



RAYPAK REPLACEMENT INSTRUCTIONS

LCD DISPLAY MODULE (KIT #013640F)
FOR USE WITH "ADVANCED FLAME TECHNOLOGY" CONTROL PCB (601944)

IMPORTANT NOTICE

These instructions are intended for use by qualified personnel specifically trained and experienced in the installation of this type of heating equipment and related system components. Installation and service personnel may be required to be licensed in some states. Installation or repairs performed by unqualified persons may void the warranty.

DANGER - SHOCK HAZARD

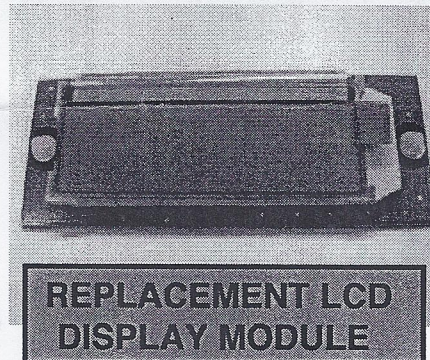
Make sure electrical power to the heater is disconnected to avoid potential serious injury or damage to components.

SCOPE:

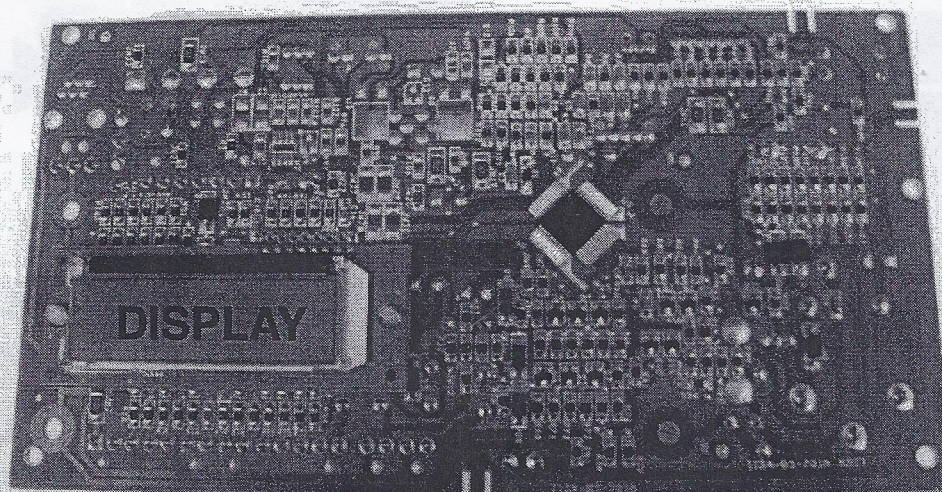
This LCD DISPLAY is only to be used on Raypak "Advanced Flame Technology" (AFT) control boards (P/N 601944).

This Kit Includes:

- (1) LCD Display Module
- (2) Mounting Posts
- (1) Instructions



**REPLACEMENT LCD
DISPLAY MODULE**



CONTROL 601944

ACCESSING THE CONTROL BOARD

1. Turn off the power to the heater.
2. Turn off the gas to the heater.
3. B-Series: Remove front door by removing the 4 door panel screws shown in Fig. 1 and Fig. 2.
4. A-Series: Remove front door by removing the large door screw in front of unit as shown in Fig. 1.
5. Remove the four screws on the side of control panel. See Fig. 3 and Fig. 4.
6. Lay control panel forward toward you to access the back of the temperature control board.

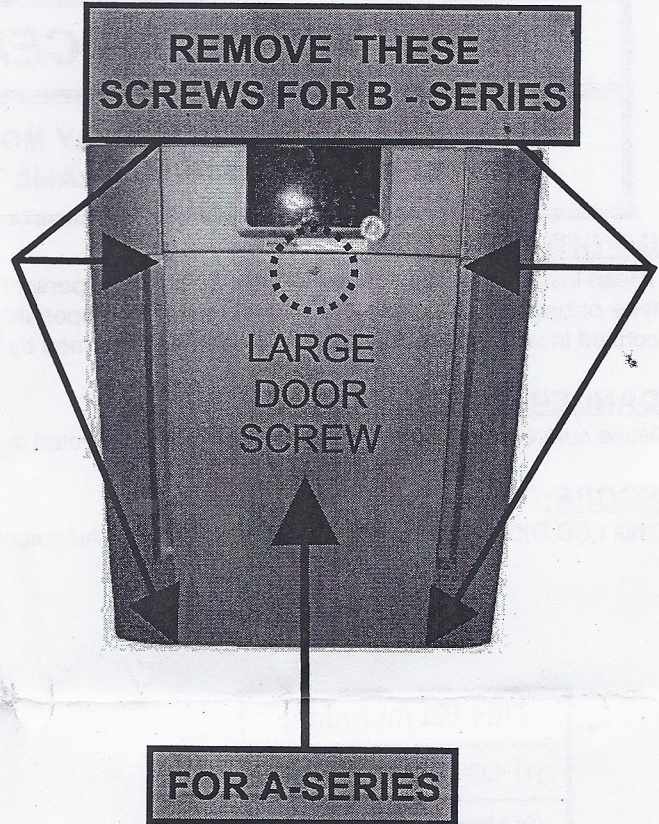


Fig. 1

Close-up

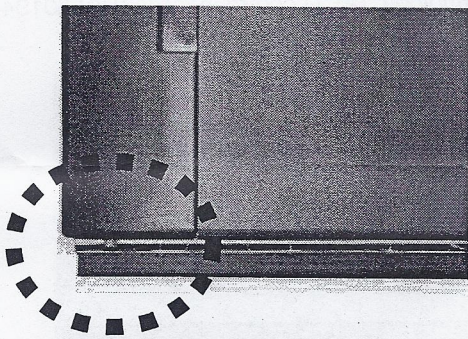


Fig. 2



Fig. 3

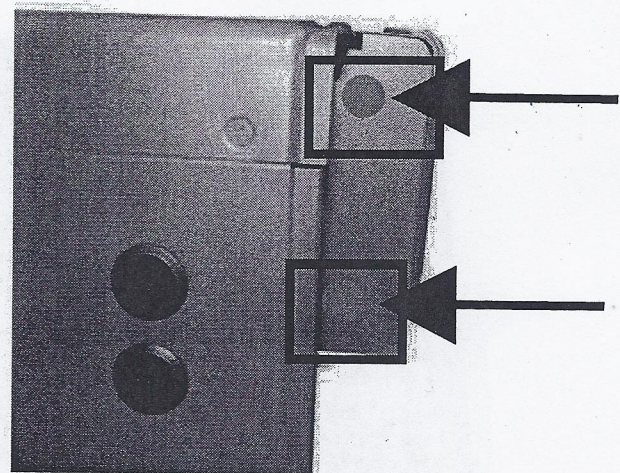


Fig. 4

REMOVING THE CIRCUIT BOARD

Make sure the power and gas are off.

1. Unplug all connectors from old circuit board. See Fig. 5.
2. Unplug touchpad and sensor cables from the circuit board.
3. Remove the five mounting screws as shown in Fig. 6.
4. Remove the old circuit board.

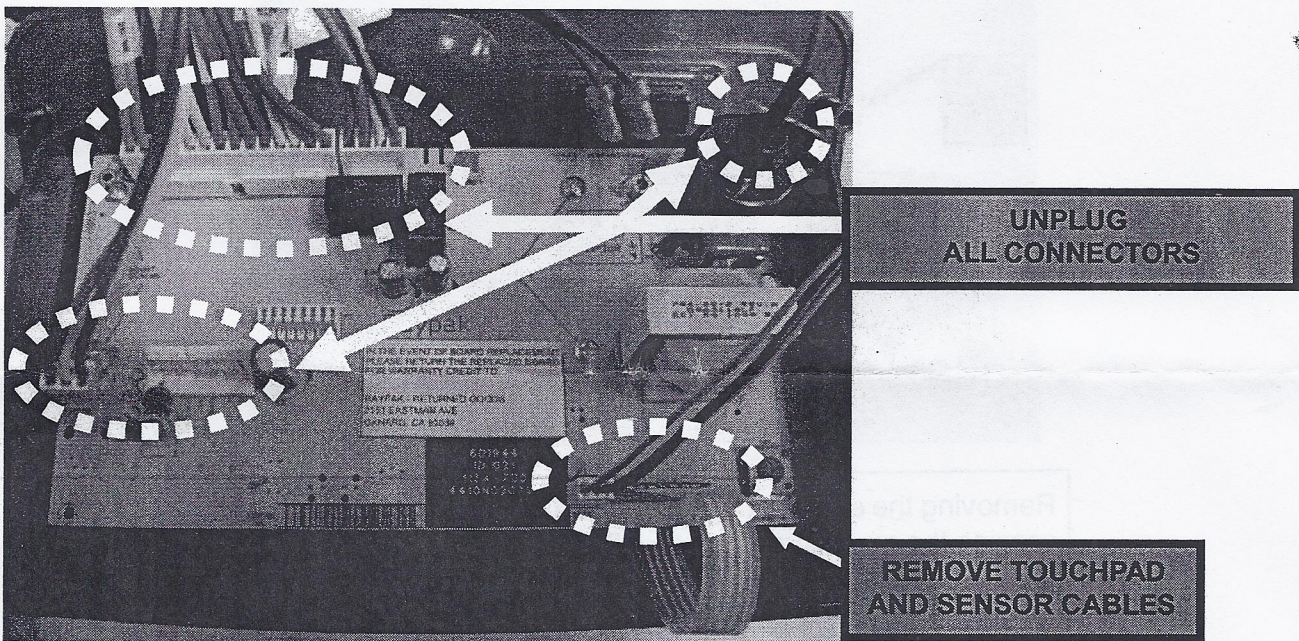


Fig. 5

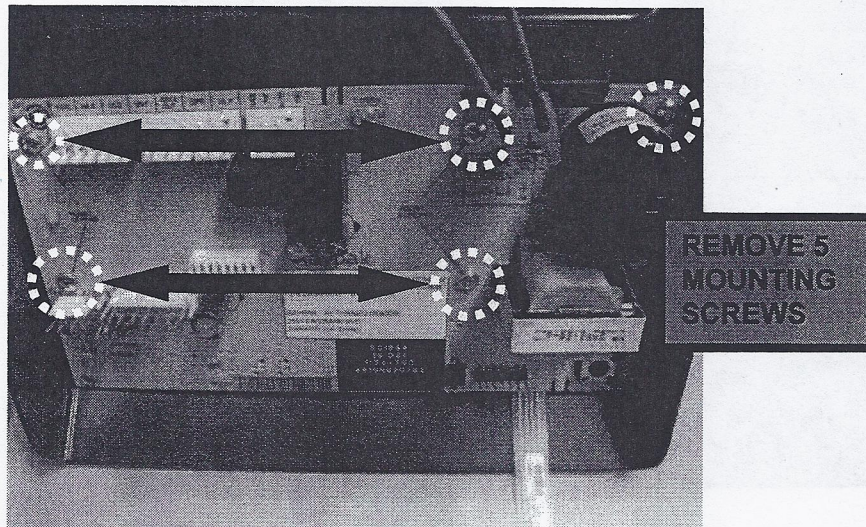


Fig. 6

CAUTION: ESD PROTECTION GUIDELINES SHOULD BE USED AT ALL TIMES WHEN HANDLING CIRCUIT BOARDS!!

The LCD Display module is a small PCB which plugs into the control PCB with an 8-pin connector. (See Point A on Fig. 7)
The Display module is attached with two pre-installed stand-offs. (See Point B on Fig. 7)

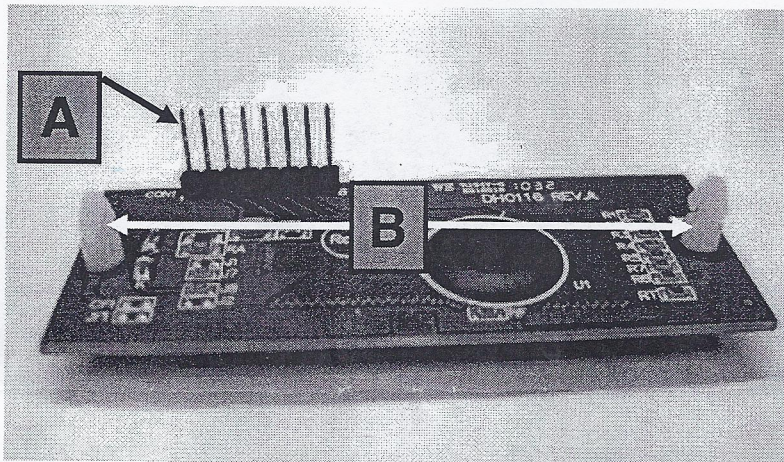


Fig. 7

Removing the existing Display module is accomplished by accessing the mounting stand-offs (Fig. 8) on the reverse side of the control board.

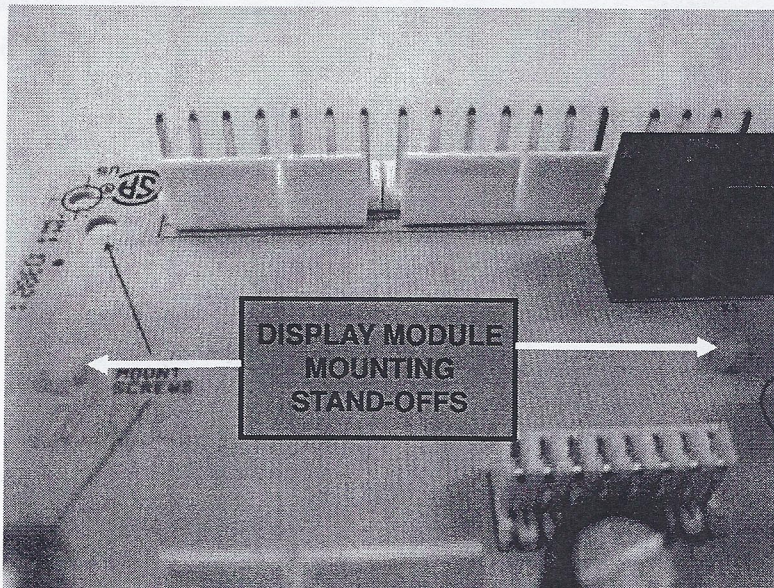


Fig. 8

REMOVING THE EXISTING DISPLAY

To remove the existing display:

1. Gently compress the stand-off locking tabs. See **Fig. 9.**
2. Push the stand-off through the mounting holes. See **Fig. 10** and **Fig. 11.**
3. Repeat for the second stand-off.

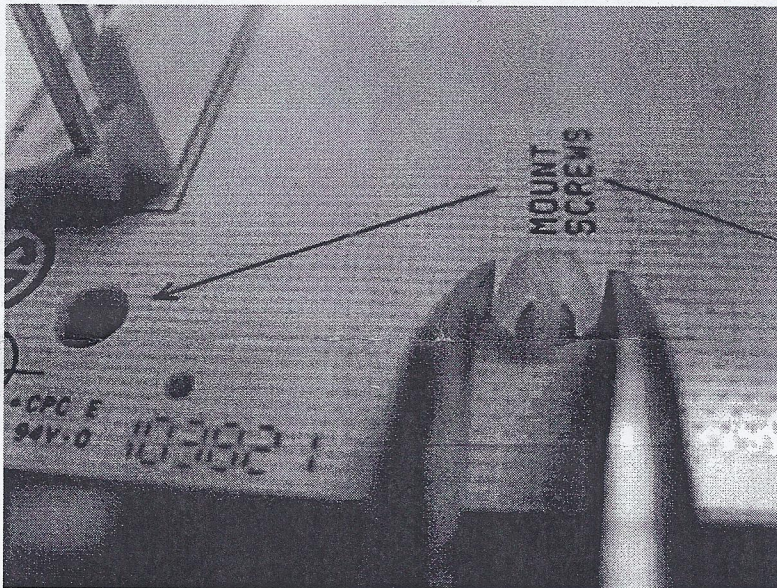


Fig. 9

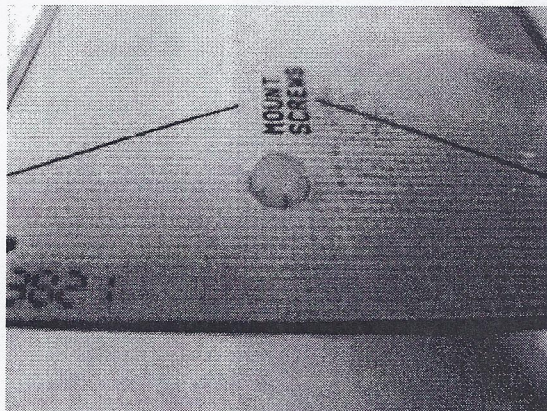


Fig. 10

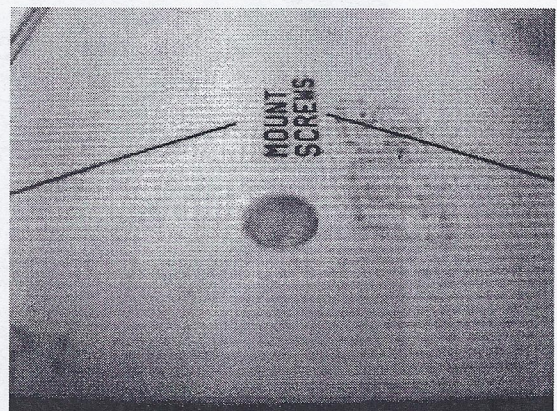


Fig. 11

Firmly grasp and remove the Display module. See Fig. 12.
The control PCB is ready to accept a new Display module. See Fig. 13.

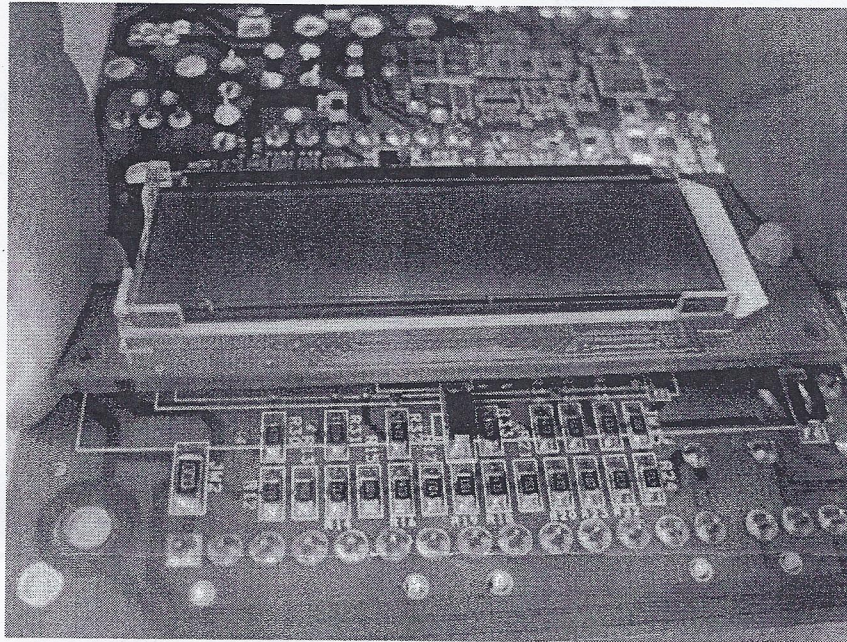


Fig. 12

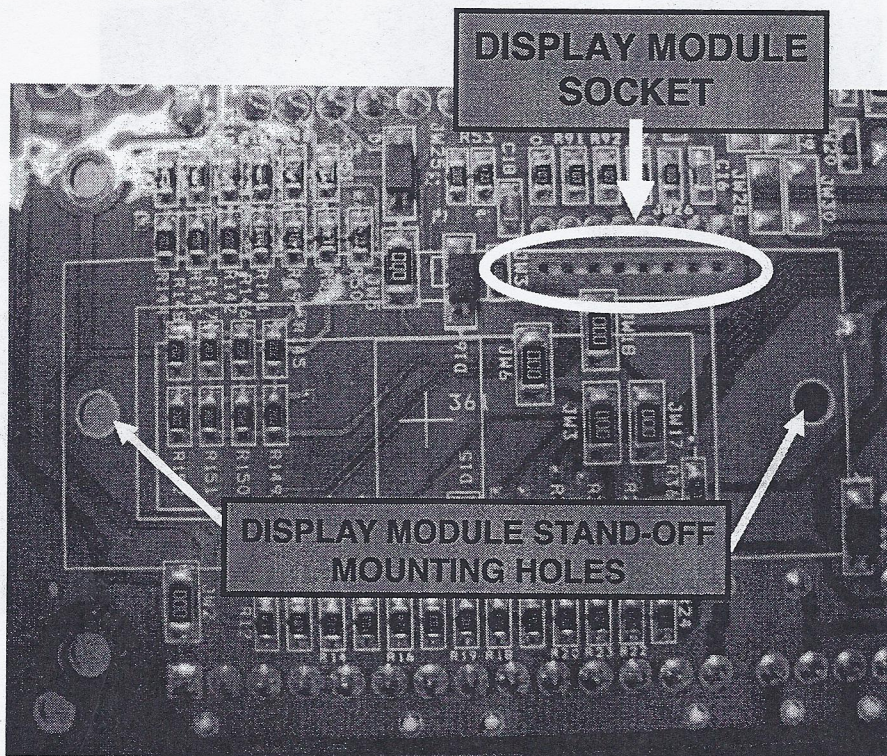


Fig. 13

PREPARING THE DISPLAY FOR INSTALLATION

Replacement LCD Displays have a protective film covering the viewing area. It is important to remove the protective film before installing the display. See Fig. 14.

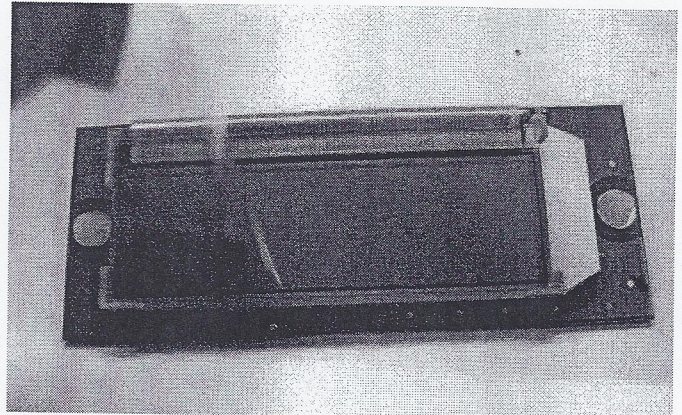


Fig. 14

DISPLAY MODULE INSTALLATION

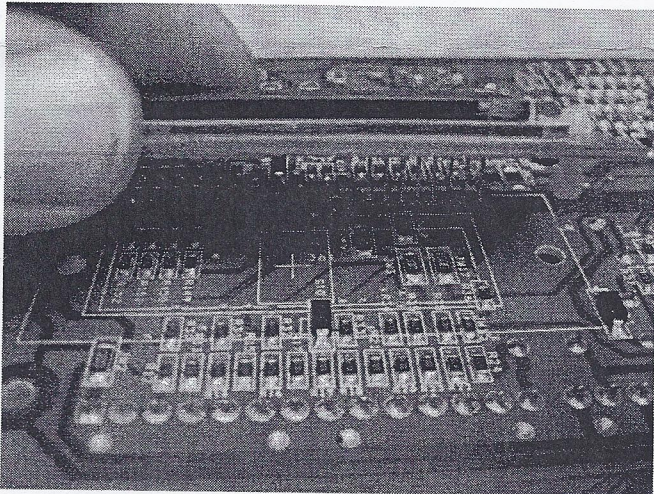


Fig. 15

Match the 8 pin display module connector and stand-offs with the control board. See Fig. 15. Install the display module.

Gently press down on the module until the stand-off locking tabs have completely engaged. See Fig. 16.

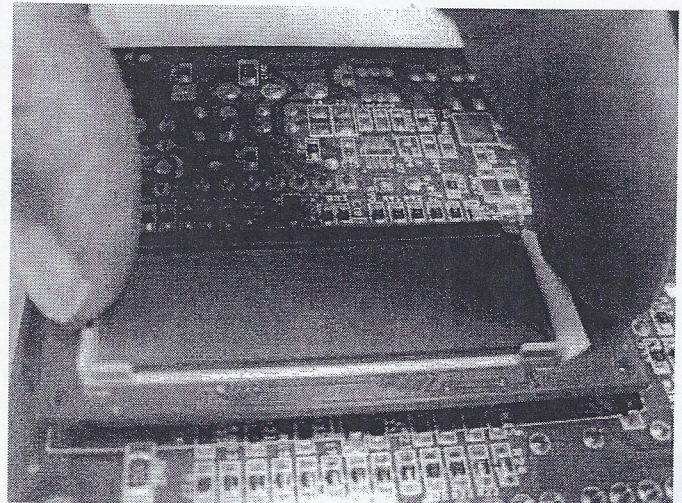


Fig. 16