MEMORY TEST PROGRAMS

The two tests work exactly the same. The only difference is that lower Memory Test Program, tests from location 200 to the end of core. Upper Memory Test Program, tests from location 0 to location 7770. Remember when using Upper Memory Test to remove the Read Only Memory Card.

The program loads at 40 and auto-starts. The restart locations are 100 for Lower Memory Test and 10100 for Upper Memory Test. The program will run until an error is found. The program stops with the address of the word in error in the accumulator.

Push continue
>   The program will stop with the contents of the word in error in the accumulator.

Push continue
>   The program will stop with the address of the next word in error in the accumulator.

If no more errors the program continues running.

MEMORY TEST PROGRAM

1st stop

Accumulator holds address of first word in error.

Push continue, and accumulator shows word from 1st address.

Push continue, and accumulator shows address of 2nd word in error.

If no more words in error, program restarts.

NOTE: For 8K machine CHANGE:

144   **017776**

MEMORY TEST LISTING

```
                    ORG 100B / MEMORY TEST  IN 100
100    001072       IOS / IOT SYNC
101    100041       LDA / DS  TO  AC
102    020141       DAC #TWD / DAC TEST WORD
103    004200       LAW 200B
104    020010       DAC 10B
105    060141       LAC #TWD / LAC TEST WORD
106    120010       I DAC 10B
107    100002       CMA
110    120010       I DAC 10B
111    060144       LAC =7776B
112    074010       SAM 10B
113    010105       JMP .-6 / NOT DONE FILLING MEMORY
114    004200       LAW 200B / START COMPARING
115    020010       DAC 10B
116    060141       LAC #TWD / LAC TEST WORD
117    174010       I SAM 10B
120    034130       JMS E / JMS ERROR
121    100002       CMA
122    174010       I SAM 10B
123    034130       JMS E / JMS ERROR
124    060144       LAC =7776B
125    074010       SAM 10B
126    010116       JMP .-10B / MORE COMPARING
127    010100       JMP .-27B / START OVER       ; JMP 145.
                    E BSS 1 / ERROR SR
131    020142       DAC #SAV / SAVE AC
132    060010       LAC 10B
133    000000       HLT /     ADDRESS IN AC
134    020143       DAC #TMP
135    160143       I LAC #TMP
136    000000       HLT / CONTENTS OF ADDRESS IN AC
137    060142       LAC #SAV / RESTORE AC
140    110130       I JMP E / RETURN
                    END
144    007776
```

I 2AC 11B
JMP 100.