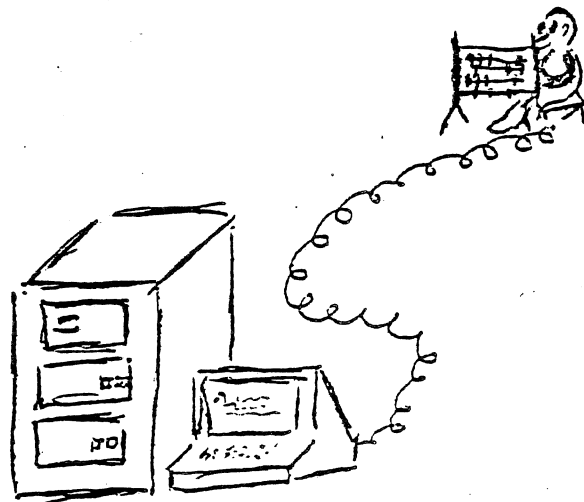OHIO SCIENTIFIC, INC.
TECH NEWSLETTER #10

JUNE 29, 1979

And you thought it
was the boards!

OS-65U EDITOR V1.0
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APRIL 1979

The following pages describe the Editor Program on OS-65U V1.1 6/79 and
later releases.

SYSTEM REQUIREMENTS :

TO USE THE OS-65U EDITOR, THE SYSTEM MUST MEET OR EXCEED THE FOLLOWING REQUIREMENTS.

1) CHALLENGER II OR III (FULL SIZE FLOPPY OR HARD DISC BASED)
2) ONE RS-232 SERIAL PORT AS THE CONSOLE PORT
3) 32K OF CONTIGUOUS RAM
4) OS-65U V1.1 (LEVEL I OR LEVEL III)
5) OS-65U EDITOR V1.0

SYSTEM COMPROMISES :

THE USE OF THE EDITOR DELETES THE FOLLOWING FUNCTIONS.

1) THE 540 VIDEO DRIVER ROUTINE
2) THE VIDEO KEYBOARD INPUT ROUTINE
3) THE NULL COMMAND
4) THE ARCTANGENT FUNCTION (ATN(X))

INSERTION OF THE EDITOR :

TO INSERT THE EDITOR INTO OS-65U, FIRST BOOT-UP THE SYSTEM AS NORMAL. THEN TYPE RUN "EDITOR" <CR>. THE FOLLOWING MESSAGE WILL APPEAR ON THE SCREEN :

OS-65U LINE EDITOR V1.0

THE USE OF THE EDITOR DISABLES:

1) THE 'NULL' COMMAND
2) THE 'ATN(X)' FUNCTION
3) THE 540 VIDEO DRIVER
4) THE VIDEO KEYBOARD INPUT ROUTINE

THEN TYPE A CARRIAGE RETURN IN RESPONSE TO THE QUESTION :

ENABLE (E) OR DISABLE (D) EDITOR ?

THE MESSAGE THE EDITOR IS NOW ENABLED WILL BE PLACED ON THE SCREEN. IF THE TERMINAL BEING USED HAS FORWARD SPACE, BACK SPACE CAPABILITY, TYPE A BACK SPACE. THIS MUST BE DONE SO THAT THE EDITOR KNOWS THAT THE TERMINAL IN USE CAN ACTUALLY BACK SPACE. AT THIS POINT THE EDITOR IS FULLY ENABLED.

DISABLEMENT OF THE EDITOR:

TO DISABLE THE EDITOR TYPE THE FOLLOWING RUN "EDITOR" <CR>. THE FOLLOWING MESSAGE WILL APPEAR ON THE SCREEN :

OS-65U LINE EDITOR V1.0

THE USE OF THIS EDITOR DISABLES:

1) THE 'NULL' COMMAND
2) THE 'ATN(X)' FUNCTION
3) THE 540 VIDEO DRIVER
4) THE VIDEO KEYBOARD INPUT ROUTINE

ENTER A D <CR> IN RESPONSE TO THE QUESTION :

ENABLE (E) OR DISABLE (D) EDITOR ?

THE MESSAGE THE EDITOR IS NOW DISABLED WILL APPEAR ON THE SCREEN. AT THIS POINT THE 540 VIDEO DRIVER, THE VIDEO KEYBOARD INPUT ROUTINE, THE NULL COMMAND AND THE ARCTANGENT FUNCTION (ATN(X)) ARE RESTORED.

OS-65U EDITOR COMMANDS:

COMMANDS FOR TERMINALS WITH NON-DESTRUCTIVE BACK SPACE CAPABILITIY.

THE OS-65U EDITOR PROVIDES THE FOLLOWING FEATURES.

1) FULL LINE EDITING ON INPUT STATEMENTS
2) EDITING OF LINES WITHIN AN EXISTING BASIC PROGRAM
3) EDITING OF NEW BASIC PROGRAM LINES

THE LINE EDIT COMMANDS ARE :

1) NON-DESTRUCTIVE FORWARD SPACE

2) NON-DESTRUCTIVE BACK SPACE
3) CHARACTER DELETION
4) CHARACTER INSERTION
5) LINE CANCEL
6) REPEAT LINE

NON-DESTRUCTIVE FORWARD SPACE :

NON-DESTRUCTIVE FORWARD SPACE PERMITS MOVEMENT OF THE CURSOR TOWARD
THE RIGHT SIDE OF THE SCREEN.

NON-DESTRUCTIVE BACK SPACE :

NON-DESTRUCTIVE BACK SPACE PERMITS MOVEMENT OF THE CURSOR TOWARD THE
LEFT SIDE OF THE SCREEN.

CHARACTER DELETION:

CHARACTERS MAY BE DELETED FROM THE END OR MIDDLE OF A LINE. NOTE THAT
IF THE CURSOR IS POSITIONED TO THE RIGHT OF THE CURRENT END OF LINE
AND THE DELETE KEY IS TYPED, THE CHARACTER AT THE CURRENT END OF LINE
WILL BE ERASED AND THE CURSOR POSITIONED AT THE NEW END OF LINE.   IF
THE CURSOR IS POSITIONED SOMEWHERE WITHIN THE LINE AND THE DELETE KEY
IS ENTERED, THE CHARACTER UNDERNEATH THE CURSOR WILL BE DELETED AND
THE PORTION OF THE LINE TO THE RIGHT OF THE DELETION WILL BE MOVED TO
THE LEFT ONE POSITION.

CHARACTER INSERTION :

CHARACTERS MAY BE INSERTED MID LINE BY POSITIONING THE CURSOR AT THE
POINT IN THE LINE WERE THE CHARACTERS ARE TO BE INSERTED. THE PORTION
OF THE LINE TO THE RIGHT OF THE INSERTION WILL AUTOMATICALLY BE MOVED
TO THE RIGHT IN ORDER TO MAKE ROOM FOR THE NEW CHARACTERS. NOTE THAT
INSERTING TOO MANY CHARACTERS IN THE MIDDLE OF A LINE CAN PUSH
CHARACTERS AT THE END OF THE LINE OVER THE 'EDGE', I.E., CAUSE THE
EDITOR TO THROW THEM AWAY.

A WORD OF CAUTION :

UNTIL THE EDITOR SEES A BACK SPACE, IT MUST ASSUME THAT THE TERMINAL
IN USE CANNOT BACK SPACE. THEREFORE, ONE SHOULD ENTER A BACK SPACE AS
SOON AS THE EDITOR IS ENABLED.

LINE CANCELLATION :

ENTERING A @ WILL CANCEL THE CURRENT LINE BEING TYPED. UPON RECEIPT
OF THE @, THE EDITOR WILL PRINT A CARRIAGE RETURN / LINE FEED TO THE
TERMINAL. THE @ DOES NOT ECHO TO THE TERMINAL.

REPEAT LINE COMMAND :

ENTERING A CONTROL T WILL CAUSE THE EDITOR TO PRINT A CARRIAGE RETURN / LINE FEED TO THE SCREEN. THE LINE WILL THEN BE ECHOED TO THE SCREEN BELOW THE ORIGINAL LINE AND THE CURSOR WILL BE POSITIONED AT THE END OF THE LINE.

COMMANDS FOR TERMINALS W/O NON-DESTRUCTIVE BACK SPACE CAPABILITY

THE EDITOR INITIALLY ASSUMES THAT THE TERMINAL IT IS OPERATING ON CAN NOT BACK SPACE. THESE TERMINALS ARE TREATED DIFFERENTLY BY THE EDITOR.

EDITOR FEATURES :

1) LIMITED EDITING ON INPUT STATEMENTS
2) LIMITED EDITING ON NEW BASIC PROGRAM LINES
3) LIMITED EDITING ON OLD BASIC PROGRAM LINES

THE LINE EDIT COMMANDS ARE :

1) CHARACTER DELETION FROM THE END OF THE LINE ON :
   A) A LINE OF TEXT CURRENTLY BEING ENTERED
   B) AN EXISTING BASIC PROGRAM LINE
   C) A NEW BASIC PROGRAM LINE
2) LINE CANCEL
3) REPEAT LINE

CHARACTER DELETION

EACH TIME THAT THE DELETE KEY IS ENTERED, THE EDITOR WILL ECHO AN UNDERLINE TO THE TERMINAL AND INTERNALLY FORGET THE CHARACTER AT THE END OF THE LINE.

LINE CANCELLATION :

ENTERING A @ WILL CAUSE THE EDITOR TO PRINT A CARRIAGE RETURN / LINE FEED AND CAUSE THE EDITOR TO FORGET THE LINE THAT WAS BEING ENTERED. THE @ DOES NOT ECHO TO THE TERMINAL.

REPEAT LINE COMMAND :

ENTERING A CONTROL T WILL CAUSE THE EDITOR TO PRINT A CARRIAGE RETURN / LINE FEED TO THE TERMINAL. THE EDITOR WILL REPEAT THE LINE IMMEDIATELY BELOW THE ORIGINAL LINE.

SOME SPECIAL NOTES :

THE EDITOR LIMITS THE LINE LENGTH TO THAT OF BASIC'S LINE LENGTH, SEVENTY-ONE CHARACTERS (71). BECAUSE OF THIS, THE EDITOR WILL IGNORE

ANY CHARACTERS ENTERED AFTER THE 71 CHARACTER LIMIT IS REACHED. THE EDITOR WILL STOP ECHOING UNDERLINES IN RESPONSE TO THE DELETE KEY ONCE THE LINE LENGTH LIMIT IS REACHED. THE EDITOR WILL, HOWEVER, CONTINUE TO FORGET THE CHARACTER ON THE END OF THE LINE AND RING THE TERMINAL'S BELL ONCE FOR EACH CHARACTER DELETED. ONCE ALL THE CHARACTERS ON THE LINE HAVE BEEN DELETED, THE EDITOR WILL STOP RINGING THE TERMINAL'S BELL.

EDITING EXISTING BASIC PROGRAM LINES :

THE OS-65U EDITOR PROVIDES ONE WITH THE ABILITY TO EDIT EXISTING BASIC PROGRAM LINES. THE EDIT COMMAND SYNTAX :

EDIT LINE NUMBER <CR>

        OR

EDIT <CR>

ONE MAY ALSO USE THE FOLLOWING SHORT-HAND NOTATION :

! LINE NUMBER <CR>

     OR

! <CR>

IF THE LINE DESIGNATED BY LINE NUMBER DOES NOT EXIST, THE EDITOR WILL RETURN THE NEXT LINE GREATER THAN LINE NUMBER. IF NO MORE LINES EXIST, THE MESSAGE OK WILL BE PRINTED TO THE TERMINAL. IF NO LINE NUMBER IS SPECIFIED, THE EDITOR WILL RETURN THE NEXT LINE GREATER THAN THE LAST LINE LISTED, INSERTED, DELETED OR EDITED. IF NO MORE LINES EXIST, THE MESSAGE OK WILL BE PRINTED TO THE TERMINAL.

WHEN A LINE IS RETURNED BY THE EDITOR FOR EDITING, THE AMOUNT OF ACTUAL EDITING THAT CAN BE DONE IS DEPENDENT ON THE CAPABILITIES OF THE TERMINAL BEING USED. REFER TO THE EDITOR COMMAND SECTION TO DETERMINE THE EXTENT OF EDITING POSSIBLE ON YOUR TERMINAL. NOTE THAT ON TERMINALS WITH BACK SPACE / FORWARD SPACE CAPABILITY, LINE NUMBERS MAY BE EDITED. THIS PERMITS ONE TO MOVE LINES BY EDITING THE ACTUAL LINE NUMBERS.

A WORD OF WARNING :

WHEN ENTERING BASIC PROGRAMS, ONE MAY OPTIONALLY USE A ? AS A SHORT-HAND NOTATION FOR PRINT. CARE MUST BE TAKEN NOT TO PLACE A ? ON A LINE WERE THE CONVERSION OF A ? TO PRINT WILL CAUSE THE LINE'S

LENGTH TO EXCEED 71 CHARACTERS. NOTE THAT THE ?'S ARE NOT CONVERTED TO PRINT'S UNTIL AFTER THE LINE HAS BEEN INSERTED (OR RE-INSERTED) INTO THE BASIC PROGRAM. NOTE ALSO THE DANGER OF EDITING OLD PROGRAM LINES THAT MAY BE GREATER THAN 71 CHARACTERS IN LENGTH. EDITING OF THESE LINES WILL TRUNCATE THE LINE'S LENGTH TO 71 CHARACTERS.

A NOTE ON THE EDITOR COMMANDS :

THE FORWARD SPACE, BACK SPACE, CHARACTER DELETE AND LINE CANCEL KEYS DIFFER FROM TERMINAL TO TERMINAL. BELOW PLEASE FIND A LIST OF THE MOST COMMON KEYS AND THEIR FUNCTIONS :

FORWARD SPACE :
SHIFT BACK SPACE
CONTROL H

BACK SPACE :
BACK SPACE
BS
CONTROL L

CHARACTER DELETE :
DEL
DELETE
SHIFT O
RUB
RUBOUT
-- (UNDER LINE)

LINE CANCEL :
@
SHIFT P

SETTING THE NULL COUNT :

WHILE THE EDITOR IS ENABLED THE 'NULL' COMMAND IS REPLACED BY THE 'EDIT' COMMAND. HOWEVER, ONE MAY STILL SET THE NUMBER OF NULLS OUTPUT AT THE END OF EACH LINE, THIS MAY BE ACCOMPLISHED BY ENTERING THE FOLLOWING :

RUN "EDITOR",1800 <CR>

THE EDITOR WILL PRINT :

CURRENT NULL COUNT = X

TO THE SCREEN. X WILL EQUAL THE VALUE OF THE CURRENT NULL COUNT.

6

NEXT THE QUESTION :

ENTER THE NUMBER OF NULLS DESIRED (0>255) ?

WILL APPEAR ON THE SCREEN. ENTER THE DESIRED NULL COUNT FOLLOWED BY A CARRIAGE RETURN. THE NULL COUNT WILL AUTOMATICALLY BE SET. NOTE THAT THIS MUST BE DONE EACH TIME THE SYSTEM IS 'BOOTED'.

MODIFICATION OF THE FORWARD SPACE / BACK SPACE CODES :

THE EDITOR CURRENTLY ANTICIPATES A BACK SPACE TO HAVE THE VALUE OF EIGHT (8) AND ONE OF TWO POSSIBLE FORWARD SPACE CODES. THE TWO POSSIBLE FORWARD SPACE CODES ARE SIXTEEN (16 / $10) AND TWELVE (12 / $0C). THESE MAY BE CHANGED TO A DIFFERENT VALUE BY ENTERING THE FOLLOWING :

RUN "EDITOR",1900 <CR>

THE QUESTION :

PASSWORD ?

WILL BE PRINTED TO THE SCREEN.

ANSWER THIS QUESTION WITH PASS <CR>. THE EDITOR WILL THEN PRINT :

CURRENT FORWARD SPACE CODE = X

WHERE X WILL EQUAL THE CURRENT CODE FOR FORWARD SPACE. NEXT THE QUESTION :

FORWARD SPACE (DECIMAL) ?

WILL APPEAR ON THE SCREEN.

ENTER YOUR TERMINAL'S FORWARD SPACE CODE FOLLOWED BY A CARRIAGE RETURN (<CR>). THE EDITOR WILL RESPOND WITH :

CURRENT BACK SPACE CODE = X

WHERE X WILL EQUAL THE VALUE OF THE CURRENT BACK SPACE CODE. THIS WILL BE FOLLOWED BY THE QUESTION :

BACK SPACE CODE (DECIMAL) ?

NOW ENTER THE CORRECT BACK SPACE CODE FOR YOUR TERMINAL FOLLOWED BY A CARRIAGE RETURN. THE EDITOR WILL MODIFY THE FORWARD SPACE / BACK SPACE CODES TO THOSE YOU HAVE ENTERED. THE NEXT THING TO APPEAR ON THE SCREEN WILL BE :

THE CHANGES HAVE BEEN INSERTED; SAVE THIS PROGRAM TO DISC. NOTE THAT THE EDITOR MUST BE RUN TO MAKE THE CHANGES EFFECTIVE.

IF THE CHANGES ARE TO BE PERMANENT, SAVE THE EDITOR BY ENTERING :

SAVE "EDITOR","PASS <CR>

AT THIS POINT ENTER RUN <CR> AND ENABLE THE EDITOR AS NORMAL.

TECHNICAL NOTES :

THE FOLLOWING IS A LIST OF IMPORTANT MEMORY LOCATIONS RELATIVE TO THE
EDITOR.

	CURRENT VALUE	RUN TIME ADDRESS	ADDRESS WITHIN EDITOR
FORWARD SPACE :			
FWDCH1	16 ($10)	15174 ($3B46)	24595 ($6013)
	MUST CHANGE LOCATIONS ABOVE AND LOCATIONS BELOW		
	16 ($10)	15286 ($3BB6)	24707 ($6083)
FWDCH2	12 ($0C)	15290 ($3BBA)	24711 ($6087)
BACK SPACE :			
BACCHR	08 ($08)	15282 ($3BB2)	24703 ($607F)
LOWER AND UPPER LEGAL LIMIT CHARACTERS :			
LOWCHR	32 ($20)	15314 ($3BD2)	24735 ($609F)
TOPCHR	128 ($80)	15318 ($3BD6)	24739 ($60A3)
DELETE AND RUBOUT CHARACTERS :			
DELCHR	128 ($7F)	15294 ($3BBE)	24715 ($608B)
RUBCHR	95 ($5F)	15298 ($3BC2)	24719 ($608F)
LINE CANCEL CHARACTER :			
CLRCHR	64 ($40)	15306 ($3BCA)	24727 ($6097)
REPEAT LINE COMMAND CHARACTER :			
LSTCHR	20 ($14)	15302 ($3BC6)	24723 ($6093)
BUFFER PARAMETERS :			
BUFFER ADDRESS CONSTANTS :			
BUFADL	27 ($1B)	15156 ($3B34)	24577 ($6001)
BUFADH	00 ($00)	15160 ($3B38)	24581 ($6005)
BUFFER POINTER :			
BUFPNT	224 ($00E0)	(SET UP IN PAGE ZERO BY EDITOR)	

EDITOR FLAGS :

BACFLG   229 ($00E5)
           (0)=HAVE NOT SEEN A BACK SPACE
           (BACK SPACE CHARACTER)=HAVE SEEN A BACK SPACE

CRFLAG   231 ($00E7)
           (0)=PRINT CR/LF UPON RECEIPT OF CR FROM TERMINAL
           (>0)=DO NOT PRINT CR/LF UPON RECEIPT OF CR FROM TERMINAL

RSTFLG   233 ($00E9)
           (0)=DO NOT RESET E.O.L. TO NULL
           (>0)=DO RESET E.O.L. TO NULL

GLOBAL CONSIDERATIONS :

 NOTE THE DANGER OF THE REAL TIME CLOCK 'TIMING OUT' WHILE THE EDITOR
IS BEING ENABLED OR DISABLED. THE EDITOR OVERLAYS PARTS OF THE
OPERATING SYSTEM AND CANNOT BE INTERRUPTED WHILE DOING SO. THEREFORE
THE COUNT DOWN TIMER SHOULD BE DISABLED WHILE THE EDITOR IS BEING
ENABLED OR DISABLED.

 EDITOR ENHANCEMENT :

 IF DESIRED, LINE 1440 IN THE EDITOR MAY BE CHANGED AS SHOWN BELOW.
THIS MODIFICATION WILL FORCE THE EDITOR TO ASSUME THAT THE TERMINAL IN
USE HAS BACK SPACE / FORWARD SPACE CAPABILITIES.

 1440 BS=PEEK(24703): POKE 229,BS: REM PEEK BS THEN POKE BS

 ONE MAY AUTOMATICALLY ENABLE THE EDITOR (I.E. BYPASS THE QUESTIONS)
BY ENTERING THE FOLLOWING :

 RUN "EDITOR","PASS",2200<CR>

 ONE MAY AUTOMATICALLY DISABLE THE EDITOR BY ENTERING THE FOLLOWING :

 RUN "EDITOR","PASS",2400<CR>

OS-65D V3.0 ⟶ V3.1

THIS FIX PERMITS THE EXT. MONITOR TO AUTOMATICALLY PRINT THE 6502 REGISTER
CONTENTS UPON "HITTING" A BREAKPOINT.

BASIC EXECUTIVE FOR OS-65D VERSION 3.0

13 OCT 1978 RELEASE

FUNCTIONS AVAILABLE:
     CHANGE - ALTER WORKSPACE LIMITS
     DIR   - PRINT DIRECTORY
     UNLOCK - UNLOCK SYSTEM FROM END USER MODIFICATIONS

FUNCTION? UNLOCK<CR>

SYSTEM OPEN

OK
EXIT<CR>
01 TRACK
A*EM<CR>

:!CA 4700=07,1<CR>FOR MINI FLOPPY :!CA 4700=10,1<CR>

:@4B68<CR>

4B68/B8 C2 <CR>

:!SA 07,1=4700/9<CR> FOR MINI FLOPPY :!SA 10,1=4700/8 <CR>

:!EM<CR>

FOR OS-65D V3.0 V3.1 ASSEMBLER CH-IP ONLY!

The sequence below will correct the problem with the assembler "hanging up" on a CH-IP.

1)   BOOT SYSTEM

2)   "UNLOCK"

3)   ENTER:

     A*EM<CR>

 EM V2.0

:@1563 <CR>

1563 / 6D 9F<LF>

1564 / 15 24<CR>

:EXIT<CR>

A*5A 09,1=1200/5 <CR>

<CR>= RETURN KEY

<LF>= LINE FEED KEY

WP-2 SECOND RELEASE

CHANGING CONTROL CODES

IN ORDER TO CHANGE THE VARIOUS CONTROL CODES (DELETE, FORWARD SPACE, ETC.)
THE FOLLOWING STEPS ARE REQUIRED:

1) BOOT UP WP=2

2) ENTER "EXXX <CR>"

3) NOW TYPE "REM <CR>

4) TO ACTUALLY CHANGE THE CONTROL CODES ONE MUST TYPE:

   L ADDRESS OF CONTROL CODE NEW VALUE OF CONTROL CODE R

5) WHEN THE NEW CONTROL CODES HAVE BEEN INSERTED, ENTER:

   LØ12E 2547R

6) A "A*" WILL APPEAR ON THE SCREEN

7) NOW TYPE:

   SA Ø7,1=1800/B <CR>

8) THE CHANGE IS NOW SAVED ON THE DISC.

LIST OF WP=2 CONTROL CODES

FUNCTION	LOCATION	CURRENT VALUE	
BACK SPACE	$1950	$Ø8	
1st FORWARD SPACE	$1951	$10	
2nd FORWARD SPACE	$1952	$ØC	
CHARACTER DELETE	$1953	$5F	(UNDERLINE)
LINE CANCEL	$1954	$5E	(UP ARROW)

WP-2 SECOND RELEASE

THE 550 BOARD IS NOT CURRENTLY SUPPORTED AS AN OUTPUT DEVICE UNDER WP-2.
THE CHANGE BELOW WILL DELETE THE 430 BOARD SUPPORT AND PERMIT THE 550
(CA-10X) BOARD TO BE DRIVEN AS DEVICE NUMBER THREE. TO SELECT A PAR-
TICULAR PORT MEMORY LOCATION $2323 SHOULD BE SET TO (PORT NUMBER-1)*2.

BASIC EXECUTIVE FOR OS-65D VERSION 3.0

13 OCT 1978 RELEASE

FUNCTIONS AVAILABLE:
      CHANGE - ALTER WORKSPACE LIMITS
      DIR   - PRINT DIRECTORY
      UNLOCK - UNLOCK SYSTEM FROM END USER MODIFICATIONS

FUNCTION? UNLOCK

SYSTEM OPEN

OK
EXIT
01 TRACK
A*EM <CR>

:!CA 0200=01,2 <CR>
:!GO 0200 <CR>

AT THIS POINT INSERT THE WP-2 DISKETTE INTO DRIVE A

- DISKETTE UTILITIES -

SELECT ONE:
1) COPIER
2) TRACK 0 READ/WRITE
? 2 <CR>

- TRACK ZERO READ/WRITE UTILITY -

COMMANDS:
RNNN - READ INTO LOCATION NNNN
WNNNN/GGGG,P - WRITE FROM NNNN FOR P PAGES
                WITH GGGG AS THE LOAD VECTOR
E - EXIT TO OS-65D

COMMAND? R4200 <CR>

- TRACK ZERO READ/WRITE UTILITY -

COMMANDS:
RNNNN - READ INTO LOCATION NNNN
WNNNN/GGGG,P - WRITE FROM NNNN FOR P PAGES
                WITH GGGG AS THE LOAD VECTOR
E - EXIT TO OS-65D

COMMAND? E <CR>

A*RE EM <CR>

:@4315 <CR>

4315/ØC BC <CR>
:@4316 <CR>

4316/25 24 <CR>
:!GO Ø2ØØ <CR>

- DISKETTE UTILITIES -

SELECT ONE:
1) COPIER
2) TRACK Ø READ/WRITE
? 2 <CR>

- TRACK ZERO READ/WRITE UTILITY -

COMMANDS:
RNNNN - READ INTO LOCATION NNNN
WNNNN/GGGG,P - WRITE FROM NNNN FOR P PAGES
                WITH GGGG AS THE LOAD VECTOR
E - EXIT TO OS-65D

COMMAND? W42ØØ/22ØØ,8 <CR>

- TRACK ZERO READ/WRITE UTILITY -

COMMANDS:
RNNNN - READ INTO LOCATION NNNN
WNNNN/GGGG,P - WRITE FROM NNNN FOR P PAGES
                WITH GGGG AS THE LOAD VECTOR
E - EXIT TO OS-65D

COMMAND? E

A*

AT THIS POINT THE MODIFICATION IS STORED ON THE DISKETTE. REFER TO TECH
NEWSLETTER NINE ON HOW TO SELECT DEVICE NUMBER 3 AS THE EDIT PRINTER.