

SECTION 23

MOTHER BOARD ASSEMBLY

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23.1 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.

23.2 SERVICING

23.2.1 Disassembly and Access

Assembly Location:

- central

Tools & Equipment Required:

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

a) Referring to Section 5, remove the following covers and panels:

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

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 (optional)
- Waveform Module
- Remote Control Module
- Horizontal Deflection
- Vertical Deflection & Horizontal Regulation 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 19 for instructions.

f) Remove the hex head screws securing the projector bottom plate to the projector frame. See Figure 23-1.

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.

23.3 TERMINAL LAYOUT AND SCHEMATIC

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

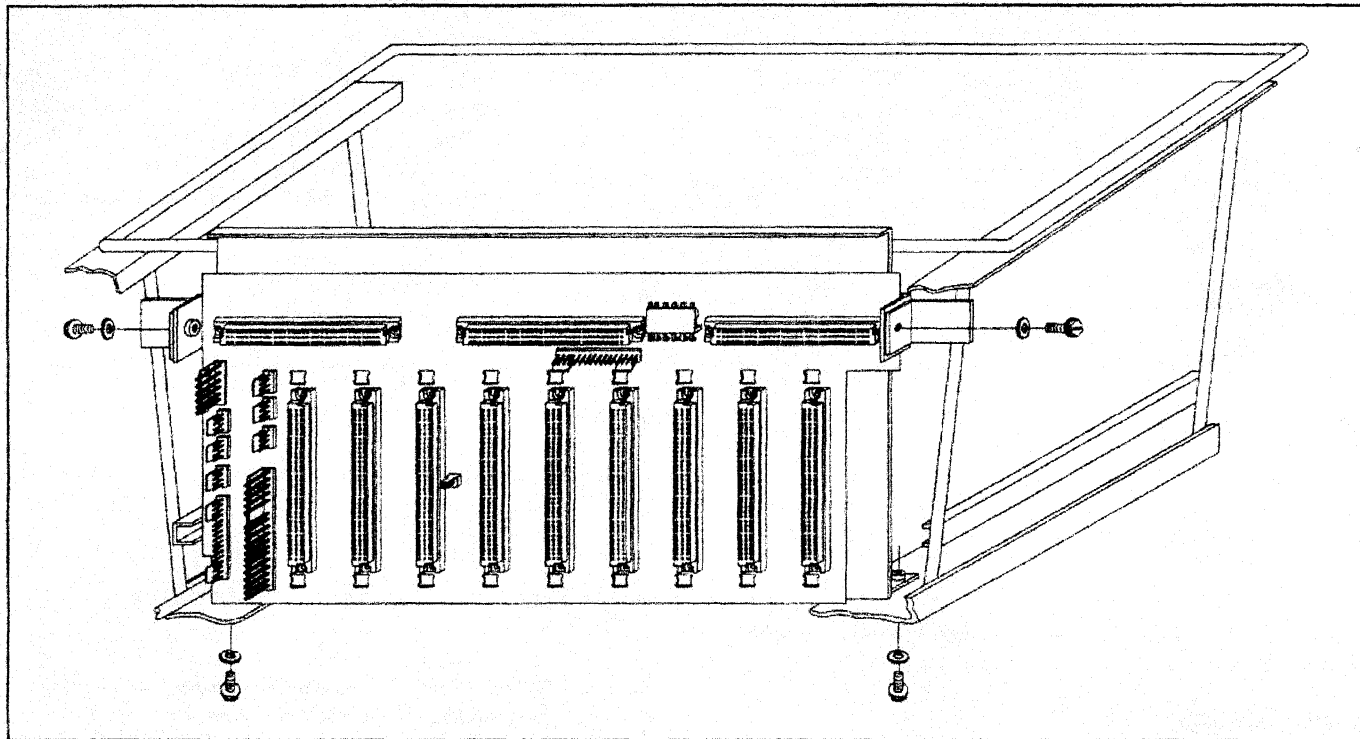


FIGURE 23-1. Mother Board Assembly Removal

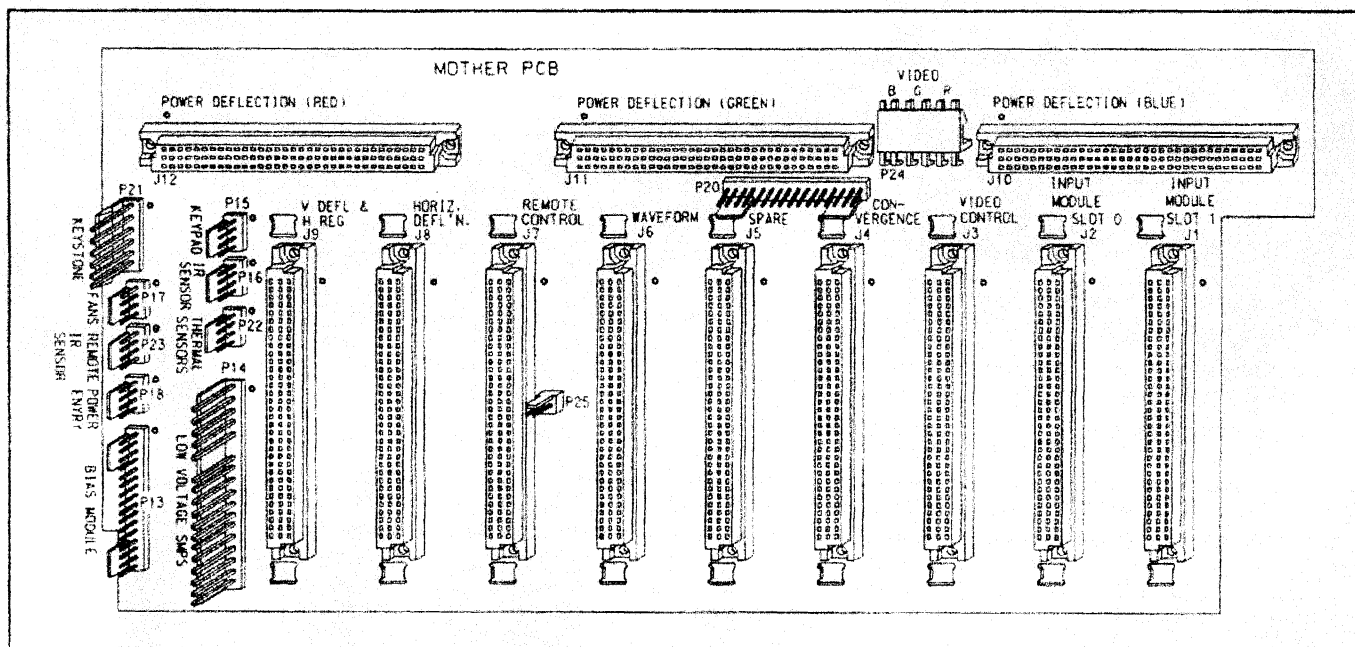


FIGURE 23-2. Mother Board Terminal Layout

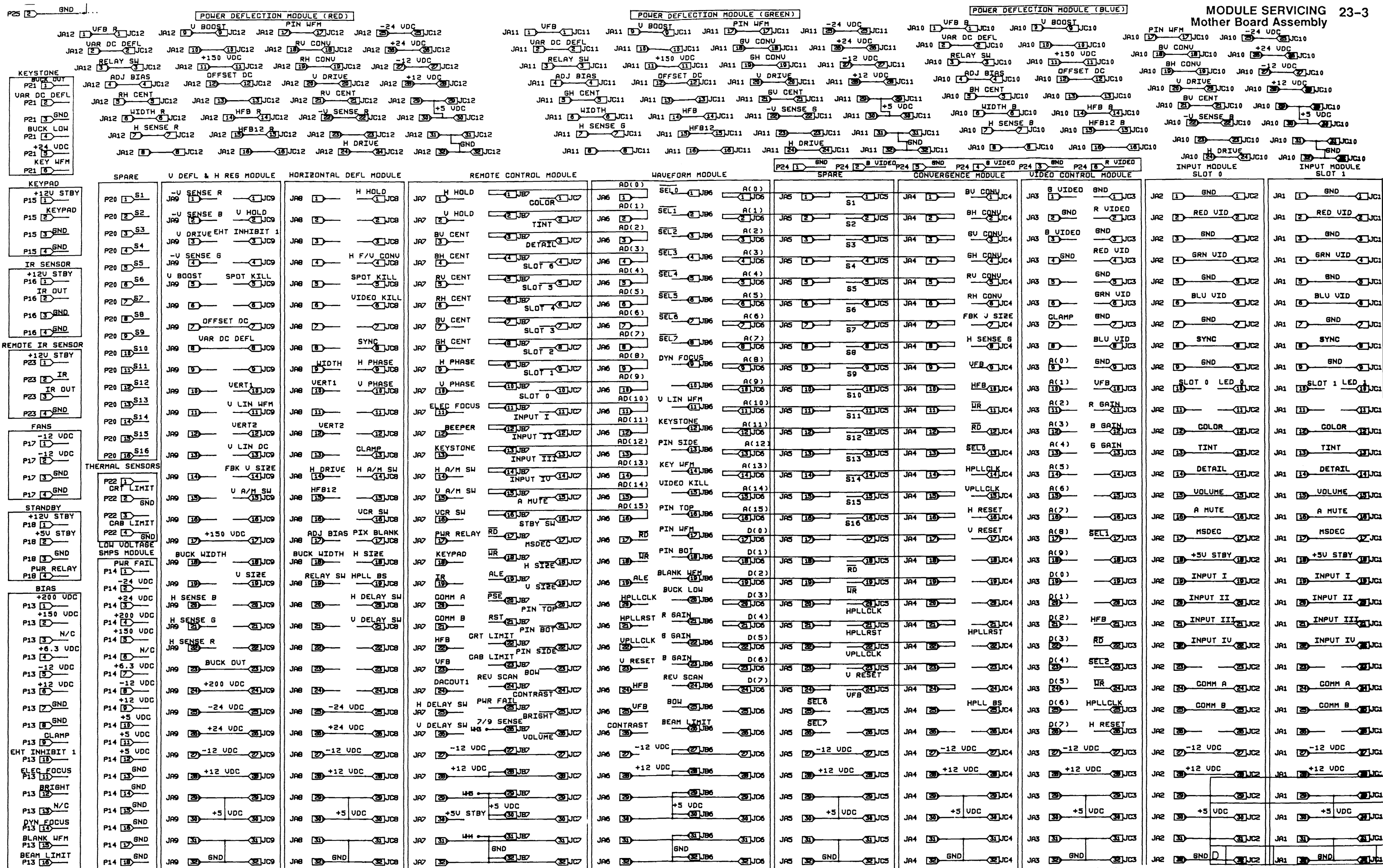


FIGURE 23-3.
Mother Board Schematic

24.4 PARTS LIST

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