



## OPERATING INSTRUCTIONS SERIES 90 PERSONALITY MODULE

Pro-Log's series of plug-in personality modules for the Series 90 PROM Programmer includes three types: Dedicated Modules are configured to program one or more devices with the same pinout; Generic Modules utilize Pinout Adapters and configurators to program any of a manufacturer's particular line of PROMs; Gang Modules program multiple PROMs (usually 8) simultaneously.

In all cases, the Personality Module interfaces with the Control Unit to provide the various voltages required to program and read a particular PROM, accommodating the various interface options of the Control Unit automatically.

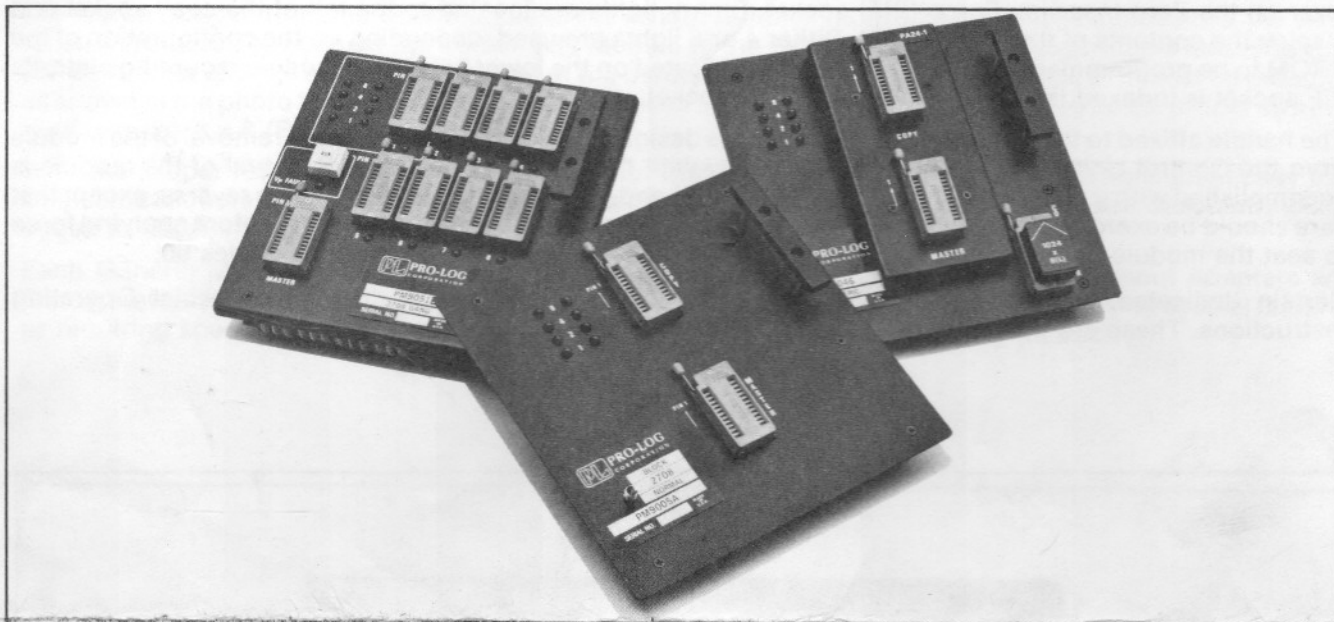


Figure 1 Pro-Log's Gang, Dedicated and Generic Personality Modules

Each module plugs into the Series 90 Control Unit, using three D-type connectors. These connectors are well proven and reliable. Each module has one (or more) copy sockets and one MASTER socket. Programming voltages are never applied to the MASTER socket, protecting the PROM.

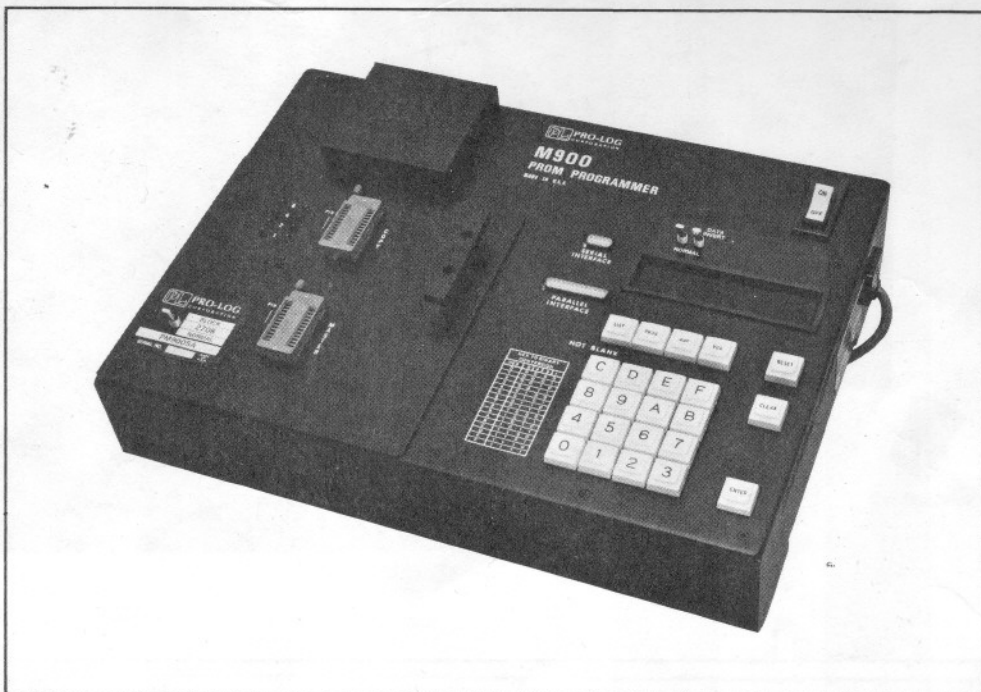
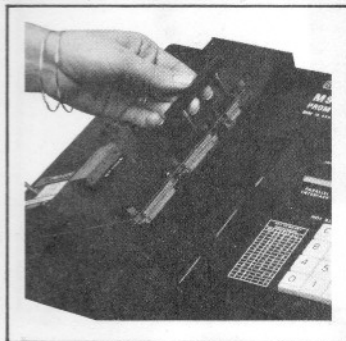
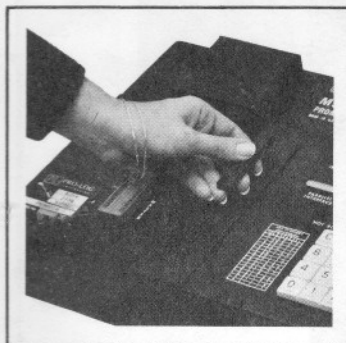


Figure 2 Insertion and Removal of a Personality Module

**DEDICATED MODULES**

These modules are configured to program one or a few PROMs with identical pinouts. In some cases, a switch is used to permit one module to program two PROMs of the same family (e.g. 256 x 4 and 512 x 4), when the pinouts are compatible. In a few cases, the switch is used to set the operating conditions to satisfy one manufacturer's product which differs from others with similar products (e.g. PM9001A).

The copy socket is located on the upper half of the module mounting plate; pin 1 is located next to the locking lever on the Zero Insertion Force (ZIF) socket. Binary lights are located to the left of the copy socket and display the contents of the copy socket. Either 4 or 8 lights are used, depending on the configuration of the PROM to be programmed. The MASTER socket is located on the lower half of the module mounting plate; its ZIF socket is indexed the same way as the copy socket.

The handle affixed to the Personality Module plate is designed to assist in insertion and removal of the module from the Control Unit, by being mounted coaxially with the D-type connectors. Removal of the module is accomplished with a direct upwards pull or slight back-and-forth motion. Insertion is the reverse, except that care should be exercised to ensure that the D-type connector shells are mated properly before applying force to seat the module. When properly seated, the module plate is flat on the top of the Series 90.

Certain dedicated modules have special features or functions, and therefore have special Operating Instructions. These are provided with each module.

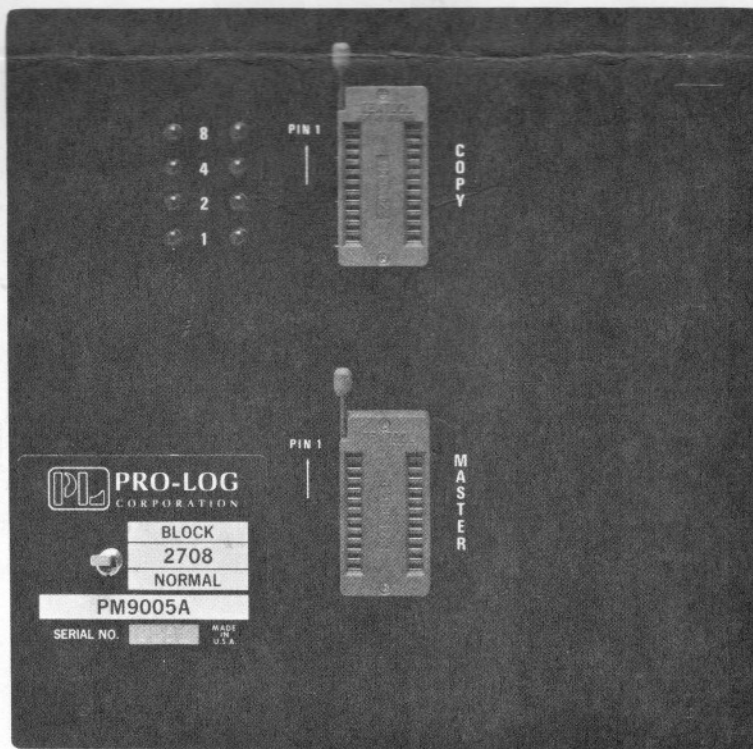


Figure 3 Dedicated Personality Module

**GENERIC MODULES**

Generic Modules are designed to program all PROM types of a particular manufacturer, using adaptors to conform to specific pinouts and configurators which allow the Series 90 Control Units to automatically accommodate different sizes and types of PROMs (i.e. 512 x 4 or 1024 x 8). The polarity of unprogrammed PROM locations and the type (bipolar or MOS) is also contained in the configurator. (Refer to the PUG for specific Pinout Adapter and Configurator types for particular PROM types).

Signals are passed from the base module to the Pinout Adapter via two 25 pin D-type connectors, the same reliable type used to connect the Personality Module to the Control Unit. The configurator is mounted via a ZIF connector located on the bottom right of the module mounting plate. The configurator must be mounted as shown in the photo below in order for the module to function properly. It should also be the proper size and type (e.g. 2048 x 8 (EH) for a 2716).

With the proper Pinout Adapter and Configurator installed, the Generic Module functions identically to a Dedicated Module of the same type. Additional Pinout Adapters and Configurators are constantly being added to accommodate the ever-broadening line of PROMs being manufactured.

Each Generic Module is furnished with a Configurator chart, detailing the various Pinout Adapters and Configurators required to Program the manufacturer's line of PROMs. Those modules having special features or requiring special operating techniques are furnished with special operating instructions.

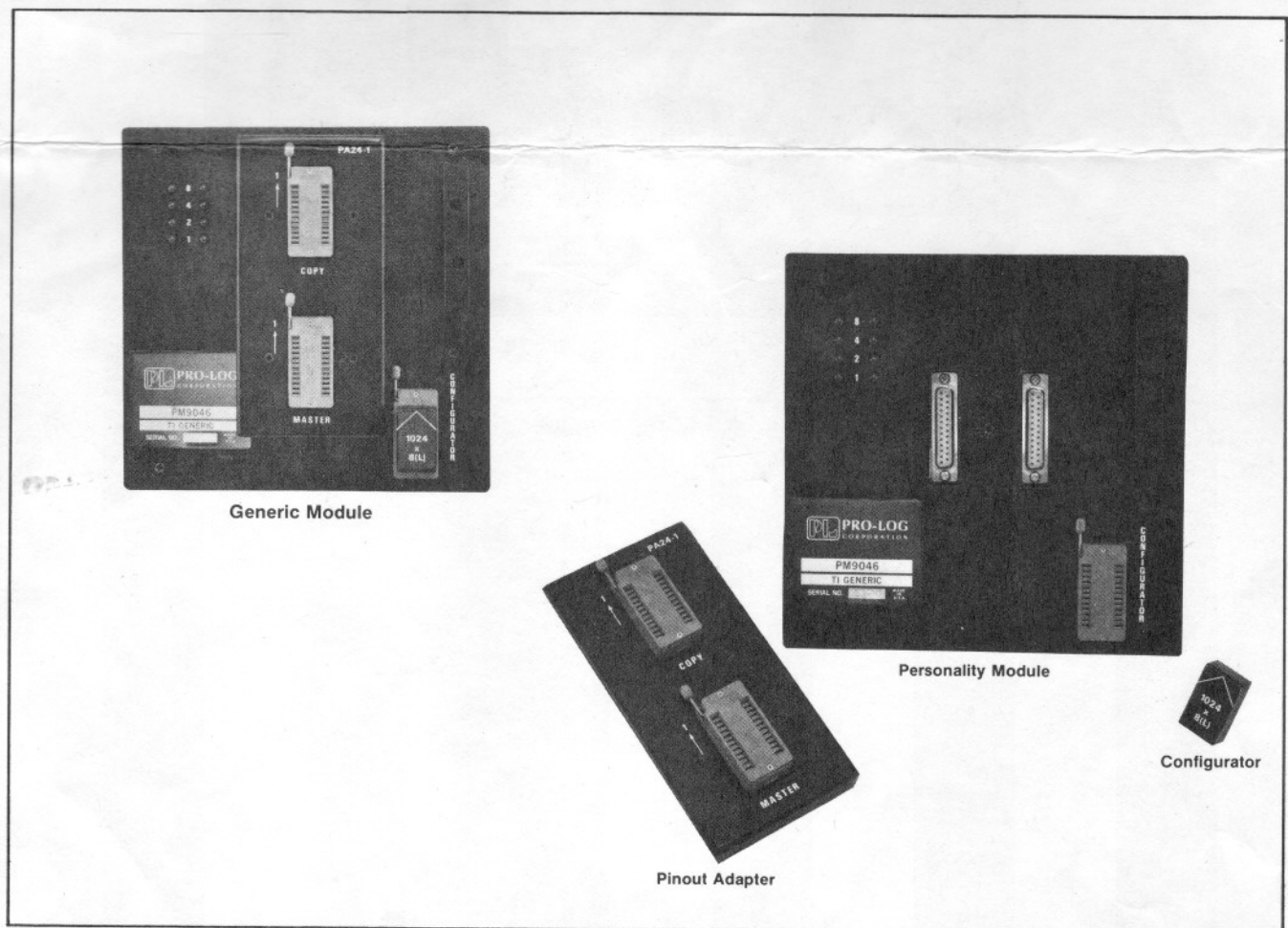


Figure 4 Generic Personality Module



**GANG MODULES**

Gang Modules are designed to program multiple PROMs simultaneously. The operation of each one is tailored to the PROM being programmed, and each one has its own special Operating Instructions.

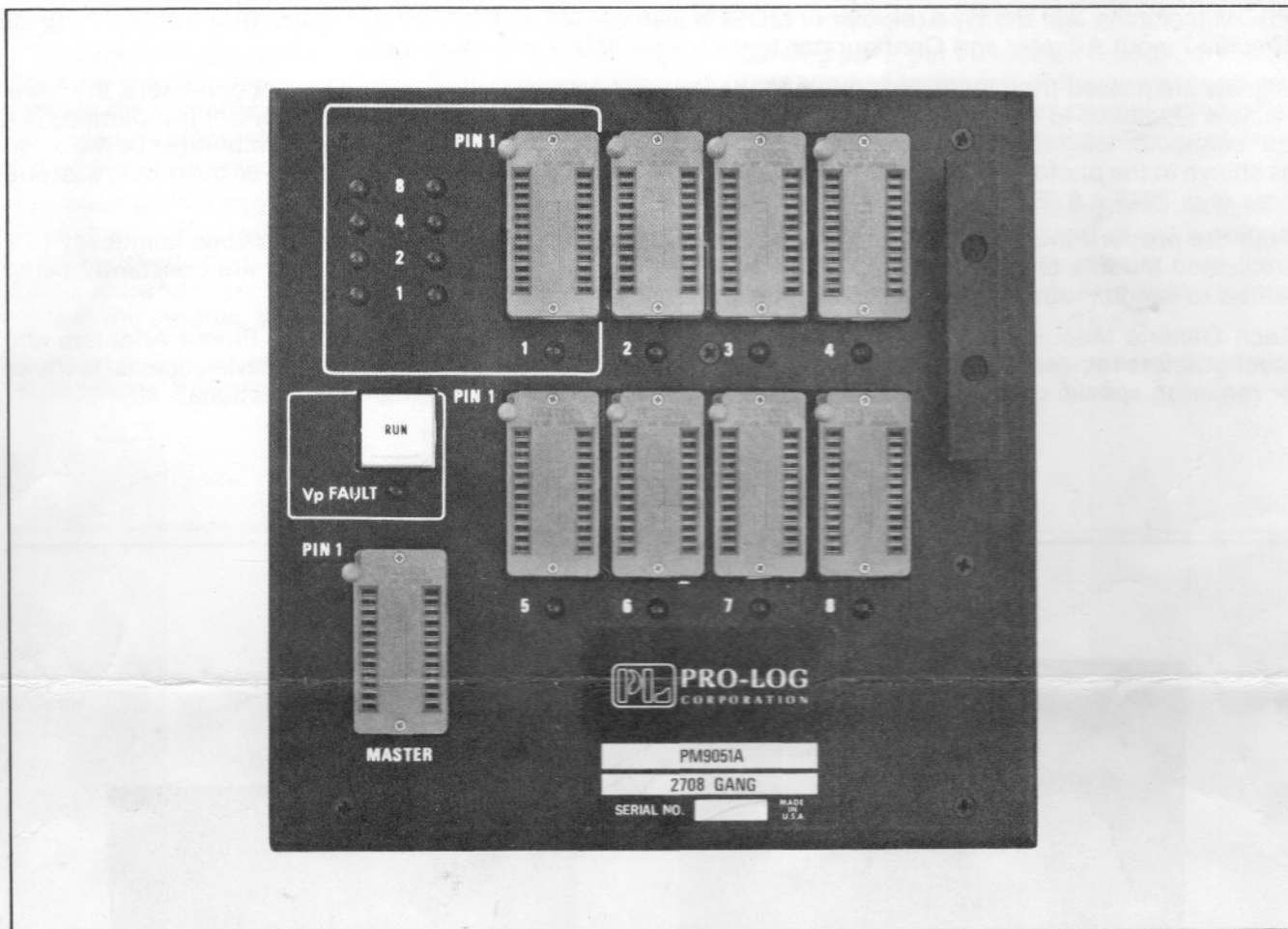


Figure 5 Gang Personality Module

