

**CDP18S843****Assembler/Editor Upgrade Firmware**

The Assembler/Editor Upgrade Firmware CDP-18S843 is provided in three 2716 EPROM's and is intended only for upgrading the Microboard Computer Development System (MCDS) CDP18S693 to the CDP-18S694. (Use of the Assembler requires two cassette tape units.) These EPROM's fit the CDP18S652 Microboard Combination Memory and Tape I/O Control Module provided with the CDP18S693 and provide Editor and Assembler capability.

The Text Editor allows the user to generate ASCII files on cassette tape. These files can be Level I CDP1802 language, BASIC3 instructions with line numbers, or simply text. The Editor output file becomes the input file for the assembler. The Editor commands include: Move pointer to beginning of buffer, Move pointer to end of buffer, Move pointer by n characters, Move pointer by n lines, Define input tape, Append lines, Insert text, Delete

n characters, Delete n lines, Save n lines, Get saved text, Find text, Substitute text, Define output tape, Type n lines, Write n lines to output tape, Write entire buffer to output tape, Print n lines, Return to UT62, and Quit session and restart Editor.

The Assembler allows the user to convert a Level I source file on tape (source code) into an executable machine language program on another tape (object code). The object code can then be loaded into memory by the UT62 Monitor program for execution, or it can be placed in an EPROM by a PROM programmer. The Assembler permits the user to write programs using convenient mnemonic expressions rather than machine language. It is a two-pass assembler with CDP1800-series Level I syntax. The Assembler also provides error messages to assist in debugging.