SAMPLER TAPE FOR THE COMPUNIT UK101

two games are called:-The tape supplied comes with an extended monitor on one side and two games on the other side. The

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To load the games, go into BASIC and type LOAD. After the game has loaded in type RUN to execute the program. Instructions on how to play the game are contained within the program.

EXTENDED MONITOR FOR THE COMPUKIT UK101

providing such features as setting breakpoints and displaying register contents. The extended monitor enables you to write machine code programs and debug them very efficiently

To load the program hit both RESET keys and go into the monitor by typing M

monitor; this is signified by numbers being entered from the bottom of the screen. When complete, the program automatically executes again and will leave a colon in the bottom left corner of the screen followed by the cursor. The machine is now ready to accept your commands which are listed below. machine. After the loader has been entered it will automatically execute and start loading the extended You will notice the numbers in the middle of the machine flickering; this is the program loading into the Use the Monitor load command by typing L and start your cassette. This will load a checksum loader

MEMORY DISPLAY AND MODIFICATION

Exits from this mode and closes current location. Increments to next location. Decrements to previous location. Prints ASCII or graphic character at that location. Prints ASCII or graphic character at that location. Dumps memory block from XXXX to YYYY (XXXX & YYYY are both 16 Bit addresses) Fills memory from XXXX to YYYY — 1 with DD. Moves block of memory between XXXX and YYYY to a block starting at ZZZZ. Relocates rather than moves — same format as above. Dissassembles block of 13 lines and pauses (LF) continues for another 13 lines, (CR) exits this mode. Non-executable codes are printed as ???. Searches for Hex String between XXXX and YYYY; if found goes to open mode at first occurrence of first Byte of Hex String. Hex may be up to 8 Bytes. Same as N but searches for ASCII String instead of Hex String. ASCII String can be up to 8 Bytes long. Hex calculator — The operation (OP) which can be +, -, *, is performed on NNNN and XXXX to produce an answer YYYY.
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A	_	C	Т	EZ	BREAKPOINTS BN,XXXX
These five print contents of accumulator X REG; Y REG; status and stack pointer respectively. Open mode is entered and contents of any of these may be changed before program is continued.	Prints address the machine last entered by a breakpoint. Also prints contents of registers and stack pointer.	Continue from last breakpoint (if and only if stopped by a breakpoint)	Prints table of breakpoint addresses.	Eliminates breakpoint N.	Installs breakpoint N at location XXXX. N can be from 1 to 8.

AUDIO CASSETTE COMMANDS

S S S S S S S S S S S S S S S S S S S	Turns on save flag as in BASIC; all output then goes to cassette and screen. Loads data in checksum format (same as KIM1) if error detected will display ERR. Stop tape; rewind and press G to restart. Saves in checksum format from XXXX to YYYY. Format is; LEN; ADD; DATA; CHKSUM; where — LEN is the length of the block; ADD is the start address of the block; DATA is the data in the block; CHKSUM is the
Г	Loads data in checksum format (same as KIM1) if error detected widisplay ERR. Stop tape; rewind and press G to restart.
SXXX,YYYY	Saves in checksum format from XXXX to YYYY. Format is; LEN; AD DATA; CHKSUM; where — LEN is the length of the block; ADD is the start address of the block; DATA is the data in the block; CHKSUM checksum of the block.
<	This allows you to view the contents of a cassette without actually loading it into memory.
GXXXX	This transfers control to location XXXX.

The extended monitor uses 2K of RAM from 0800 to 0FFF plus 48 locations in page zero locations 00D0 to 00FF and also a checksum loader from 0700 to 07EF.

For complete initialisation enter at 0800 but to bypass this enter at 081F There are 3 spare letters — J, U and Z.

For extra user routines these functions have call addresses as follows:—

J = 0974U = 098A

e.g. to call a routine at 0400 with "U" :-Functions must end by RTS Z = 0994

LOAD 098B with 04 LOAD 098A with 00

NOTES

you that have the desire to program in 6502 machine code Most prompting of "," AND "=" is automatically produced by the monitor.

">" WITH N or W is not automatically prompted.
So there you have the extended monitor for the COMPUKIT UK101 which we hope will assist those of

assembler for instance or any other useful programs we would be interested to hear about them Should any fellow programmers come up with system programs that you have written, like an

Best Wishes and Happy Programming, ANDY FISHER — Software Consultant

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Some .1 capacitors are specified in the manual as being supplier in mylar, but in some kits are supplied as disc ceramics; these should be used in place of the mylar capacitors. The manual states that 68pf, 47pf and 22pf capacitors are supplied; these are not critical values and the nearest values supplied should be used. One of the keyswitches supplied has a stronger spring in it than the rest; this switch is for the space bar so before inserting switches check each one first to determine which is the special switch for the space bar.

Component change: R67: 27k changed to 56k. C48: .22 changed to .1