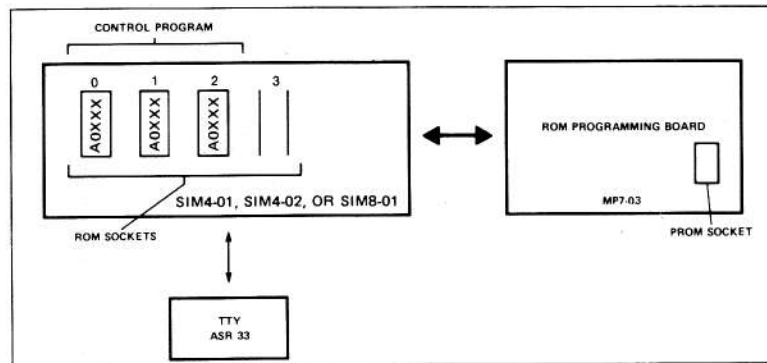


## Micro Computer PROM Programming Systems

Intel has developed a low-cost micro computer programming system for its electrically programmable ROMs. Using two special printed circuit boards produced by Intel and a standard ASR 33 teletype (TTY), a complete low cost and easy to use PROM programming system may be assembled. The system features the following functions:

1. PROM Programming
2. Format checking
3. Error checking
4. Program listing

For specifications of the Intel PROMs, refer to the 1602A/1702A in the ROM Section of this data catalog.



MCS PROM Programming System

This programming system has four basic parts:

1. The micro computer (SIM4-01, SIM4-02, or SIM8-01). This is the micro computer prototype board, which uses PROMs (1602A/1702A) for the microprogram control. The total system is controlled by the micro computer CPU.
2. The control programs (Intel tape numbers A0540, A0541, A0543 for SIM4-01 or SIM4-02, or tape numbers A0860, A0861, A0863 for SIM8-01).
3. The Programmer (MP7-03). This is the programmer board which contains all of the timing and level shifting required to program the Intel ROMs.
4. ASR 33 (Automatic Send Receive) Teletype. This provides both the keyboard and paper tape devices for the programming system.

### MP7-03 Programmer Board

The MP7-03 easily interfaces with the MCS-4 or MCS-8. All address and data lines are completely TTL compatible. The MP7-03 requires +5VDC @ 0.8 amps, -9VDC, or -10VDC @ 0.1 amps, and 50 Vrms @ 1 amp. Two Stancor P8180 (or equivalent) filament transformers (25.2 Vrms @ 1 amp) with their secondaries connected in series provide the 50 Vrms.

### MP7-03 Specifications

- Features:
- Inputs and outputs TTL compatible.
  - Board sold complete with transformers, capacitor, and connector
  - Directly interfaces with either SIM4-01, SIM4-02, or SIM8-01 boards.

#### Power Requirements:

- $V_{CC} = +5$  @ 0.8 amps
- TTL GRD = 0V
- \* $V_{DD} = 9V$  @ 0.1 amps
- $V_p = 50$  Vrms @ 1 amp

#### Dimensions:

- 8.4 inches high
- 9.5 inches deep

#### Connector:

- a. Solder lug type/Amphenol 72 pin connector  
P/N 225-23621-101
- b. Wire wrap type/Amphenol 72 pin connector  
P/N 261-15636

\*This board may be used with a -10V supply because a pair of diodes (i.e., 1N914 or equivalent) are located on the board in series with the supply. Select the appropriate pin for either -9V or -10V operation.

