VICTORIA 99 ER USERS GROUP
C/O KEN ARMSTRONG
1176 BRIARWOOD DRIVE
MILL GROVE MALL
B.C., V0R 1L0

3 MAR 198?

DEAR SIR:

THOUGHT AN EXTRA NOTE WOULD BE IN ORDER AS I AM MAKEING A TRIP ACROSS
CANADA AND WILL BE IN EDMONTON JUST AFTER MID MAY. SHOULD YOU WISH TO GET
TOGETHER FOR A DISK DATA SWAPPING SESSION PLEASE CALL DR. ROBINSON AT
435-2316 WITH DETAILS ON HOW I CAN CONTACT YOU. I WILL CONTACT HIM WHEN I
ARRIVE FOR THE SHORT VISIT.

ALSO SINCE WE DON'T FILL ANY PAGES WITH INFORMATION RELATING TO: OUR
EXECUTIVE, WAIVERS OF LIABILITY, MINUTES OF OUR LAST MEETING, AND OUR
PLANS FOR THE FUTURE; IT SEEMS A GOOD TIME TO TELL YOU A LITTLE BIT ABOUT
US.

OUR MEMBERSHIP TOTALS ABOUT 25 MALES THE ELDEST APPROACHING 50. WE
MEET IN THE SAANICH LIBRARY AT 7 P.M. THE THIRD THURSDAY OF THE MONTH. OUR
LOCATION; AND PRESIDENT/LIBRARIAN, TOM SWIRSKI, LIVE CLOSE TOGETHER IN THE
VICTORIA AREA ON SCENIC VANCOUVER ISLAND. TOM'S NUMBER IS 604 384-4457
(UNLISTED). YOURS TRULY LIVES 45 MINUTES UP ISLAND WITH PHONE NUMBER
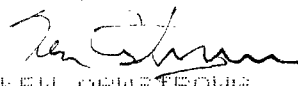743-5270.

AS FAR AS LIABILITY IS CONCERNED; WE AREN'T! THOSE OF YOU WHO RECEIVE
OUR NEWSLETTERS ARE BRETHEREN IN A MUTUAL PURSUIT - IF WE CANT'T TRUST AND
GET ALONG WITH YOU THAT ONLY LEAVES THE MOTTO ON THE U.S. COIN TO FALL
BACK ON.

OUR LAST MEETING WAS SIMILAR TO THE PREVIOUS MEETING AND THE MEETING
NEXT MONTH. NEW PRODUCTS AND IDEAS WERE PASSED ON TO THE MEMBERSHIP
FOLLOWED BY TUTORIAL SESSIONS AND A GENERAL LET'S SOLVE OUR CURRENT
PROGRAMMING PROBLEMS DISCUSSION BETWEEN INDIVIDUAL MEMBERS. AS WE CAN ONLY
MEET FOR 2 HOURS AT THE PREMISES; ADJOURNMENT RESULTS IN THE GROUP
ASSEMBLING AT A LOCAL RESTAURANT. (SOME MEMBERS RE-CONVENE TO STUDY THE
ANATOMY AND CHOREOGRAPHY OF FEMININE DANCERS AND DISCUSS THE BALANCE OF
MALT AND HOPS IN LOCALLY BREWED BEVERAGES). THE WRITER OCCASIONALLY JOINS
OTHER MEMBERS IN THIS SCHOLARLY ENDEAVOR.

AS FAR AS MY MEAGER QUARTERLY NEWSLETTER IS CONCERNED IT SHOULD BE
NOTED IT REQUIRES MORE THAN HALF OF THE CLUB'S YEARLY DUES TO PRODUCE AND
THE TECHNICAL INPUT OF YOUR NEWSLETTERS. FOR THE LATER LET ME THANK YOU.
SHOULD YOU NOT WISH TO HAVE US SELECT ARTICLES BY YOUR AUTHORS; PLEASE
ADVISE. THOSE TOPICS WRITTEN BY OUR MEMBERS AND PUBLISHED HEREIN ARE
DONATED TO PUBLIC DOMAIN WITH NO STRINGS ATTACHED.

ONE LAST NOTE TO ANSWER THE QUESTION IS THIS FELLOWS FINGER STUCK ON
THE SHIFT KEY? I'M WRITTING IN CAPITALS TO IMPROVE THE RESOLUTION BECAUSE
MY ANCIENT EPSON MX-70 HAS NO TRUE DESCENDERS AND LIKE MYSELF A MEDIOCRE
CLUSTER. WITH THAT I WILL LEAVE YOU AS MY DISK MEMORY IS FULL AND I AM
EMPTY.

YOURS TRULY,

KEN ARMSTRONG
SECRETARY/EDITOR

Available from: Bluegrass 99/4 Computer Society, P.O. Box 11366, Lexington, KY 40534 - $3.50 sheet & instr, $5.00 mounted, $7.00 finished :: Don MacClellan

			FCTN E = UP	FCTN X=DOWN	FCTN S=LEFT	FCTN D=RIGHT						
HEX DISPLAY	ASCII DISPLAY	LEAVE PROGRAM	BACK ONE SECTOR	RESTART SUBPROGRAM	FORWARD ONE SECTOR			RE-WRITE SECTOR	RESTART PROGRAM	QUIT		DISKO
SINGLE EXECUTE	CONT EXECUTE	PRGM/STAT SCREEN	INTRPTS ON/OFF	SOUND OFF					SAVE OPTIONS		EXIT	EXPLORER
MEMORY WINDOW	MEMORY SIZE	DISASSEM SIZE	PAGE UP	SEARCH	PAGE DOWN	OPTIONS	REGISTERS	EDIT FIELD/MEM	BASIC BIAS ON/OFF	ASCII/HEX		
			CTRL E = UP		CTRL X=DOWN							ADV
			FCTN E = UP	FCTN S=LEFT	FCTN X=DOWN	FCTN D=RIGHT						DIAG
DELETE	INSERT	ERASE	ROLL UP	BEGIN	ROLL DOWN	AID	REDO	BACK	SCRN DUMP	ASCII/HEX		
			V = BEGIN LINE	T = BACK TAB	Y = L MARGIN RELEASE	U = SPECIAL CHARACTER	K = DELETE END LINE	L = HOME CURSOR				BLK
OOPS! DELETE CHARACTER	REFORMAT INSERT CHARACTER	SCRN COLOR DELETE LINE	PARAGRAPH ROLL DOWN	DUPE LINE NEXT WINDOW	PARAGRAPH ROLL UP	WORD TAB TAB	NEW PARAGRAPH INSERT LINE	NEW PAGE COMMAND ESCAPE	WORD WRAP LINE NUMBERS	QUIT		Miller
FCTN R = CLEAR & Name LOG File FCTN H = FILENAME to SEND/RECEIVE		FCTN : = OPEN/CLOSE FCTN ; = Send File	FCTN R = SAVE FILE FCTN . = Reset Clock		FCTN Y = Clear LOG Memory FCTN L = Window Left		FCTN SHFT X = XMODEM SHFT V = TE-II		FCTN H = Add LF FCTN N = Dump		FAST	
BAUD DELETE	SPOOLER CTRL T	PARITY CTRL N	PORT BREAK	DUPLEX WINDOW R	PRIPORT CTRL E	TEXT COLOR	SCRN COLOR		40/80 COLM SCRN FREEZE	QUIT QUIT		TERM
X = EXTEND FAST	D = DELETE GOTO	E = END TEMPO	S = SAVE	WHERE TI-BASIC	U = UNSAVE VOICE	AMPS / INSERT	I = BEGINNING RECORD . BACKSPACE	P = PLAY ZERO # NUMBER	ENTER EDIT = OCTAVE			MUSIC BOX
			CTRL E = UP		CTRL X = DOWN							DM
			FCTN E = UP	FCTN S = LEFT	FCTN X = DOWN	FCTN D = RIGHT						1000
DELETE	INSERT	LIST DEVICE	DSK STOP I/O	RETURN TO DATA SCREEN	EXECUTE COMMAND	PRINT CATALOG	TIME CURSOR	RETURN TO SCH PROGRAM		QUIT		21

CARRIAGE CONTROLS | REVISE PARAMETERS | SEND | UNDERLINE | BLOCK

Vert/Col DELETE	INSERT	ERASE	PAGE	X = DOWN BEGIN	S = LEFT PAGE	D = RIGHT MENU	END	COMMAND	QUIT QUIT

HY-LITE Various colors

GREY RED YELLOW

By Don MacClellan

CUT AND PASTE ACTIVITY FOR YOUNG AND THE MORE MATURE

It was not long after I purchased my first TI-99/4A that I began making insert strips to summarize program command information so that it would be readily available and usable. TI anticipated a similar need when they supplied several blank strips with the console, however, writing small enough to get any information on them was always a chore for me.

The insert strips which are enclosed as a part of this article are dressed up ones which I use and find most convenient. The DISKO and MUSIC BOX have been in use for some time and the TK-WRITER is a reworked TI-Writer which I use continually with the newsletter. The balance follow the same format but are new programs; some requiring revision as programs are improved, such as FAST-TERM. The strips for Craig Miller's ADVANCED DIAGNOSTICS and EXPLORER should prove handy even though he has included them in his help (AID) reference.

A BRIEF DESCRIPTION OF THE PROGRAMS INCLUDED FOLLOWS:

DISKO - Sector editing program used by TI - now public.

EXPLORER - Miller Graphics newest which emulates the 9900 processor and allows analysis of the inner workings while running all types of programs.

ADVANCED DIAGNOSTICS - Sector editor plus many other useful utilities.

TK-WRITER - Same as TI-Writer with additional prompts.

FAST-TERM - Latest terminal emulator - supports XMODEM.

MUSIC BOX - Disk based music composition program by TI.

DM-1000.2 - Latest version of this Canadian improved copy of CorComp's Manager program. - Freeware -

COMPANION - Word processing program which has received favorable comments. Not compatable with my Pro-writer but borrowed to prepare the command strip for those who like it.

Dirty contcts can screw-up any electrical device and the 4A is not an exception. The only place you are fairly likely to run into this problem is in using command modules. Both the module contacts and the port itself can become dirty but cleaning the port itself is a big job as you have to disassemble the console. The good news is that cleaning the cartridge will almost always suffice and can be done quickly without any special tools or cleaners. All you need is a regular screwdriver, some sort of rag, a standard pencil eraser, and in some cases a medium phillips screwdriver.

Remove the screw from "C" if there is one. Then pry the clips in slots "A" and "B" outward to pop open the cartridge. If there is a clip in "C" pry it back after "A" and "B" are loose. If it should bend off don't worry, it won't affect the performance of your module.

The module board can now be removed. Do this carefully and note how the spring-loaded "door" is assembled if there is one so that you can put it back together if it pops out. Once you have the board removed take your rag (a kleenex will work but something cloth is much better) and rub off any residue from the contacts, shown as "D". Remember to do the contacts on both sides if that particular module has them. Once the worst is removed take any soft rubber eraser and "erase" the contacts until they become dry, clean and shiny. You need to do only about the outer half of the contacts as that is more than ever gets used (you can see the scratch marks in the picture below). Once this is done simply put the cartridge back together and go. Some symptoms of dirty contacts are the console locking-up, strange errors where no occured before, etc (my XB cartridge giving me a syntax error when there was non for example). Don't jump to clean a cartridge on your first error, it could be alot of things like static, not having the module in tight, or a number of other things. But if you find you have a continuing problem cleaning the contacts is quick and free and may correct what was wrong.
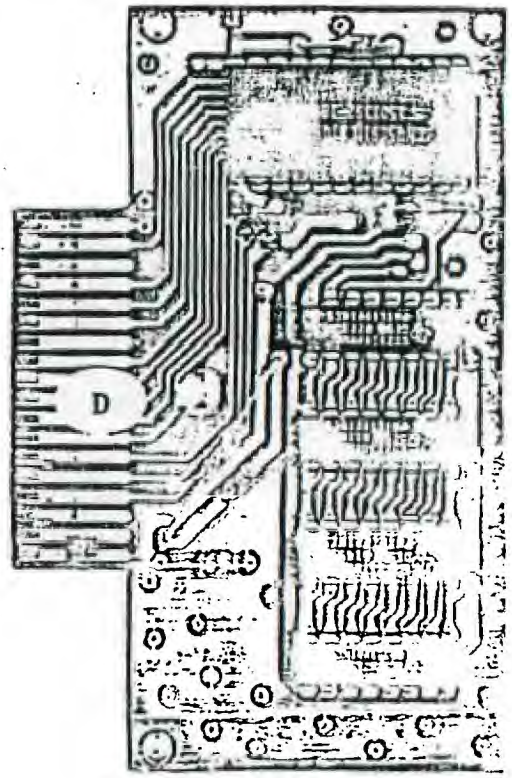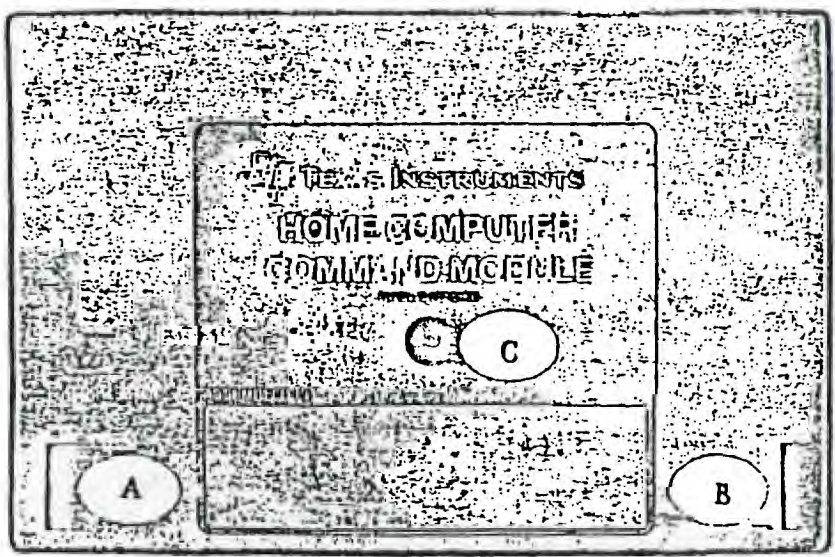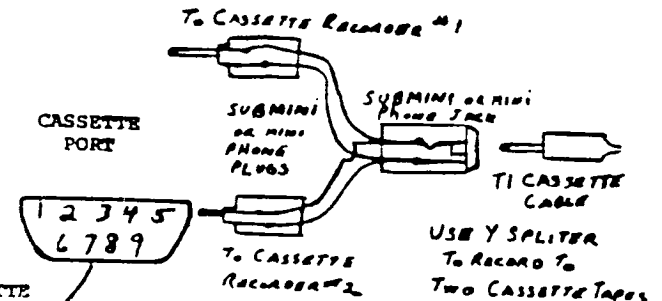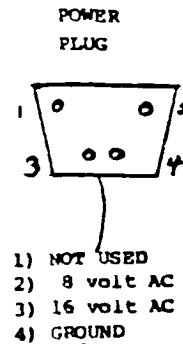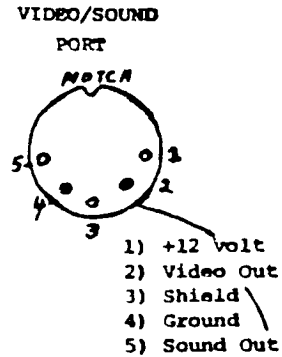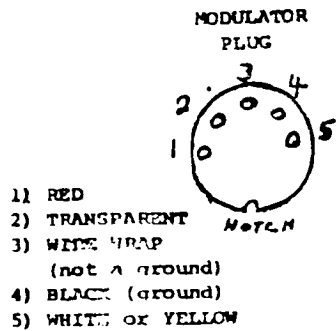
1. DM1000 Bruce Caron ... POB 460 Route 9, Florence, AL 35620. A marvelous disk-based Disk Manager which rivals CorComp's manager.
2. MASSCOPY Steve Lawless ... 2514 Maple Avenue, Wilmington, Delaware 19808. EXCELLENT disk cloner; features ability to copy to 2 drives at once and uses the Foundation 128K card to copy a disk in ONE PASS!
3. X_DISASM Fred Hawkins ... 1020 North 6th Street, Allentown, PA. 18102. An XB disassembler with many unique features and terrific documentation for those that PAY!
4. SUPER DISK DUPLICATOR Tom Knight ... 7266 Bunion Drive, Jacksonville, FL. 32222. Allows inputting start and stop sector number for copying disks.
5. TK WRITER Tom Knight (See Above) Loads TI WRITER from XB or E/A. No cartridge needed!
6. NEATLIST Danny Michaels ... Route 9, Box 460, Florence, AL. 35630. XB utility to list multi-statement lines to printer or disk for easy reading and references program variables to line number used.
7. SCREENDUMP Danny Michaels (See Above). Screen dump to EPSON compatible printer with double or single size and verticle or horizontal page printout.
8. The DIRECTOR Ron Rutledge ... 1020 3rd Street, Waukee, IA 50363. XB program database that allows cataloging disk-based programs.
9. FAST TERM Paul Charlton ... 1110 Pinehurst Court, Charlottesville, VA 22901. Simply, THE BEST TERMINAL EMULATOR IN THE WORLD!
10. SPRITE BUILDER John Taylor ... 2170 Estaline Drive, Florence, AL. 35630. XB graphics generating program with assembly language routines for speed at crucial places. Includes a full disk of preformed graphics.
11. PILOT 99 Thomas Weithofer ... 1000 Harbury Drive, Cincinnati, OH 45220. An ENTIRE lanugage for the TI that is the simplest programming language known to us (or anyone else!).
12. MASTER CATALOG Mack McCormick ... 215 A Yorktown, Ft. Lee, Virginia 23801. A 100% asembly language disk catalog program that is super fast; handles up to 2000 different disk files.
13. EASYSPRITE Tom Freeman ... 515 Alma Real Dr., Pacific Palisades, CA 90272. An extremely fast XB program with assembly routines to create graphics sprites with easy cursor control saving for program insertion.
14. DISASSEMBLER Marty Kroll ... 218 Kaplan Avenue, Pittsburg, PA 15227. Super-fast disassembler, 100% assembly and full featured.
15. TECHIE BBS Monty Schmidt ... 121 N. Blair, Madison, WI. 53703. Freeware BBS system for the 99/4A.
16. COMPACTOR Monty Schmidt (See Above). Assembly language program that takes an uncompressed D/F80 AL program and will compress to about 2/3 the disk space and yield faster load times.
17. UNCOMPACTOR Monty Schmidt (See Above). Opposite of above.
18. PRO 99er BBS Mark Hoogendoorne ... 21 Long Street, Burlington, MA 01803. TI BBS system with TRUE TE2 transfer capabilities.
19. DISK MANAGER Todd Kaplan ... 5802 N. Western Apt. 3S, Chicago, IL. 60659 INCREDIBLE Disk Manager on disk; forget TI's DM2.
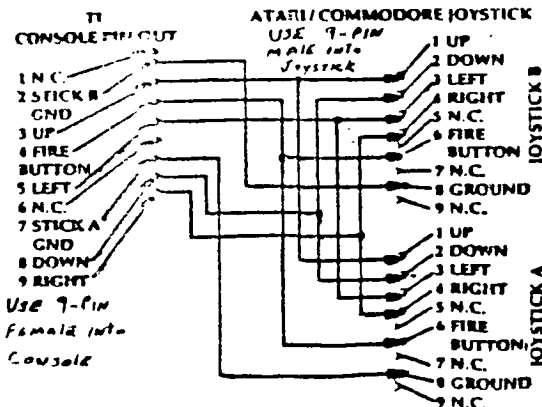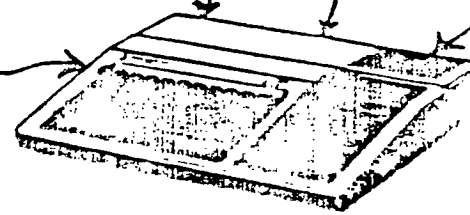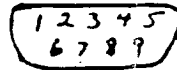
- 2 -

20. TOMB OF DEATH John Behnke ... 5755 W. Grace, Chicago, IL. 60634. Details not available.
21. ASSAULT THE CITY John Behnke (See Above).
22. FAST FORTH Tim Curran ... 4153 Four Pole Road, Huntington, WV. 25701. XBasic Loader, fast editor, fast editor locator, 40 column auto-repeat.

WIRING DIAGRAMS AND PIN POSITIONS

All plug and port numbers are as if you were looking straight into them.
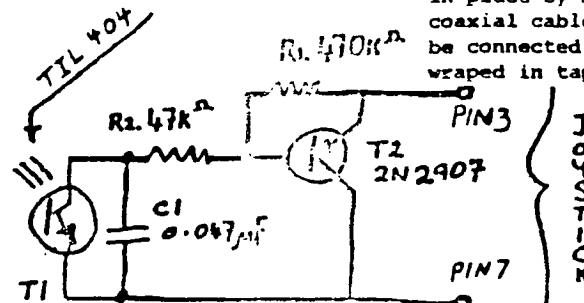Now you have something to use if a wire breaks or you want a weekend project.

MARSHALL

MODULATOR PLUG

1) RED
2) TRANSPARENT
3) WIRE WRAP (not a ground)
4) BLACK (ground)
5) WHITE or YELLOW

VIDEO/SOUND PORT

NOTCH

1) +12 Volt
2) Video Out
3) Shield
4) Ground
5) Sound Out

POWER PLUG

1) NOT USED
2) 8 volt AC
3) 16 volt AC
4) GROUND

CASSETTE PORT

To Cassette Recorder #1

SUBMINI or MINI PHONE PLUGS

SUBMINI or MINI PHONE JACK

TI CASSETTE CABLE

USE Y SPLITER To Record To Two Cassette Tapes

To Cassette Recorder #2

CASSETTE PLUG

2) Negative Remote CS1 ___ sleeve
1) Positive Remote CS1 ___ tip
3) Negative Mic 1 and 2 sleeve
5) Positive Mic 1 and 2 tip
7) Negative Remote CS2 ___ sleeve
6) Positive Remote CS2 ___ tip
9) Negative Speaker CS1 ___ sleeve
8) Positive Speaker CS1 ___ tip
4) NOT USED

CS1 CS1 Small Remote Plug 3/32" Phone Plug 1/8"

Small Remote Plug 3/32" Phone Plug 1/8"

JOYSTICK PORT

1 2 3 4 5
6 7 8 9

TI CONSOLE PIN OUT

1 N.C.
2 STICK B GND
3 UP
4 FIRE BUTTON
5 LEFT
6 N.C.
7 STICK A GND
8 DOWN
9 RIGHT

Use 9-Pin Female into Console

ATARI/COMMODORE JOYSTICK

USE 9-PIN MALE into Joystick

JOYSTICK B
1 UP
2 DOWN
3 LEFT
4 RIGHT
5 N.C.
6 FIRE BUTTON
7 N.C.
8 GROUND
9 N.C.

JOYSTICK A
1 UP
2 DOWN
3 LEFT
4 RIGHT
5 N.C.
6 FIRE BUTTON
7 N.C.
8 GROUND
9 N.C.

TI-99/4A LIGHTPEN

The TIL 404 Photo-Transistor is attached to one end of the wire and inserted into a Felt-Tip or Ball Point Pen Case. It should be held in place by Silicone glue. Use RG 174/U coaxial cable for wire. The other parts can be connected at the 9pin connector end and wraped in tape to hold them.

TIL 404
R1 47k Ω
R1 470k Ω
C1 0.047 μF
T2 2N2907
TI
PIN 3
PIN 7

JOYSTICK

USE 9Pin "D" Connector Female