OHIO SCIENTIFIC TECH NEWSLETTER #13

JULY 19, 1979

#### TO ALL DEALERS:

Ohio Scientific has recently arranged a return agreement with "Tec" for repair of defective AC-7A Terminals. Rather than sending the terminals to Ohio Scientific, you should return them directly to "Tec" for repairs. Please use the following procedures:

- 1. Call "Tec" at (602)792-2230 and ask to be connected with customer service (Ext. 252 or 253).
- 2. State that you have a defective terminal that you have purchased through Ohio Scientific and explain at that time the problems that were encountered.
- 3. You will be assigned a returned merchandise authorization number (R.M.A. Number).
- 4. "Tec" will then give you the proper shipping information.

Typical turn-around-time under this arrangement should be two to three weeks. Repaired merchandise will be returned to you C.O.D.

April 23, 1979

#### Dear Dealer:

Several inquiries have been received concerning the warranty on the Centronics 779 printer. Ohio Scientific can only extend the manufacturer's warranty to our dealers. This warranty covers the printers for a total of 45 days from the date we receive them. It is a non-transferrable warranty.

Any costs incurred in repairing out of warranty printers or any extended warranties are the responsibility of the dealer. In order to help you better understand this warranty, attached are three pages for your review.

In order to have a fast turn around on the Centronics, we order these in small quantities, usually about 40 to 50 units at a time. This way we can ship them right back out to our dealers while they are under warranty.

Please remember that Ohio Scientific's policy on peripherals is to pass on the OEM discount to our dealers at a non-profit margin. We contract with various manufacturers for large OEM quantities so that we can offer peripherals at the best possible price to our dealers. The warranties and service procedures will vary according to the manufacturer.

Sincerely,

Jim Cross

National Sales Manager

JC:jb

# SALES & SERVICE CORPORATION

SERVICE CENTER · LOCATIONS

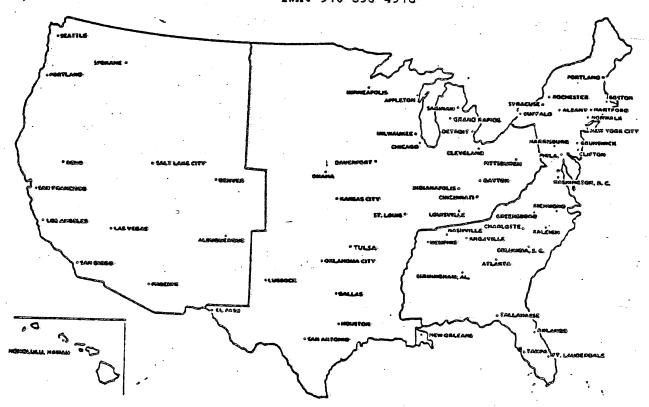
Centronics features a unique Maintenance Control Center to provide faster response to requests for service. This toll free telephone number should be used only for reporting service calls. Requests for service from companies with a Centronics maintenance contract, open purchase order service, or time and materials service should be directed through this central telephone number. Look forward to faster service than ever before! Call (800) 258-1952. When reporting your problem, please report the following information:

- o Customer Name
- o Contact Name
- o Location (City, State)
- o Telephone No.
- o Model/Serial Number = obtain from the identification plate on rear of unit.

Centronics WESTERN REGIONAL OFFICE 130 McCormick Ave, Suite, 112 1900 E. Randol Mill Road Costa Mesa, CA 92626 Tel. (714) 957-1510 Twx - 910-595-1925

· Centronics CENTRAL REGIONAL OFFICE Suite 103 Arlington, TX 76011 Tel. (817) 461-7121 Twx - 910-890-4916

Centronics EASTERN REGIONAL OFFICE 200 W. Cummings Park Woburn, MA 01301 ((617) 935-8130 Twx: 710-348-0343



For nationwide toll-free service anywhere in the United States, call (800) 258-1952. P29/A-15



## SALES & SERVICE CORPORATION

#### RATES DESCRIPTIONS

#### METRO

The "Metro" rate applies when the customer site is located within 25 miles from an authorized service center.

#### RURAL

The "Rural" rate applies when the customer site is located in excess of 25 miles from an authorized service center.

#### RURAL INSTALLATION CHARGE

The charge for any installation outside the metro area is \$75 plus \$40 per hour and 18 cents per mile.

#### OPEN PURCHASE ORDER SERVICE RATES

#### Labor:

- a) Normal working hours: Monday through Friday, 8:30 a.m. to 5:00 p.m. \$40 each hour, minimum of 2 hours (\$80).
- b) Overtime: \$60.00 each hour, for service continuing after normal working hours. Minimum of 1 hour (\$60.00).
- c) Holidays, weekends and service requested after normal working hours. \$60.00 each hour minimum of 3 hours (\$180.00).

#### Travel:

Travel costs are determined on a Portal to Portal basis at the hourly labor rates outlined.

#### Transportation:

- a) Employee owned/leased vehicles (\$.18 per mile).
- b) Commercial (most economical) (Actual Cost + 10% Admin. Fee).

#### Subsistence and Lodging

Reasonable and actual expense not to exceed \$50 per day.

#### RURAL MAINTENANCE CHARGES

This applies to customer sites located in excess of 25 miles from an authorized service center. The customer may elect to choose from either of the two following plans. Both of these plans apply to the Standard Maintenance Contract. Under either plan the customer is subject to overnight living expense charges, should this occur, not to exceed fifty dollars (\$50) per day.

Plan #1 \$10.00 per zone per mo., through zone 4. \$30.00 per zone per mo., zone 5 and up.

Miles	25	50	75	100	125	150	175	200
Zone	M	1	2	3	4	5	6	7
Rate	0	10	20	.30	40	70	100	130

Plan #2 Metro monthly maintenance rate plus 50c per each additional mile outside the metro area up to 250 miles and 75c per mile for any more miles. This mile rate includes the cost of labor and mileage incurred traveling from outside the metro area to the site and the return to the metro area border (i.e., 25 miles from authorized service center). The travel portion of this plan is billable on a per call basis.

SALES & SERVICE CORPORATION

COVERAGE

ALABAMA

Birmingham

ARIZONA

Phoenix

CALIFORNIA

Los Angeles

San Diego

San Francisco

COLORADO

Denver

CONNECTICUT

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WISCONSIN

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CANADA

ALBERTA

P29/A14

Edmonton Calgary

Calgary

BRITISH COLUMBIA

Vancouver

ONTARIO

**OUEBEC** 

Toronto

Quebec City Montreal .

November 1978

#### PRODUCT CHANGE NOTE

SHORTLY WE WILL BEGIN SHIPPING SINGLE SIDED DRIVES THAT LOOK JUST LIKE THE BLACK DOUBLE SIDED FLOPPY DRIVES WE HAVE BEEN SHIPPING. THE SINGLE SIDED DRIVES WILL HAVE A WHITE DOT ON THE FRONT OF THE DISC DRIVES. THIS WHITE DOT CAN BE REMOVED WITH ALCOHOL. THERE ARE TWO OTHER METHODS FOR DETERMINING IF A DRIVE IS SINGLE SIDED OR DOUBLE SIDED AND THEY ARE: 1) THE SIDE OF THE DRIVE SHOULD BE MARKED WITH A SERIAL NUMBER CONTAINING A 120 FOR SINGLE SIDE AND A 220 FOR DOUBLE SIDED. 2) THE HEAD LOAD PAD IS T-SHAPED ON A SINGLE SIDED DRIVE AND REVERSE -L- SHAPED ON A DOUBLE SIDED DRIVE.

#### OS-65U ALL VERSIONS

THE FOLLOWING MEMORY LOCATIONS HAVE BEEN DESIGNATED TO CONTAIN THE DATE. LEVEL I SYSTEMS MUST "ASK-THE-DATE" ONCE SO THAT IT MAY BE POKED INTO PLACE, LEVEL III SYSTEMS HAVE THE DATE ALREADY AVAILABLE TO THEM.

#### DATE STORAGE LOCATIONS

	LEVEL I ADDRESS	LEVEL III ADDRESS
DAY	24569	55922
MONTH	24570	55923
YEAR	24571	55924
TO DETERMINE IF A SYSTEM I BELOW MAY BE PEEKED FOR TH	S RUNNING LEVEL I OR L EIR CONTENTS.	EVEL III, THE MEMORY LOCATIONS
ADDRESS IN MEMORY	CONTENTS UNDER LVL I	CONTENTS UNDER LVL III
14948 14949 14950		3 216

### RESERVED WORD LIST FOR OS-65U V1.1

NOTE: THE LAST CHARACTER IN A RESERVED WORD HAS \$80 ADDED TO IT. RESERVED WORDS WHICH ARE NOT IN THE DISPATCH TABLE ARE MARKED WITH A "\*".

ADDRESS	RESERVED WORD	TOKEN
\$2300	- END	-\$80
	-FOR	
	NEXT	
	-DATA	
	···· INPUT	
\$2316	READ	-\$86
\$231A		-\$87
\$231D	GOTO	-\$88
\$2321		-\$89
\$2324		-\$8A
\$2326	-RESTORE	-\$8B
\$232D	,=G0SUB====================================	-\$8C
\$2332	RETURN	-\$8D
\$2338		-\$8E
\$233B	-STOP	-\$8F
\$233F		-\$90
\$2341	=\\\ <b>L</b>	-\$91
\$2345	. <b> </b>	-\$92
\$2349		-\$93
\$2340		-\$94
\$2351	· · · DEF = = = = = = = = = = = = = = = = = = =	-\$95
\$2354	. POKE	-\$96
\$2358	-PRINT	<u>-\$97</u>
\$2350	-CONT	-\$98
\$2361		-\$99
	-CLEAR	
\$236A	- INDEX	-\$9B
\$2370	-OPEN	-\$9C
\$2374	CLOSE	-\$9D
\$2379	-FIND====================================	-\$9F
	-DEV	
\$2380	-FLAG	-\$AØ
\$2384	-NEW	-\$A1
v — · o 9'		φι , ι
END OF COMMAND LIST		

- 111 ...

## FUNCTION LIST

		*			
\$2387	<b>- T</b> AB	-\$A2	*		
\$238B		-\$A3	*		
\$238D		-\$A4	*		
\$238F	<b>-</b> SPC ( •••••••••••••••••••••••••••••••••••	-\$A5	*		
\$2393	= <del>THEN====================================</del>	\$A6	*		
\$2397	= NOT	\$A7	-		
\$239A	-STEP	-\$A8	*		
\$239E		.¢Δ9	*		
\$239F	<b>ම ~ මතිම මති ශාඛාව ගෙන මේ සා කරා එන ශාඛාව කරා කතා කරා ම</b> ත් සා කරා එන මත් සා කරා එන සා කරා කරා කරා කරා කරා කරා කරා කරා කරා කර	\$ΔΔ	*		
\$23A0		.¢ΔR	*		
\$23A1		.¢Δc	*		
\$23A2		ΦΛΟ ΠΔΨ.	*		
\$23A3	AND	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
\$23A6	-0R	CAE.			
\$23A8		CDW.	*		
\$23.49		עטקי ומי	*		
\$2344		\$50.	*		
\$23AB	-SGN	ሳይሪ ነ <b>ኃ</b> ይረ	•		-
\$23AF		φD4			
\$2381	-ABS	\$54 CDC			
¢23B/	-USR	\$B5			
¢2227	-U3K	\$25 \$80			
\$22DV		\$B/			
\$400DV		\$88			
\$400N===================================	SQR	\$89	-		
16369	RND	\$BA			
16363	LOG	\$BB			
	EXP	\$BC			-
74367000000000000000000000000		\$BD	•		
) <u>()</u> (()================================	SIN	\$BE			-
\$23Up====================================	TAN	\$BF			
) <u>/</u>	ATN	\$CØ			
\$23U\$@@@@@@@@@@@@@@@@@@@@	-PEEK	\$C1			
\$2309====================================	- LEN	\$C2			
\$2300	-STR\$	\$C3			
\$2360	-VAL	\$C4	-		
\$2363@@@@@@@@@@@@@@@@@@@@@@	-ASC	\$C5			
\$2366===================================	CHR\$	\$C6			
\$2364	INDEX	\$C7			
\$23EF	LEFT\$	\$C8			
\$23F4====================================	-RIGHT\$	\$C9			
\$23FA====================================	-MID\$	\$CA			
\$23FE	0	MARKS	END	0F	TABLE

## DISPATCH TABLE FOR OS-65U V1.1

NOTE: EACH TWO BYTE TABLE ENTRY POINTS TO THE ADDRESS OF THE ROUTINE - 1. THOSE FUNCTIONS WHOSE ACTUAL ADDRESS ARE STORED IN THE TABLE ARE MARKED WITH A \*.

ADDRESS	TABLE ENTRY	- RESERVED WORD
\$2200	<b></b> \$ <i>0</i> 829	END
\$2202	\$0747	EOB
\$2204		NEVT
\$2206		DATA
¢2200	\$08F8	UAIA
\$22WV	\$ØB2B	- NPU I
477A4	\$0F23	
\$20VE		
177AE		
26610	\$Ø8A5	G0T0
\$22   2	\$2423	· · · · · · · · · · · · · · · · · · ·
\$2214	\$9928	
\$2216		RESTORE
26/9		GOSUR
\$22 A	\$08D2	RETURN
\$221C	\$093B	REM
\$221E	\$9827	STOP
\$2220	\$ø94B	ON X GOTO
\$2222	\$986C	014 X 4010
\$2224	\$169B	WAIT
\$2226	\$28FD====================================	I OAD
\$2228	\$2997	CAVE
\$2224		DEL Secondo Secondo
\$2226	<b>*</b> 1.00	BOUE
\$222E	\$1692====================================	POTUE
\$222E	**************************************	PRINI
t2220		CUNT
14414	**************************************	LIST
1000	======================================	CLEAR
\$2230	======================================	INDEX <
32238	=======\$2AD2============================	OPEN
\$223A	**************************************	CLOSE
\$2230		FIND
\$223E		DEV
\$2240		FLAG
\$2242	****************	NEW
\$2244	======================================	SGN *
\$2246		**************************************
\$2248	======================================	ARS *
\$224A		
\$224C	\$12 <u>9</u> 4====================================	
\$224F	**************************************	POS *
\$2250	======================================	SOR *
\$2252		======================================
\$2254	1100	KNU *
\$2256		eva
¢2250	######################################	EXP *
T2230		COS *
\$225C	**************************************	TAN #
\$2450	\$1FF2===================================	**************************************
DC/3E	\$2056	**************************************

\$226Ø	\$1688	PEEK *
\$2262	\$15F6	LEN *
\$2264	\$12E9	STR\$ *
\$2266	\$1627	VAL *
\$2268	\$1605	ASC *
\$226A	\$1566	CHR\$ *
\$226C	\$2080	INDEX *
\$226E	\$157A	LEFT\$ *
\$2270	\$15A6	RIGHT\$*
\$2272	\$15B1	MID\$ *
•		

## FLOATING POINT OPERATIONAL TABLE

\$2274 \$2275 \$2277 \$2278 \$227A \$227B \$227D \$227E \$228Ø \$2281 \$2283 \$2284 \$2284 \$2286 \$2287	\$79 \$16D8 \$79 \$16C1 \$7B \$18F3 \$7B \$1AØC \$7F \$1E4E \$5Ø \$ØE8B \$46 \$ØE88	PRECEDENCE VALUE FOR ADDITION DISPATCH FOR ADDITION PRECEDENCE VALUE FOR SUBTRACTION DISPATCH FOR SUBTRACTION PRECEDENCE VALUE FOR MULTIPLICATION DISPATCH FOR MULTIPLICATION PRECEDENCE VALUE FOR DIVISION DISPATCH FOR DIVISION PRECEDENCE VALUE FOR EXPONENTIATION DISPATCH FOR EXPONENTIATION PRECEDENCE FOR LOGICAL AND DISPATCH FOR LOGICAL AND PRECEDENCE FOR LOGICAL OR DISPATCH FOR LOGICAL OR PRECEDENCE FOR COMPLEMENT SIGN
\$228A	\$1E87	DISPATCH FOR COMPLEMENT SIGN
\$228C	\$5A	PRECEDENCE FOR COMPLEMENT NUMBER
\$228D	\$ØDE9	DISPATCH FOR COMPLEMENT NUMBER
\$228F	\$64	PRECEDENCE FOR RELATIONAL OPERATOR
\$2290	\$ØEB8	DISPATCH FOR RELATIONAL OPERATOR
\$2292	END OF DISPATC	H TABLE

MULTIPLE SYSTEMS VIA "SYSDIR" UNDER OS-65U LEVEL III CD-23 OR CD-74.

THE CHANGES BELOW WILL PERMIT THE USE OF "SYSDIR" UNDER OS-65U LEVEL III. THIS CHANGE MOVES THE CYLINDER OFFSETS FROM COMMON MEMORY TO MEMORY LOCATED IN EACH USERS PARTITION.

IF THE MODIFICATIONS ARE TO BE MADE TO A CD-23, THEN USE THE CHANGE BELOW:

DISK CHANGE UTILITY

MODE: HEX(H), DEC(D)? H UNIT? A ADDRESS OFFSET ? CØØ ADDRESS ? 35AØ ØØØØ35AØ FE ? Ø2 ØØØØ35A1 EF ? 34 ØØ4435A2 85 ? X

OK CLOSE

OK

IF THE MODIFICATIONS ARE FOR A CD-74, MAKE THE CHANGES AS SHOWN BELOW:

DISK CHANGE UTILITY

MODE: HEX(H), DEC(D) ? H UNIT ? A ADDRESS OFFSET ? CØØ ADDRESS ? 358Ø ØØØØ358Ø FE ? Ø2 . ØØØØ3581 EF ? 34 85 ? . 00003582 ADDRESS ? 3587 00003587 FF ? 03 ØØØØ3588 EF ? 34 ØØØØ3589 U 55 ? X

OK CLOSE

0K

ADDITIONAL CHANGES MUST BE MADE TO "SYSDIR". MAKE THE CHANGES FOLLOWING THE LISTING WHICH LOOKS LIKE THE FIRST FEW LINES OF YOUR "SYSDIR".

#### EARLY VERSIONS OF "SYSDIR" LOOK LIKE THIS:

1 DV = 1: REM OUTPUT DEVICE 2 REM 10 REM SYSTEMS DIRECTORY PROGRAM - CD-74 20 REM 30 REM DATA SYSNAME , PASSWORD , LENGTH 40 DATA MASTER, SECRET, 215040 50 REM DATA SYSNAME , PASSWORD , LENGTH

MAKE THESE CHANGES TO "SYSDIR" CHANGE LINE 520 FROM

520 IF AS=PW\$ THEN GOTO 600

TO

520 IF A\$=PW\$ GOTO 750: REM LVL III MOD 7/79

ALSO CHANGE LINE 760 FROM

760 POKE 61438,CY-INT(CY/256)\*256: POKE 61439,INT(CY/256)\*128

TO:

760 POKE 13314, CY-INT(CY/256) \*256: REM LVL 3 MOD 7/79

AND ADD LINE 765 AS SHOWN-

765 IF PEEK(13316) THEN POKE 13315, INT(CY/256) \*128

#### THE NEWEST VERSION OF "SYSDIR" LOOKS LIKE THIS:

10 REM SYSTEMS DIRECTORY PROGRAM - AUTO-CONFIG.
20 REM (C) OSI 1979
30 REM
40 DV = 1: REM OUTPUT DEVICE
50 REM
60 CS = 215 040: IF PEEK(13316)=1 THEN CS = 114 688

70 REM 80 REM DATA SYSNAME , PASSWORD , LENGTH

POKE THESE CHANGES TO "SYSDIR"

-CHANGE LINE 430 FROM

430 IF A\$=PW\$ THEN GOTO 470

TO:

430 IF A\$=PW\$ GOTO 620 : REM LVL III MOD 7/79

AND CHANGE LINE 630 FROM

630 POKE 61438,CY-INT(CY/256)\*256: POKE 61439,INT(CY/256)\*128

TO

630 POKE 13314,CY-INT(CY/256)\*256: REM LVLIIP MOD 7/79

AND ADD LINE 635 AS SHOWN BELOW:

635 IF PEEK(13316)<>1 THEN POKE 13315, INT(CY/256)\*128

THE FINAL CHANGE TO BE MADE IS TO "BEXEC\*". THIS CHANGE SHOULD BE INCORPORATED INTO THE BASE SYSTEM'S "BEXEC\*" ONLY. THE LINE SHOULD BE ELIMINATED FROM ALL "BEXEC\*" PROGRAMS ABOVE THE BASE SYSTEM.

IN "BEXEC\*" FOR THE BASE SYSTEM CHANGE LINE 210 FROM:

210 IF PEEK (4832) < 8 THEN POKE 61438, Ø: POKE 61439, Ø

.TO

210 T=4: IF PEEK (9832) < 8 THEN T=1: POKE 13314,0

AND ADD LINE 215 AS:

215 IF T=1 AND PEEK (13316) THEN POKE 13315,0

DELETE LINE(S) 210-215 IN ALL "BEXEC\*" PROGRAMS ABOVE THE BASE SYSTEM.

WP-2 & OS-65D V3.1 FIX

CORRECTS PROBLEM WITH VIDEO BASED SYSTEMS HANGING UP UNDER WP-2 WHENEVER A L COMMAND WAS GIVEN. THIS ALSO CORRECTS A GENERAL PROBLEM IN 0S-65D AND WP-2 WHEN OUTPUTING TO HIGHER NUMBERED DEVICES. THE PROBLEM SURFACED IF CNTRL-C OR CNTRL-S WAS ENTERED WHILE OUTPUTING TO A GIVEN DEVICE AND A HIGHER NUMBERED DEVICE. THE OUTPUT COULD APPEAR ON THE LOWEST NUMBERED DEVICE, BUT NOT ON THE HIGHER NUMBERED DEVICE.

TO INSTALL THE FIX, THE OS-65D DISC TRACK ZERO READ/WRITE ROUTINE IS USED AS SHOWN BELOW:

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 < CRE

SYSTEM OPEN

OK
EXIT CR
ØT TRACK
A\*EM CR

::CA 0200=01,2 CR FOR MINI FLOPPY ::CA 0200=13,1 CR FOR MINI FLOPPY ::CA 0

:!GO Ø2ØØ 4 CR >

- DISKETTE UTILITIES -

SELECT ONE:

1) COPIER

2) TRACK Ø READ/WRITE

? 2 4 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? 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 >
:04339 4CR >
4339/AD AO < LF >
         00 ( LF >
433A/21
433B/23
         AD & LF>
433C/A0
         21 (LF)
433D/00
        23 < LF >
```

#### @434D < CR >

433E/FØ DO < CR >

434D/4A DO (LF) 434E/E8 22 ( LF > 434F/90 E8 4 LF > 4350/09 4A < LF> 4351/48 90 (LF > 4352/8A 09 4 LF > 4353/48 48 < LF > 8A (LF) 4354/20 4355/71 48 (LF) 4356/23 20 (LF) 76 (LF) 4357/68 4358/AA 23 (LF) 4359/68 68 (LF) 435A/E0 AA (LF) 435B/07 68 (LF) 435C/D0 DO (LF) 435D/EF FI (CR)

#### @4371 < CR>

4371/0A 8C (LF) 4372/8D 78 (LF) 4373/78 23 (LF) 4374/23 DO (LF) 4375/98 D9 (LF) 4376/18 OA (CR) :!GO 0200 (CR) - DISKETTE UTILITIES -

#### SELECT ONE:

- 1) COPIER 2) TRACK Ø READ/WRITE
- ? 2 4 CR 7
- 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 <CR>