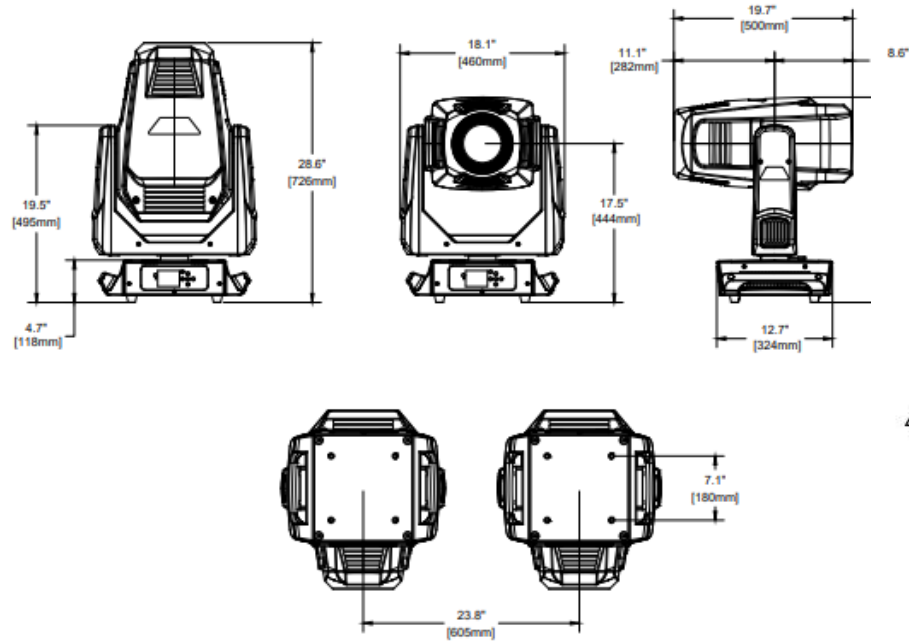




# HIGH END SYSTEMS

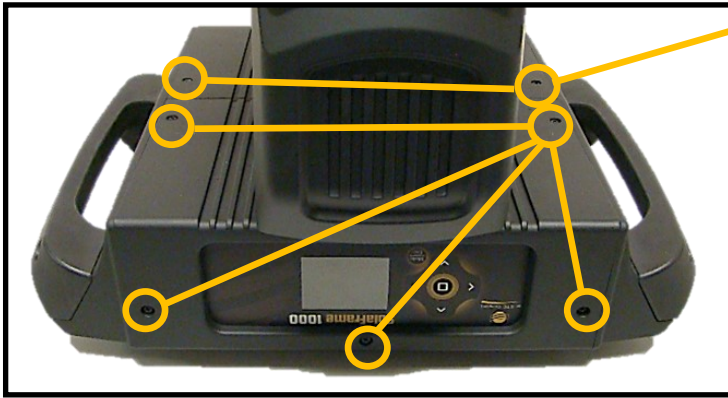


## SolaFrame 1000



# SolaFrame 1000

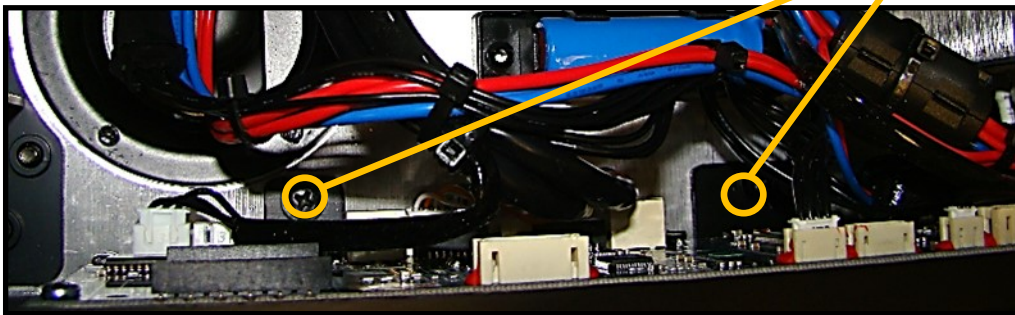
## Accessing the Electronics



Remove 5X Philips head screws on each cover



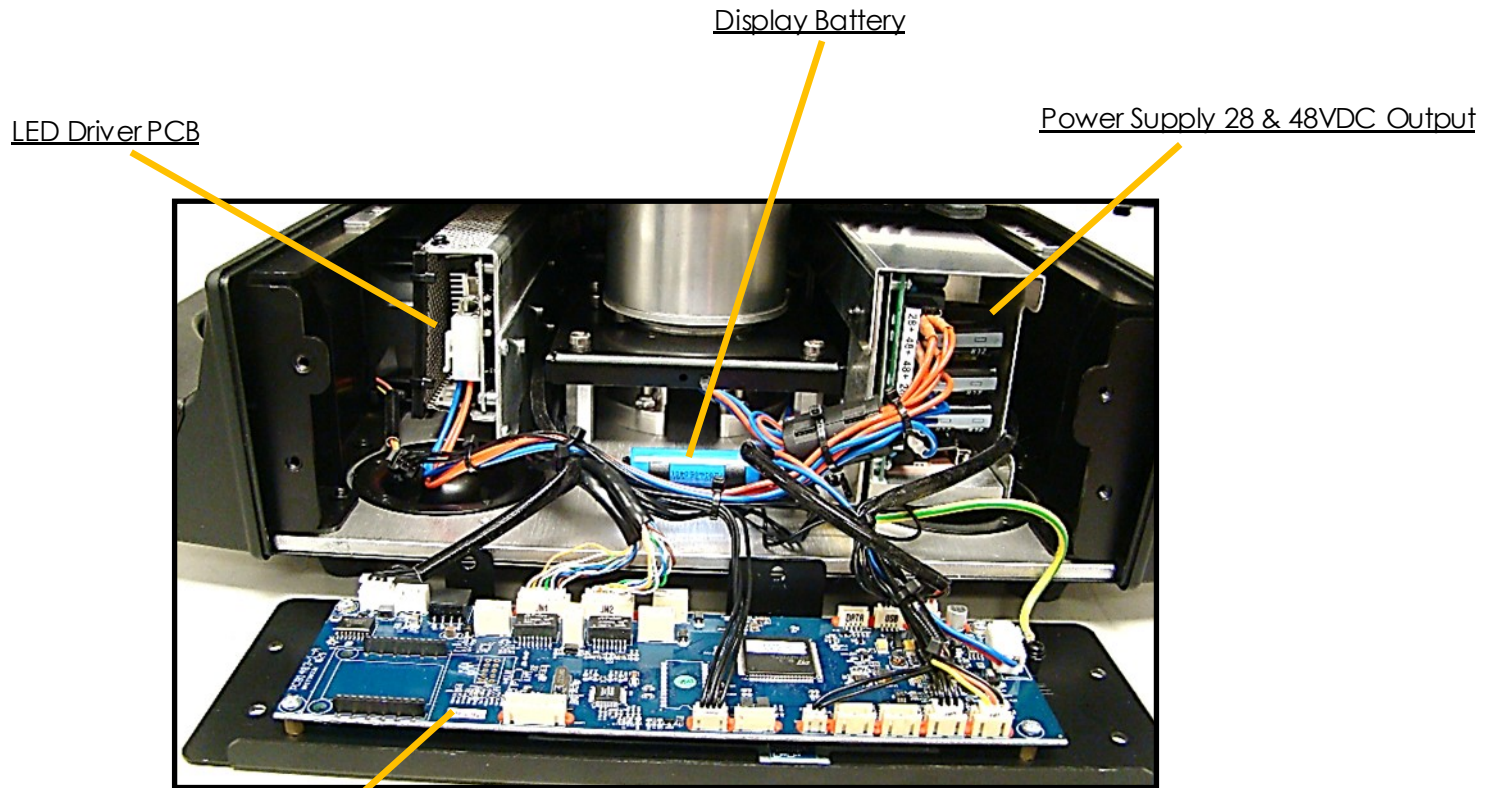
Remove 2X Philips head screws on the front and rear panels



Remove 2X inner Philips head screws inside of the front and rear panels on the base

# SolaFrame 1000

## Front Panel Components



LED Driver PCB

Display Battery

Power Supply 28 & 48VDC Output

PCB 1U: Display

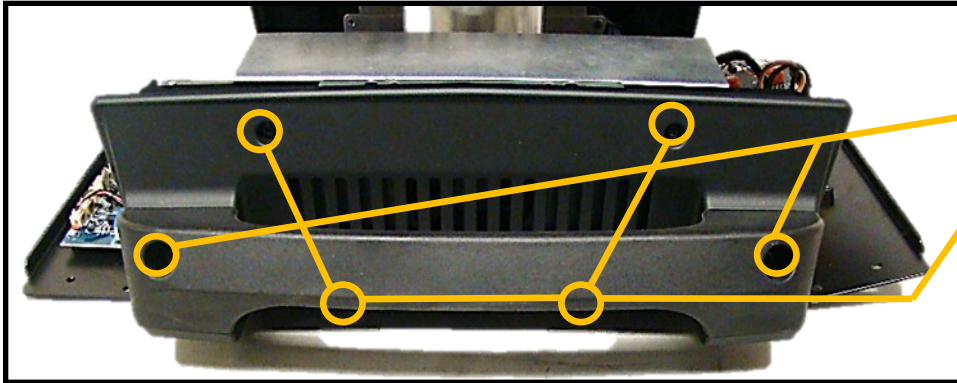
### **DC Wiring:**

Blue is -

Red is +

# SolaFrame 1000

## Removing the Power Supply

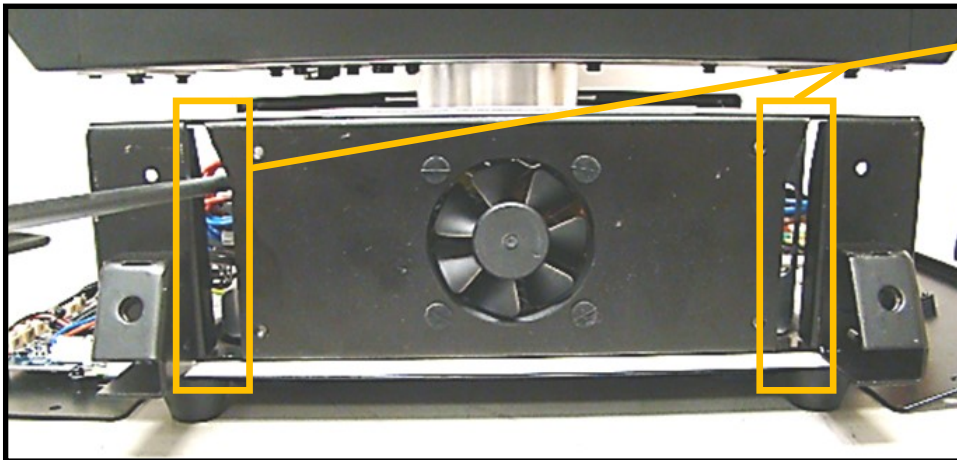


Remove 2X handle screws using a 6mm Hex tool

Remove 4X Philips head screws on the side panel

**Note the locations of 2X +28V**

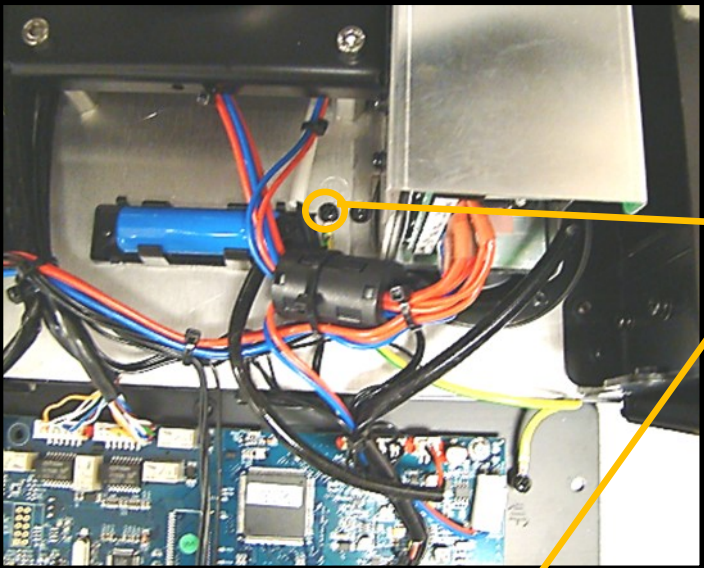
**And 3X +48V red wires**



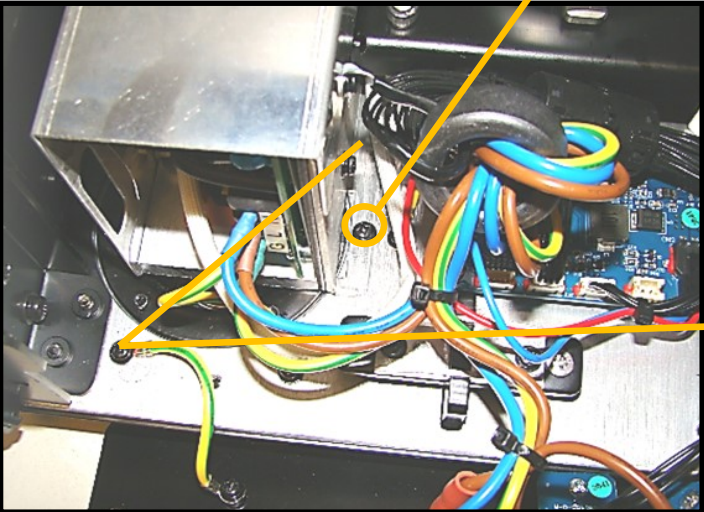
Loosen wire connections through access holes

# SolaFrame 1000

## Removing the Power Supply



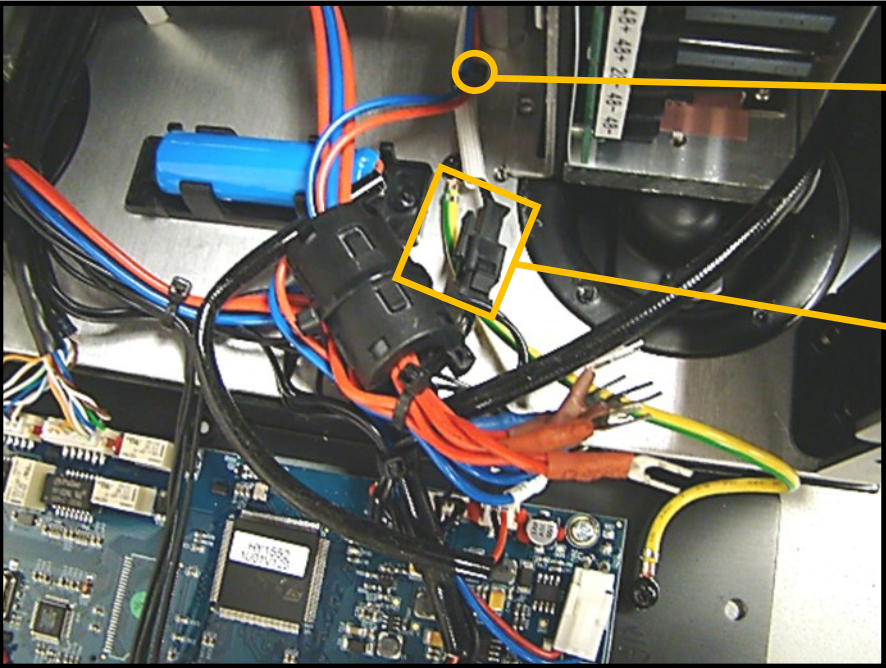
Remove 2X mounting screws



Remove wiring from strain relief

# SolaFrame 1000

## Removing the Power Supply



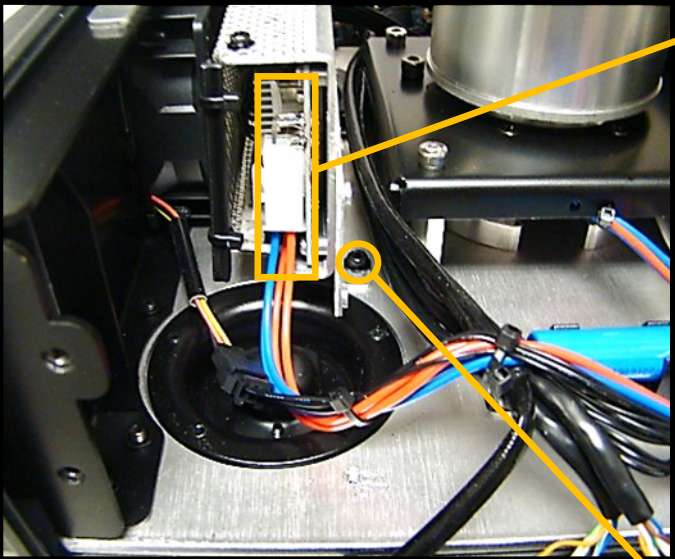
Remove tie wrap

Disconnect PSU temperature sensor harness

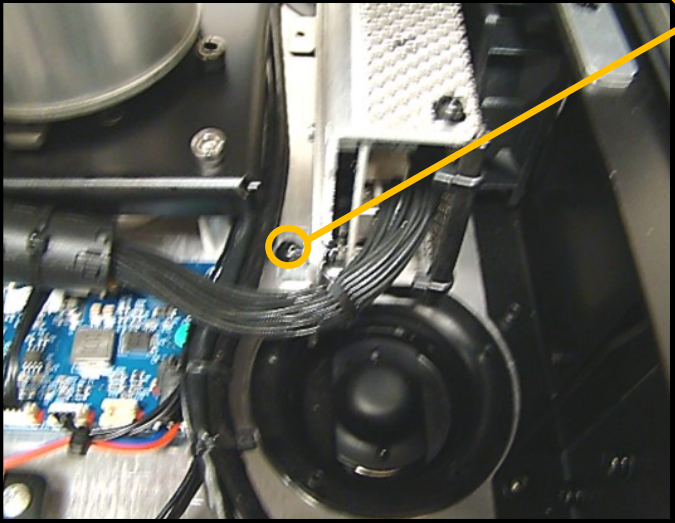
The Power Supply is now free to remove  
Install new Power Supply through rear

# SolaFrame 1000

## Removing the LED Distribution PCB



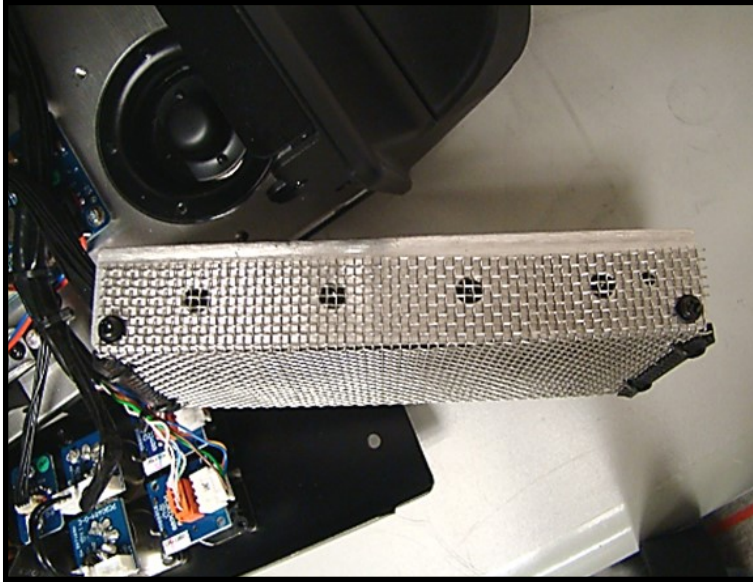
Remove power connection



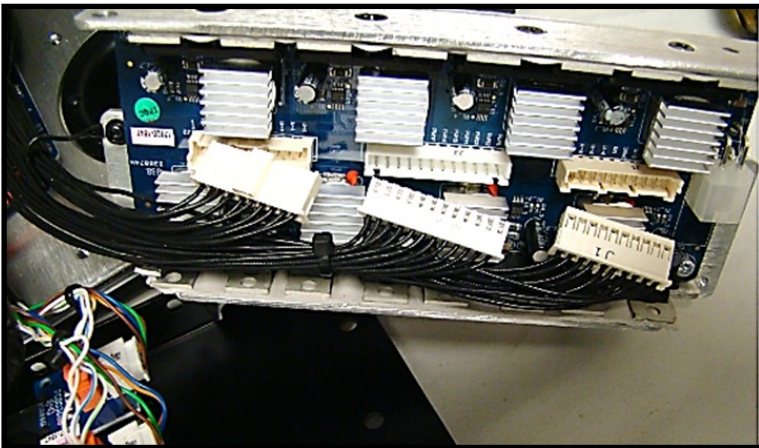
Remove 2X mounting screws

# SolaFrame 1000

## Remove LED Distribution PCB



Pull out to access and remove screen cover screws

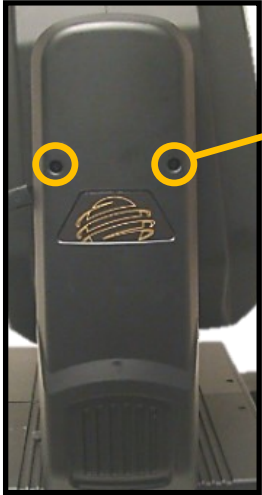


Disconnect Harnesses

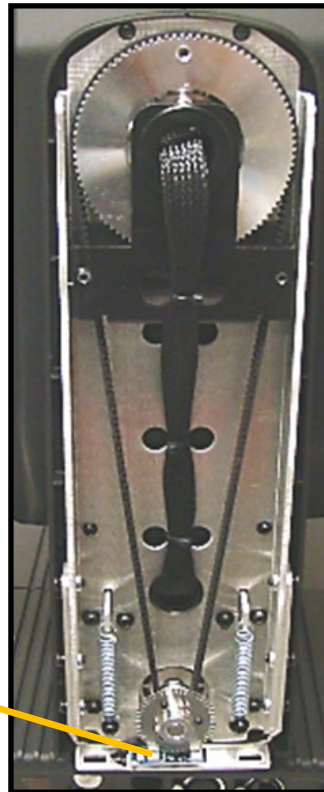


# SolaFrame 1000

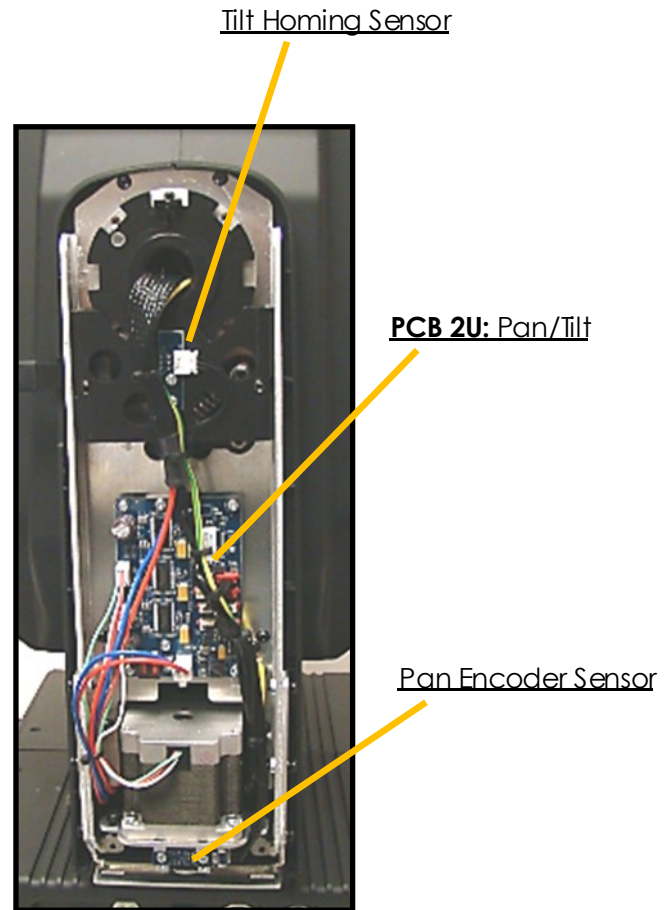
## Access Yoke Components



Loosen 2X Philips semi-captive screws on each yoke arm cover to remove



Tilt Encoder Sensor



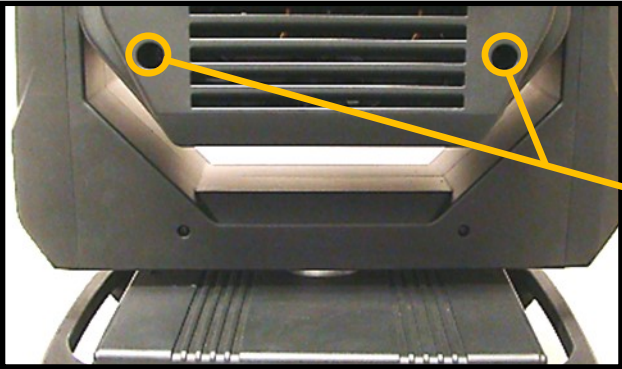
Tilt Homing Sensor

PCB 2U: Pan/Tilt

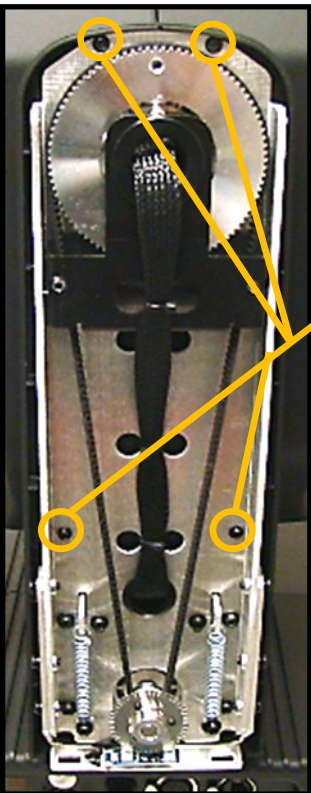
Pan Encoder Sensor

# SolaFrame 1000

## Accessing the Pan Homing Sensor



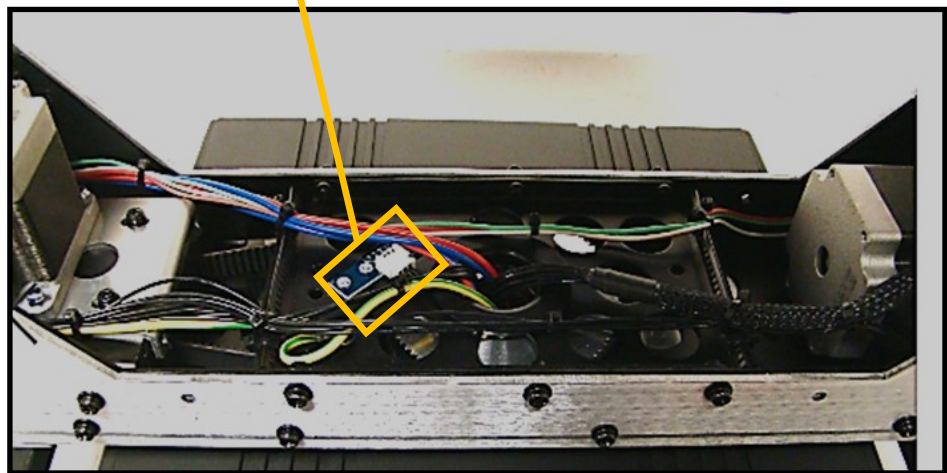
Loosen 2X 1/4 turn captive screws on each head cover, remove cover and disconnect safety cable



Remove 4X inner yoke cover screws on both yoke arms



Loosen 2X Philips screws on each yoke cover, remove covers



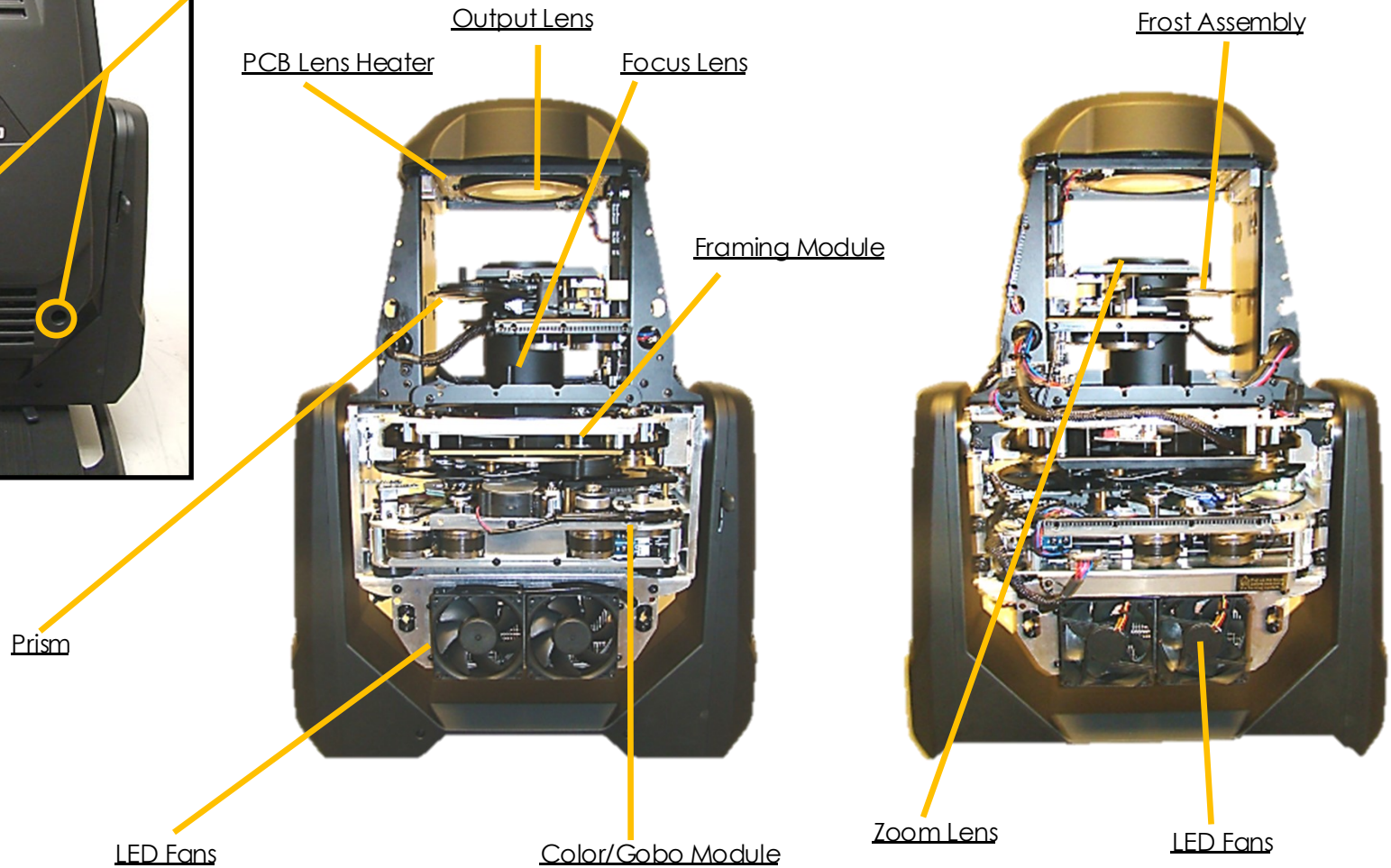
Pan Homing Sensor

# SolaFrame 1000

## The Head Components

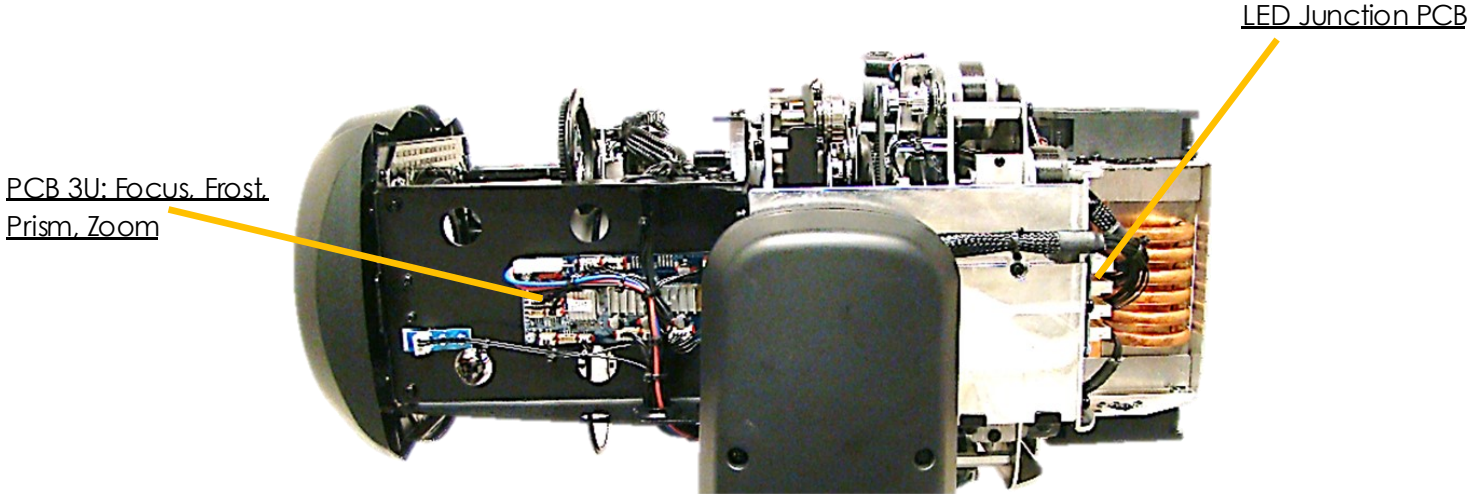
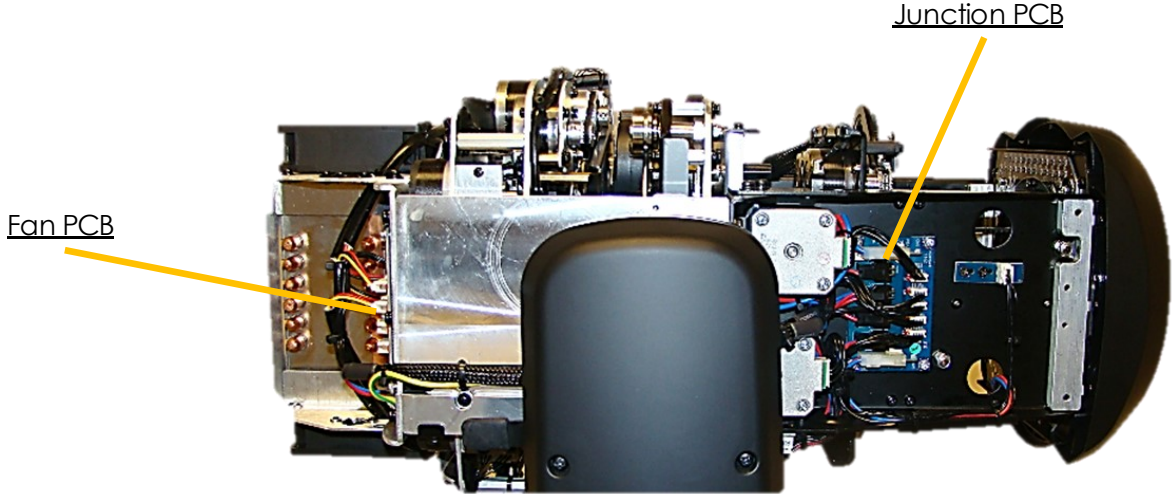


Loosen 2X 1/4 captive screws per head cover, remove safety cable



# SolaFrame 1000

## The Head Components



# SolaFrame 1000

## Accessing the Electronics



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



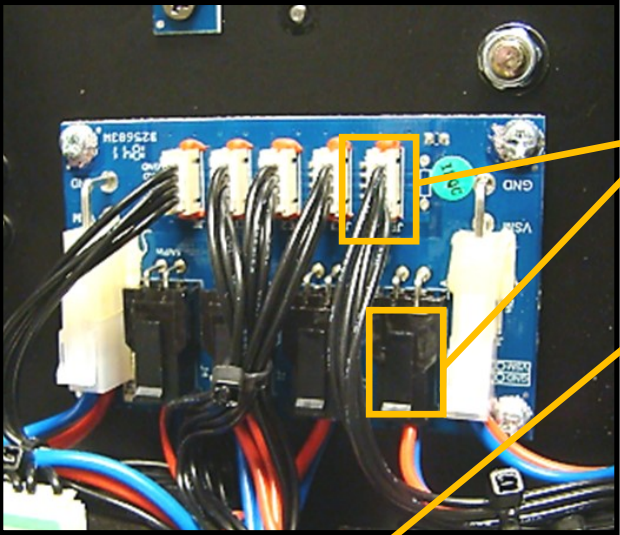
Each gobo is held in by a retaining spring, remove this and be sure to install the gobo with the coated (black side) **away** from the LED source



**Cracked** gobo holder contains the homing magnet and must remain in the same position in order to home properly.

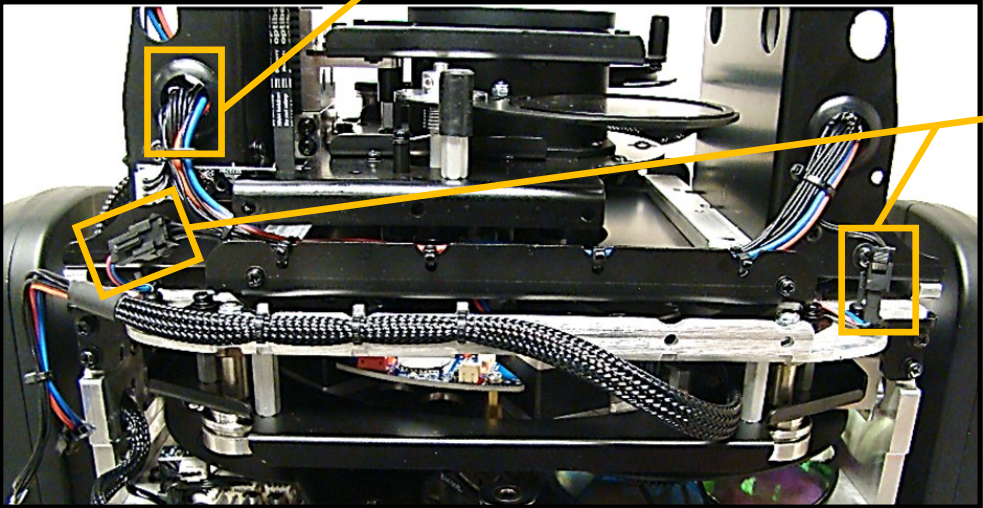
# SolaFrame 1000

## Removing the Framing Module



Disconnect 2X harnesses from junction PCB

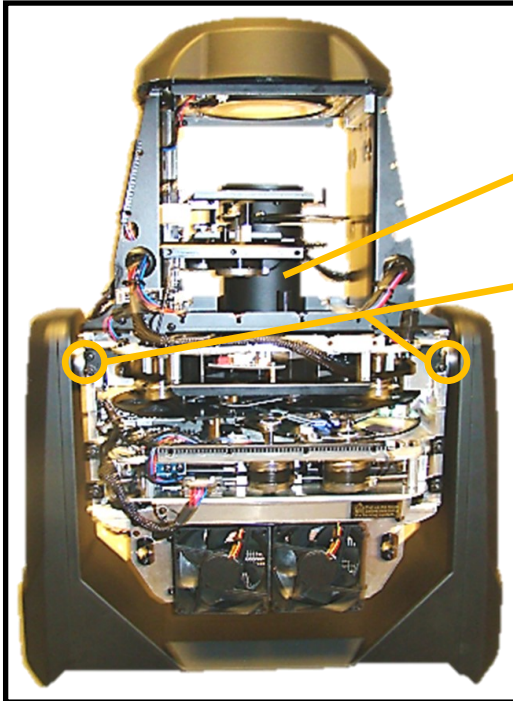
Push harnesses through grommet



Disconnect 2X wire harnesses

# SolaFrame 1000

## Removing the Framing Module



Lock the fixture head horizontally

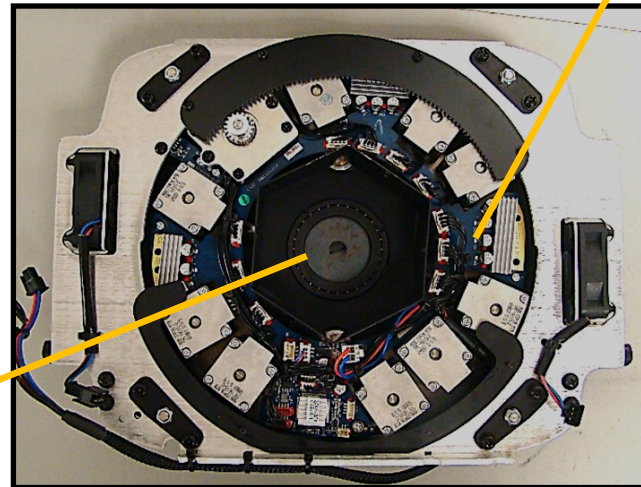
Push the focus/zoom assembly forward to allow the framing module to be removed

Remove 4X Philips head screws, 2 on each side

Carefully pull out module

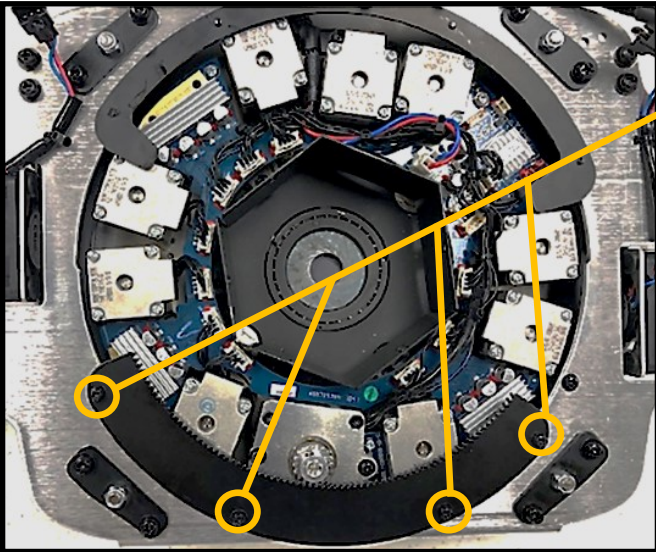
PCB 4U: Framing, Framing Rotate, Iris

Iris

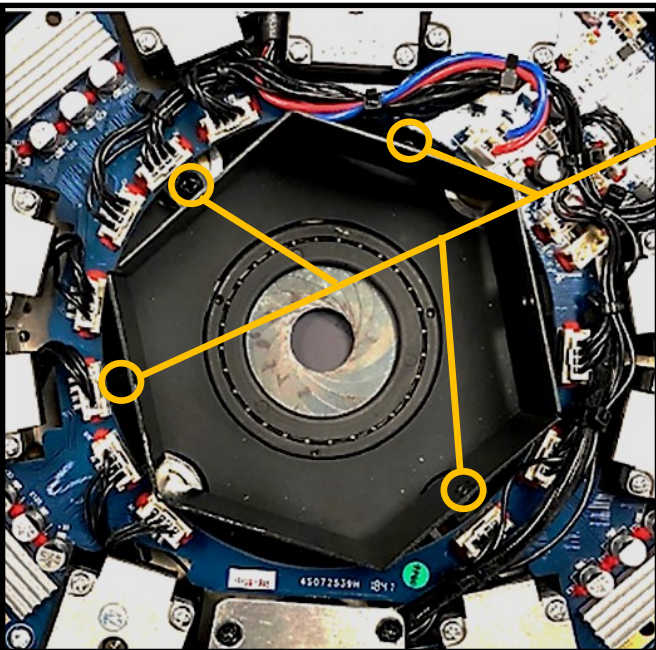


# SolaFrame 1000

## Removing the Framing Module PCB



Remove 4X Philips screws from rotating gear plate

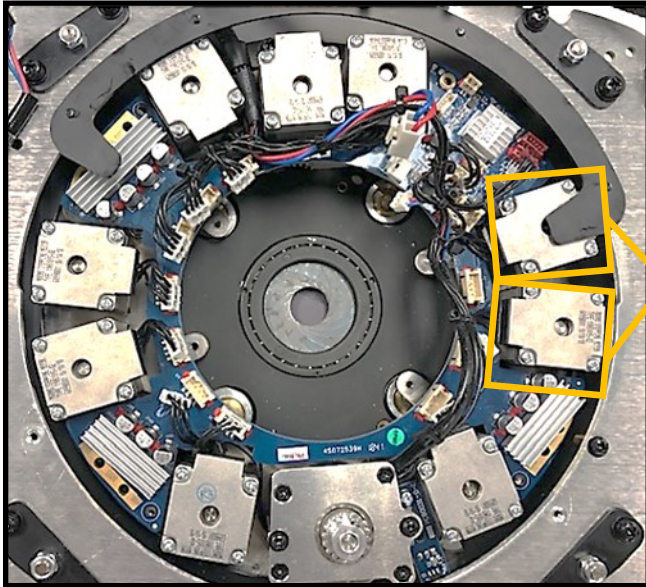


Remove 2 light blocks, 2X Philips head screws each



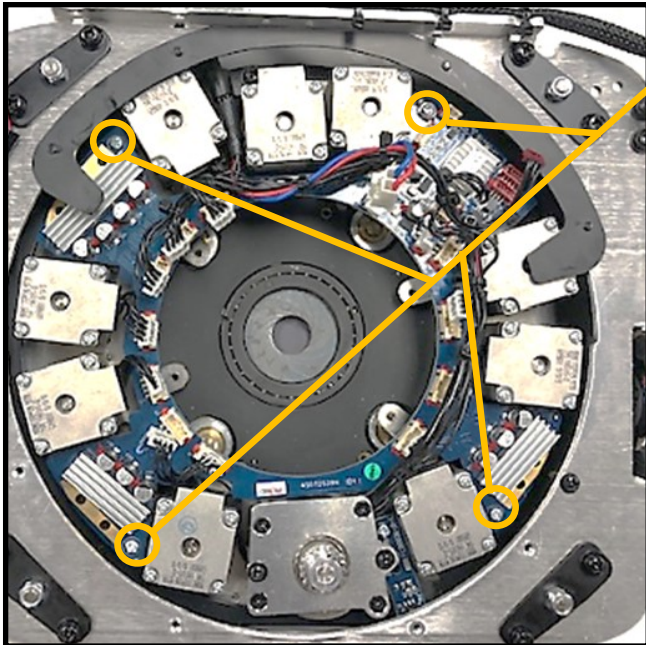
# SolaFrame 1000

## Removing the Framing Module PCB



Disconnect all harness connections

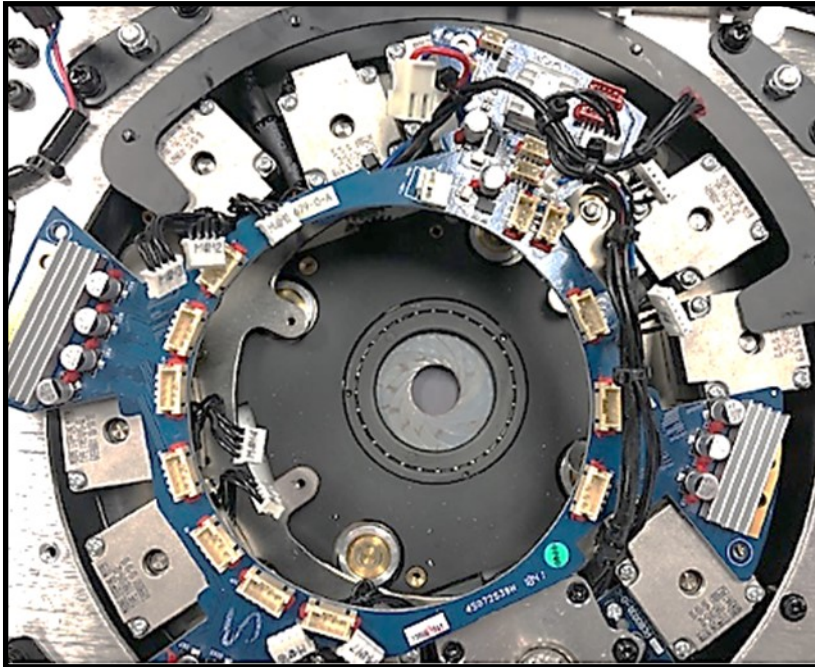
Disconnect these 2X motors



Remove 4X Philips head PCB mounting screws

# SolaFrame 1000

## Removing the Framing Module PCB



The PCB is now free

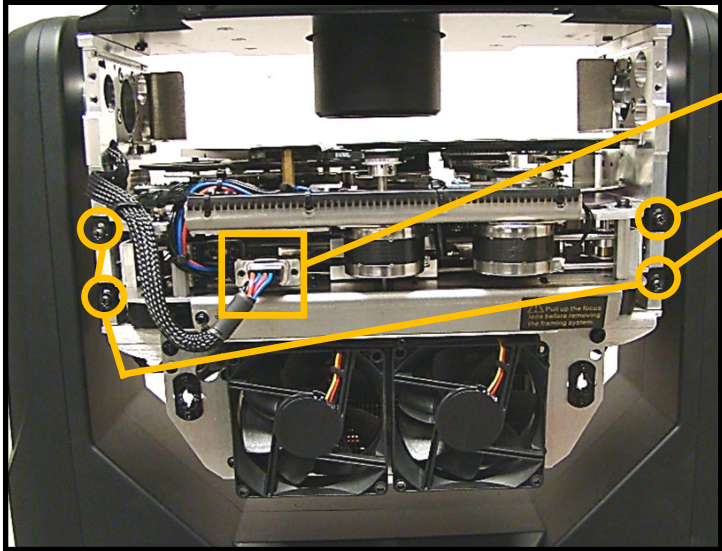
Pull out carefully away from the disconnected motors

The harnesses will need to be moved under and over the PCB as it is removed

*Install new PCB in the reverse order*

# SolaFrame 1000

## Removing the Gobo/Color Module



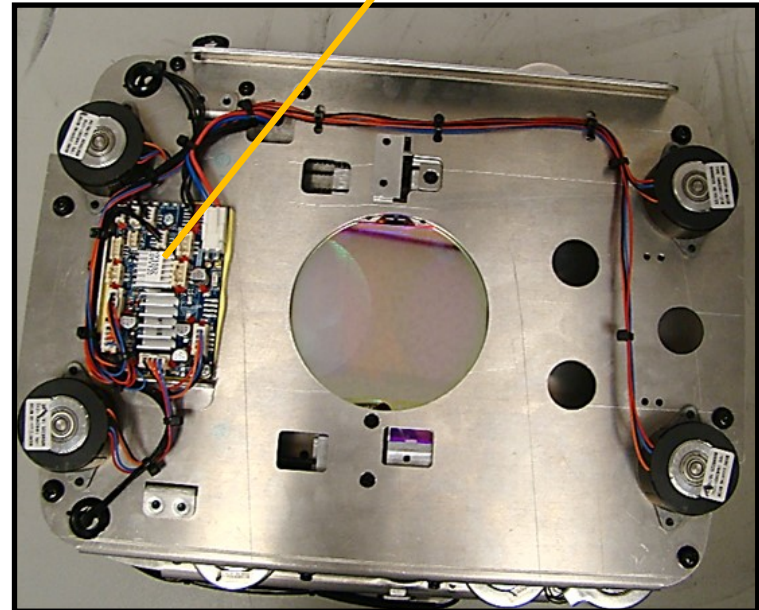
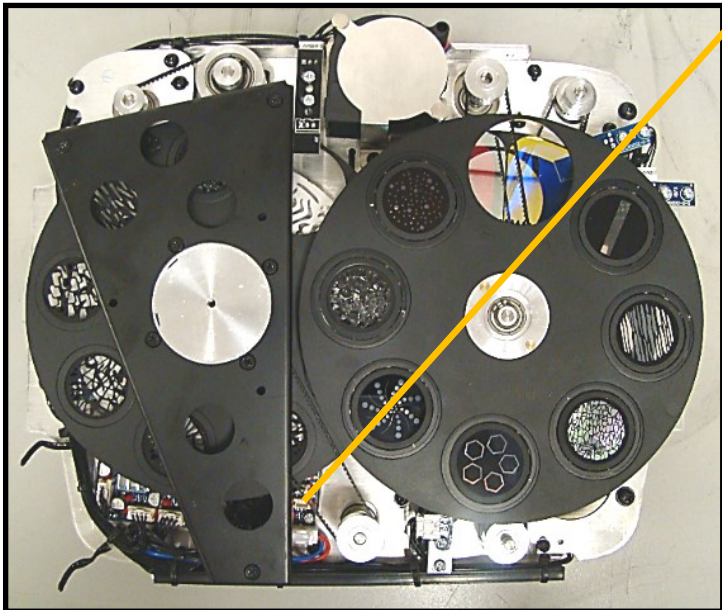
Disconnect harness and strain relief

Loosen 4X module clips

Carefully remove module

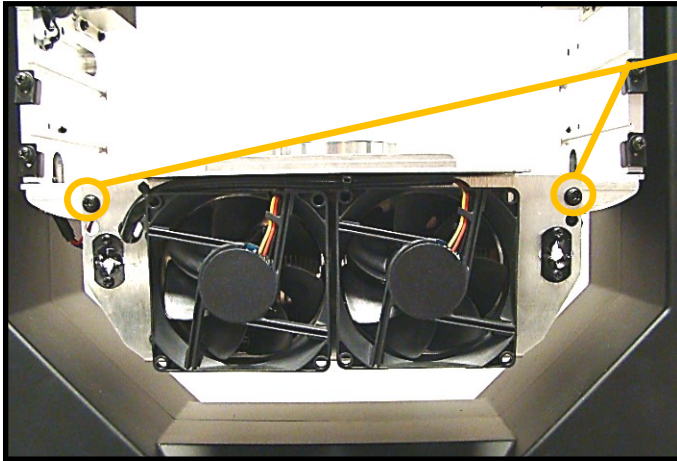
PCB 6U: Gobo, Animation, Color Wheel

PCB 5U: Color Mix



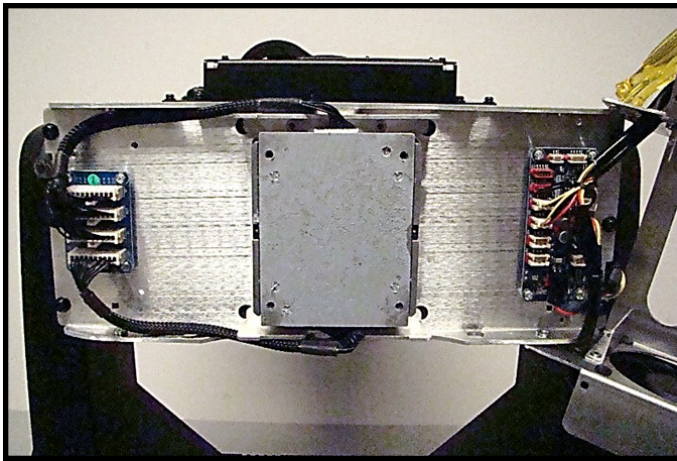
# SolaFrame 1000

## Removing the LED Light Engine



Remove 4X Philips head screws, 2 on each side to remove fan plate

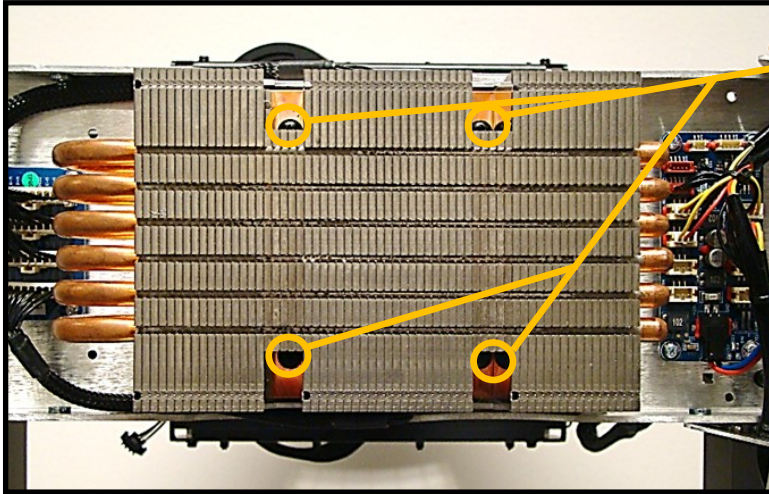
Hang fan assembly off to the side



Use small tool through mounting hole

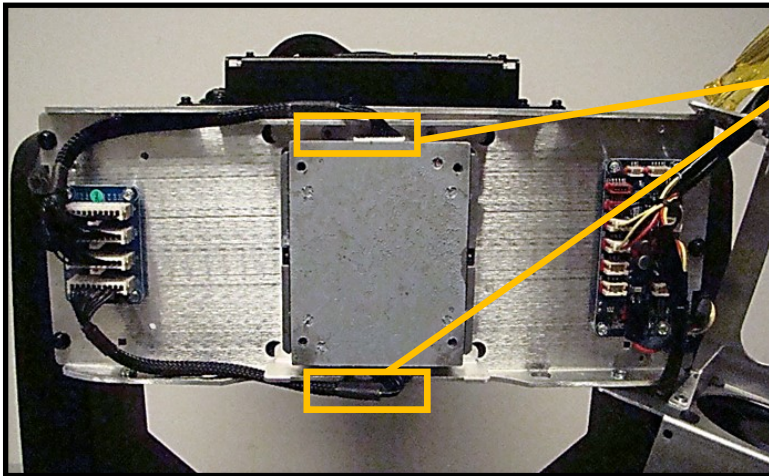
# SolaFrame 1000

## Removing the LED Light Engine



Remove 4X Philips screw heads to remove heatsink  
*Be sure to keep this part supported when removing screws*

Watch out for the heatsink compound on the bottom of the LED Light Engine and heatsink



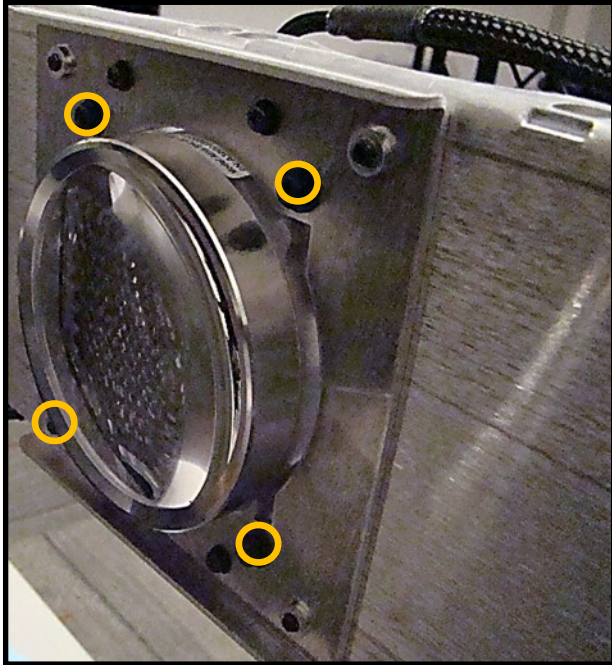
Remove the LED wire harnesses

**Be sure and note labels J1 & J2 on both the connector and LED Light Engine**

**If plugged in incorrectly, this can damage the new engine**

# SolaFrame 1000

## Removing the LED Light Engine



Remove 4X Philips screws from the LED Light Engine

Engine is now free

Apply fresh heatsink compound to the new LED Light Engine

**Reminder: Ensure that J1 & J2 are plugged into the correct location**

**Watch out for heatsink compound**

# SolaFrame 1000

## PCB Identifiers

| PCB Software ID | Controls                                |
|-----------------|---|
| 1U              | Display                                 |
| 2U              | Pan, Tilt                               |
| 3U              | Focus, Frost, Zoom, Prism, Prism Rotate |
| 4U              | Framing, Framing rotate, Iris           |
| 5U              | Color Mix                               |
| 6U              | Gobos, Animation, Color Wheel           |
| 7U              | LED Dimmer Control                      |
| 8U              | Fan Control                             |