

##### The A D A M L A N D News #####

The Voice of

THE INTERNATIONAL ADAM USERS GROUP

LOCAL NATIONAL INTERNATIONAL "ADAM" NEWS AND SUPPORT  
NEWSLETTER TECH UPDATE

DEDICATED TO THE "ADAM" COMPUTER, AND TO THE "ADAM" USERS

APRIL 1, 1986 Issue

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THIS NEWSLETTER GOES TO EACH OF THE UNITED STATES, ALL PROVINCES OF CANADA, MEXICO, PUERTO RICO, THE UNITED KINGDOM, NEW ZEALAND, AUSTRALIA, GREENLAND, TAIWAN, JAPAN, ITALY, FRANCE, AND SEVERAL OTHER COUNTRIES.

Published sometime after the first of the month, depending upon fishing season, small game hunting season, big game hunting season, hives, arthritis, heart problems, writers cramp, rain, sleet, hail, wind, drought, power bumps, power outages, possibility of lightning, actuality of lightning, lack of sleep, lack of time, but certainly not lack of dedication nor ambition.

We encourage and accept articles from members and the general public. SEE OUR ONGOING CONTEST! If you want to see your article in print, send it to us with permission to print. All programs, games, graphics, etc., sent to us must be both written on standard 8 1/2 by 11 paper, and on disk or data pack.

Advertisements: If you wish to place an ad, send us a copy of the ad. We also encourage pre-printed ads to be used as inserts in the newsletter, as long as the page size does not exceed that of the newsletter. Rates are very low.

REMEMBER ADAM USERS! This publication is dedicated to you! Help us make it please you. Tell us what you want. We shall do our best to comply.

The ADAMLAND News is a publication of the INTERNATIONAL ADAM USERS GROUP. The GROUP is a producer of hardware, software and special devices to be used with the COLECO ADAM, and other computers.

Neither The ADAMLAND NEWS, nor the INTERNATIONAL ADAM USERS GROUP, are connected in any way with COLECO INDUSTRIES, Inc., or any other computer manufacturer.

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THE GROUP IS THE INVENTOR, AND/OR THE MANUFACTURER OF MANY DEVICES ADVERTISED IN THIS PUBLICATION. Many of these items are NOT AVAILABLE ELSEWHERE.

PRICES and SPECIFICATIONS subject to change without notice.

## &lt; E D I T O R I A L &gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;

by Buck

Every month, it seems, the problems multiply. This month, our BIG MEM boards came in. Wonderful. No, not so wonderful. We had the cabinets in first, and the boards' specifications were drawn to fit. On this batch the boards were 1 1/2 inches too big for the cabinets! When I called to see what was the matter, the answer I received, was as follows "The board did not look symmetrical, so we changed it". I will not repeat what I said. Not because it was profane, but because it was lengthy and to the point, and profound!

This morning, the first of the manufactured boards for the IBM-ADAM conversion arrived. Guess what? NO CABINETS, no power supplies, and the installation disks had been made in 8" format! I have yet to see an ADAM in 8 inch drive, would not make one, don't want one. Old technology. Yes, I got out the order, and I DID order the disks in 5 1/4 inch. If we had thought this would happen, we could have made the disks up ourselves! Often, trying to save time and labor costs more time and labor.

Went ahead and put one together, just to check electrical function. Works just like the prototype. Could not give it "the works" because I will not be able to transcribe the disk to 5 1/4 inch ADAM until probably Sunday. Got suspicious of the size, because of the BIG MEM problem, measured the board, and these Dratted things are also larger than the specs I drew! So, take that, Buck. Well, back to the phone, and garden duties (Raising Cain).

Meanwhile back at the ranch..... We received 8 inches of snow during the night, with some roads and passes closed from time to time, and over 50 power outages up to 14:00 Hrs! Whenever we have a "bump party" or series of outages here, we not only turn everything off, we unplug everything. One of the boys called in and said he had not followed the protocol, and his was dead as a doornail. Such is life. It would seem that we could become accustomed to this, at least after awhile. Not so, Amigos! Twont Werk! Mama Nature rules.

I probably have dwelt upon this subject before, but please listen up, Pilgrims! We are nestled in a high valley, well into the Wind River range of the Rocky Mountains (and I do mean ROCKY). We are thousands of feet closer to electronic-trouble causing clouds than 98% of the balance of the population of computer pounders. This means we are subject to perhaps 800 TIMES the lightning caused problems that the majority of our members/readers experience. This is very unfunny, both from the delays caused by prophylactic measures, and the actual damage done by direct hits, surges, and static from discharges. Nothing, absolutely nothing will protect our equipment from these discharges!

This is beautiful country. Beautiful forests, snow capped mountains the year around, high deserts with antelope, deer, elk, moose, bear, all within a very short distance. Fishing among the finest in the world. Skiing, four-wheeling, mountain climbing, biking (both foot powered and gas engined), rock hunting, you name it. I have been all over this globe, and would not want to live anywhere else. I own Jade mines, and we go jade, agate and petrified wood hunting, as well as hunting for artifacts. The old Mormon Trail cuts through some of my property, and many artifacts are found along it. Several other trails converge thru some of the property too. In some spots, the wagon ruts are still visible.

Nice to be able to combine all this with computing! Even with all the electrical problems.

We had held up publication of the April issue so that we could give an announcement of the ADAM-IBM setup, and we held-held-held until it appeared to be idiotict to hold it any longer. You will get some of the information in this issue, and some in the May issue.

On another point, CONTEST APPLICANTS TAKE NOTE! If you furnish an article, etc., for the contest, DO NOT FURNISH THAT ARTICLE TO ANOTHER PUBLISHER! This disqualifies you for any prize. Two of the best entries in the past two months were also sent to other publications. This causes trouble with a capital "T". READ the rules, and abide by them! One was under consideration for the GRAND PRIZE already!

\$\$\$ C O N S I G N - A - B I T \$\$\$

\*\*\*\*\* W A N T E D \*\*\*\*\*

We have requests, as usual for used computers of all kinds. If you would like to sell or trade your used, broken or unwanted computer, peripherals, games, books, programs, components, hardware, etc., we will be glad to take care of it for you.

We have orders for almost any kind of printer: Ink Jet, Dot Matrix, Daisywheel, Color, Plotters, series or parallel, with or without interfaces.

GAME CARTRIDGES, Disks, Data Packs, Programs. Perhaps you would like to trade, for what you want. Send it in with your request.

We are still looking for the following programs by WESTICO, for ADAM: muMATH-muSIMP, ELECTRONIC CIRCUIT ANALYSIS, New or Used.

We need Monitors. Composite Color, RGB Color, Separated Video, or any combination.

ATTENTION: Dealers. Jobbers. Entrepreneurs. If you have any quantity of ADAM oriented material for sale, contact us WITHOUT DELAY.

We also accept ~~material from courts, estates, attorneys, bankruptcies~~ those quitting business, etc.

We can use <sup>95</sup>SOME non-ADAM components and games. Such as IBM, Flight Simulator # 2 and many others, write, telling us what you have!

WE KNOW THAT THERE ARE MANY PEOPLE OUT THERE WITH ADAM RELATED MATERIAL FOR SALE, WHICH WE WANT TO purchase FOR RESALE, WE WILL PAY YOU A FINDERS'S FEE, IF YOU PLACE US IN CONTACT, AND WE MAKE A PURCHASE! EASY MONEY!

CONSIGN-A-BIT TERMS: We accept any items shipped to us for consignment sale. WRITE FIRST!. The shipment must be accompanied by a complete list of the items, and a statement ON THE SAME PAGE, giving us the right to offer for sale. All packages must be shipped pre-paid. All items must be tagged as "WORKING" or "NOT-WORKING" so that we will not waste time checking those which will not work anyway.

Those found to be working will be advertised as such and sold as "TESTED, WORKING CONDITION WHEN SHIPPED". For obvious reasons, ADAMLAND cannot offer a warranty on consigned equipment, except in specially noted cases. We reserve the right to combine parts or parts of consignments in order to make a salable package, if necessary.

If you wish to donate any computer oriented material, we support two schools in this manner, and will be glad to accept any items, and will give you a statement as to their final use, and in some cases, pictures of the items being used. Such donations are often deductible, depending upon your tax situation.

5            ?????? QUESTIONS & ANSWERS ! ! ! ! !

by THE GROUP

Q. What is the operating frequency of the Z-80 used in the ADAM?

A. The ADAM uses a Z-80A, which has an operating frequency of 4 Mhz.

Q. How is the Z-80 in the ADAM different from that used in other Z-80 based computers?

A. The original Zilog (hence the "Z") Z-80 (no letter suffix) had an operating frequency of 2.5 Mhz. The upgrade, Z-80A, described above. The next, a Z-80B has an operating frequency of 6 Mhz. The latest, seldom seen, is the Z-80H, operates at 8 Mhz, which is very fast.

Q. Can I change my ADAM Z-80A to a Z-80B or H?

A. Yes. But a number of other changes are necessary. You must change all the support chips and the crystal to those which will operate at the chosen frequency. For example, all 6 Mhz chips & crystal to make a 6 Mhz system- and a set of chips and 8 Mhz crystal for an 8 Mhz system. It is not cheap nor is it quick, but it is practical. Reason? The higher the operating speed, the more efficient the computer.

Q. The ADAM seems faster in processing than some other Z-80A micros. Why?

A. The greatest reason, although I do not know what you are comparing, most likely lies in the fact that ADAM does not have the microprocessor doing all the work, but uses the "Master-Slave" setup. In this method, the MPU receives a command, and delegates the authority to perform this task to a slave processor. This frees the MPU almost instantly, to perform other tasks. The ADAM uses a slave for the disk drives, a slave for the printer, a slave for the data drives, etc. In actuality, this makes ADAM faster in many respects than many 8088 8/16 bit microcomputers. One of the things to look for in a computer is this system, to see if it uses slaves. Otherwise, published speed figures mean little. Some IBM type machines slow down to 1 Mhz or less when performing some tasks.

Q. Why does my ADAM slow down when I get a lot of material in my spreadsheet?

A. It is customary for practically all microcomputers to gradually operate slower and slower, the closer they come to using up their available RAM (Random Access Memory). If you are trying to operate with ADAM's standard 64K (NO, YOU DO NOT HAVE 80K available to you!), or even with an added 64K RAM memory upgrade. The answer? The ultimate answer is our big memory board, adding 256K to over 2 Megabytes, your option.

Q & A Cont'd

Q. My ADAM seems to get balky after it runs a few hours, and causes me all kinds of problems. Why, and what can I do about it?

A. This is a large order, and the answers are many.

1. Heat is the worst enemy of any computer, perhaps causing more problems than any other causative element. Heat may be removed by judicious drilling of additional holes in the printer cabinet, and in the Memory Console cabinet. Sometimes this problem can be alleviated merely by raising the printer, and memory console by an inch or so. I have done this in the past, by using empty thread spools at each of the four corners. A small "muffin" type fan attached to the printer cabinet is a big help. NEVER lay papers, instruction books, magazines, etc., on top of the Memory Console. This adds greatly to the heat, maybe even causing premature "aging" of some chips.

2. There are large differences in the heat tolerances of some chips, notably the Z-80 series, the 8080 series and the 8085 series. If you have an early ADAM, the problems can be many and varied. The early ones had a lot of defective, early failing chips, poorly designed EPROMS, and were very susceptible to RF signals, pulses on the AC line, as well as surges. Many of these will "lock up" if a momentary surge of 130 V plus appears on the line, even of millisecond duration.

3. If you have ever had ADAM open, you will notice heat sinks (extruded aluminum bars or finned pieces of metal) glued to some of the chips. If you see the flat, bright aluminum bar type sinks, they do not dissipate enough heat! A sharp blade of a knife, applied tenderly between the sink and the chip will cause the sink to pop off. New, finned sinks may be obtained from practically every electronics store. Put a THIN layer of epoxy cement on the new sink, press it onto the chip, and you are in business. There were several types of sinks used during ADAM'S production. The more ribbed the sink, the better heat dissipation. It makes no difference if the sink is much larger than the chip to which it is attached, the bigger the better, just as long as it does not touch other parts, or shields.

4. "AGING" Most electronic devices, notable computer chips, exhibit a characteristic known as aging. This means, simply, that the operating characteristics of that chip are subject to either temporary or permanent changes due to aging. This is the bane of every manufacturer using chips. Chips from one supplier may operate perfectly for long periods of time. The same numbered and speed chip, from another manufacturer, may show entirely different characteristics, after being in service for a while. You can easily see what this does to an electronics manufacturer's digestion and temperament.

!!! ANNOUNCEMENT !!!

HERE AT LAST! THE "ADAM" ADDITION EVERYONE HAS BEEN WAITING FOR!

ADAM-IBM COPROCESSOR AI-1

Description:

A device which can be added to ADAM, and which then allows ADAM to operate MS-DOS, the same system which IBM is capable of operating! This opens the door to limitless possibilities.

The device utilizes an 8086-2C Microprocessor, operating at a frequency of 6 Mhz. There is a total of 72 (Yes, seventy-two) chips used in the device. The system allows immediate use of ADAM's color for IBM type programs; allows CP/M programs in color, allows ADAM digital and disk drives to respond to MS/DOS commands! Talk about mix & match!

The system in no way interferes with the normal operation of ADAM functions! YOU decide whether to operate in ADAM modes or IBM modes, or a combination of the two.

You can NOW PROGRAM ADAM to run IBM programs.

All controlling is done from the keyboard, and from a booting disk, except for a simple reset switch. Since there is not enough room inside the ADAM memory console, a separate cabinet is required, available later, without charge.

Memory? 256K RAM is built into the co-processor. If you want more, use the BIG MEM board for ADAM. This combo should furnish enough memory for just about anyone. More IBM Memory? We can furnish it.

THE ADAM-IBM conversion is not limited to ADAM use alone! It can be used with just about every computer or VDT which uses a Z-80 as the microprocessor. This includes AMPRO, AMPLEX, ALTOS, AMSTRAD, CROMEMCO, HEATH-ZENITH, AMERICAN, NATIONAL, PHILLIPS, RADIO SHACK, ZORBA and many others.

Three manuals accompany the unit.

The ADAM-IBM compatible Co-Processor Manual

CPM/86 Manual

Z-80 Assemblers Manual

All other manuals, etc are optional, at added cost.

Power requirements: + 5 v, at 0.9 A. Less cabinet, & optional Power Supply

Cost: \$599.99 + \$15.00 HIS

CAUTION! This unit is not a toy! It requires considerable electronic experience to install to the ADAM! Do not order if you are not competent, or if you do not have the services of a competent installer. NO-WE WILL NOT INSTALL IT, it would take too much of our time. Possibly, a very sharp novice could do it, if he or she took the time to study it well. DO IT RIGHT! Do not blow your warranty!

# A D V E R T I S I N G

## ADAM KEYBOARD OVERLAYS

There are many ways to remember how to operate a program. Perhaps the easiest is to use plastic, imprinted overlays for your computer keyboard, with the new functions clearly indicated. 16 are finished at this time.

(1) AUTO AID, (2) ADAM LINK, (3) ADAM'S WORD PROCESSOR, (4) SMARTTYPE W/P, (5) Videotunes, (6) SMARTSPELLER, (7) FAST-FILER, (8) DATA-CALC, (9) DESK-SET "B", (10) DESK-SET "F", (12) SMARTFILER, (13) RECIPE FILER, (14) SMART LETTERS & FORMS, (15) FINANCE/LOANS, (16) PAINTMASTER.

ALL 16 for \$11.00 or \$1.25 EACH

Order by the name of the keyboard above, or order the set.

3/4 weeks delivery-Money Orders-Checks-US currency only!

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## T - S H I R T D E C A L

SPECIALLY DESIGNED FOR THE ADAM COMPUTER USER size of decal 8" X 11"

Shows a complete ADAM computer, with a printed page in the printer, saying "I GOT ARTIFICIAL INTELLIGENCE" Easily applied to T-shirts, etc. \$5.00 ea.

Order decals or KB overlays from: John F. Busby II

6634 SW 41st St.

Davie, FL 33314

(Mention The ADAMLAND News, it can't hurt, may help)

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DIGITAL DATA PACKS! Are you tired of trying to find data packs for ADAM? Are you tired of the high prices when you do locate some? Relax, get out your checkbook, or trot out and get a MO and send it to the outfit listed below!

A Manual entitled "CASSETTE TO DIGITAL DATA PACK FORMAT CONVERSION AND PROGRAM COPY MANUAL" A "How-To Manual on how to make your own data packs from standard audio cassettes.

Manual with sample tape, center directory format inc. HIS	\$19.95
Manual only.....	\$15.95
Sample tapes specify Center or Right directory.....	\$ 4.00

Send check or money order to: Rex B. Dominguez Jr.

613 La Salle Ave.

San Francisco, CA 94124

Start saving money now!

(Mention The ADAMLAND News, it can't hurt, may help)



# !!!! GROUP NEWS !!!!

by A. Suzuki

Meeting this month was a rousing success! For the first time, we held a combined "conference phone" and "meeting by modem"! To my knowledge this is also the FIRST time any group has ever held such a meeting! We will not be in a hurry to do it again, unless Ma Bell gives us a special rate. A couple hours of this would break the treasury of a small country. However, it was neat, and in many ways, well worth it.

Twenty six members attended by modem, and we logged somewhere over 40 conference calls, with more than one member on some lines. The ability to get input instantly was the greatest benefit. So many operations are necessary when letters are required for communication.

If you want to meet by modem, next attempt, get your phone numbers in!

Our contribution to the Mankind Opportunity was discussed, and we decided to make it anonymously. We felt that it would not have been accepted, regardless of how badly it was needed. Sooner or later, we will let them know.

Every one of our projects is going well, although, as usual, slower than expected. Buck and Tex have the ADAM-IBM setup operating very well (SEE REVIEW), but so many calls have been coming in about it that it has hampered work.

We have received many letters because of favorable reports regarding us which have appeared on CompuServe, in Family Computing magazine, and on several BBS. Just hope that the requests do not cause us to outstrip our ability to comply. We ask that "Y'all out there, jes be patient (as Buck says "or become one"). The old saying is that Rome (nor Tokyo) was not built in a day, and neither is it possible to make the terrific gains we are producing in a very short time.

The Group is curious to know how you good people out there in ADAMLAND would be receptive to a "Voice Command" system, which would work in conjunction with the ADAM-IBM setup, and which would accept every command, by your voice? If there is enough interest, we will try to produce it within the next few months. We keep asking, TELL US WHAT YOU WANT, EVEN YOUR WILDEST DREAMS, we may be able to produce it, maybe not. Perhaps the state of the art will not permit it, but who knows, unless you tell us?

We want to remind you, there will be no monthly meeting, as usual, during the months of June, July and August. Those are the main vacation months. Oh yes, we did not get sufficient support for our idea of making the Group a real co-operative. We did discuss a plan whereby members would be given a cash remuneration (share equivalent) yearly. This is still under consideration.

NO Group works for ADAM like ADAMLAND! See you next month.

!!!! NON - ADAM !!!!!

by Buck

This month we will be instituting a new section, under the above heading. It shall be oriented toward non-ADAM related products and information. Some will be at random, others specifically on particular items of interest. Some for sale. Some even non-computer.

PSE. Psychological Stress Evaluator. Or to the uninitiated, "LIE DETECTOR". A device which is capable of detecting untruthful responses WITHOUT BEING CONNECTED IN ANY WAY WHATSOEVER WITH THE SUBJECT BEING TESTED!!!

The ordinary Polygraph requires a number of connections to the subject being examined, and a carefully controlled testing environment, plus the test being administered by a person having spent a great deal of time in education and training. Even then, it is subject to many false readings. The usual leads attached to the subject measure respiration, blood pressure, pulse, skin conductivity, etc. The premise is that a person telling a lie will have an increase in all these indices. The people who use polygraphs will not tell you, but it IS possible, for a trained subject to successfully defeat a polygraph test. I know, for I have participated in such tests as a part of my education, and as a part of the work on my thesis for a doctorate.

The psychological Stress Evaluator operates on an entirely different premise. On specific aspects of the human voice. There are subaudible frequencies (which cannot be heard by the human ear) as well as those audible frequencies, which are emitted during speech, and sometimes WITHOUT audible speech. The most important of these frequencies range from about 8 cycles to 22 cycles. These frequencies are NOT under conscious control of the speaker. When a lie is being told, the higher frequencies are lost first, and the greater the degree of the lie, the more of these frequencies are lost. You see, if all those frequencies, down thru 8 cycles are lost, you may be assured that the subject has "told a whopper". As stated above, these frequencies are totally devoid of personal control. The PSE is an electronic marvel, using chips similar to those in computers, which are capable of analyzing the voice, and indicating missing frequencies. Yes, there are many types of these machines, some excellent, some good, and some very poor, and results are obtained which reflect, in general, the quality of the instrument. An excellent PSE will determine truthful or untruthful responses in cases where a polygraph test would be inconclusive.

Many top government agencies use these devices, because, as stated above, THEY CAN BE USED WITHOUT THE KNOWLEDGE OF THE SUBJECT BEING TESTED. Even the best models can be successfully concealed in a briefcase, on a desk under a magazine, etc. A tremendous added advantage is that these units will also operate over telephone lines! They can also be fed their input from the output of most tape recorders, even those which do not have the frequency response which would seem to be necessary, but which isn't really, because the devices also read harmonics of the desired frequency.

Continued

— The possibilities of this machine are almost beyond imagination.

I have used one to determine whether political candidates, both in public auditorium and ON TV, are telling the truth about their proposals, intentions, deeds. The answers were extremely revealing, to say the least. A truthful one is almost impossible to find.

Example of telephone operation:

Attorney calls. States that a contractor wants \$1,750,000 for the concrete work on a new shopping mall. He doubts the figure, and would like to have it checked:

You attach the PSE to the phone, dial Concrete Surfaces, Inc.

"Hello! May I speak with Mr. Potter, please?"

"One moment, please."

"Potter here."

"Are you Ralph Potter?" (Watch the display!)

"Yes, who is calling?" (Yes was truthful)

"B.J. Hunnicut, I represent Forgam Associates."

"What can I do for you?"

"I understand the concrete work at the mall will cost a million seven fifty, is this correct?"

"Yes." Display shows correct answer, for this is what he will charge!

"Could it be done for \$1,250,000?"

"No, it could not." (Display shows truthful response)

"Could it be done for a million five?"

"No, it couldn't. Why do you ask?" (Display shows untruthful answer, indicating that the job COULD be done for the \$1,500,000 figure, perhaps less)

"We are just trying to verify these figures, for our board meeting. Thank you, and have a nice day."

"You too."

In this one conversation, you have saved the attorney's client at least a quarter of a million dollars! Do you not think that he would not be extremely happy to pay a handsome fee for getting this information?

We have three of these fantastic machines, and do not need more than one, or two at the most. We have decided to sell one.

Portable PSE, self contained ni-cad batteries or AC power  
External, AC power supply  
Built in microphone, jack for various external mikes.  
Telephone attachment  
Complete course of instruction on cassette tape  
Instruction manual, for complete course.

As above, not \$5,000, not \$4,000, not \$3,000 but complete as described, in perfect, as new, operating condition just \$1,500!

^^^^^^^^^^ H I N T S & K I N K S ^^^^^^^^^^^

MONITOR GOBBLEDYGOOK. If you have left ADAM unattended, come back and all the information you had on your screen has disappeared, and has been replaced by a bunch of odd geometric boxes, patterns, etc. DO NOT DESPAIR! This condition is almost always caused by a large, LARGE surge on the AC line (Mains, to those who are of U.K or Australian persuasion).  
If you have consigned most of what you had previously to disk or tape, the balance can sometimes be restored in the following manner:

First, try hitting "UNDO", if at first nothing is restored, hit the same key several times in rapid succession, then hold it down for about five seconds, before releasing.

If this still does not restore your screen, try "CONTROL" and "UNDO", even alternating them, or using simultaneously. This system has worked for us a number of times. It is ULTRA WISE to remove disks and data packs while doing this.

Before using the disks and data packs again, send the recovered information to fresh disks or packs, then review the old dp's or disks before use to make sure they have not been damaged.

Even with the best of surge & EMI protection devices, absolutely nothing gives complete protection against remote lightning strikes.

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MODEM MADNESS. If the above condition exists on the screen of your monitor, and NOTHING cures it, even turning ADAM off, & resetting the computer, try removing your modem, and check to see if all is well.

If screen is o.k., your modem has been affected by the surge, and will have to be replaced or repaired. Hindsight is wonderful. Now would be an excellent time to purchase a filter for your modem/phone line.

By far the best preventative medicine against these things happening is to listen or watch the weather report, look at the sky ( if you can pry your eyes away from the latest computer magazines), heed the warnings of impending thunderstorms and UNPLUG ADAM FROM THE MAINS, until all danger is past.

I realize, most of us do not heed these warnings, but after a few very expensive episodes, even the most bull-headed, obstinate asses of us learn our lessons.

If you do have a modem connected, by all means disconnect it from the phone line also.

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DRIVES. If you have used the "wet" method of cleaning the heads on your disk or data drives, MAKE CERTAIN they are completely dry before attempting to use them! This is easy on the data drives, much more difficult to ascertain on disk drives. Putting a disk in the drive, while the heads are wet, and trying to use that drive results in material being dissolved from the disk and deposited on the head, a double loss, and a mess to clean, if allowed to harden.

1 !!!!!!!!!!!!!!!!!!!!! A D A M L A N D !!!!!!!!!!!!!!!!!!!!!

NEW PRODUCTS FOR UPGRADING THE "ADAM" COMPUTER

THE SUPERSWITCH: Pushbutton select any combination, such as two computers and a VCR, to one monitor or TV. ADAM cable to switch, Monitor cable supplied. Usable with many computers. Work on one computer while other is printing, or watch a "Z" rated movie from the VCR, all without changing cables! #SS-3, \$21.95 + \$3.50 HIS, CONUS.

ARE-2 RESOLUTION ENHANCER: Works with Stand-Alone and Expansion module. Improves readability of text and graphics and colors. Removes blurs, smears, white outlines, etc.. No internal connections. Includes "Gold End" cable. #ARE-2 \$79.95, + \$10.00, HIS, CONUS

DS-QUAD DENSITY "SUPER-DISK" DISK DRIVES FOR ADAM: 800K per disk, 1.6 MEGABYTE total! TWO drives in low, slimline cabinet, side-by-side, three surge protected outlets on rear for printer, computer, etc.. Front mounted switch controls everything. Self contained power supply, plus documentation and installation software. Supports CP/M formats, ADAM DOS, or another DOS, can be added later. #DD-1.6-1, \$599.95 ; \$15.00 HIS, CONUS

DESK MONITOR CABLE: Special "Gold End" desk cable for ADAM, with real gold plated ends for low loss and very low resistance. Stops clutter, helps keep picture clean. 3 foot, \$6.95 + \$2.50 HIS, CONUS--6 ft \$9.95 + \$3.50, HIS CONUS

CLOCK-CALENDAR-DATE-IMPRINTER (temporarily discontinued for lack of interest, everyone wanted it, we came out with it, and response has been lack-luster, to say the least) IF INTERESTED, WRITE!

ADAM RAM 64: ADAM compatible 64 K memory upgrade, installs in slot #3. Extends storage in smartwriter, adds to SmartBASIC, allows multitasking in ADAMCALC (printing one part while working on another part of spreadsheet), extremely valuable in CP/M. Better than any competitor's! There are several methods of arriving at the same result, ours is better. #AR-64, #AR-64 \$69.95, + \$5.00 HIS, CONUS

ADAM EXTERNAL POWER SUPPLY: Replaces ADAM's, which is contained in the printer, allowing use of a different or switchable printer. Simple connection. #AEPS, \$69.95, + \$10.00 HIS, CONUS

SERIAL TO PARALLEL INTERFACE FOR THE ABOVE: Allows use of parallel printer. PLEASE tell us the printer! #STP-2, \$89.95, + \$7.50, HIS, CONUS

BIG MEMORY: New 2+ MEGABYTE memory upgrade for ADAM! Supplied with 256K RAM, user upgradable to 2+ Meg. On the same card with a HARD DISK CONTROLLER and connection for disk! With documentation, installation software. #BM-2 Meg. \$399.95 + \$7.50 HIS, CONUS.

OPTIONAL CABINET & POWER SUPPLY FOR ABOVE available soon. (There is not enough room in the ADAM memory console for this conversion. Power supply is not always needed. Earlier models are more likely to need added power, or if a differant printer is used, etc.. It is recommended, however.

LIGHT PEN FOR ADAM! Paint with it, directly on screen, do graphics, erase, selet from menu with the pen, use as cursor, do computer aided design, make cartoons, design games, make banners, signs, figures, etc. possibilities unlimited. ONLY LIGHT PEN AVAILABLE OF ITS TYPE! With interface, software, complete instructions.

VOICE RECOGNITION-SPEECH AND MUSIC SYNTHESIZER FOR ADAM!! Ready about September (hopefully) DO NOT CALL ABOUT THIS! Watch newsletter!

NUMERIC KEYPADS FOR ADAM! For you number crunchers our there! Keypads adapted to ADAM, sit at the convenient right side of the keyboard. All numbers, +, - enter and up to four functions grouped for easy use. WE MUST INSTALL THIS for You! #NKP \$49.95 + HIS

CONTINUED, PTO

## NEW PRODUCTS, Cont'd.

ADAM PRINTER BUFFER: THE FINEST AVAILABLE! Our latest 64K buffer lets you dump up to 42 pages of text or graphics, into the buffer, freeing the computer to do other work. It shows the amount of information in the buffer, and the amount remaining as it is being used. Has a BYPASS feature, allowing bypassing the buffer temporarily, and printing something new from the computer, also a COPY feature, allowing direct selection of the number of copies to be printed. A READY LED and a PRINTER ERROR LED, which shows if the printer is out of paper, "hung up", not in the "ON" mode, or awaiting further command. This model can be used with either series or parallel output computers, and series or parallel printers, NOT JUST ADAM! Can be upgraded to 256K, or as high as 512K, by us at a later date. Horizontal model currently being produced, vertical upon request. Horizontal model 7 1/2 inches wide, 2 3/4 inches high, 4 1/4 inches deep. Vertical model slightly larger. #APB-2-64H (or V) \$179.95, + \$10.00, HIS, CONUS (You may need a series, parallel interface, such as is listed on the preceding page. It is universal)

HOW ABOUT A "LAP-TOP" ADAM? We can give you this effect with a Looooong cable, from the keyboard to memory console. Just tell us how long! Think how convenient this can be! Now you do not have to be tied to ADAM by such a short umbilical cord.

ADAM-IBM COMBINATION? Imagine a computer on which you can use IBM programs and with the windowing, colors and multitasking abilities that combining the two systems will allow! You lose none of the capabilities of ADAM, gain a great deal from the MS-DOS system, and from the union of the two. With this, ADAM can respond to its own commands, AND respond to MS-DOS commands as well. Our true 16 bit system is currently being produced, operates at the same speed as the standard AT, 6 Mhz!. You can use CP/M 2.2, CP/M 3, (CP/M +) CP/M 80 or CP/M 86 as well as the standard language. Options are many, including GW-BASIC, BASICA, and others. 100% text compatible with IBM, will run many IBM graphics, but not all without patches or hardware additions. Price? \$599.95 + HIS WE WILL BE ADDING A GREAT DEAL OF IBM COMPATIBLE SOFTWARE, BUT OUR LISTING IS NOT READY YET. WATCH NEWSLETTER!

ORIGINAL ADAM DISK DRIVES, RFE.....	\$199.95
ADAM 100% COMPATIBLE MODEMS, Instructs. Software.....	99.95
PRINTER RIBBONS Mylar Multistrike, 3 for .....	16.50
PRINTER RIBBONS, NYLON Extra Long Life, 3 for .....	16.50
COLOR RIBBONS-ADAM-Blue-Yellow-Brown-Green-Red-Purple e	9.75
DIGITAL DATA PACKS The Best Available 3 for .....	15.95
PRINTWHEELS Long Life, All Typestyles 3 for .....	22.50
DISKS (floppies) LIFETIME WARRANTY! With TYVEK envelopes, Labels, Hubs, Write protectors, 10 for \$7.95, Large quantity discounts. Handling, Insurance and Shipping must be added to each order. MINIMUM ORDER \$15.00	
ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!	

REMEMBER, MEMBERS! It is becoming increasingly difficult to obtain original ADAM items, BECAUSE NO MORE ARE BEING PRODUCED! We must rely on obtaining this material now from whatever source we can find, distressed merchants, those wanting to get rid of ADAM stock, and elsewhere. It is not as simple as ordering and receiving a couple of years ago. A great deal of patience is required. We have had suppliers call us, saying they had certain ADAM items available, we order that very moment. Then we let our members know of the availability. Next, we get four or five promises of shipment, and delivery, but the material NEVER arrives! Sometimes, not even ONE single item we ordered. I called a vendor yesterday, who has promised delivery many times, asked if he didn't like greenbacks, and if not we would have some red ones printed, since he apparently did not like the color of our money! Members, you should be on this end for a while! Then perhaps you would understand.

SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE==SERVICE

We service ANY PART, OR ALL of ADAM, and also ANY peripherals which can be used with ADAM. Ship to us prepaid, we repair, notify you that it is ready-and price, you remit and we return, insured. Usual turn around time very short. WE KNOW THAT BEING WITHOUT YOUR COMPUTER IS LIKE BEING WITHOUT FOOD AND DRINK! MAYBE EVEN WORSE!

LOOK TO ADAMLAND FOR THE LATEST IN COMPUTER ENGINEERING! WE TRY HARDER!

# 1 CONTEST CONTEST CONTEST CONTEST

The ADAMLAND News is sponsoring a competition in the following categories:

GRAPHICS  
GAMES  
PROGRAMS  
UTILITIES  
ARTICLES  
HELPFUL HINTS

You may submit entries for these or other categories, as you wish.

A WINNER will be published each month, an Honorable Mention, when space permits.

FIRST PRIZE: EACH MONTH. Ladies or Mans genuine Turquoise solid Sterling Silver ring. Fine quality.

HONORABLE MENTION: Each month; One year subscription to "TAN"

GRAND PRIZE: A secret, unannounced Grand Prize will be awarded to the most outstanding entry. The winner will be awarded his/her choice from Five Grand Prizes!

WHO MAY ENTER: Any member, except those actively involved in publishing the ADAMLAND News, and their direct family members.

RULES: Enter as many times, and in as many categories as you like. All entries become the property of ADAMLAND. Entries will be judged by the GROUP STAFF. In the case of ties, duplicate prizes will be awarded. Winners will be notified by mail, and in the newsletter. ALL ENTRIES must be written on standard 8 1/2 by 11 inch paper, and furnished on data pack or disk (drawings must be on same size paper), and must be error free. A statement is required, describing the submission in detail, and stating that the material has not been previously offered for publication, has not appeared in print, and that the person submitting, has the right to offer it. If any submission has commercial possibilities, and ADAMLAND produces it, a royalty will be paid to the submitter, in addition to the award made.

THESE RULES ARE IMPORTANT! ANY ENTRIES RECEIVED WHICH DO NOT COMPLY WITH THE RULES WILL BE ELIMINATED FROM ANY POTENTIAL WINNER LIST!

CONTEST CLOSES SEPTEMBER 30, 1986

THE ADAMLAND NEWS RESERVES THE RIGHT TO EXTEND THE CONTEST, OR TO SHORTEN IT'S DURATION, AT IT'S OWN DISCRETION.

This notice and contest null and void wherever prohibited by law.

## ##### S O F T W A R E #####

This is only a partial listing of software available from us. If you want any of these, or other software items, please place an order, with a minimum deposit of \$7.50 for each item ordered. We will fill orders in the order received.

MUCH ADAM SOFTWARE IS DISAPPEARING RAPIDLY! DO NOT WAIT TO ORDER!

Prices on all hardware is fluctuating wildly. We had a particular item at \$39.95. Three days later we were able to obtain and sell the same item for \$15.00! Less than a week later, we were selling it at \$17.50, and the next order we had to sell at \$34.95! This market is insane. NO new programs are being made by COLECO ADAM, or any contractor for that now defunct company. So, we have to buy what we can, where we can, when we can, pay what is required.

CP/M 2.2	RECIPE FILER
SmartFILER	WACKY WORD GAMES
SmartLOGO	ADAMCALC
Smart Letters & Forms	DONKEY KONG
Expertype	DONKEY KONG Jr.
Flashcard MAKER	FLASH FACTS TRIVIA
FLASHFACTS FLASHBACKS	TELLY TURTLE
DRAGON'S LAIR	ZAXXON
THE CABBAGE PATCH PICTURE SHOW	THE ADAM HOME SOFTWARE LIBRARY

=====

WE WILL PAY \$25.00 EACH FOR THESE!!!!

D A M B U S T E R S    S P Y H U N T E R    \$ 2 5 , 0 0 0    P Y R A M I D

P A S S W O R D    W I L D W E S T    P R I C E I S R I G H T

J E O P A R D Y    J O K E R S    W I L D    W I Z A R D O F W A R

=====

Next month, we will have a listing of IBM software, AMSTRAD software and, hopefully, NEW programs for ADAM, by new producers:

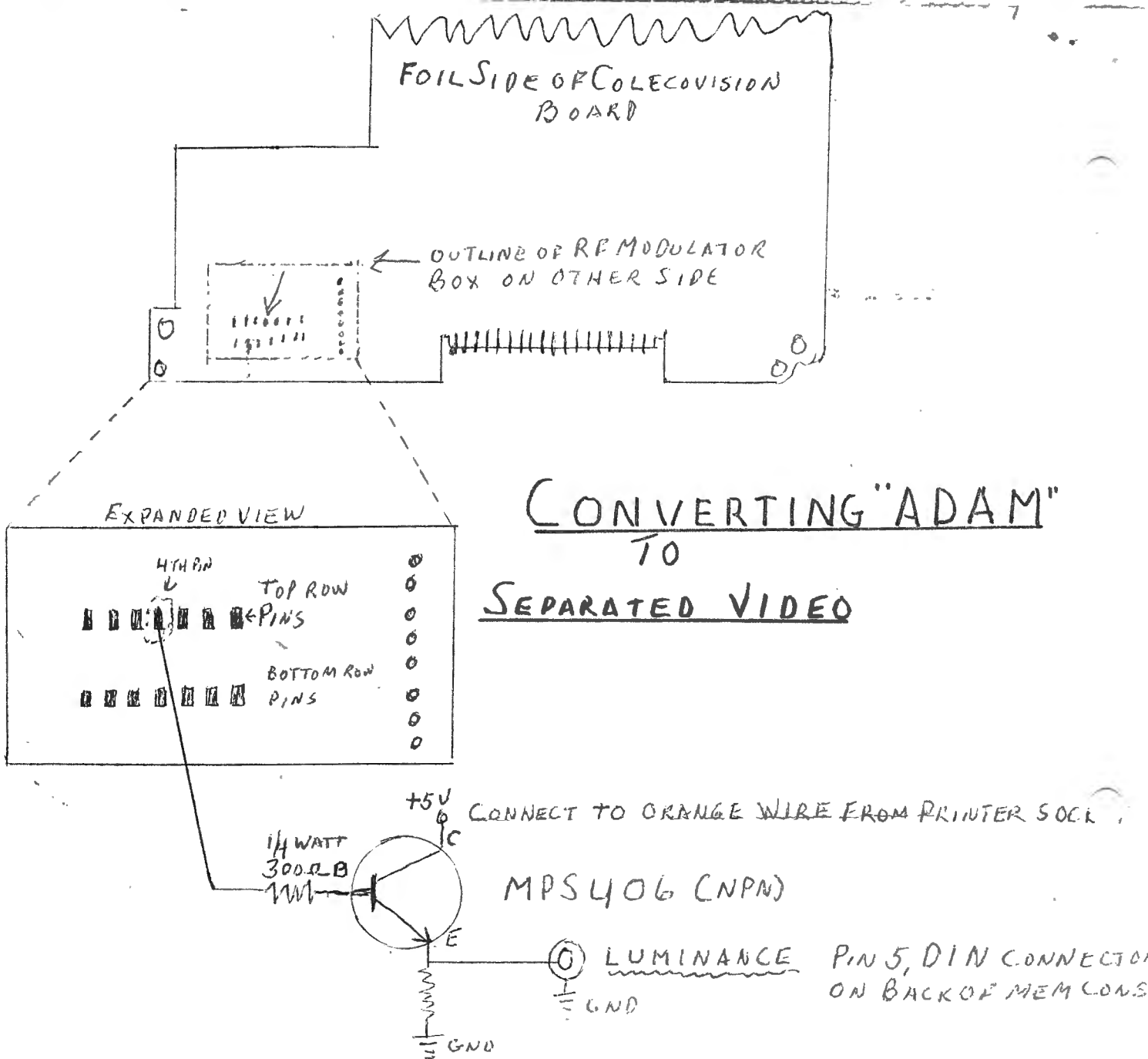
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We have a library of hundreds of games, programs, utilities. Give us an idea of what you want. We will do our best to fill your needs.

DON'T FORGET! PLACE YOUR ORDERS, FOR SOFTWARE NOW! DON'T BE LEFT OUT!

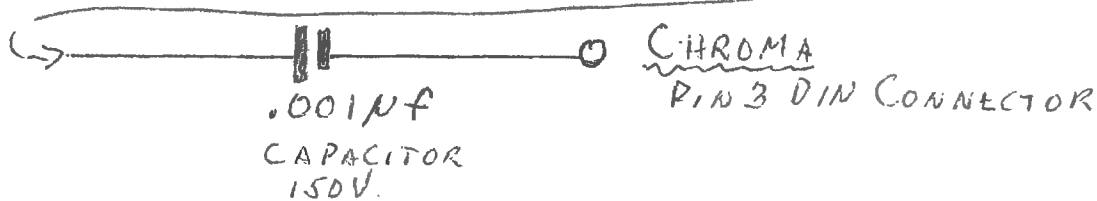






# CONVERTING "ADAM" TO SEPARATED VIDEO

## ADAM VIDEO CABLE CONNECTIONS



This conversion, with a monitor capable of accepting separated video, will give a resolution improvement of 50%.

If you would like us to do it, ship your memory console to us, we will make the change, return console to you, for \$49.95, plus H.I.S.

ALL RIGHTS RESERVED by ADAMLAND" 795 Garfield, Lander, WY 82520

You may make this conversion for yourself, but not for others for any reason!

## SEPARATED VIDEO FOR ADAM

The following is a method for converting the composite output of ADAM to separated video.

This is the version submitted by Craig Thompson, and credit is due him for it, however, after submitting it to us, he submitted it to another publication. Since we had it first, we have prior right to publish, according to the rules of our contest.

The circuit is virtually identical to one used by Buck, but never published. The only exceptions being that Buck's system is a little more elaborate, gives slightly better resolution, and eliminates the "right hand ghosts".

1. Remove the cabinet screws from the ADAM memory console.
2. Carefully remove the top (COLECOVISION) upper board so that you can see the back of the board. Yours may have a tin shield which must be removed.
3. Follow the pictorial diagram as shown on the enclosed sheet.
4. Put everything back just as you found it.

### PARTS REQUIRED

1. MPSu05 or 06 Transistor, or equiv.
2. Two 300 ohm 1/8 watt resistors.
3. One .001 ufd capacitor, 200 Volt.
4. Small amount of hook-up wire, insulated

We tried it, knowing it would work, and it did. The improvement in resolution is on the order of 50%, which is one heck of a lot.

Craig's system is about as simple as it could be, and it does work.

Kudos to Craig for sending this in, and although he will NOT be eligible for the Grand Prize, or be named as the winner for the month, we are sending him a beautiful Genuine Turquoise and Sterling Silver ring anyway.

If you would like this type of modification done to your ADAM, write us for information, and consideration of system to be used.

=====

We have been asked by many of you out there for a different Word Processor for ADAM, which would overcome the problems and limitations of SmartWRITER. We are planning BOTH a new word processor, on board, not to be called up by disk, and a true CP/M, CP/M 2.2., and CP/M 3 (or CP/M 80) all in residence on the ADAM board. IT WILL COME! First we have to get caught up with all our present projects. The new word processor will be the default program (comes on automatically with power up), and CP/M will be called up by hitting CONTROL, WILD CARD, CPM.

\* \* \* \* \* S U B S C R I P T & A D D E N D A \* \* \* \* \*

ADAM is DEAD, DEAD, DEAD!

But only as far as COLECO is concerned. They are now returning your warranty cards when you send them in, saying "You are on your own!".

They have sold out everything they had in stock, and no new items of any kind have been, or will be produced.

Stock for ADAM, replacement parts, drives, modems, games, programs, etc., are becoming scarce, very difficult to find.

If you order from us, we will do our best to serve you, but READ OUR ORDER FORM CAREFULLY! Please do not order, then pester us to death with requests such as "can I get it in three days" or "send me a list of all the ADAM things you sell, with prices, and anticipated delivery time on each". Look at that last part, of the last request! If we did this, we would not have time to even attempt to get the needed items! Each time you call us, puts us that much farther behind.

Some items, in stock on the day you place an order, may be gone by the time your order is processed. Then it may be a day, a week, several weeks or months before we can obtain them again.

IF YOU CANNOT BE PATIENT UNDER THESE TRYING TIMES, go out and buy an IBM!

Do not be fooled by advertisements and phone calls from outfits that tell you over the phone "Yes, we have that in stock" or who advertise for less money. We have the same connections as most of them, and if we do not have it, can't get it at the time, chances are they do not have it either.

We have even been known to go into the retail market and buy items at retail, for our members, when all else has failed! What other organization would do that? NONE!

=====  
For six months, we have been using an AMSTRAD CPC 6128, along with our usual ADAMs. We recently added the same BIG MEM to the AMSTRAD that we have for the ADAM. Naturally it performs great, since our BIG MEM will operate correctly with ANY of the Z-80, Z-80A, Z-80B, Z-80H or similar based computers.

We found that support for the AMSTRAD has now become non-existent, since the Illinois distributor has gone out of business, and no forwarding address. Oh well, SHADES OF ADAM!

It was fortunate that we obtained a dealership for the AMSTRAD line, unfortunate that the distributor folded. Perhaps things will change. Quien sabe?

XX

ORDERING INSTRUCTIONS

IMPORTANT!

PLEASE READ CAREFULLY!

IMPORTANT!

MONEY ORDERS, CERTIFIED CHECKS OR CASH ONLY, for merchandise. Personal or company check O.K. for subscriptions. ALL PRICES U.S. FUNDS! INCLUDE SUFFICIENT TO COVER HANDLING, INSURANCE & SHIPPING! DOUBLE THE HIS FOR HAWAII, ALASKA, PUERTO RICO, CANADA, APO's FPO's and GPO's.

IF IT HAS TO GO BY TRUCK OR AIR, it will be more! UPS in CANADA only serves ONTARIO! We have no control over costs of shipping!

TRIPLE THE HIS FOR OTHER COUNTRIES! ANY surplus WILL be refunded!

DO NOT ALLOW YOUR ORDER TO BE HELD UP BECAUSE OF INSUFFICIENT HIS!

PRINT YOUR NAME, ADDRESS, ITEM # ORDERED, so it can be read!

INCLUDE 44 CENTS POSTAGE FOR BROCHURES and answers TO U.S. ADDRESSES, MORE FOR FOREIGN. DO NOT SEND ENVELOPES, they will not be large enough! IF YOU DO NOT INCLUDE POSTAGE, YOUR LETTER MAY NOT BE ANSWERED! We are sure you can understand why.

WE DO NOT ACCEPT "COLLECT" TELEPHONE CALLS! PLEASE AVOID USING THE PHONE for questions, it causes us to stop our work, and other inconveniences. YOUR LETTERS ALLOW US TO ANSWER AFTER RESEARCHING THE INFORMATION DESIRED, and gives us a "hard copy" for filing. IF YOU DO NEED QUESTIONS ANSWERED, which is a part of the services we offer, BE SPECIFIC! Give us ALL the information you have in first letter!

ADAM, in some respects is now a dead issue. Production lines for ADAM original items no longer exist. This makes ordering and supplying extremely difficult. We do our best under these circumstances. We have to order on a when is, where is, as is, how much it is, deliver when possible basis. IF YOU ARE NOT WILLING TO BEAR WITH US UNDER THESE CONDITIONS, WE SUGGEST YOU SWITCH TO IBM.

ALLOW FOUR TO SIX WEEKS for shipping, and before writing us about orders you have placed. SOME ORDERS ARE SHIPPED SAME DAY RECEIVED, others may be delayed because of supplier or production schedules, some require reordering. placing us at the mercy of the person from whom we order. Be completely specific about what you order. We want to be certain that you get what you order!

If you ignore our policy of NO PERSONAL OR COMPANY CHECKS FOR MERCHANDISE, there will be a loooooooooooooooooong delay in processing your order. Do not send personal checks and ask us to hold merchandise until check clears! The item(s) may be gone by the time the check clears, because MO's and CC's take precedence.

Thank you for your attention to the above, and rest assured we shall do everything possible, within common sense limitations, to please you.

IF YOU ARE NOT A MEMBER, ADD \$20.00 MEMBERSHIP FEE TO ANYTHING YOU ORDER! WHEN YOU ORDER FROM US, WE ASSUME YOU HAVE READ THIS PAGE! USE IT TO ORDER!

\*\*\*\*\* A D A M L A N D \*\*\*\*\*

795 Garfield  
Lander, WY-USA  
82520

PLEASE GIVE ALL REQUIRED INFORMATION. PRINT PLAINLY, OR TYPE

DATE \_\_\_\_\_

NAME \_\_\_\_\_ PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE or PROVINCE \_\_\_\_\_

COUNTRY \_\_\_\_\_ ZIP \_\_\_\_\_ ORDER NUMBER \_\_\_\_\_

WHAT COMPUTERS DO YOU USE, OTHER THAN ADAM? \_\_\_\_\_

QTY	STK NUMBER	DESCRIPTION	PRICE	TOTAL

RETURNS: Before returning any item, a return authorization number must be obtained!!!! Returns without authorization number will be refused!

Hdlg. Ins. Shpg \_\_\_\_\_  
Sales Tax? \_\_\_\_\_  
Grand Total \_\_\_\_\_

Cash, M.O. or Certified Check ONLY!

THIS FORM MUST ACCOMPANY ANY RETURNS. WITHOUT THIS FORM YOU WILL NOT RECEIVE CREDIT, AND WARRANTIES WILL NOT BE HONORED.

PACKED BY \_\_\_\_\_

ORDER OK \_\_\_\_\_