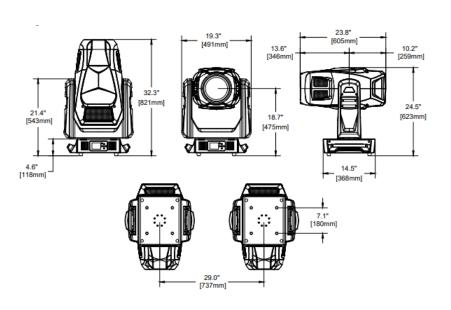


# HIGH END SYSTEMS

# SolaFrame 3000





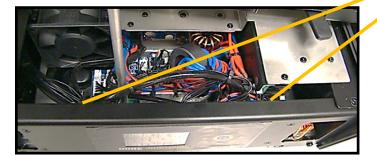
#### Accessing the Electronics



Remove 4X Philips head screws on each cover



Remove 4X Philips head screws on the front and rear panels

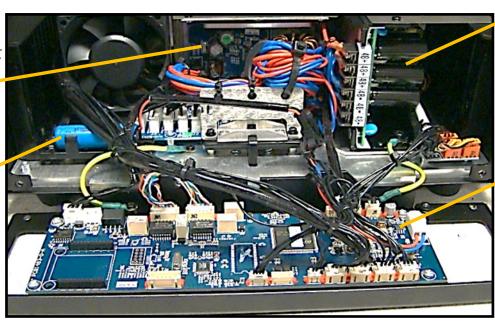


Remove 2X inner Philips head screws on front and rear panels behind the Display Assembly

#### <u>Front Panel Components</u>

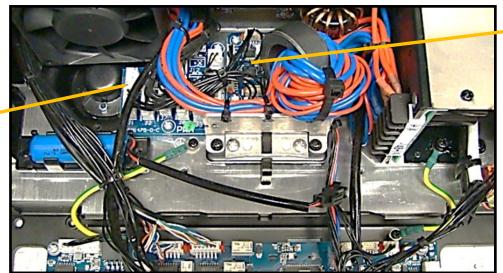
<u>Power Supply Converter</u> <u>(48VDC to 28VDC</u>

Display Battery



Power Supply (48VDC Output)

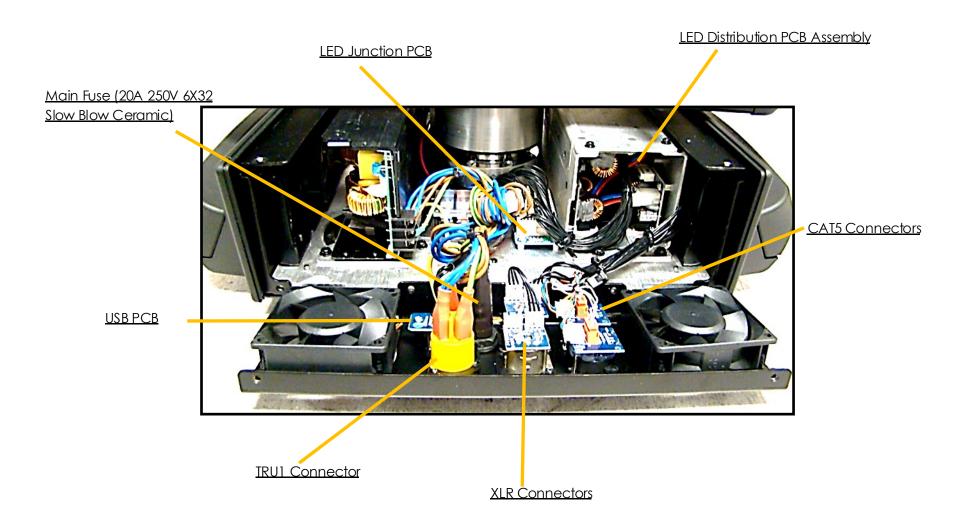
Display PCB



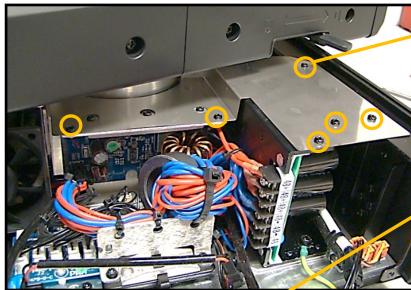
LED Control PCB

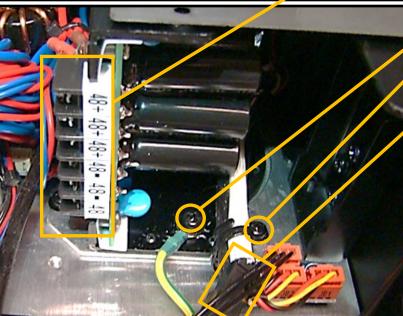
LED Distribution PWM

#### Rear Panel Components



#### Removing the Power Supply





Remove 8X (2 not pictured) to remove the metal cover

Loosen screws and remove output wires

#### DC Wiring:

Blue is -

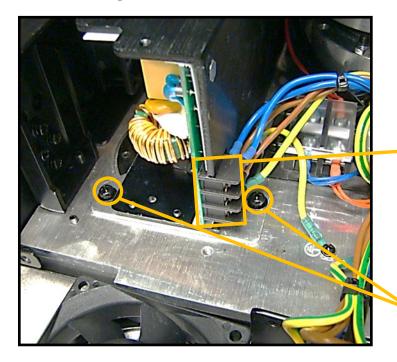
Red is +

Remove 1X ground wire screw

Remove 1X mounting screw

Disconnect thermal sensor

### Removing the Power Supply



Loosen screws and remove input wires,

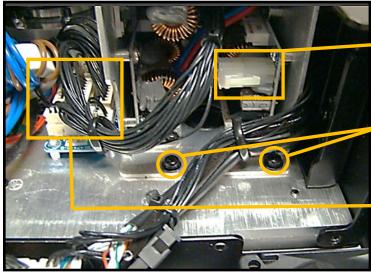
be sure to note locations of each wire

Remove 2X Philips head screws



Power Supply is now free to be removed

#### Removing the LED Distribution Assembly



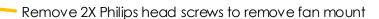


Unseat power connector

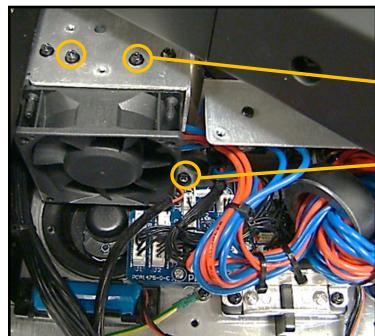
Remove 2X Philips head screws

Unseat 5X connectors from junction PCB

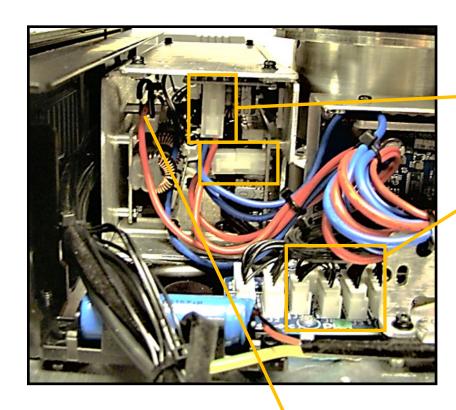




Remove 1X Philips head screw



#### Removing the LED Distribution Assembly



Unseat 2X power connectors

Disconnect 3X junction PCB wires

Carefully feed rear power connector through front

Remove assembly by lifting and pulling towards the rear panel

#### Accessing the Yoke Components



Remove 2X yoke arm cover screws, 2 on each side



Tilt Homing Sensor

Pan/Tilt PCB 2U

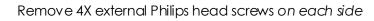
Pan Motor

Pan Encoder Sensor

#### Accessing the Yoke Components

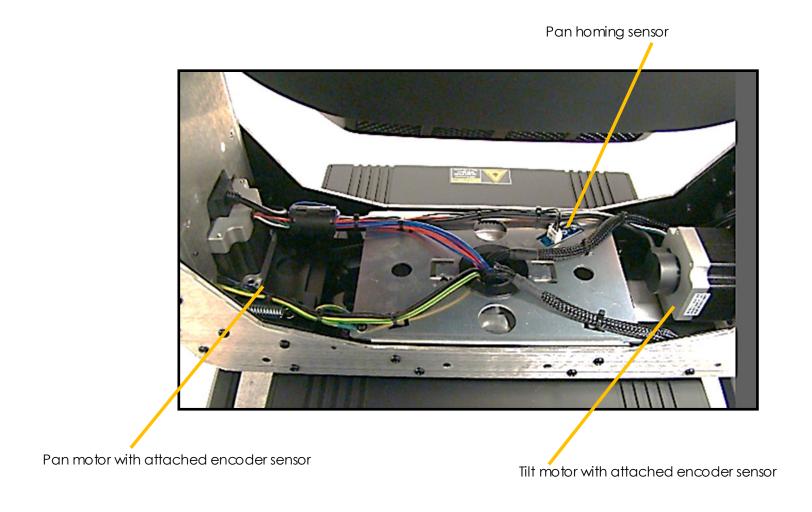


Remove 4X internal Philips head screws on each side





#### Accessing the Yoke Components

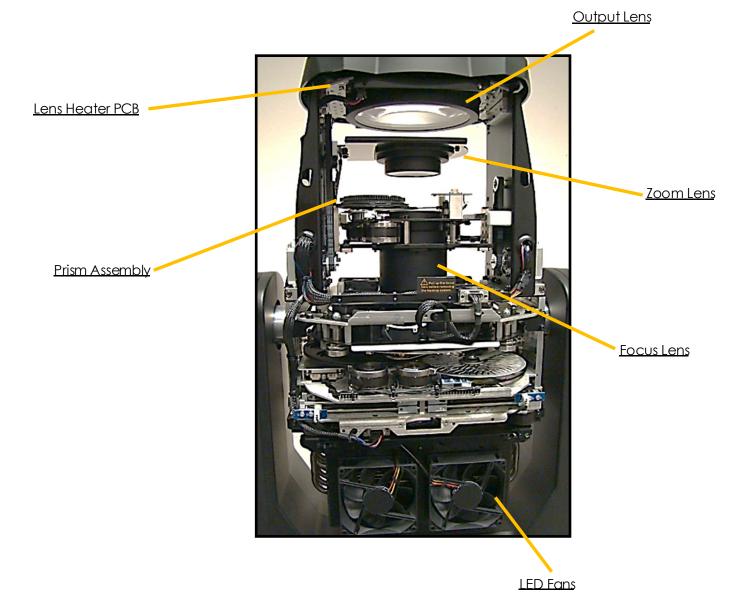


#### **Accessing Head Components**

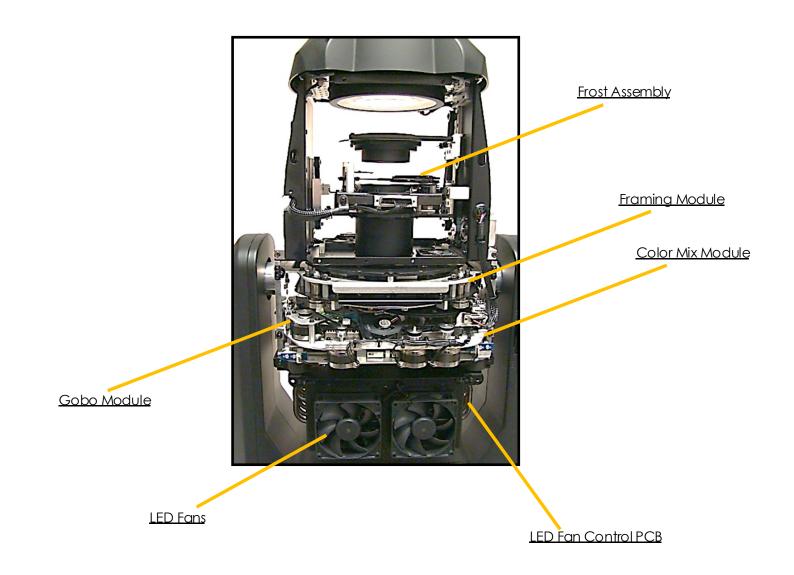


Loosen 2X captive 1/4 turn screws on each side Unhook safety cable on each head cover

#### **Head Components**

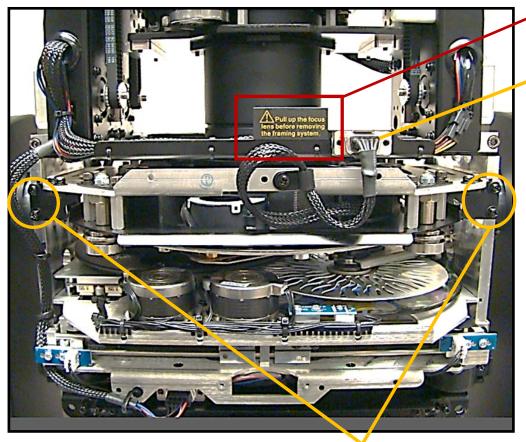


#### **Head Components**



#### Removing Framing Module

<u>Pull up the focus lens or till the head</u> <u>forward before removing the framing</u> <u>module</u>

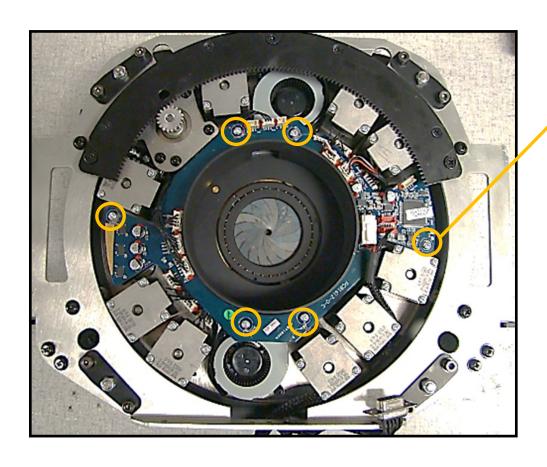


Unseat module harness connector

Remove 4X Philips head screws

Carefully pull module out

#### Access Framing PCBs



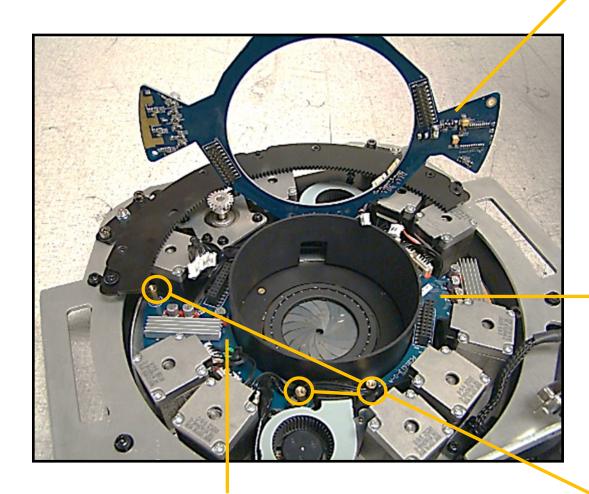
Unseat all PCB connectors

Remove 6X Philips head screws

Carefully pull up on PCB

Access Framing PCBs

PCB 6U: Framing Module/Blades 2A & 3B



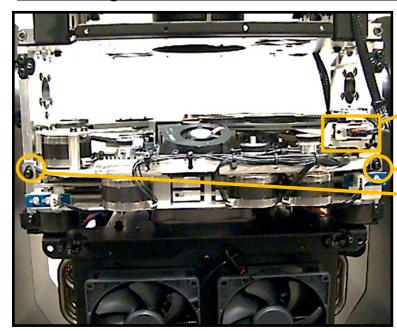
PCB 6U: Framing Module/Blades 1A, 3A, 4A

PCB 6U: Framing Module/Blades 1B, 2B, 4B

Remove 6X brass standoffs using 5mm nut driver

Carefully pull up on PCB

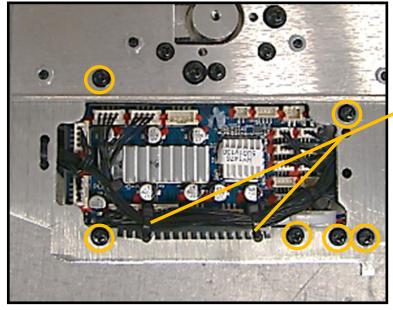
#### Removing Gobo Module/Gobo Module PCB



Remove module harness connector

Remove 2X Philips head screws

Carefully pull out module



Carefully cut 2X wire ties

Remove 6X Philips head screws

PCB mount is now free to access
Unplug wire connections

#### Gobo Replacement



To remove both the static and rotating gobos from the wheel, removing the module is not required

Simply push from the top or bottom (whichever way pushes the holder out of its wheel position)

And slide the holder out towards you



Seashell gobo holder contains the homing magnet and must remain in the same location in the rotating gobo wheel

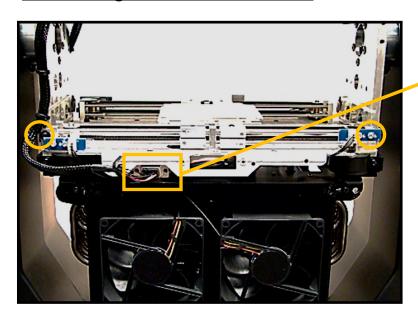






Each gobo is held in by a retaining spring, remove this and be sure to install the gobo with the coated (black side) **away** from the LED source

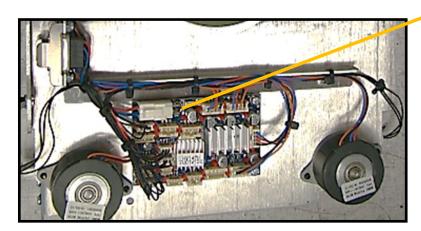
#### Removing Color Mix Module



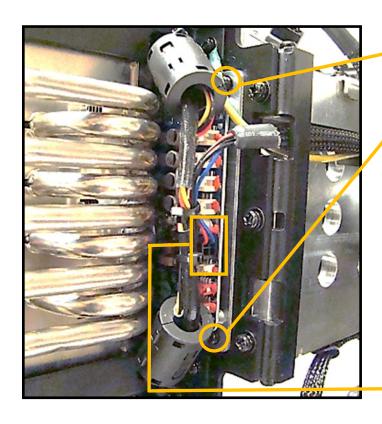
Remove module harness connector Remove 2X Philips head screws



Color mix PCB 7U is on the bottom of the module



#### Removing LED Light Engine

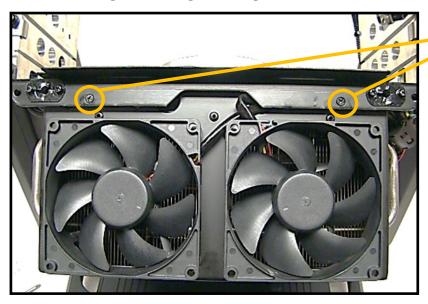


Remove 4X Philips screws, 2 on each side

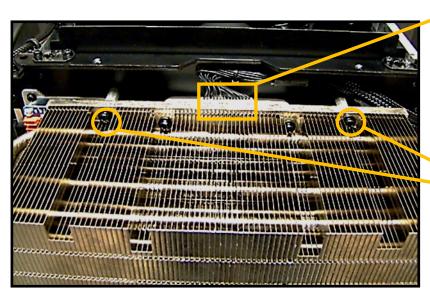
Carefully cut 2Xwire ties

Disconnect fan wires from PCB

#### Removing LED Light Engine



Remove 4X Philips screws, 2 on each side

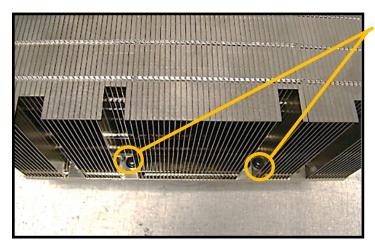


Disconnect LED wire harness, 1 on each side

Remove 4X Philips screws, 2 on each side

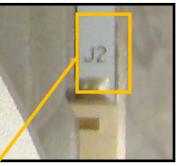
Be sure to support heatsink during this process

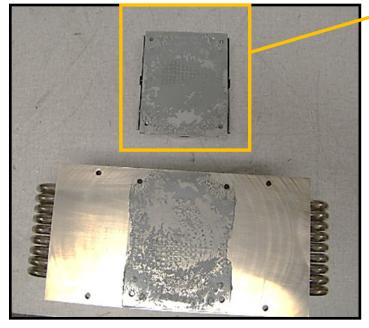
#### Removing LED Light Engine



Remove 4X Philips screws, 2 on each side

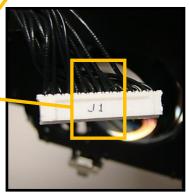
LED Light Engine is now free





Add heatsink compound to the new LED Light Engine

NOTE: connection labels at the engine and on the hamess connector, if plugged in backwards it could damage the engine



#### **PCB** Identifiers

PCB Software ID	Controls
10	Display
2U	Pan, Tilt
3U	LED Control
<b>4</b> U	Focus, Prism, Zoom, Frost
<b>5</b> U	Animation, Animation Rotation, Gobo 1, Gobo 1 Rotate, Gobo 2, Color Wheel
6U	Framing Rotate, Framing Blades, Iris
<b>7</b> U	Color Mix
8U	LED Fan Control