

9. OPERATING GUIDE - TVT MONITOR 8
FOR 8008 BASED SYSTEMS

The TVT Monitor 8 is a modification and extension of the Monitor 8 published by MIL before their untimely demise. The original Monitor 8 was written to be used with teletype/paper tape input and output. The TVT Monitor 8 is designed to be used with a Digital Group TVT, ASCII keyboard and Digital Group Cassette tape interface as input and output.

Several features were added to the Monitor 8 to increase its usefulness. One of these is software scrolling of the TVT. This causes the TVT to simulate the format of a teletype by displaying the previous seven lines. Two other additions were the "Insert" (INS) and "Delete" (DEL) routines which allow one to insert or delete octal code at any point in your program. These routines move the following instructions in memory to make room for the new instructions or close up a space. In addition, the addresser of JMP and CAL instructions are modified as appropriate to maintain proper loop registration. A program to zero memory was added (ZRO). And a program to load ASCII directly into memory (helpful for TVT output) was also developed (TXT).

The use of this operating system in program development would typically involve the following steps:

- 1) ZRO - zero program storage area
- 2) Symbolic input of rough program draft

- 3) TXT - input of any ASCII characters needed
- 4) DPS - symbolic dump to verify program or DPO - octal dump to verify code
- 5) XQT - execute program as subroutine of monitor
- 6) SBP - set break point to print out register and flag status at any program step
- 7) EDT, INS, DEL - these functions can be used to change, insert, or delete, instructions at any location. A particular advantage of this monitor is that on deletion or insertion of instructions the code following is moved up or down in memory and all JMP and CAL instructions are modified to maintain registration.

ONCE THE PROGRAM IS RUNNING TO YOUR SATISFACTION;

- 8) CPY - moves blocks of data around in memory
- 9) TRN - changes JMP and CAL arguments to reflect new page numbers
- 10) TAS - can be used to store completed program on cassette tape
- 11) PRG - can be used (if one has the proper hardware) to program EPROM's.

Price: MONITOR-8

\$6.00

PLEASE NOTE: This package runs only on 8008-based systems - will not run on 8080.