INTRODUCTION

The ADS PEM is an extension module for the AdsPromblaster. The PEM consists of two printed circuit boards connected by a 2 foot ribbon cable. A two level 28 pin wire wrap socket on the smaller P.C. board is used to plug into the LIF socket on your Promblaster. A second board mounted on a small rectangular box has a Textool ZIF socket installed for your convenience when programming. This system will eliminate the need for the user to open his system every time he programs an eprom.

MOUNTING THE PROM EXTENDER

The small printed circuit board end of the Prom Extender is fastened to the Promblaster by a small plastic P. C. board support clip. Your Promblaster board may or may not have a corresponding mounting hole. Promblasters purchased prior to September 1, 1982 will not have this hole. Some boards purchased between September 1, 1982 and February 1, 1983 will have the hole supplied. All boards purchased after February 1, 1983 will have a mounting hole for the Prom Extender.

If your board does not have a 5/32" hole located just to the right of Q3 and Q11 then follow these instructions. If your board does have the mounting hole then go to Instruction L.

If you have an unpopulated Promblaster P. C. Board follow instructions A thru D. If you have a populated Promblaster P. C. Board start at instruction E.

A. Cut out Figure 1 below.

B. Using Figure 1 as a template; line up all 28 pads on the I/C circuit outline with the inner 28 holes on U8 of the Promblaster. Carefully tape the template to the Promblaster P. C. Board.

C. With a 1/16" drill bit, drill a hole through the template and Promblaster P. C. Board at the location marked A on the template drawing.

D. Remove the template from the Promblaster. Now skip over to Section I.

E. Cut out Figure 2 below.

F. Use Figure 2 as a template on the solder side of the Promblaster board, line up the circuit pads labeled B with pins 1 through 14 of U8 on the Promblaster. After you have lined up all 14 pins, push the remaining tails of the LIF socket tabs through the holes on Figure 2. This will insure an exact placement. Carefully tape the sides of the template to the Promblaster P. C. board. Make sure not to move the template when taping the template.

G. Using a 1/16" drill bit, drill a hole through the template and Promblaster P. C. board at the location marked A on the template drawing.

H. Remove the template from the Promblaster and turn the board so the component side is facing up.

I. Inspect the 1/16" hole in the Promblaster. It should be located 3/8 of an inch to the right of the emitter pad of Q3 and should not be closer than 3/16 of an inch from any copper P.C. traces.

J. After you are confident that this 1/16" hole is in its correct location, then drill a 1/8" hole through this 1/16" hole.

K. Lastly, drill a 5/32" hole through the 1/8" hole you just drilled.

L. If you have an unpopulated board continue with assembly of your Promblaster according to its manual. After assembly or if you have received an assembled Promblaster board. Insert the small end of the enclosed plastic P.C. board support into the new hole of your Promblaster from the component side.

M. With the mounting hole on the Prom Extender directly above the plastic P.C. board support on the Promblaster, line up all 28 wire wrap pins with the LIF socket in U8. Press the Prom Extender onto the Promblaster allowing the plastic P. C. board support to snap into place. Note that after this assembly the Prom Extender will be on a slight angle with respect to the LIF socket. This is normal and does not affect electrical operation. At this point you may wish to inspect that all the wire wrap pins are properly inserted in the LIF socket.

N. Your Prom Extender is now ready for use.

USING THE PROM EXTENDER

Since the Prom Extender is an extension of U8 on the Promblaster, Eproms are read and programmed as per the Promblaster and Promwriter manuals. Be careful when using 24 pin Eproms that you use the lower portion of the Textool ZIF socket.

The 28 pin wire wrap socket on the small P. C. board of the Prom Extender is used solely to mate with the LIF socket on the Promblaster. Do not attempt to insert an Eprom in this socket. Placing an Eprom in this socket could result in damage to the Eprom and Promblaster.
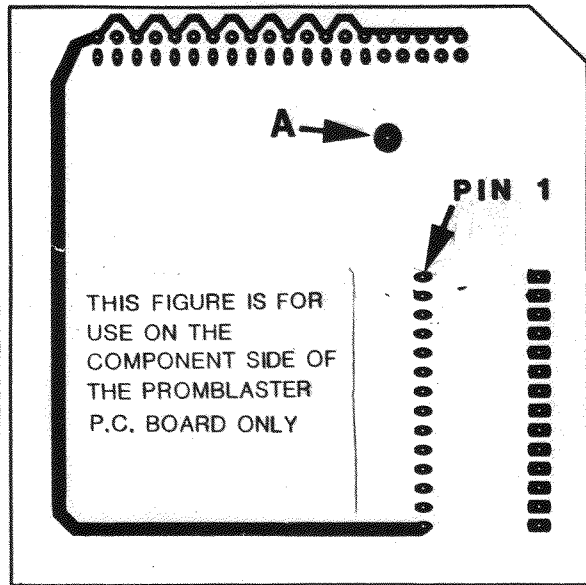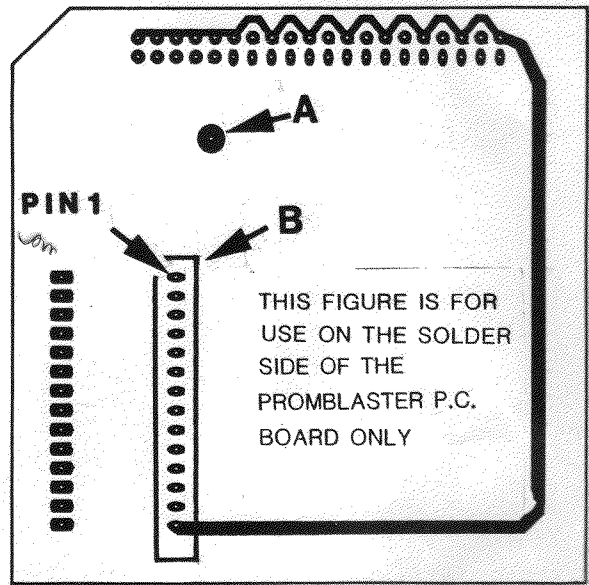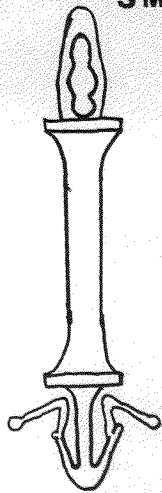
PROM EXTENDER

A →● PIN 1

THIS FIGURE IS FOR
USE ON THE
COMPONENT SIDE OF
THE PROMBLASTER
P.C. BOARD ONLY

FIGURE 1

PIN 1   B

THIS FIGURE IS FOR
USE ON THE SOLDER
SIDE OF THE
PROMBLASTER P.C.
BOARD ONLY

●← A

FIGURE 2

SMALL END

TO BE INSERTED IN THE
PROMBLASTER BOARD FROM
THE COMPONENT SIDE

P.C. BOARD SUPPORT