

**SECTION 12**  
**MOTHER BOARD ASSEMBLY**

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## SECTION 12

### MOTHER BOARD ASSEMBLY

#### 12.1 GENERAL DESCRIPTION

The Mother Board Assembly includes a mother board and shielding backplane. The mother board is the communications interface between most of the projector modules; primarily the card rack mounted modules. The Mother Board does not contain any electronic components, only card edge and harness connectors.

#### 12.2 SERVICING

##### 12.2.1 Disassembly and Access

###### Assembly Location:

- ▶ central

###### Tools & Equipment Required:

- ▶ Phillips screw driver
- ▶ 1/4" hex head socket

a) Remove the following covers and panels. Refer to Section 5 for instructions.

- ▶ top cover
- ▶ rear panel
- ▶ lower case
- ▶ both side panels

b) From the rear panel card rack, remove all plug-in modules. These include:

- ▶ Video Input Module
- ▶ Video Control Module
- ▶ Convergence Module
- ▶ Auto-Convergence Module (option)
- ▶ Waveform Module
- ▶ Remote Control Module
- ▶ Horizontal Deflection Mod.
- ▶ Vertical Deflection Module
- ▶ Remote Jack Assembly

c) From the rear panel card rack, remove each of the upper and lower snap-in type card slides and module shields. Note: Record the slot position for removed shields. For ease, it is recommended to remove slides and shields beginning from the right side to the left side of the card rack.

d) Unplug connectors P13, P14, P15, P16, P17, P18, P21, P22 and P23 from the Mother Board.

e) Remove each of the Power Deflection Modules. Refer to Section 13 for instructions.

f) Remove the hex head screws securing the projector bottom plate to the projector frame. See Figure 12-1.

g) With the bottom plate removed, remove the two side screws which secure the Mother Board backplane to the projector frame.

h) The Mother Board Assembly can then be removed through the bottom of the projector frame.

#### 12.3 TERMINAL LAYOUT AND SCHEMATIC

Refer to the following pages for the Mother Board terminal layout and schematic.

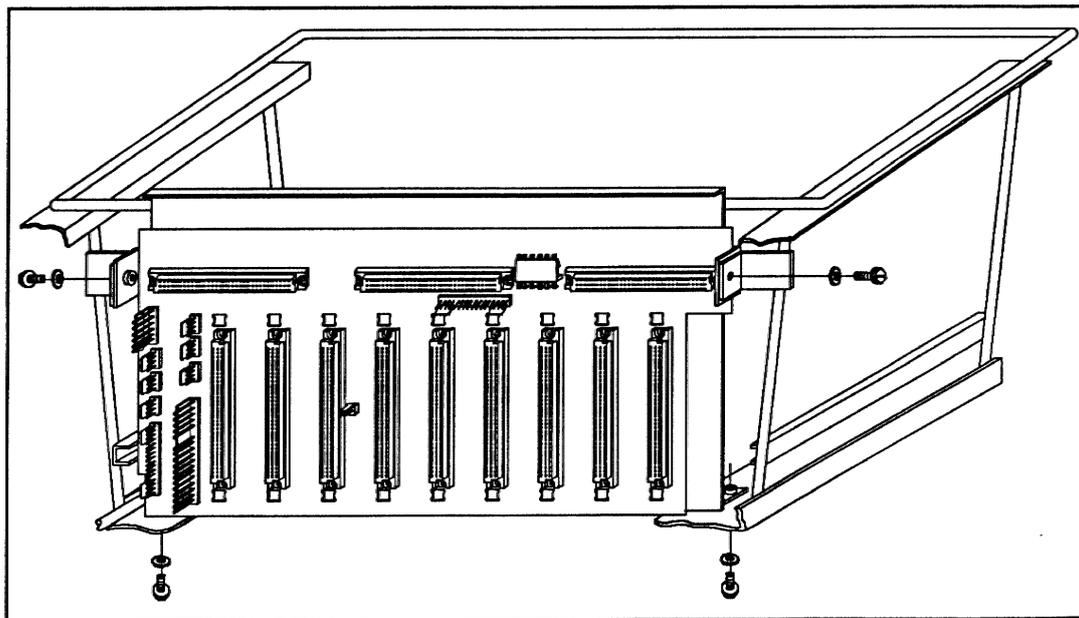


FIGURE 12-1. Mother Board Assembly Removal

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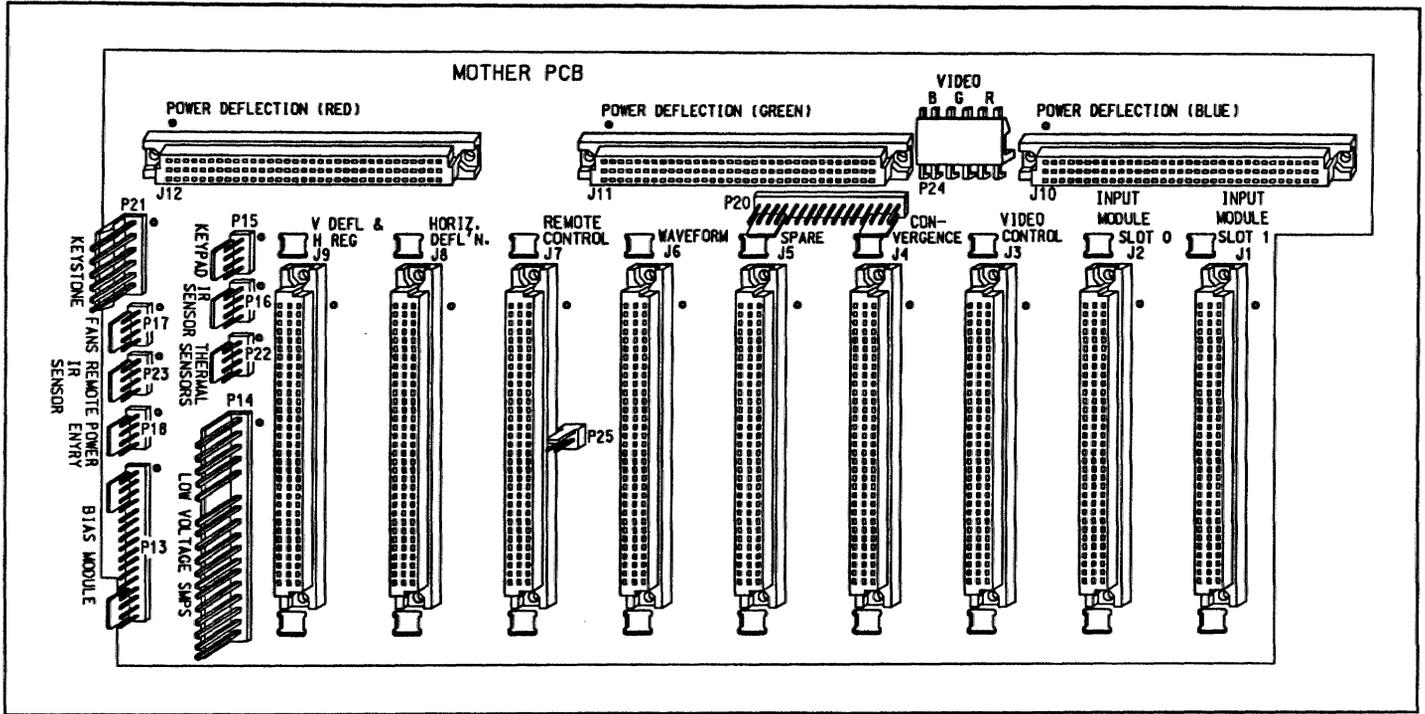


FIGURE 12-2. Mother Board Terminal Layout

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**12-4 MODULE SERVICING**  
**Mother Board Assembly**

**24.4 PARTS LIST**

<b>Item Ref.</b>	<b>Part No.</b>	<b>Description</b>
<b>Connectors</b>		
J1-J5,J8-J12	CN-34-001056-02P	64 pin female
J6,J7	CN-34-001056-03P	96 pin female
<b>Headers</b>		
P24	CP-34-000557-06P	6 pin locking type
P15-P18,P22,P23	CP-34-000813-04P	4 pin locking type
P13,P20	CP-34-000813-16P	16 pin locking type
P21	CP-34-000820-06P	6 pin 0.156" square pin
P14	CP-34-000820-18P	0.156" square pin