January 1988

Dear Fellow ADAMite,

Let's hear it for 1989! It looks like another "Anything Can Happen" year for the ADAM community. What WILL happen, though, is anybody's guess. One thing is sure... a lot will depend on how supportive we ADAMites are of each other. The past two years have proven that there's nothing we can't do if enough of us want to and will stick together. So let's.

I guess by the time this letter reaches you, everyone will have already made their New Year's Resolutions. In case you need a few suggestions, though, feel free to add these to your list:

BE IT RESOLVED: In 1989 I will...

1. Clean my drives regularly. OK, semi-regularly.
2. Make backups of all important files and irreplaceable programs. No exceptions.
3. Unplug my computer and modem, without fail, whenever there is a chance of a lightning strike.
4. Support my favorite vendors, and let them know that their faithfulness is appreciated.
5. Dream the impossible dream: Make an honest attempt at organizing my stuff so that I can find what I need when I need it... at least ONCE in '89.
6. Make some progress. Polish existing skills, but even more important, learn something NEW once in awhile.

WHEW! That's enough for ME. And that's not even counting my major aim, which is to answer people's letters much faster than I was able to last year. If I accomplish nothing else this year, I hope I can manage THAT! So, I feel a little silly asking you to write me still more letters; but, that's exactly what I want to ask. Will you take a few moments from time to time, to let me know what you want to see in the newsletter?

The first meeting of 1989 will be this Sunday, at 1:45 PM.

January 8

See you Sunday!
- Pat

Behind the Scenes

A few issues ago I mentioned that we'd heard from Faye Deere, secretary of the Emerald Coast AUG, and that we would see if they wanted to trade newsletters. Well, we did and they do, and we are. Welcome, ECAUG! We now have two issues of their newsletter, AUGER, and that's enough to be able to tell that Faye Deere is one hard-working lady. Much of the work therein is Faye's original writing. ECAUG seems to be, like MOAUG, geared somewhat to the less affluent and/or less experienced ADAM owner. This will be a helpful source!

Sorry to have prematurely announced the acquisition of VDE26. I'm not sure whether or not it works, as I've discovered some "bad blocks" during a routine check. At least, Backup+ 3.0 seems to think so. And I'm not familiar with the program, so am not sure how to check it out. Anyone want to take a crack at it?

Ricki Gerlach sent us a nice Christmas present... a volume he's released as PD to his German AUG. I THINK he's donating it to us as PD, too, though I will have to check before we distribute it. If so, it would make a nice Christmas BONUS! for NEXT year...

You will probably notice in this issue that I have finally started to experiment with the dot matrix printer I got a few months ago & didn't have time to fool with. Thanks to the folks who came to my Open House and were so interested in PowerPAINT that I had to learn a bit about the printer; and thanks to Rich Lefko, Ron Collins, and others who supplied me with printer software. I hope everyone will be understanding when I horse around with different type-styles and such. All people with new printers seem to go through this. Many, it is said, recover fully and go on to lead relatively normal lives.

All computer graphics are designed using pixels, which are just square shapes that are turned "on" or "off" depending on whether you want them to be filled in or empty. Low resolution graphics use larger squares, thus their "blocky" appearance. Sprites, fonts, clip art, turtles, and fonts are designed pixel-by-pixel, so they have a much smoother appearance, but when you get right down to it; they are just smaller squares. That's why designing graphics on a computer is a totally different activity than drawing by hand.

I know chances are good that you are all "holidayed" out, and that the last thing you want to see right now is another batch of Christmas trees and teddy bears. But over the holidays, when my daughters were working on cross-stitched ornaments, we suddenly realized that the patterns are all in little squares (DUH!) If you are one of those who would like to work more in graphics but don't seem to come up with ideas to work with, then such patterns are a good source of inspiration. If you work with Sign-Shop, so much the better... SignShop pictures bear a strong resemblence to cross stitch! So, holidayed-out or no, I'm printing a page of patterns I borrowed from my kids (they are reduced from actual size. The patterns, that is; not the kids!) Some of the patterns won't work as they stand, because they show a single stitch that you can't use in low-res graphics. But they're a good jumping-off point.

Does someone in your family have a hobby that involves using cross stitch or latch hook patterns? If so, you may have a treasure trove of graphics design patterns around the house!

LATE-BREAKING NEWS: JIM CLEMENTS OF CANADA, WHO HAS CONTRIBUTED TO THESE PAGES HAS BEEN IN FLORIDA FOR SOME TIME; HE HAD INTENDED TO VISIT US, BUT WAS INVOLVED IN A SERIOUS ACCIDENT & HAS BEEN LAID UP IN TAMPA'S COMMUNITY HOSPITAL. HE ASKED ME TO WISH YOU ALL A HAPPY NEW YEAR; AND WE WISH HIM A SPEEDY RECOVERY!

HARDWARE CORNER: FIXING THE ADAM PRINTER

The following article by Pastor Bob Yingling appeared in the August, 1988 issue of *Nibbles and Bits*. The short addition recently appeared in the MOAUG mailbox, sent by Ricki Gerlach of the ADAM Users of Germany. Ricki, who is becoming renowned for his quality commercial graphics, also drew some very detailed diagrams, which I'm sure will interest you (see next page!)

PRINTER FIX

by Pastor Bob Yingling

I own an ADAM computer and have added a second data drive and a 64k expansion board. I also have had occasion (by necessity) to "get inside" my computer for various reasons. The latest situation involved a problem with my printer.

I was printing church letters recently and got to the last one when the printer just seemed to go "nutso"! When I would initiate the PRINT function, the roller would index the paper about half-way out and then shut down. The screen would go through the "finish print" sequence and then return to the entry level SmartKey headings.

Knowing that I had nothing to lose (it's broke anyway, right?) I tore into the printer. As I was unscrewing the lid I heard a piece of something rattling around inside. It turned out to be one of the contact legs of a micro-switch located under the roller's drive gear. In order for the roller to set up in the right position to begin printing, an extension (or 'tang') on the roller gear would come around and physically close the contacts on the micro-switch. When the switch contacts were closed, the roller would stop indexing and the printer would function normally.

I found the solution at a local Radio Shack store. There I purchased a "micro-switch with roller" for $1.59 and one package each of machine screws and nuts, at 99 cents each. The only critical part of the repair was in determining the proper alignment, angle and height of the switch.

As the roller gear with tang turns clockwise, the switch must be mounted with the roller to the right and tipped slightly to the left with the roller facing into the striking tang. I found that I could easily drill through the back of the gear housing and insert the longer machine scres. The heads of the screws ate not in the way of anything back there. Then I locke the screws down with nuts and ran a second nut on each screw to adjust for the height of the striking tang. After soldering the two wires to the "normally open" poles of the switch, I mounted the switch on the two matching screw studs and locked it down with two more nuts.

Alignment and height were both OK. The tang on the roller gear strikes the roller of the micro-switch on the first trip around. The switch makes instantaneous contact and (WHEW!) I'm back to printing out my important church letters.

I hope that this information will help others who've experienced that "lost" feeling when THEIR computer experiences the same symptoms.

SHOPPING LIST

RADIO SHACK PART NUMBER 275-17 microswitch with roller
RADIO SHACK PART NUMBER 64-3010 machine screws
RADIO SHACK PART NUMBER 64-3017 machine screw nuts

MORE ON PRINTER FIX

by Ricki Gerlach

First, thanks to Pastor Bob Yingling, and Nibbles & Bits, for the article on fixing your printer when the micro switch breaks in the gear box. I had my printer quit for the same reason, and being in Europe, ended up purchasing a complete printer from American Design Components just for the gear box and micro switch. Now, thanks to Pastor Bob Vingling I have another complete working printer again, which I plan to use with another ADAM.

The parts needed to replace the micro switch cost a total of $3.67.

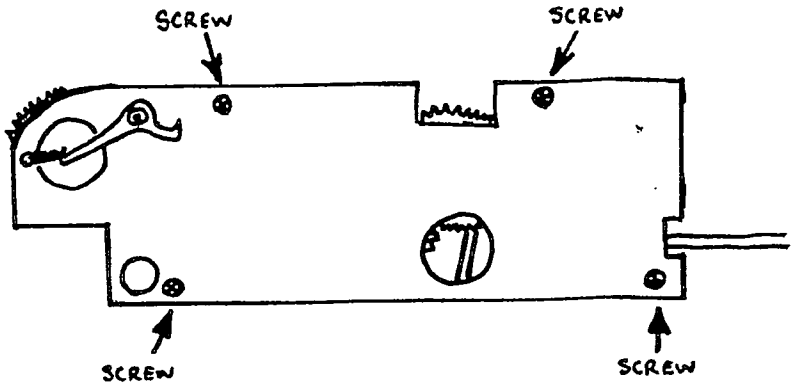
One thing that Bob left out of his instructions was the proper location, and which terminals to solder the leads to. The ADAM micro switch has only two leads, but the replacement has three. After trial and error, and using a qualified computer technician (R. Schellhorn, whom I have the privelege of working with) to do the actual work, we had the printer in working order in less than an hour. The work is simple to do, and anyone can perform it; you don't need your own computer technician to do the work.

Using Bob's instructions, we installed the micro switch, and then did the following detailed drawings so that anyone with little or no experience can fix the printer.

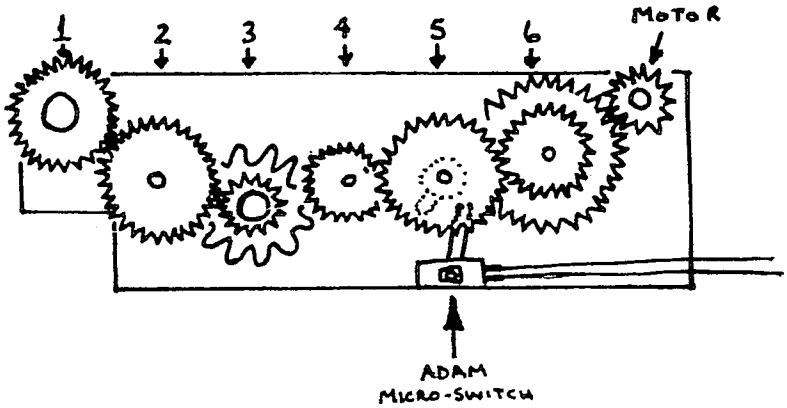
Once again, many thanks to Bob Yingling, who first discovered the solution to a perplexing problem.

For all those ADAM users in Europe, you can gt Radio Shack parts either of two ways; have family or friends send them to you from the states, or visit any Tandy store (located only in Belgium on the continent) for the parts. Tandy stores are just like Radio Shacks back home, and are owned by the same company.

ALL VIEWS ARE AS SEEN FROM FRONT OF GEAR BOX

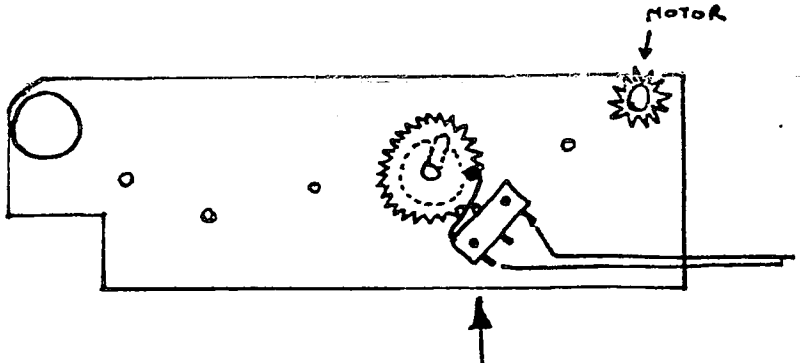


REMOVE 4 SCREWS AND COVER COMES OFF.



WITH COVER OFF, MARK YOUR GEARS 1 THROUGH 6 SO YOU WILL NOT BE CONFUSED LATER. REMOVE GEARS.

REMOVE MICRO-SWITCH AND DE-SOLDER.



DRILL TWO HOLES AND INSTALL MICRO-SWITCH AS SHOWN.

SOLDER LEADS TO THE TWO OUTSIDE TERMINALS.

ROLLER MUST MAKE CONTACT WITH LUG ON BACK SIDE OF GEAR # 5.

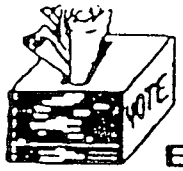
USE
RADIO SHACK
64-3010 SCREWS
64-3017 NUTS
TO INSTALL MICRO SWITCH.

RGerlach, '88

Diagrams by Ricki Gerlach

ADAMites have always been intrigued by the idea of making their own data tapes. Many experiments along these lines yielded poor results. Then came Syd Carter's MEGACOPY, a hardware attachment designed to make the process simple and foolproof. There was a snag, though... the software that came with it was copy-protected, so that the user could not make backup copies for his own use. MOAUG printed a negative review on the device. When that restriction was removed, the value of the device escalated, and we printed a positive reassessment. Syd hasn't rested on his laurels, however; he has continued to make improvements to his handy formatter. The following review appeared in the December, 1988 issue of Nibbles and Bits.

THE BALLOT BOX



MEGACOPY

REVIEWED BY MEL OSTLER

Some time ago, I wrote an unsolicited review of the "MEGACOPY" device tape formatter by Syd Carter of TRISYD VIDEO GAMES. Well, I again have the inclination to do so.

I'm not going to write a review of the same device as I evaluated then. No, I have since obtained the latest version of that device, and it is really impressive, and that is what I wish to discuss. The ease of use and trouble-free operation are my motivation for taking time out from my other writing endeavors to tell all interested about it.

Now don't feel that I have stock in the company or anything of the sort. I don't. It is just that on occasion I am greatly impressed with something, and that is when I feel it only fair to the creator(s) thereof that I share my feelings with others inasmuch as it may be within my ability to do so.

I wrote in the previous review about my impressions concerning the creator of this device; thus I'll not go through that again. But I must say that further communications with Mr. Carter have done nothing but strengthen my previously described feelings concerning his character and his dedication to ADAM users.

But perhaps something which I did neglect doing, which seems to be a bit of a habit of those of us who on occasion review ADAM software and hardware, was that I failed to adequately describe the system to those who might want to know a little more about it physically. The device consists of a small box measuring 1" x 2" x 4". (Sounds like the builder of the box is definitely into binary numbers, doesn't it?) This box contains the circuits which are the heart of the device and externally there are four leads coming from the left end of the box (two are 8-conductor ribbon cables and two are 9-conductor cables.) On the front of the box are two small LED's and to the rightof them is a two-position toggle switch (push for 'on'; push again for 'off.')

The four ribbon cables are supplied with male and female connectors so that the device can be placed electrically between the second tape drive and the ADAM, ie, two of the cables attach to to the cable running from the drive (which would otherwise be attached directly to the ADAM), and two of the ribbon cables attach to the ADAM in place of those ordinarily used there from the second drive.

What the little box does is that it just sits there while the ADAM is being used for whatever ordinary application the user makes of his computer. As Elmer Fudd used to say in the ole days, "Th-th-that's all, folks!" But don't be deceived by such simplicity! The box has a few tricks of its own.

You see, when the switch is pressed and that little "power on" LED lights up, that little box allows the "Sydoftware" (which was loaded into ADAM) to control the second drive in relationship to the first drive. Ah! I perceive that I have lost a few of you. Perhaps a short "run through" would eliminate any confusion at this point.

A tape and excellent instructions accompany the delivery of the little box. The documentation (instructions) include easy-to-follow instruction on how to connect the box, as well as Syd's personal phone number if you would rather have him personally "walk" you through it. Once connected, the wires just fit in the little opening in the space between the ADAM console cover (which most of you know by experience just lifts off) and the top of the console. This is done so that the box can just sit on top of the ADAM forever.

After connecting the box and turning the power on, one inserts the tape in the first data drive and pulls the reset switch to load the tape. This is a right directory tape with only a short section formatted (just enough to accomodate Syd's formatting program.)

Once loaded, the screens give all of the necessary instructions, although the documentation also speaks of the various screens and further explanation can be found therein. I found need for such help only on the screen asking what kind of tape I was formatting in one particular case.

The first screen asks for the user to decide if he has need to synchronize two drive speeds. Of course this is a 'yes' the first time. That choice takes the user to the instructions which tell the user in easy-to-understand terms how to set the drive speeds, using the program just loaded.

(continued, next page)

MEGACOPY REVIEW

by Mel Ostler

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Once the speeds are adjusted to a reasonable proximity of one another, the user may close the cover and go to the format choices. Here he can decide to format center directory, right directory, Donkey Kong, Donkey Kong Jr., and others. There is a variety which fits the needs of all.

Now at one point here the user is instructed to insert a master tape, preferably an original Coleco tape, and a tape to be formatted, and then to turn on the little white box. A quick push of the switch illuminates the 'power on' LED. From there the device just goes on doing the formatting. No more buttons need to be pushed at all. The screen has what Syd has humorously called the "microspy activity" which mesmerizes the user as he watches which block number is being formatted.

This version is a definite improvement over the first and second models.

When completed, the program rings a bell. What a snap! When all finished, the user turns the power off and goes about doing that which he is good at going about doing. The next time he runs the program, he need not be bothered with the tape drive speeds, although it would be good to set them once a year anyway to insure that they are reading and writing correctly.

Now let me say a bit about quality. The box allows the second tape to become slave to the first or to operate independently of the first. The second tape receives the format from the first drive tape. For this reason the tape in the first drive should be one of good quality, without too much mileage. I use the original BASIC tape that came with my ADAM inasmuch as soon after purchasing it, I added a disk drive. I use a new 'Buck Rogers' tape for right directory tapes.

Several users here in Las Cruces have used me to supply them with data tapes, but it is not one of my occupations to furnish ADAM owners with supplies. I have never had a complaint about the tapes, though.

My recommendation? Get one! If you don't have the cash, at least get a 'version 2' from someone and talk him into getting the new 'version 3'.

There is nothing to compare with the security that one feels when he can back up his system. I wish I had that security for my disk repair needs.

Manufactured by:

TRISYD VIDEO GAMES
26 FLORENCE CRESCENT
TORONTO, ONTARIO
CANADA M6N 4E4

HOW A FORMAL CIS CONFERENCE WORKS

Or: What are those rules I'm supposed to know?

by Rob Friedman, CIS sysop (ADAM CP/M)

As a lot of you know, when we have a CO (or COnference) on CompuServe, most of the time it is very informal, similar to a CB situation. When we have a formal CO, it gets a little different. Usually Tim or myself will run it (there can be others) and we will let you know when to talk, and who goes next. The formalities are as follows:

If you are given the "ok" to ask a question or speak, if your question is addressed to a specific person, please state his name in the question, ie: >Rob, why is that so? ga *[Editor's note: ga stands for "go ahead"]*

If you are going to continue talking and it will run over the line and a half limit, use three dots to signify that you will still be talking "..." ie: > and this is the reason why...

If you have finished talking, use the "ga" to show that you are done. Sometimes we also use the period "." or a question (above.) example: >and that is the reason. ga

To be recognized by the "chair", use a "?" which would signify to Tim or myself that you wish to speak or ask a question. Periodically, we will direct questions to specific people t answer. After there is a break, we will let you know when you may talk. ie: Joe > ?
Response: Sysop Rob> Ok, Joe, go ahead.

No jokes withstanding (as far as "Robert's Rules of Order"), if these items weren't done, the conversation would degenerate into chaos (which is fine if there are very few people, but if it gets crowded... Formal's the way.)

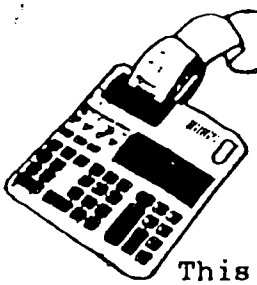
Also... Tim or I might give you the ok via a SENd. (You would see the message we send, but no one else would.) To see the available commands, use the /? command.

And a last item... the ADAM CO's are on Sunday nights, at 10:00 PM Eastern time,on channel 18. (Use the /CH 18 command, or /RM 18) Hope to see you all here online!

Rob Friedman
Sysop ADAM CP/M
3814 Ocean Ave. T-2
East Rockaway, NY 11518
(516) 593-8798

★This article was reprinted from the December, 1988 issue o Puget Sound ADAM Newsnet, available at just $5 per year from:

PSAN, 22607 SE 322, Kent, WA 98042



According to My Calculations....

Rich Sums Up ADAMCALC

by Richard Lefko

This month I'd like to continue my reviews of original, and still available, COLECO software. I would have to rate this software as one of my all time favorites!

ADAMCALC (AC), as the name would imply, is a spreadsheet program. What's a spreadsheet you ask? Briefly, a spreadsheet is a piece of paper with information on it, usually numbers, divided into rows and columns, to help you work with numbers. ADAMCALC is merely an electronic grid already divided into rows and columns. The most common and widely used example of a spreadsheet that most people use would probably be your checkbook ledger.

So, what can a spreadsheet do for you? Well, I'll admit, at first I had a problem finding uses for AC, but as I began to work with it more and more, I began to find many uses. For example, I have a spreadsheet that will tell me how many miles per gallon, cost per mile, and total mileage, my two cars and motorcycle have gone. I can hear you ask, "So what do you use that for?" Well, using this spreadsheet tells me which car would be more economical to use, say, for vacations or other long drives, thus saving me money! I have another spreadsheet set up to act as a family budget. It helps me track where my money goes (and boy, does it go!)

After loading AC into your digital data drive(it can easily be copied to disk) pull the reset and AC displays small pictures of whatever you have hooked up to your ADAM such as, keyboard, tape drives, disk drives, 64K card, etc.. It then asks if you'd like to use the online help screens. If you press the yes smartkey you will then have the capability to access these online help screens by simply pressing the "?" key. These screens have brief explanations of almost every AC feature and can be very useful when setting up a spreadsheet. There is a drawback to using the online help screens, and that is it reduces the active number of cells you can utilize within your spreadsheet(just relax and keep reading, you'll understand what I'm talking about shortly). I believe the help screens were meant to be used only while one is designing a spreadsheet. Once designed and saved, AC can be re-booted with the online help screens turned off allowing more room within your sheet.

What's a cell? A spreadsheet is made up of columns and rows. Rows on the left margin, columns along the top. A cell is everything in between. A cell is where you type in your information and in AC a graphic hand is always pointing to the current cell. For example, 1,1 is row 1, column 1, that's a cell. So is 5,4. That's row 5, column 4, and you can go all the way up to 255,255. Within these cells you can type words, numbers, or formulas. The formulas are what you use to manipulate the information in the cells. For example, if you had the number 10 in cell 1,1 and the number 5 in cell 1,2, then in cell 1,3 you typed this formula, (1,1)+(1,2), the number 15 would appear in cell 1,3 (not the formula). Therein lies

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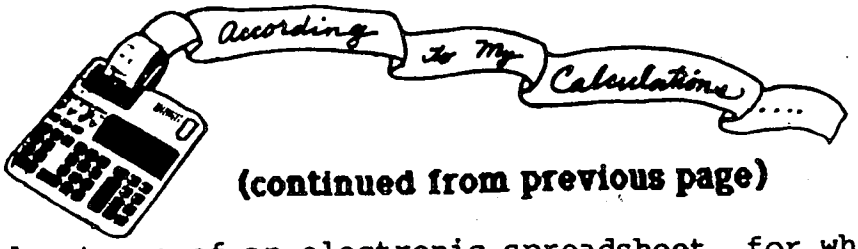

by Rich Lefko

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the advantages of an electronic spreadsheet, for whatever number you type into cells 1,1 & 1,2, cell 1,3 will always display the correct sum. Now let's take this concept a step further. If you were trying to figure out how much a $5,000 loan at 13% interest would cost per month, you could set up a spreadsheet to do that, but you could also plug in $4,000 to see what that would cost. You could change the % up or down to see how it would affect the monthly payment and so forth. Got the idea?

There are two ways to set up a spreadsheet. We've just finished discussing one way, where you type in the formulas and everything else. The second way is by using templates. My family budget spreadsheet is a public domain template that is a spreadsheet shell. This shell is all set up to calculate your data (formulas, rows, columns) and all you do is insert your data. There are many PD spreadsheet templates out there and the AC data pack has seven templates ready for you to use. These are: loan payment schedule, loan cost analysis, home budget, home inventory, IRA planner, balance sheet, and breakeven analysis.

ADAMCALC has many, many features, far too many to list here, but here are a few of the major ones: windows, print spooling with the 64K or larger card, online help, format (global,column,row,cell), auto/manual recalc, hold/release, insert, go to, sort (hi to lo, lo to hi), and primitive bar charts. Pressing the wildcard key gives you access to an online graphic calculator and it even lets you enter the results into a cell! There is a variety of print options: row, column, window, sheet, and if you have a dot matrix printer, then I would suggest CALCPATCH by Orphanware (Digital Express, SDP $8.95). It directs all printing to your DMP.

ADAMCALC is an amazingly powerful program that is very user friendly, and at $15.95 (Digital Express, Subscriber Discount Price), it just can't be beat! I've only scratched the surface of the features of AC and what it can do. Using AC really helped me learn 20/20, a more sophisticated spreadsheet program I used at work, simply because it has many of the same commands.

ADAMCALC comes with a nicely bound 155 page manual that is very easy to understand.

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Editor's Note: MOAUG has exactly two copies of ADAMCALC left at our special rates of $10.50, in original wrapping. The manual alone is well worth the price. If you do NOT have this superb spreadsheet program, act NOW before they are all gone. (We still have several packages of LOGO at the same price, and varying quantities of other Coleco software priced from $5.50 to $10.50. Check before you buy Coleco software from anyone else... our price is virtually impossible to beat.)
~~~~~~

PHRASE CRAZE CONSTRUCTION SET

Reviewed by Mike Keith of SLAUG

This program was written as a companion to *PHRASE CRAZE*. Both programs are available from Reedy Software. The purpose of this program is to create your own additional Phrase Paks. With this program you can have a limitless supply of phrases.

The instructions are well-written, leaving nothing to question. Please DO READ THE INSTRUCTIONS. You should do this with any new program, but it is a must with this one. There is a special method for saving your Phrase Paks and building a useable medium. The instructions make this clear.

The program will give you options for your work. You can load a Phrase Pak from a medium. You can initialize the work area for beginning a new pak. Or you can continue your work with a pak already in memory.

When you edit an existing pak or build a new one, everything that you need is on the screen. Each pak contains 30 different puzzles along with a clue for each. The clue can be up to 12 characters long. Each puzzle can be up to 4 lines with each line up to 13 characters long. You have options of moving from one puzzle to another (all 30 are stored in memory), editing just the clue, or editing the entire puzzle. If your lines are less than 13 characters the program will automatically center them for you. It appears on the screen in the format it will take in the game so that you can see what they will look like.

This program does much of the work for you. Like PHRASE CRAZE, it is quite well done. The hardest part is still yours, however... thinking up the phrases. Again, I have found this to be a nice family program. Everyone in my family has helped in contributing phrases. It is nice to see your own paks grow right in front of your eyes. You will find it to be a valuable addition to your library.

I wanted to share some general thoughts and feelings with you about my xperience with REEDY SOFTWARE. While I feel that product reviews are quite mportant, I feel that a review of the company is a good idea. I feel that way about REEDY SOFTWARE.

In this day and age all of us are used to going into a store, deciding what we would like, purhasing it, and walking out with it. We ADAM owners are a little jealous of people with other computers who can do this. We all know the feeling of sending in our money and an order and then waiting for the software. I ordered the two Phrase Craze programs on Monday morning. I enclosed a money order with my order. The following Saturday, ONLY 6 DAYS LATER, the postman did his best to fold the clearly labelled and nicely stiffened package into my mailbox. You can imagine how surprised I was at service this quick.

After several days, I used the Construction Set. After typing in all 30 puzzles and clues I found that I could not get the program to save this pak. I sent the original program back to REEDY with a letter stating my problem. AGAIN, in 6 days I had received the program back with the bug fixed. I also received a nice letter apologizing for the problem and assuring me that if any others arose, they would be there to help. I also found a pleasant surprise for, as the letter said, my trouble.

Please understand... I am NOT downplaying any other software or hardware company that carries ADAM material. I have had good luck with all of them. I am just pointing out that I have found REEDY SOFTWARE to be exceptionally quick in their handling of orders. In rating them, I would have to give them an A in response time and service. Praise should be given where it is deserved, and REEDY certainly deserves it. *(AMEN!---Editor)*

This article appeared in the November, 1988 St.Louis AUG newsletter.

Phrase Craze: Disk $17.95, ddp $19.95

Add-on Phrase Paks I & II: Disk $7.95, ddp $9.95

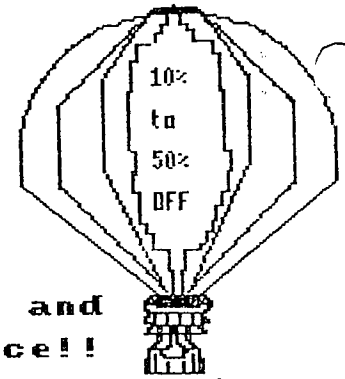
Phrase Pak Construction Set: Disk $7.95, ddp $9.95

REEDY SOFTWARE

10085 60TH STREET, S.E.

ALTO, MICHIGAN 49302

SOFTWARE CLEARANCE SALE



I've owned an ADAM since 1983 and it's time to clean out the office!!

These are not illegal copies! You get the original master plus docs(if I still have them)on the original media! These are programs I no longer use! Prices shown () are the list from either MW Ruth or NIAD, my price is listed after! ALL prices include postage unless otherwise noted!!!

ON DISK-

Quickopy Ver. 1.1-($15.95) $10
Showoff 1----------($27.95) $17
Graphixpointer-----($23.95) $14
Fileprinter--------($14.95) $ 9

ON DATA PACK-

ProofReader--------($42.95) $30
Packcopy-----------($29.95) $10
Softpack 1-E&T-----($18.95) $10
Jeopardy-PD--------($ 6.95) $ 4

FROM MICRO2-

You and your checkbook-($17.95) $10
Micro money minder($17.95) *$15
(includes ADDRESS FILER-a $17.95 value FREE!!

ON CART-

Victory-Requires the Roller Controller-NEVER USED-
(I don't own one) --------$10

FIRST COME, FIRST SERVED

REMEMBER, SINCE THESE ARE ORIGINALS (except PD), THERE IS ONLY ONE (1) COPY AVAILABLE!!!!!!!!!

PUBLIC DOMAIN-

$4 on disk-or send a DDP + postage and $2 (I'm easy!)

NIAD PD-
BASIC-#1,#4,#17
CP/M-#7,#12
ADAMCALC-#1
Basic Utilities-#1
Pinball Games-#1,#2

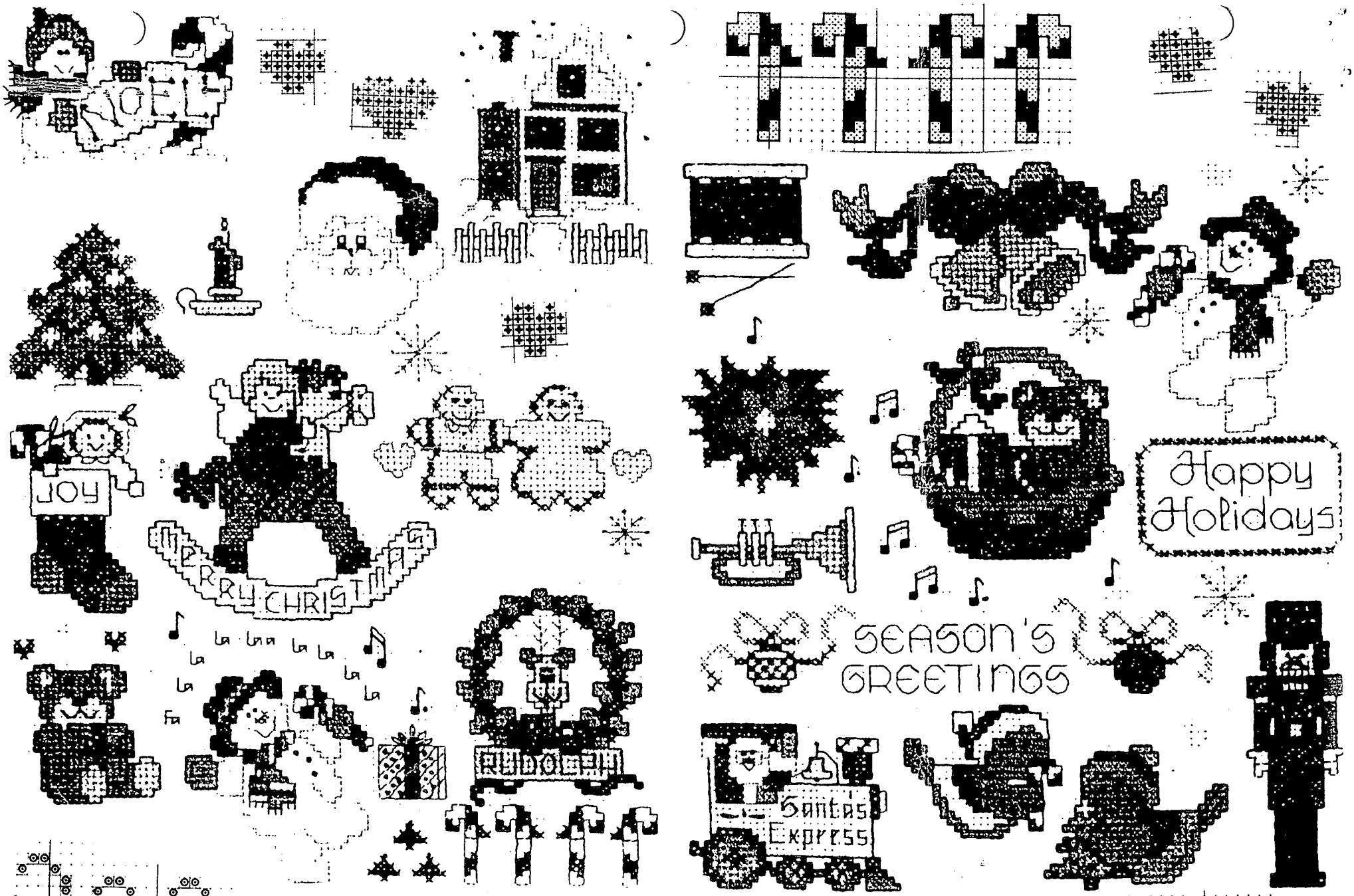
OTHER PD-
Trolls Tale
Super SubRoc
Speed Tester
ADAM Diagnostic

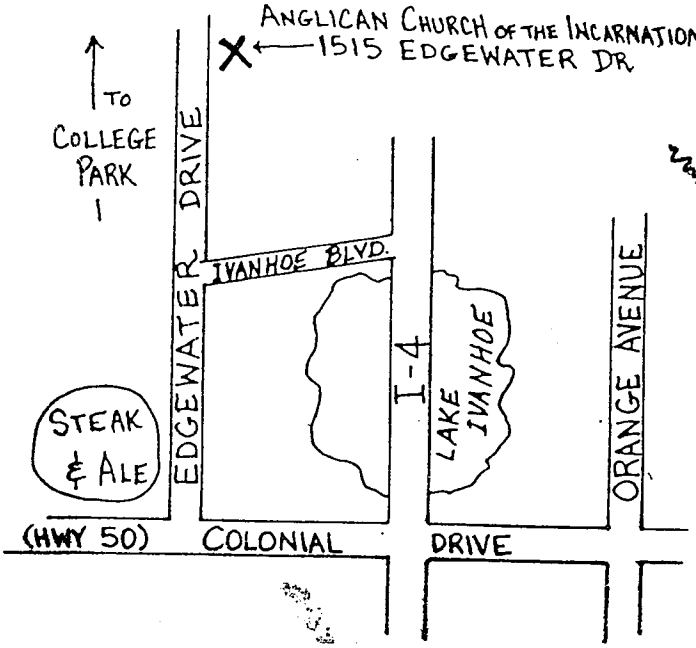
If you have questions, comments, concerns, or if you don't like the prices, write me, call me, visit me, but by all means CONTACT me, this stuff MUST MOVE!!

Call me if you like, it's your money!!

Richard Lefko
499A Boston Rd
Groton, MA 01450
508-448-3422

PRIVATE COLLECTION- ONE COPY EACH
(WRITE FIRST!)



IDEAS ARE WHERE YOU FIND THEM.
THESE DESIGNS, LIFTED FROM A CRAFT PATTERN BOOK, MAY STIMULATE THE IMAGINATION OF POTENTIAL GRAPHICS DESIGNERS. TOO BAD WE CAN'T GET COLOR!

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