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THE  **SNUGLETTER**
FROM THE **SOUTHERN NEVADA USERS' GROUP**

Vol. 5 - No. 8

August, 1987

NEXT MEETING

MONDAY, AUG 10, 1987 - 6:30 PM

CHARLESTON PLAZA LIBRARY MEETING ROOM

PRESIDENT'S MESSAGE
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The plans and arrangements for the TI Fest to be held here in Las Vegas are finally coming together. At the last committee meeting, we agreed to call the show Tlxpo88 in addition to TI FEST WEST.

We have signed a contract with the Palace Station Hotel to use approximately 6000 square feet of their meeting space. This will allow us to set up approximately 30-40 booths. The Palace Station has also offered us a special room rate of \$42 per night single or double occupancy for our attendees and vendors. This price will include a meal at the Iron Horse Cafe. The hotel has set aside 75 rooms for us. We must have all reservations for these rooms by late January or the unused rooms will revert back to the hotel. After that, they will only be available at their regular rates on a space available basis. Anyone wishing to make room reservations for the show may do so by calling the Palace Station directly at 1-800-544-2411 or if you're calling from inside Nevada, it's 1-800-634-3101. Be sure to tell them that you are making reservations for the Tlxpo88 / TI Fest West! If you thought it was convenient having the Motel just half a block away at the L.A. show, You'll REALLY like having the hotel in the SAME BUILDING in Las Vegas!

Because we haven't as yet figured out what all our major expenses are going to be, we haven't set any prices as yet for vendor booths or admission tickets. The committee did decide that there would not be any "comp" tickets to the show. We have agreed that even the Tlxpo88 committee members will buy tickets just like everyone else. We know what some of our expenses will be. We have a pretty good idea what some of the others should be. We know that there will be some expenses that we haven't thought of as yet. That is

why we want to make sure that we cover as much of it as we can with vendor and attendee receipts. As soon as we hammer out the details of setting up the show, security, power, mailings, etc., we will publish our booth and ticket prices.

At last month's regular meeting there were two pleasant surprises. First, we had a packed house! I didn't get an official count, but I know I saw almost every SNUG member I could think of. There were a number of new faces too. We had two new members join at the meeting. I'd like to take this opportunity to say welcome to Wayne and Cindy Mitchell. We at SNUG are glad to have you as part of our little group.

Last month was election month for SNUG. Which brings me to the second surprise. I'm proud to say that we had voluntary candidates for all offices. I think that's the first time this has happened since I've been involved with SNUG. Thanks and welcome to Steve Buchanan, our new Vice President, and Don Mitchell, our new Secretary. Thanks to Bob Bieber, who is returning with the double duty of Treasurer and Program Librarian. Thanks to Rudy Johnson for sticking it out with the newsletter (and putting up with my last minute attitude towards this message each month). Thanks to Dee Wellman who's unofficial assistant/alternate newsletter editor status has now become official (and who called me last night to remind me that the deadline for this article had already passed). Thanks to Lance Wilson for agreeing to stay on as Newsletter Librarian. While I'm busy thanking people, I think it should be said that the outgoing officers, Bob Sherburne as vice president and Dee Wellman as secretary, deserve all our thanks for a job well done. Thanks guys, without the help of people like you, this club would have folded long ago.

continued

PHOTO COPY OF ORIGINAL

And now, on to other business. This month's meeting will include a demonstration of the Dots Perfect ROM chip modification for the Epson MX 80, FX 80, and TI Impact printers. Gordon Leonard has this package installed in his printer and says it's GREAT! We will also be looking at some of the fine work that Barry Traver has been doing for the last year with his magazine-on-a-disk publication "The Genial Traveler". Of course, we will have our raffle again this month. The raffle pot has been sweetened this month by several donations from our new secretary, Don Mitchell. Thanks Don!

At the TIxpo88 committee meeting, we decided to have a contest to design a logo for the show. The only prerequisites are that it be in TI-ARTIST, GRAPHX, or some other format that can be converted to one of these formats. The problem is that we don't have much time for the contest, so if you have any artistic ability, please get your entries ready as soon as possible. We will probably have to decide before the september meeting, so if you want to enter, please contact one of the committee members at the meeting or by phone. Better yet, have your entry ready in time for the meeting!

The 9640 Saga... As most of you know by now, I did receive my Geneve back from Myarc in time (barely) to demonstrate it at our last meeting. Shortly after that meeting, I received the upgraded ROM chip (version 60.97) and a disk that was supposed to have the DOS on it. Les Merryman had told me that there was some kind of a bug in it, but he didn't know what it was. It didn't take too long to find out. It wouldn't even boot! Actually, the problem with booting was caused by a bad file transfer from Compuserve or Genie. Fortunately, Steve Buchanan had a good copy of it and gave me one. After using it for several frustrating hours, I found out what the REAL bug was. everything seemed to work ok until I tried to write to a disk. It wiped out the disk! Unaware of the problem, I went on to try to reinitialize my Horizon Ram Disk, which was configured to drive 6 and sitting at cru base >1400 as indicated in the "micro docs" that came with the DOS. I realize that with the Horizon E-PROM you don't have to initialize the ramdisk, but since none of the built in calls were working, and I was having trouble getting the system to recognize it, I figured "what have I got to lose". It didn't take long to find that out either! Instead of initializing drive 6 where my ramdisk was supposed to be, it initialized drive 2 where my only complete ramdisk backup was! Ouch!

The next day, I found out that a corrected version of the DOS was on Compuserve. I removed the 9640 (which by this time was good only for making a VERY nice picture of a swan) and reinstalled my TI cards. I

loaded Fast-Term and called Compuserve. The file is 257 sectors long. Even at 1200 baud, it took nearly 1/2 hour to download it. I'm pleased to say that this version works very well. From the ramdisk, it will boot in about 2 seconds (based on the time it takes to get the first prompt after the ramdisk light goes on). It actually takes a bit longer than that because there is about a 5 second delay after power up (to let you look at the pretty swan no doubt) until the ramdisk is accessed. It's hard to believe that you can load 257 sectors that fast!

I have had no trouble reading or writing to disk (even at some of the higher speeds). I have tried a wide variety of TI programs with great success. Nearly all BASIC EXTENDED BASIC programs will run. Not only that, but there are 5 different speeds that they can be run at! The slowest is just a tad faster than the TI in either BASIC or XB. The fastest seems to be about twice as fast. I haven't as yet run any benchmarks to test it for sure, but that is my impression of the speed difference.

The ASSEMBLY stuff is a mixed bag. I'd say that about 50% or so of the programs I've tried work fine. The rest either work partially or totally lock up the computer. Some of the stuff I tried would have really surprised me if it had worked. For instance, EXPLORER doesn't work at all. Fast-Term gives me the title screen and locks up. Omega Terminal boots and then starts throwing lower case q's all across the screen. TI FORTH boots and runs fine until you change graphics modes. anything but TEXT mode gets garbaged. Archiver II boots and runs flawlessly (it's even faster than before!). P-term works until you try to access a disk drive. Funnelwriter works fine. Dpatch (part of funnelwriter) works fine. DISKU boots and runs until you try to edit a sector. Virtually every ASSEMBLY game I tried worked fine.

I could go on like this for quite a while, but I think I have made my point. This DOS does everything it's supposed to do. In fact, there is even a 720 sector Ramdisk configured as DSK5 and an 8K print spooler built right into the DOS. The problem is that this is not THE DOS that is described in great detail in the so-far useless 9640 manual. This "DOS" is a 99/4A emulator and that's ALL. Unless you want to run a console BASIC program, you will have to load a cartridge (XB,EA,MP,etc) before you can run anything else. As a matter of fact, I can't even run the ADVANCED BASIC that came with the computer using this DOS. I can, however, run the MY-WORD word processor that I also got from Steve Buchanan. This is a very much enhanced 80 column version of TI-WRITER. If you are familiar with TI-WRITER or any of it's clones, then you will have no trouble working with this program. It's a real pleasure. Thank you Peter

COME TO #LRS VEGAS! WHERE THE "FUN" NEVER SETS!

Hoddie!

I have every confidence that "real soon now" I'll be getting the final DOS along with the PASCAL and other programs that are supposed to be bundled with this machine. For now, if I only had a Terminal program that I could run, I would be happy with the thing. Up till last week, I had 2 items on my wish list, but I finally got an ASSEMBLER to run properly. I simply loaded it through an older version of Funnelwriter and it worked!

I guess that's enough rambling for this month. See ya all at the meeting.

-JOHN-

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MINUTES OF THE MEETING  
~~~~~

July 13, 1987

President John Martin called the meeting to order. Members in attendance totaled 27 with 2 guests, Wayne and Cindy Mitchell, who also became new members of SNUG. Welcome, to SNUG, Wayne and Cindy.

John Martin demonstrated his "GENEVE" Myarc 9640 for this meeting. I am trying to think of some sort of words to describe the "GENEVE" for you members that weren't at the meeting, so, I'll just briefly go over it:

M-DOS:
(the GENEVE operating system)
Not quite the finished product, but will stand out in the Personal Computer world when completed. It is very friendly.

GRAPHICS:
The title screen gives you the insight into what this machine is capable of doing with it's 128k of VDPRAM.

SPEED:
An EXTENDED BASIC music program run at the no. 5 speed on the "GENEVE" sounds like a 33 1/3 rpm record being played at the speed of an old 78 rpm record, only faster.

MY-WORD:
(Myarc's Word Processor)
This word processor leaves TI-WRITER in a cloud of dust. The command line of MY-WORD in the edit mode says it all. the formatter is built in, tabs can be seen at the bottom of the screen for better formatting

capability, find string is very fast, there is a help section that is available, no more looking in the manual for the right command, just bring up the help screen and read. Also, the screen is 80 columns, no more "fctn. 5". MY-WORD is just a SUPER program. There is more but, too much to explain here.

I can't wait to get mine.

The SUPER-RAFFLE was held this meeting. Bob Sherburne won the VOLKSMODEM 1200 this was the Super Prize. George Tilley won and chose 25 diskettes and Dinshaw Billiamoria won and chose the locking disk file.

Items donated for raffle included a SSSD disk drive, donated by Mark Pence and a SPECIAL THANKS to Fran Boyette (of COMPUTER MAGIC fame) for donating a TI-LOGO II and Extended Basic modules.

Last but not least, the SOUTHERN NEVADA USER'S GROUP elected new (well almost new) officers. They are as follows:

- PRESIDENT... JOHN MARTIN
- VICE PRES... STEVE BUCHANAN
- TREASURER... BOB BIEBER
- SECRETARY... DON MITCHELL
- LIBRARIAN... BOB BIEBER
- NEWSLETTERS. LANCE WILSON
- NEWS EDITOR. RUDY JOHNSON
- ASST NEWS ED DEE WELLMAN
- YOUTH LIASON JOE LEAVITT Jr.

It was moved and seconded, then approved by the members present, that the membership dues of PRESIDENT John Martin would be waived for the year.

Respectfully submitted,

<< Dee Wellman >>
SECRETARY

LIBRARIAN'S REPORT-AUG 87
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by R. J. BIEBER

CONGRATULATIONS !!

Congratulations are in order for Bob Sherburne who won the Anchor Automation "VOLKSMODEM 12"ta Smart 300/1200 Baud, Auto Dial/Auto Answer Telephone Modem in the July Special Raffle. Also, congratulations to George Tilly and Dinshaw Billiamoria on their winning tickets in the July Super Raffle.

CONTINUED

PROGRAM DONATIONS !!

Credit must be given where credit is due, and in this case overdue. Both John Martin and Dee Wellman must be in competition to buy the telephone company. Both have been busy accessing GENie and other Bulletin Board systems downloading numerous programs and files. Many of those downloads are finding their way to the SNUG library via your librarian. A long overdue thank you must be extended to these unselfish gentlemen.

As fast as I can review the new data it'll be added to the SNUG Library and in many cases be featured a month or two later as part of SNUG's "Disk of the Month".

Trying to list all the new data each month would make this column too long. However; programs, program series, or text file of exceptional value will be included in this column on a month to month basis, space permitting.

AUGUST'S RAFFLE

This past month a few of our members made donations to the Raffle Pot. Mark Pence donated a used TI Disk Drive and Don Mitchell (our new Secretary) donated 4 TI game Cartridges. Also, Bob and Fran Boyett (ex-SNUG members) donated TI Extended Basic and TI LOGO I.

As I've mentioned many times before the RAFFLE Pot is constantly in need of new items. If you have any GAME or UTILITY modules lying around gathering dust consider donating them to the raffle pot. Bring your donations to the meeting. Please include instruction manuals whenever possible since my supply of original and/or copied manuals is very limited.

The following items will be in the August RAFFLE Pot:

- Complete TI-WRITER Package
- 100 Diskette Storage Box
- 25 Bulk disks w/envelopes
- TI EXTENDED BASIC Cartridge
- TI SS/SD Disk Drive for P-Box
- 2 ADVENTURE Cartridges
- w/Pirate Adventure on disk
- ALPINER
- The ATTACK
- HOME FINANCIAL DECISIONS
- MUSIC MAKER
- PERSONAL REAL ESTATE
- PERSONAL RECORD KEEPING
- TAX/INVEST RECORD KEEPING
- VIDEO CHESS
- VIDEO GRAPHS
- TI INVADERS
- TI LOGO I
- 1 Pair Joysticks w/adaptor

AUGUST DISK OF THE MONTH !

Due to a number of requests from members who didn't have Mac McCormick's TI-Disk Catalog Program, the companion program series to MCAT-PRNTR featured on July's DOM, I've included it on this month's DOM.

This months DOM features the following Programs:

- \*READ-THIS (Info on Disk's contents)
- BTHU (Ass. game-LOAD E/A OPT 3)
- BTHUDOC (Docs for Break-Thru game)
- BTHULOAD (XB Loader for BTHUX)
- BTHUX (Ass. Load thru XB Prgm)
- CATALOG (Mac McCormicks Cataloger)
- CATALOGDOC (Docs CATALOG Prgm)
- LOAD-CAT (XB Loader for CATALOG)
- LOADER-CAT (Ass. Loader for CATALOG)
- MADCOMP (MAX/RLE Picture)
- MCAT-HELP (Brief doc on CATALOG)
- OLIVER (MAX/RLE Picture)
- QSORT (Quick ASCII Sort Variables)
- QSORT/DEMO (Demo using QSORT)
- RISE'N-SUN (music w/graphics)
- TINRIT/PT2 (TI-Writer FORMATTER Tutor)

Last minute notes:

I downloaded Barry Boone's ARCHIVER 2.2 from SNUG's Bulletin Board. GREATLY improved and compatible with Barry Traver's ARCHIVER I (XB). Menu choices include: Pack, Unpack, Catalog Disk, and Catalog Archived-File. It works on both single and multiple drive systems. Self prompting and easy to use. Just remember if you are using a single disk system to answer (Y) to Swap Disk Prompt if you want to Unpack to a separate disk else the program will Unpack to the same disk it is accessing for the Archived file. It's in Memory Image format, so you can load it thru any Memory Image PROGRAM LOADER, E/A, or FunnelWeb. I'll include this program on September's Disk of the Month.

I'll see you at August's meeting. - Happy Computing

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"TI-KPO-88"  
 =LAS VEGAS=  
 AT THE  
 PALACE STATION  
 HOTEL & CASINO  
 =====  
 FEB. 27-28, 1988

Come to \*LAS VEGAS\* where the "FUN" Never Sets!

# SNUGLETTER AUG. 1987

## INTERFACING THE 9640 COMPUTER TO THE AMIGA 1080 MONITOR

by John Martin

This file is intended to explain how to build your own Geneve 9640 RGB interface cable for the Amiga 1080 monitor. I have borrowed heavily from articles written by Jerry Coffey and Walt Howe which I downloaded from compuserve. Both of these articles dealt with interfacing the 9640 to an RGB monitor. I freely admit "stealing" information from both articles to make the interface cable that I needed. I am passing on this information in this format to give an alternate method of connecting the monitor and to consolidate information gleaned from multiple sources.

The Amiga 1080 monitor makes a very good monitor for the Geneve. Unfortunately, there is NO documentation included with it that explains which pins do what on the DB-9 connector they use for RGB input.

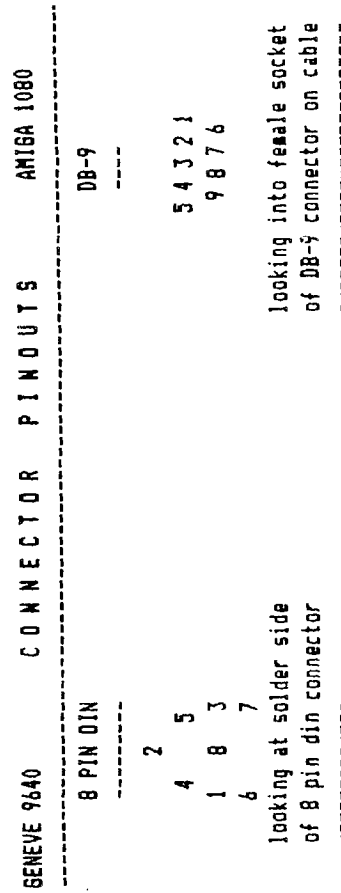
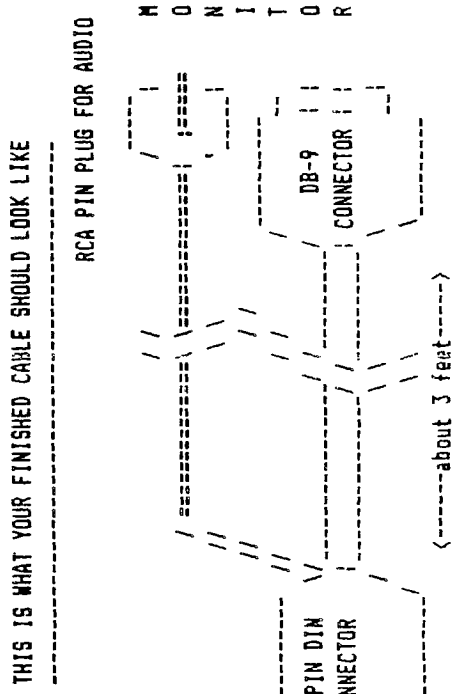
For those of you not already familiar with the DB-9 connector, it is the same one used by TI (and a lot of other computers) for their joystick port. When I made my cable, I went to Radio Shack and bought one of their joystick extension cables (part number 270-1705). It costs \$3.99 which is cheaper than one of their DB-9 connectors and a hood to cover it. With the extension cable, you not only get a more professional looking job because the connector is soldered to the cable, but you also won't have to waste time looking all over for a suitable cable. All you need to do is cut the joystick extension cable at whatever length you want it to be (be sure that you measure from the female end). I have included the color code for the wires that were in the cable that I bought. I don't know if all cables have this same color code, but I would be surprised if they didn't. So far, I haven't come up with a use for the male end of the cable, but am thinking of trying to make an adapter for my TI-MOUSE with it.

Radio Shack also sells a cable with an RCA pin plug on one end and stripped and tinned wires on the other. These sell for less than a dollar, but I don't have that part number. You will need one of these for the audio to the monitor unless you want to cut off one of the cables that come with the Amiga monitor.

Unfortunately, the 8 pin din connector is a little harder to find. Mine came from Hurlley Electronics here in Las Vegas, but I think most any large electronics wholesaler would have them in stock. The one I got didn't have any pin numbers on it, but I got a pinout diagram from Steve Buchanan (who got it from Jerry Coffey over the phone!). In any case, it was correct and the cable works perfectly (looks good too).

| GENEVE 9640         | CABLE CONNECTIONS   | AMIGA 1080                 |
|---------------------|---------------------|----------------------------|
| 8 pin din connector | wire color in cable | DB-9 connector             |
| audio/video ground  | 2-----black-----    | 1 RGB ground               |
| audio out           | 3-----              | RCA PLUG (for audio input) |
| red out             | 5-----orange-----   | 3 Red in                   |
| green out           | 6-----yellow-----   | 4 Green in                 |
| blue out            | 7-----red-----      | 5 Blue in                  |
| synch out           | 8-----green-----    | 7 Synch in                 |

**COME TO \*Las Vegas\***  
**Where the**  
**"FUN" Never Sets!**



The Amiga 1080 monitor is available through Computer Mail Order (CMO), 477 East Third St., Dept A507, Williamsport, PA 17701. Telephone 1-800-233-8950. Cost is \$259 plus shipping handling (\$7.00 to Las Vegas). This monitor also has composite video input so it will work with your TI as well!

# SNUGLETter Aug, 1987

This file will print out a page of the most commonly used commands for TI/W.

The following handy TI-WRITER commands are reprinted for the June issue of the 99'er News published by the TI Users Group of Will County, Romeoville, IL. This puts the most used commands on one page for handy access at your computer.

```
=====
EDITOR COMMAND !FCTN!CTRL! EDITOR COMMAND !FCTN!CTRL! EDITOR COMMAND !FCTN!CTRL!
=====
Back tab          |      | T |Ins. Blank line | 8 | 0 |Quit          | = |
Beginning/line   |      | V |Insert character| 2 | G |Reformat       |   |CorR
Command/escape   | 9 | C |Last paragraph  |   |6orH|Right arrow   | D | D
Delete character | 1 | F |Left arrow      |   | S |S |Roll down     | 4 | A
Del. end of line |   | K |Left margin rel.|   |   | Y |Roll up        | 6 | B
Delete line      | 3 | N |New page        |   |9orP|Screen color   |   | 3
Line #'s(on/off) | 0 |   |New paragraph   |   |8orM|Tab           | 7 | I
Down arrow       | X | A |Next paragraph  |   |4orJ|Up arrow       | E | E
Duplicate line   |   | 5 |Next window     |   | 5 |   |Word tab       |   |7orW
Home cursor      |   | L |Oops!          |   |   |1orZ|Word wrap/fixed |   | 0
=====
Load files: LF (enter) DSK1.FILENAME (load entire file)
             LF (enter) 3 DSK1.FILENAME (merges filename with data in memory
             after line 3)
             LF (enter) 3 1 10 DSK1.FILENAME (lines 1 thru 10 of filename are
             merged after line 3 in memory)
             LF (enter) 1 10 DSK1.FILENAME (loads lines 1 thru 10 of filename)
=====
Save files: SF (enter) DSK1.FILENAME (save entire file)
            SF (enter) 1 10 DSK1.FILENAME (save lines 1 thru 10)
=====
Print Files:PF (enter) PIO (prints control characters and line numbers)
             PF (enter) C PIO (prints with no control characters)
             PF (enter) L PIO (prints 74 characters with line numbers)
             PF (enter) F PIO (prints fixed 80 format)
             PF (enter) 1 10 PIO (prints lines 1 thru 10)
NOTE: The above assumes PIO. DSK1.FILENAME, and RS232 are also valid!
      To cancel the print command press FCTN 4.
=====
Delete file:DF (enter) DSK1.FILENAME
=====
Setting Margins and Tabs: (16 tabs maximum)
      L - Left margin      R - Right margin      I - Indent      T - Tab
      Use ENTER to execute or COMMAND/ESCAPE to terminate command.
=====
Recover Edit: RE (enter) Y or N
=====
Line move: M (enter) 2 6 10 (moves lines 2 thru 6 after line 10)
           M (enter) 2 2 10 (moves line 2 after line 10)
=====
Copy:      same as move except use C instead of M.
=====
Find String: FS (enter) /string/ (will look for string in entire file)
             FS (enter) 1 15 /string/ (will look for string in lines 2 thru 15)
=====
Delete:      D (enter) 10 15 (deletes lines 10 thru 15 in memory)
=====
```

## INSTALLING EXTENDED BASIC INSIDE

YOUR CONSOLE..... John F. Willfonth  
of West Penn 99

For many of us there has been much frustration over the last several years about the "HANG-UPS" that occur to the TI-99/4A using extended basic, just as the most critical part of a program or game is reached. There are those who would lead you to believe that the power supply has been the culprit in the majority of the console locking in their club. This may have been the problem experienced in the microcosm they are in. I have experienced the problems with inconsistent and noisy D.C. voltages issued from the TI supplies also. A few months ago I ran through 5 straight VDP memory problems in a row, and could have made the statement that most if not all TI console problems will be found to have defective 4116 dynamic ram chips. This would have been absurd! I'm making this statement only to try to reassure you that of all the possible causes for console hangs, the grom connector/cartridge connection is far and away the most common, and in particular the mating (or lack of) between the Extended Basic and Grom Connector, is the greatest culprit. The purpose of this article is to assist those of you who would like to move the Extended Basic on-board.

----- DO THE FOLLOWING AT YOUR OWN RISK !

PARTS; \* 1' ribbon cable (36 lead) or 2 lengths of 25 lead cable

\* 1 Extended Basic Cartridge (shell removed)

\* 1 Double-pole, single throw slide switch (for enabling/disabling ext.-basic)

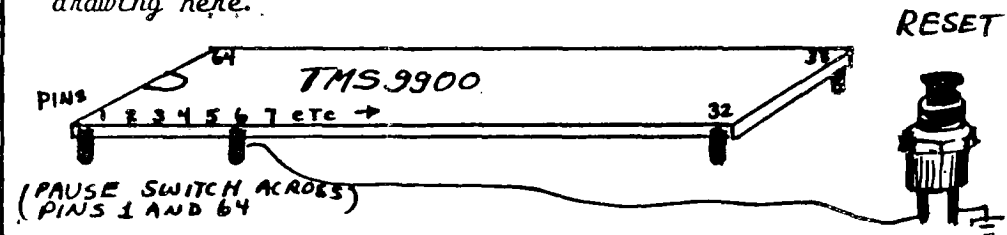
\* Solder, iron, wire cutters, etc

I'm not going to get into the details for I feel if by now that you can't remove your CPU from your console, you shouldn't be attempting this. Get someone who can. Remove the Grom Connector from the unit, and attach the ribbon cable to the pins of the rear of the circuit card that the Grom Connector is attached. Attach all but pins 4 and 6 to ribbon cable. 4 and 6 are unused here. Now, keeping the length of the wire to less than 8" attach the other ends of the corresponding wire to the Extended Basic card edge connector lands, remembering the relationship between the two. i.e.; pin 1 must go to pin 1, 2 to pin 2, and so on. (not 4 on 6) Before you attempt any further modification to the machine, reassemble and see if Extended Basic comes up on the menu, and still functions, SIZE, ACCEPT AT, etc. If you are still functional continue.

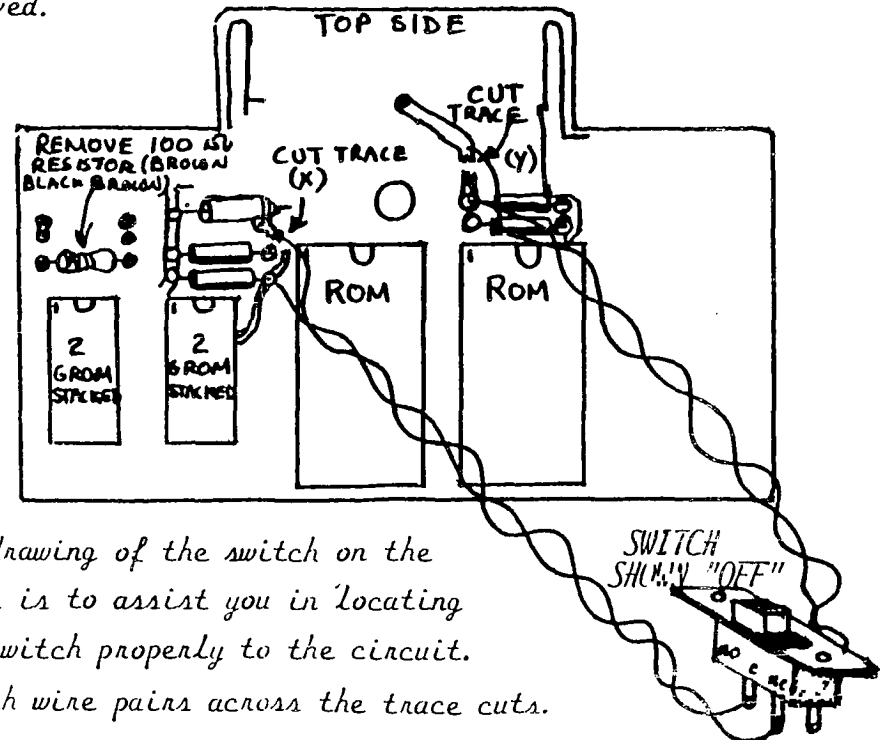
Remove the 100 ohm resistor indicated, and cut the two traces where shown. Now you may solder 4 equal lengths of wire to the switch (not longer than 10" in length). Attach two of the wires across the cut in the trace (x) and the other two across (y), making sure that the pairs are on the same switch pole set. Now, test the results again.

If the extended basic works when the switch is closed, and the cartridge slot will accept cartridges (meaning that a variety of GROM/ROM cartridges will function), when the switch is open, then your almost home. Mount the switch in a convenient location, and insulate the bottom of the Extended Basic Cartridge and locate on TOP RF SHIELD to left of grom conn. Reassemble. It would also be of benefit to you at this time to install a reset button across pin 6 of the CPU chip and ground. Trust me.

The reset switch will be particularly useful, in that you will now not be able to reset the machine by inserting the Extended Basic cartridge. You may find that without the RESET switch, you will have to turn the console power switch off and then on to begin operation after switching from basic to xbasic on other cartridges. This is an easy option to install with a momentary contact switch across pin 6 on the CPU chip (TMS9900) and ground. Reference drawing here.



The view below is here to help you find the two traces that must be cut, and the 100 ohm resistor that must be removed.



The drawing of the switch on the right is to assist you in locating the switch properly to the circuit. Attach wire pairs across the trace cuts.

\*\*\*\*\*  
 SOUTHERN NEVADA USERS' GROUP      SNUG OFFICERS 1986-1987:  
 The SNUGLETter is published monthly by the Southern Nevada Users' Group (SNUG). SNUG is a non-profit organization of individuals with an interest in all aspects of Texas Instruments' 99xx & 99xxx based computers including hardware and software by third party vendors. The GROUP meets 6:30 PM on the second Monday of the month - currently in the Clark County Library meeting room, 1726 E. Charleston Blvd. (Charleston Plaza Mall). Visitors and guests are welcome to attend the meetings. Information on membership is available at the meeting. Articles may be copied from the SNUGLETter provided credit is given to both the author and the original source and that the article not be used for profit. (For-profit organizations wishing to use any articles from the SNUGLETter will need to make prior arrangements with the Executive of the Southern Nevada Users' Group.)  
 \*\*\*\*\*

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 \*\*\*\*\*  
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 Newsletter submissions can be sent to P.O. Box 26301, Las Vegas, NV 89126. Articles using TI-Writer on disk are ideal. They may also be phoned with a modem, also a preferred method.  
 \*\*\*\*\*

Southern Nevada Users' Group (SNUG)  
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TI-xpo-88 is coming !

|                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *****<br>SNUG TREASURER'S REPORT - 31 JULY 1987<br>( in lieu of 31 July 1987 bank statement )<br>R. J. BIEBER - Treasurer<br>* ( Item adjusted July 1987 )<br>*****<br>FIXED ANNUAL EXPENDITURES:    |  | SNUGLETter ( Estimated cost per 100 ) \$ 516.00<br>Publication Costs ( \$43/Mo X 12 ) \$ 264.00<br>Postage ( \$22/Mo X 12 ) \$ 60.00<br>Meeting Room Rental Fee ( \$5/Mo X 12 ) \$ 22.00<br>P.O. Box Rental Fee ( \$22 Annually ) \$ 96.00<br>East Account Service Charge ( \$8.00/Mo X 12 ) \$ 132.00<br>SNUG B/Board Phone Line ( \$11/Mo X 12 ) \$ 50.00<br>Long Distance Phone Calls ( Estimated ) \$ 60.00<br>Miscellaneous Expenditures ( Estimated ) \$ 1200.00<br>-----<br>TOTAL ANNUAL OPERATING COSTS ( Estimated ) - \$ 540.00<br>Annual Dues Collection: (Avg 30 Mbrs X \$18) + \$ 540.00<br>ANNUAL DEFICIT ( Estimated ) |
| To be recovered thru Fund Raisers, Disc Copying Fees, Special Sales, etc. \$ 660.00<br>*****<br>FUNDS BALANCE ( as of 30 June 1987 ) + \$ 433.56 \$<br>( Includes \$7.89 June 1987 Service Charges ) |  | COLLECTIONS ( during July 1987 )<br>Membership Dues ( Regular \$18 X 4 ) \$ 72.00<br>Unlimited Library Access Fees ( \$25 X 3 ) \$ 75.00<br>Smart Modem Raffle ( 27 Tickets x \$5.00 ) \$ 135.00<br>Miscellaneous TI Equipment Raffle (30 X \$2) \$ 60.00<br>Disc of the Month (Sales) \$ 8.00<br>Disc/Program Copying Fees \$ .00<br>(Transferred from Petty Cash to Deposit) \$ ( 10.50 )<br>-----<br>+ \$ 360.50                                                                                                                                                                                                                   |
| EXPENDITURES ( during July 1987 )                                                                                                                                                                    |  | Publication Cost (SNUGLETTER) - (R. Johnson) \$ 22.26<br>Postage (SNUGLETter Mailings) - (R. Johnson) \$ 22.00<br>SNUG Bulletin Board Phone Line (Feb - July 87) \$ 55.70<br>(\$65.70 - \$10.00 Credit) - (J. Martin) \$ 15.79<br>Long Distance Calls (SNUG Business-J. Martin) \$ 8.47<br>New Video Cable-SNUG Computer (J. Martin) \$ 35.78<br>500 Business Envelopes W/window for SNUG \$ 160.00<br>-----<br>FUNDS AVAILABLE (as of 31 July 87) \$ 634.06<br>Checking Account, . . . . . + \$ 634.06<br>(Note CK #140 to Ali Ulgen Not Cleared yet)                                                                                |
| PROJECTED EXPENDITURES:                                                                                                                                                                              |  | Bank Account Service Charge (July Estimate) > \$ 8.00<br>*****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |