinball. In Dungeon, search and score.  CASINO Roulette, Keno, Slot Machine. All games are played by the real	19.95	14.95
Las Vegas rules. Even has the authentic sounds of the casino, too!  BLACK JACK Great practice! You'll really clean up at the real thing!	19.95	9.95
Smart decisions, not always luck, determine if you beat the machine.  BASEBALL THE GREAT American pastime can still be great - even when the weather isn't.	19.95	14.95
BOXING Features 2 boxers battling toe to toe like Dempsey and Firpo!  6 variations.	19.95	14.95
BACKGAMMON This ancient game has never been more popular - and it really comes to life in all the colors of your TV screen.	19.95	14.95
CATENA Surround your opponent, but watch out for the last minute reverses	19.95	14.95
WARRANTY - 90 DAYS PARTS AND LABOR If unit fails within 90 days of purchase send unit and sales receipt prepaid via United Parcel Service to PROTECTO ENTERPRIZES at address shown. We will ship you a replacement unit within 48 hours of receipt prepaid.	-	
SERVICE MANUAL Detailed service instructions and pictures for those who want to service their computer.	19.95	14.95

#### APF-IM-1 OWNERS

#### SANTA CLAUS SALE!!

#### LIMITED QUANTITIES - ENDS 12-25-82

- 1. ALL TAPE PROGRAMS AND CARTRIDGES 1/2 PRICE!

  Now you can afford to give your computer a Christmas present,

  (get the complete library of tapes and cartridges available)
- 2. ALL EXPANSION PERIPHERALS ONLY \$49.50 EACH
  Building Block! 8K RAM Cartridges! RS232 Cartridges!
  FI 100 Disk Interface Cartridges!
- 3. FLOPPY DISK DRIVE ONLY \$299.00
  (While they last!)
- 4. ALL NEW 1983 COMPUTER CLUB
  - A. New name "IM-1 in a Million"
  - B. New Club President Milly BrewerP. O. Box 1411, Springdale, Arkansas 72764
  - C. Guaranteed delivery will refund \$1 for any month you don't get your club letter.
  - D. Money back guarantee. You can cancel any time and be refunded \$1 per month you don't get the club letter.
  - E. Guaranteed clear copies if you can't read the club letter we'll refund \$1 for any issue.
  - F. Monthly technical and service articles!
  - G. EARLY CLUB MEMBERSHIP SIGN UP BONUS \$5.00 if you submit your new 1983 club application and fee direct before 12-25-82 to Milly Brewer (new 1983 president) you pay only \$10.00 instead of the regular \$15.00 annual fee.

DON'T MISS THIS SALE - REMEMBER LIMITED QUANTITIES ARE AVAILABLE!

39 BD

### IM-1 MILLION

in a

\_\_\_\_\_

#### Club Member

AT THE END OF THE CURRENT SUBSCRIPTION YEAR THE NATIONAL IMAGINATION COMPUTER CLUB WILL BECOME THE 'IM-1 IN A MILLION' UNDER TOTALLY NEW MANAGEMENT.

THE NEW POLICY IS TO UPGRADE EVERYTHING THAT HAS GONE BEFORE.
THE 'IM-1 IN A MILLION' WILL MAINTAIN THE MINIMUM OF 10 PAGES
PER ISSUE, ISSUED MONTHLY. HOPEFULLY, AS SUBSCRIBERS CONTACT US, EVEN MORE. WE'LL TRY TO CONTINUE THE CLUB DISCOUNT (DEPENDING ON FACTORY)
AVAILABILITY) ON BOTH HARDWARE AND SOFTWARE. AS NEW ITEMS BECOME AVAILABLE WE'LL ADD THEM TO OUR LIST.

OF COURSE WE'LL KEEP PRINTING FREE PROGRAMS WRITTEN BY OWNERS SPECIFICLY FOR THE IM-1. WE PROMISE TO PERSONALLY ANSWER EVERY LETTER YOU WRITE.

SOME NEW DEPARTMENTS HAVE BEEN ADDED, SO LOOK FOR THEM IN THE FIRST ISSUE, JAN 1983.

ADDED: THE WANT ADS; HERE IS A PLACE FOR SUBSCRIBERS TO BUY AND SELL FROGRAMS, USED EQUIPMENT OR ANY ASSOCIATED MATERIALS (COST MINIMAL).

ADDED: MAINTENANCE AND REPAIR ADVICE PLUS INFORMATION ON ANY UPGRADES IN THE FUTURE.

WHETHER YOU USE YOUR MACHINE FOR HOME, BUSINESS OR ENTERTAINMENT, WE WILL HAVE SOMETHING FOR YOU.

REMEMBER, SUBSCRIBE NOW FOR 1983 FOR ONLY \$10.00, AFTER DEC 25,1982 THE RATE GOES BACK TO \$15.00. WE WILL GIVE YOUR MONEY BACK ANYTIME YOU ARE NOT COMPLETELY SATISFIED WITH THE CLUB LETTER, PRORATED OF COURSE!

#### 

#### IM-1 MILLION

in a

The state and write the print print print then print the print that the print the prin

#### Club Member

#### 

#### MEMBERSHIP APPLICATION FOR 1983

1-1-83 to 12-31-83

NAME=	, 1-1-00 to 12-31-03
STREET ADDRESS=	
CITY=	THE STATE ST
STATE=	ZIF=
ENCLOSED IS MY \$ 10.00 FE	E (SPECIAL PRICE)

MAIL TO: EDITOR

MILLY BREWER P.O.BOX 1411 SPRINGDALE, ARKANSAS 72764 CANTASTIC:

# SANTA CLAUS SALE!!

Product Catalog

CUANITIES . .

and Price List

LIST \*FACTORY

13K AFF IM-1 COMPUTER. Includes 14,000 Bytes ROM with BASIC built in, 10000 Bytes User RAM, Color, Sound. Professional 53 keyboard, Two controllers, Two 10 key numeric pads, High speed cassette, A. C. adapter, k. F. Modulator, T.V. switch box. Accepts TAPE-DISK-PLUG in cartridges. It is plug in expandable. 90 days parts and labor warranty, Owners guide, MASIC Language manual, Beautiful Black & White Console Case. 125K APF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus and labor warranty of the Computer Factories Pack. Pack Pack Percepting you get for \$239.00 plus are controller. This plug in interface allows you to use the 25K IM-1 computer to its fullest degree. It contains 4 universal boots to add: RAM memory, Printers, Telephone Modem, and Floppy Disk interes. (5.00 shipping)  182-1 BULLDING BLOCK INTERFACE. This plug in interface allows you to use the 25K IM-1 computer to its fullest degree. It contains 4 universal boots to the Case of the Cas		LISI	THOTORY
NOOD Stres User RAM, Color, Sound. Professional 53 keyboard, Two controllers, Two 10 key numeric pads, High speed cassette, A. C. adapter, N. F. Modulator, T.V. switch box. Accepts TAPE-DISK-PLUG in cartridges. It is plug in expandable. 90 days parts and labor warranty, Owners guide, MASIC language manual, Beautiful Black & White Console Case.  13K APF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus 698.00  13K APF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus 698.00  13K CAPT IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus 698.00  13K CAPT IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus 698.00  13K ON PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL." for Graphics, Machine Language-Memory maps, Schematics and Parts List. Also you get the popular "SPACE DESTROYERS Program."  13B-1 BUILDING BLOCK INTERFACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal ports to add: RAM memory, Printers, Telephone Modem, and Floppy Disk Irives. (5.00 shipping)  13C-212 SERIAL INTERFACE. Plug into interface port to connect printers into the printers of the pri	COMPUTER PRODUCTS JANUARY 1, 1982	PRICE	PRICE
controllers, Two 10 key numeric pads, High speed cassette, A. C. adapter, L. F. Modulator, T.V. switch box. Accepts TAPE-DISK-PLUG in cartridges. It is plug in expandable. 90 days parts and labor warranty, Owners guide, ASSIC language manual, Beautiful Black & White Console Case.  128 APF In-I COMPUTER PACTORY PACK. Everything you get for \$239.00 plus  BASIC TUTOR program" on two tape cassettes with manual to teach you how co cut programming time, "PROCRAMMING AND TECHNICAL ASSISTANCE MANUAL"  for Graphics, Machine Language-Memory maps, Schematics and Parts List.  Also you get the popular "SPACE DESTROYERS Program."  189-1 BULDING BLOCK INTERPACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal bootsts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk trives. (5.00 shipping)  187-232 SERIAL INTERPACE. Plug into interface port to connect printers induced the programs of the program of th	23K APF IM-1 COMPUTER. Includes 14,000 Bytes ROM with BASIC built in,	\$599.00	\$239.00
controllers, Two 10 key numeric pads, High speed cassette, A. C. adapter, L. F. Modulator, T.V. switch box. Accepts TAPE-DISK-PLUG in cartridges. It is plug in expandable. 90 days parts and labor warranty, Owners guide, ASSIC language manual, Beautiful Black & White Console Case.  128 APF In-I COMPUTER PACTORY PACK. Everything you get for \$239.00 plus  BASIC TUTOR program" on two tape cassettes with manual to teach you how co cut programming time, "PROCRAMMING AND TECHNICAL ASSISTANCE MANUAL"  for Graphics, Machine Language-Memory maps, Schematics and Parts List.  Also you get the popular "SPACE DESTROYERS Program."  189-1 BULDING BLOCK INTERPACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal bootsts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk trives. (5.00 shipping)  187-232 SERIAL INTERPACE. Plug into interface port to connect printers induced the programs of the program of th	9000 Bytes User RAM, Color, Sound. Professional 53 keyboard, Two		
R. F. Modulator, T.V. switch box. Accepts TAPE-DISK-PLUG in cartridges. It is plug in expandable. 90 days parts and labor warranty, Owners guide, MASIC language manual, Beautiful Black & White Console Case.  283. APF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus			
ASIC language manual, Beautiful Black & White Console Case.  ASIR AFF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus  BASIC TUTOR program" on two tape cassettes with manual to teach you how co cut programming time, "PROCRAMMING AND TECHNICAL ASSISTANCE MANUAL"  For Graphics, Machine Language-Memory maps, Schematics and Parts List.  ASIS BLIDING BLOCK INTERFACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal borts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk trives. (S.00 shipping)  MARIA EXPANSION. Plug into interface port to increase your RAM memory  MARIA EXPANSION. Plug into interface port to connect printers induced the contains and the contains a universal borts to add: RAM memory, Printers and the contains an			
ASIC Ianguage manual, Reautiful Black & White Console Case. 238 APF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus  BASIC TUTOR program" on two tape cassettes with manual to teach you how to cut programming time, "PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL" for Graphics, Machine language—Memory maps, Schematics and Parts List. Also you get the popular "SPACE DESTROYERS Program."  BB-1 BULDING BLOCK INTERFACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal borts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk trives. (5.00 shipping)  KK-RAM EXPANSION. Plug into interface port to increase your RAM memory 129.00  131-232 SERIAL INTERFACE. Plug in to interface port to connect printers 139-30  131-232 SERIAL INTERFACE. Plug into interface port to connect printers 139-30  131-232 SERIAL INTERFACE. Plug into interface port to connect printers 139-30  131-232 SERIAL INTERFACE. Plug into interface port oconnect printers 139-30  131-232 SERIAL INTERFACE. Plug into interface port oconnect printers 139-30  139-31-322 SERIAL INTERFACE. Plug into interface port oconnect printers 139-30  139-31-322 SERIAL INTERFACE. Plug into interface port oconnect printers 149-00  139-100 Shipping)  139-100 DISK INTERFACE. Plug into interface port oconnect full duplex, 139-100 DISK INTERFACE. Plug into interface port oconnect full duplex, 139-100 DISK INTERFACE. Plug into interface port oconnect full duplex, 139-100 DISK INTERFACE. Plug into interface port oconnect full duplex, 139-100 DISK INTERFACE. Plug into interface port oconnect full duplex, 149-00  149-00			
### 128X AFF IM-1 COMPUTER FACTORY PACK. Everything you get for \$239.00 plus   ### 188SIC TUTOR program" on two tape cassettes with manual to teach you how to cut programming time, "PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL"   ### 180SIC TUTOR programming time, "PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL"   ### 180S you get the popular "SPACE DESTROYERS Program."   ### 180SILDING BLOCK INTERFACE. This plug in interface allows you to use			
**BASIC TUTOR program** on two tape cassettes with manual to teach you how to cut programming time, "PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL" to cut programming time, "PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL" to cut programming time, "PROGRAMMING AND LOSSEMBLER. This plus in interface allows you to use 199.00 the 23K IM-1 computer to its fullest degree. It contains 4 universal to add: RAM memory, Printers, Telephone Modem, and Floppy Disk Irrives. (5.00 shipping)  3K-RAM EXPANSION. Plug into interface port to increase your RAM memory 129.00 the 23K IM-1 computer to its fullest degree. It contains 4 universal to add: RAM memory, Printers, Telephone Modem, and Floppy Disk Irrives. (5.00 shipping)  3K-RAM EXPANSION. Plug into interface port to connect printers 149.00 the telephone modems. (3.00 shipping)  3K-80 EPSON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc-726.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 40-80-66 132 columns-uses regular paper. 24 Courter 129.00 tional, 4		698.00	289.00
The cut programming time, "PROCRAMMING AND TECHNICAL ASSISTANCE MANUAL" for Graphics, Machine Language-Memory maps, Schematics and Parts List.  Also you get the popular "SPACE DESTROYERS Program."  BB-1 BUILDING BLOCK INTERFACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal borts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk trives. (5.00 shipping)  RK-RAM EXPANSION. Plug into interface port to increase your RAM memory 129.00  B192 Bytes. (3.00 shipping)  SL-232 SERIAL INTERFACE. Plug in to interface port to connect printers 149.00  Ind telephone modems. (3.00 shipping)  KK-80 EPSON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc- 726.00  Ind-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex, 199.00  WINITED TELEPHONE MODEM. Best quality: Transmit receive full duplex, 199.00  WINITED DISK INTERFACE. Plug into interface port - allows you to 149.00  IND-100 DISK INTERFACE. Plug into interface port - allows you to 149.00  IND-100 DISK INTERFACE. Plug into interface - has its own 199.00  IND-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own 199.00  IND-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own 199.00  PROCRAMMING AND LANGUAGE AIDS  PROCRAMMING AND LANGUAGE AIDS  PROCRAMMING AND LANGUAGE AIDS  AND AGAINE LANGUAGE MAD ASSEMBLER. This disk programs with a 199.95  IND-100 MACHINE LANGUAGE DITOR AND ASSEMBLER. This disk program is used to 199.95  IND-100 MACHINE LANGUAGE DITOR AND ASSEMBLER. This disk enhances creation, debugging, 199.95  IND-100 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 199.95  IND-100 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 199.95  IND-100 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 199.95  IND-100 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 199.95  IND-100 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 199.95  IND-100 MACHINE LAN		0,0.00	207.00
Also you get the popular "SPACE DESTROYERS Program."  199.00			
Also you get the popular "SPACE DESTROVERS Program."  199.00  2019			
AB-I BUILDING BLOCK INTERFACE. This plug in interface allows you to use the 23K IM-1 computer to its fullest degree. It contains 4 universal shorts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk Irives. (5.00 shipping)  MS-RAM EXPANSION. Plug into interface port to increase your RAM memory 129.00  MS-RAM EXPANSION. Plug into interface port to connect printers 149.00  MS-BO EPSON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc-  100.00 shipping)  MS-BO EPSON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc-  100.00 shipping)  MS-BO EPSON LINE PRINTER. Deluxe quality: Transmit receive full duplex, 199.00  MS-BO EPSON LINE PRINTER. Deluxe quality: Transmit receive full duplex, 199.00  MS-BO EPSON LINE PRINTER. Deluxe quality: Transmit receive full duplex, 199.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to 149.00  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to make duplicate copies of all disk  MS-BO EPSON LINE PRINTER. Plug into interface port - allows you to make duplicate copies o			# 40 KA
the 23K IM-1 computer to its fullest degree. It contains 4 universal corts to add: RAM memory, Printers, Telephone Modem, and Floppy Disk drives. (5.00 shipping)  129.00  129		100 00	77.30
rives. (5.00 shipping)  RK-RAM EXPANSION. Plug into interface port to increase your RAM memory  RIP23 SERIAL INTERFACE. Plug into interface port to connect printers  RAM EXPANSION. Plug into interface port to connect printers  RIP32 SERIAL INTERFACE. Plug in to interface port to connect printers  RIP32 SERIAL INTERFACE. Plug into interface port to connect printers  RIP32 SERIAL INTERFACE. Plug into interface port to connect printers  RIP32 SERIAL INTERFACE. Plug into interface port to connect printers  RIP32 SERIAL INTERFACE. Plug into interface port to connect printers  RIP32 SERIAL INTERFACE. Plug into interface port to connect printers  RIP32 SERIAL INTERFACE. Plug into interface port page into interface page into inte	the 23V IM-1 computer to its fullest deeper. It contains / universal	199.00	47170
Herves. (5.00 shipping)  Read EXPANSION. Plug into interface port to increase your RAM memory  Read EXPANSION. Plug into interface port to increase your RAM memory  Read EXPANSION. Plug into interface port to connect printers  149.00  179.50  18192 Bytes. (3.00 shipping)  Read PERON LINE PRINTER. Plug into interface port to connect printers  149.00  182.50  182.50  182.50  183.60 PERON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc-  182.60  183.60 PERON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-direc-  183.60  184.60  185.60  186.60  187.60  188.60			
AR-RAM EXPANSION. Plug into interface port to increase your RAM memory 3192 Bytes. (3.00 shipping) 3192 Bytes. (3.00 shipping) 3192 Bytes. (3.00 shipping) 3192 Bytes. (3.00 shipping) 3193 EXPANSION. Plug into interface port to connect printers 319.00 3193 Bytes. (3.00 shipping) 3193 Bytes. (3.00 shipping) 3194 Bytes. (3.00 shipping) 3195 Bytes. (3.00 shipping) 3196 EXPRINTER. Deluxe quality: Impact dot matrix-bi-directional, 40-80-66 132 columns-uses regular paper. 3196 EXPENDITE PRINTER. Deluxe quality: Impact dot matrix-bi-directional, 40-80-66 132 columns-uses regular paper. 3196 EXPENDITE PRINTER. Deluxe quality: Impact dot matrix-bi-directional directional directional directional directional directional directional directional direction interface port - allows you to 149.00 3195 EXPOGRAMMING AND LANGUAGE AIDS 3196 MACI TUTOR. This program includes two cassette tape programs with a 249.95 3197 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3196 MACI TUTOR. This program includes two cassette tape programs with a 249.95 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3197 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping) 3198 Bytes of additional data storage, plus instant loading and accessing of additional data storage, plus instant loading and accessing of additional data storage, plus			\$
149.00 14	•	100.00	
A 19-00 and telephone modems. (3.00 shipping)  Note that the problem of the probl		129.00	_
INCLOS ERSON LINE PRINTER. Deluxe quality: Impact dot matrix-bi-directional, 40-80-66 132 columns-uses regular paper.  20.00 shipping)  M-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex, 199.00  Witches! Originate-off-answer. (4.00 shipping)  M-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex, 199.00  Witches! Originate-off-answer. (4.00 shipping)  M-100 DISK INTERFACE. Plug into interface port - allows you to 149.00  Monnect the floppy disk drive. (\$3.00 shipping)  M-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own 599.00  Mover supply and controller - uses no RAM memory, give you 72,000 bytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping)  M-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own 599.00  MOVER SUPPLY AND LANGUAGE AIDS  MOVER SUPPLY AND LANGUAGE AIDS  MACHINE LANGUAGE AIDS  MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 19.95  MACHINE LANGUAGE DITA AND ASSEMBLER. This disk program is used to 19.95  MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  M-150			
AN ADD LANGUAGE AIDS  AND CARAMMING AND LANGUAGE AIDS  AND LANGUAGE BOSTANCE MODEM. Traches you how to use the simplified Level II BASIC suts programming time — a must for beginners and professionals.  AN ADD TECHNICAL ASSISTANCE MAND ASSEMBLER. This disk program is used to implifies untry or editing, adding, deleting, change in lines, etc.  BOM MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in a control and and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according of machine language.  BOSTAND LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, in control and according the control and according the control and according to		149.00	
20.00 shipping)  M-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex, witches! Originate-off-answer. (4.00 shipping)  N-100 DISK INTERFACE. Plug into interface port - allows you to lay.00 longet the floppy disk drive. (\$3.00 shipping)  N-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own lower supply and controller - uses no RAM memory, give you 72,000 loytes of additional data storage, plus instant loading and accessing of data. (7.50 shipping)  PROGRAMMING AND LANGUAGE AIDS  REGORAMMING AND LANGUAGE AIDS  PRICE PRICE loys a must for beginners and professionals. REGORAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory laps, machine language, schematics, and parts list. REGORAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory laps, machine language, schematics, and parts list. REGORAMMING LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to limplifies intry or editing, adding, deleting, change in lines, etc. REGORAMMING LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, laps or logical programs written for the APF-IM-1. LATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1913 United the language lan			
20.00 shipping) M-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex, 199.00 129.00 witches! Originate-off-answer. (4.00 shipping) Witches! Originate-off-answer. (4.00 shipping) Witches! Originate-off-answer. (53.00 shipping) Witches! Originate-off-answer. (4.00 shipping) Witches! Originate-off-answer. (53.00 shipping) Witches! Originate-off-answer. (4.00 shipping) Witches! Original-off-ori			
MM-150 TELEPHONE MODEM. Best quality: Transmit receive full duplex, 199.00 levitches! Originate-off-answer. (4.00 shipping) 149.00 lonnect the floppy disk drive. (\$3.00 shipping) 291.00 lonnect the floppy disk drive. (\$3.00 shipping) 291.00 lonnect the floppy disk drive. (\$3.00 shipping) 291.00 lonnect the floppy disk DRIVE. Plugs into interface - has its own 1999.00 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller - uses no RAM memory, give you 72,000 longer supply and controller longer supply and controll			
witches! Originate-off-answer. (4.00 shipping) VI-100 DISK INTERFACE. Plug into interface port - allows you to Indeed the floppy disk drive. (\$3.00 shipping)  244.00  255.00  265.00	- The same of the		
TI-100 DISK INTERFACE. Plug into interface port - allows you to connect the floppy disk drive. (\$3.00 shipping)  1-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own cower supply and controller - uses no RAM memory, give you 72,000 system of additional data storage, plus instant loading and accessing of data. (7.50 shipping)  PROGRAMMING AND LANGUAGE AIDS  PRICE  PR		199.00	129.00
connect the floppy disk drive. (\$3.00 shipping)  1-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own ower supply and controller - uses no RAM memory, give you 72,000 system of additional data storage, plus instant loading and accessing of data. (7.50 shipping)  1-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own ower supply and controller - uses no RAM memory, give you 72,000 system of additional data storage, plus instant loading and accessing of data. (7.50 shipping)  1-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own open supply and controller - uses no RAM memory, give you 72,000 system of additional data storage, plus instant loading and accessing of data. (7.50 shipping)  1-100 MINI FLOPPY DISK DRIVE. Plugs into interface - has its own open supply and controller - uses no RAM memory, give you 72,000 system procreams with a storage, plus instant loading and accessing of fall disk open supply and accessing of additional data storage, plus instant loading and accessing of supply and accessing of machine language and accessing open swith a supply procream with a supply procream of programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a supply procream includes two cassette tape programs with a suppl			44.50
299.00  299.00		149.00	79.50
were supply and controller - uses no RAM memory, give you 72,000  bytes of additional data storage, plus instant loading and accessing  of data. (7.50 shipping)  ROGRAMMING AND LANGUAGE AIDS  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program with a  49.95  ASIC TUTOR. This program with a  49.95  ASIC TUTOR. This program with a  49.95  ASIC TUTOR. This disk program is used to  59.95  ASIC TUTOR. This disk program is used to  59.95  ASIC TUTOR. This disk program is used to  59.95  ASIC TUTOR. This disk program is used to  59.95  ASIC TUTOR. This disk program is used to  59.95  ASIC TUTOR. This disk program with a  49.95  ASIC TUTOR. This dis			294.00
ROGRAMMING AND LANGUAGE AIDS ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 19.95 ROGRAMMING LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL as the assembler - 19.95 ROGRAMMING LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 19.95 ROGRAMMING AND TECHNICAL SPACE CODE TO BE ASSEMBLER. This disk program is used to 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, me		599.00	<del>399.00</del>
ROGRAMMING AND LANGUAGE AIDS  ROGRAMMING AND LANGUAGE AIDS  ASIC TUTOR. This program includes two cassette tape programs with a 49.95 43 page manual - Teaches you how to use the simplified Level II BASIC uts programming time - a must for beginners and professionals. ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory aps, machine language, schematics, and parts list.  800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 59.95 reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95 14.95 14.95 14.95 14.95 14.95 14.95 14.95 14.95 15.00			
ROGRAMMING AND LANGUAGE AIDS  ROGRAMMING AND LANGUAGE AIDS  RASIC TUTOR. This program includes two cassette tape programs with a 49.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95  ROGRAMMING AND			Saura
ROGRAMMING AND LANGUAGE AIDS  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  ASIC TUTOR. This program includes two cassette tape programs with a  49.95  19.95  14.95  14.95  19.95  1	f data. (7.50 shipping)		
ASIC TUTOR. This program includes two cassette tape programs with a  49.95  43 page manual - Teaches you how to use the simplified Level II BASIC  cuts programming time - a must for beginners and professionals.  PROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory  aps, machine language, schematics, and parts list.  8800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to  reate source code file - this file is then used as the assembler -  implifies entry or editing, adding, deleting, change in lines, etc.  8800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging,  19.95  14.95  19.95		FACTORY	
43 page manual - Teaches you how to use the simplified Level II BASIC uts programming time - a must for beginners and professionals. ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory laps, machine language, schematics, and parts list.  800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, language. ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk language. ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk language. Allows special discount prices - 1983 Units 15.00			PRICE
ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory 19.95 aps, machine language, schematics, and parts list.  800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 59.95 reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95 rograms written for the APF-IM-1. ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1923 Units.		49.95	29.95
ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory aps, machine language, schematics, and parts list.  800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 59.95 reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 deleting of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95 rograms written for the APF-IM-1.  ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1973 Units.			*19.45
aps, machine language, schematics, and parts list.  800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 59.95 reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95 rograms written for the APF-IM-1. ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1973	uts programming time - a must for beginners and professionals.		
800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to 59.95 reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc. 800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 nd recording of machine language. ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95 rograms written for the APF-IM-1. ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1983	ROGRAMMING AND TECHNICAL ASSISTANCE MANUAL. 100 pages, graphics, memory	19.95	14.95
reate source code file - this file is then used as the assembler - implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95 nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95 rograms written for the APF-IM-1. ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1973	aps, machine language, schematics, and parts list.		77.45
implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  14.95  nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95  rograms written for the APF-IM-1.  ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1923 Units.	800 MACHINE LANGUAGE EDITOR AND ASSEMBLER. This disk program is used to	59.95	<del>29.95</del> -
implifies entry or editing, adding, deleting, change in lines, etc.  800 MACHINE LANGUAGE DISASSEMBLER. This disk enhances creation, debugging, 19.95  nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk 19.95  rograms written for the APF-IM-1.  IATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1983	reate source code file - this file is then used as the assembler -		\$ 19.45
nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk  19.95  rograms written for the APF-IM-1.  IATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1983	implifies entry or editing, adding, deleting, change in lines, etc.		
nd recording of machine language.  ISK COPIER PROGRAM. Allows you to make duplicate copies of all disk  19.95  rograms written for the APF-IM-1.  IATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1983		19.95	14.95
ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1483			4 9.45
ATIONAL COMPUTER CLUB MEMBERSHIP. Allows special discount prices - 1483		19.95	-9.95
	programs written for the APF-IM-1.		F 7.41
programming assistance-new developments-program exchange-factory sponsored. 12-15-82 4 10.00		VIIL	15.00
	programming assistance-new developments-program exchange-factory sponsored.	11-15-12	\$ 10.00

We ship C.O.D., Honor Visa and MASTER CARDS

\*Add \$15.00 for shippping - if C.O.D., add \$5.00 more.

\*\*Add \$3.00 for postage - if C.O.D., add \$2.00 more.

# PROTECTO

ENTERPRIZES (FACTORY - DIRECT RELIABILITY)

BOX 550, BARRINGTON, ILLINOIS 60010 -- Phone 312/382-5244 to order

MANAGEMENT PROGRAM TAPES  LIMITED OVANITIES.	FACTORY PRICE	SANTA SALE MCLUB PRICE
ELECTRONIC FILES This is a computer filing system that allows you to keep track of names, addresses, and other records.	\$ 29.95	\$ 19.95
BAR CHARTS Color charts for comparisons, year to year category by category - See your situation at a glance!	19.95	\$ 9.45
TYPING TUTOR Learn typing at your own speed-unique program-Computer designs and changes to fit your ability.	29.95	\$ 14.45
CHECK BOOK BUDGET MANAGER Faster way to balance your check book- Balance your budget - Keep tax records, etc!	<b>2</b> 9.95	= 14.95
BUDGET MANAGER Day by day, week by week, 3 categories, including food, medical, automotive - even summary reports.	19.95	5 9.45
PERSONAL BUSINESS MACHINE Calculate loans, interest, principle payments, loan payments, etc.	29.95	\$ 14.45°
BILLBOARD Great for creating messages in sound, color, and graphics with a beautiful display.	19.95	\$ 9.45
SPACE SIZE AND SURFACE GUIDE Great for home improvements, figure your material needs - How much Paint - Carpeting - Fertilizer, etc.	29.95	2 9.45
MATH TUTOR Great for improving math skills at any age level, based on personal ability - a private tutor with lots of fun.	29.95	9 14.98
THE WORD FACTORY A spelling game that's fun - spell name of object pictured - great to improve your kids spelling skill and adult to!	19.95	\$ 9.45°
SPELLING DUEL Challenging and educational. Great fun with combination spelling and crossword game!	19.95	29.45
JUMBLED UP THINGS Create words from jumbled up letters against the clock - Great educational program to improve your memory.	29.95	19.45
PERCEPTION Learning game - Two players any level compete - Improves your ability to solve problems.	19.95	9.95
ARTIST AND EASEL Great color art program for those who like to paint, doodle - Save your masterpiece - Use your imagination. MUSIC COMPOSTER Practice on keyboard, select key and tempo, write a tune	19.95	\$ 9.95'
and record it.	29.95	4.41'
SPACE DESTROYERS The most popular space game played - Hold off the invaders, save the earth from destruction!	FACTORY	\$14.45°
GAME CARTRIDGES	PRICE	PRICE
HANGMAN Tic-Tac-Toe, Doodle. Two competitive games, plus the electronic art of Doodle.	\$ 19.95	s 4.95 9.95
U.F.O. Shoot-a-Lot, Sea Monsters, Break-it-Down. Two great adventures in space and the deep, and two challenging carnival games.	19.95	14.95 7.95
SHOOTING GALLARY Brickdown-it takes smart shooting to get all bricks, and a steady aim.	19.95	\$ 9.98
PINBALL Blockout, Dungeon Hunt, Electronic flippers and tricky ball speed changes in pinball. In Dungeon, search and score.	19.95	\$ 4.95
CASINO Roulette, Keno, Slot Machine. All games are played by the real Las Vegas rules. Even has the authentic sounds of the casino, too!	19,95	9.91
BLACK JACK Great practice! You'll really clean up at the real thing! Smart decisions, not always luck, determine if you beat the machine.	19.95	3 7.45°
BASEBALL THE GREAT American pastime can still be great - even when the weather isn't.	19.95	1 9.95
BOXING Features 2 boxers battling toe to toe like Dempsey and Firpo!  6 variations.	19.95	8 9. 95
BACKGAMMON This ancient game has never been more popular - and it really comes to life in all the colors of your TV screen.	19.95	9.41
CATENA Surround your opponent, but watch out for the last minute reverses	19.95	\$ 9.45

WARRANTY - 90 DAYS PARTS AND LABOR If unit fails within 90 days of purchase, send unit and sales receipt prepaid via United Parcel Service to PROTECTO ENTERPRIZES at address shown. We will ship you a replacement unit within 48 hours of receipt prepaid.

SERVICE MANUAL Detailed service instructions and pictures for those who want to service their computer. (not evaluate)

19.95 14.95