

Marquee Power Supply Troubleshooting

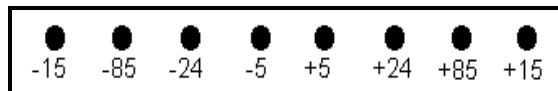
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Overview

Low Voltage Power Supply (LVPS) failures will cause the red LED on the rear of the Control Module to illuminate. There are instances when failure on other modules that short LVPS rails to ground will cause this LED to come on.

Looking at the front of an upright Madrigal Imaging Projector, below are the LED's on the LVPS.



If the LVPS LED located on the Control module is on and you hear a relay clicking on and off, there is a short on one of the voltage rails.

There will be one of the LVPS LEDs (above) flashing at the same rate as the relay.

Whichever LED is flashing is which rail has the short.

Refer to the Voltage table below to troubleshoot which module may have the short

When you see an LVPS LED on, power the projector off. Unload each of the identified modules below individually. Power the projector on. When the LED stops blinking, you have identified a failed module.

If you ever encounter all LEDs blinking at once, this may not be a short. On rare occasions, after shipping, the LVPS pin connection may have come loose. Simply unload and reseat the LVPS securely in the projector.

Note: The projector will operate in a limited fashion (that is with an image and high voltage) without the FOCUS, CONVERGENCE, STIGMATOR AMP, STIGMATOR WAVEFORM, and COLOR CORRECTION Modules. All boards in the projector can be pulled and the projector powered up, with the exception of the CONTROL BOARD, to find a short. The CONTROL BOARD has to be present for projector power up.

	-15	-85	-24	-5	+5	+24	+85	+15
CLM	X			X	X			X
VIM	X			X	X			X
Decoder	X				X			X
CMM	X				X			X
VNB	X	X		X	X		X	X
FCM	X		X		X	X		X
SAB	X							X
CVA	X		X			X		X
ACM	X				X			X
HDM	X				X	X	X	X
VDM	X			X	X			X
Input Module	X							X
Fans			X					
SWB	X			X	X			X
DPB	X			X	X			X

Module Part Numbers

<u>Module</u>	<u>Call Hi-Rez for Parts</u>
CLM = Control Module	P900226
FCM = Focus Geometry Module	P900229
HDM = Horizontal Deflection Module	P900228
VIM = Video Input Module	P900230
SAB = Stigmator Amp Module	P900248
VDM = Vertical Deflection Module	P900227
CMM = Color Correction Module	P900252
CVA = Convergence Amp Module	P900249
SWB = Stigmator Waveform Module	P900246
VNB = Video Neck Board	P900231 for MP8 / P900232 for MP9
ACM = ACON Control Module	P900251
DPB = Deflection Processor Module	P900225