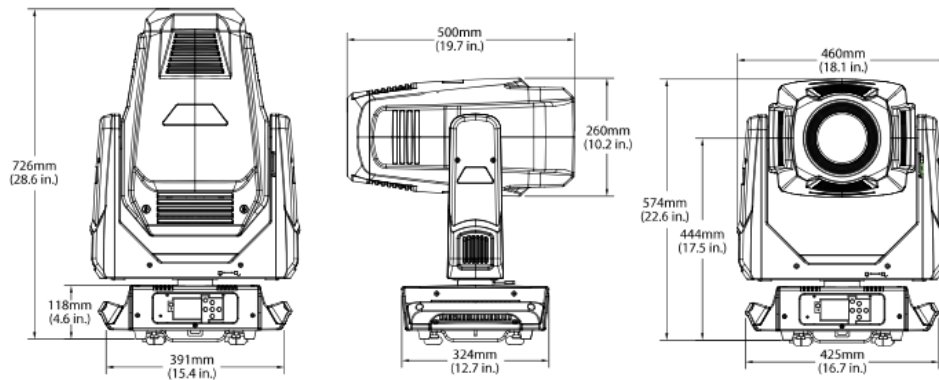




# HIGH END SYSTEMS

## SolaSpot 1000

Fixture Dimensions



# SolaSpot 1000

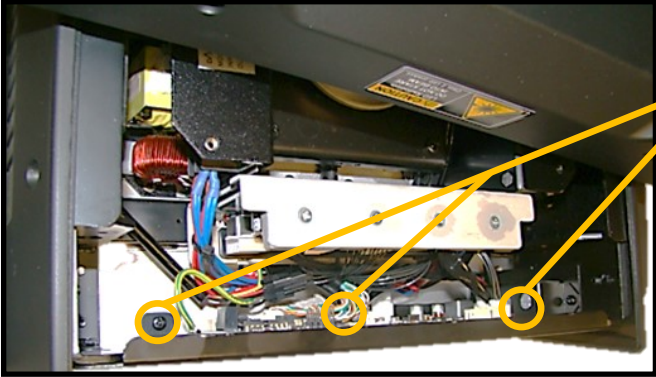
## Accessing the Electronics



Remove 5X Philips head screws on each cover



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



Remove 3X inner Philips head screws

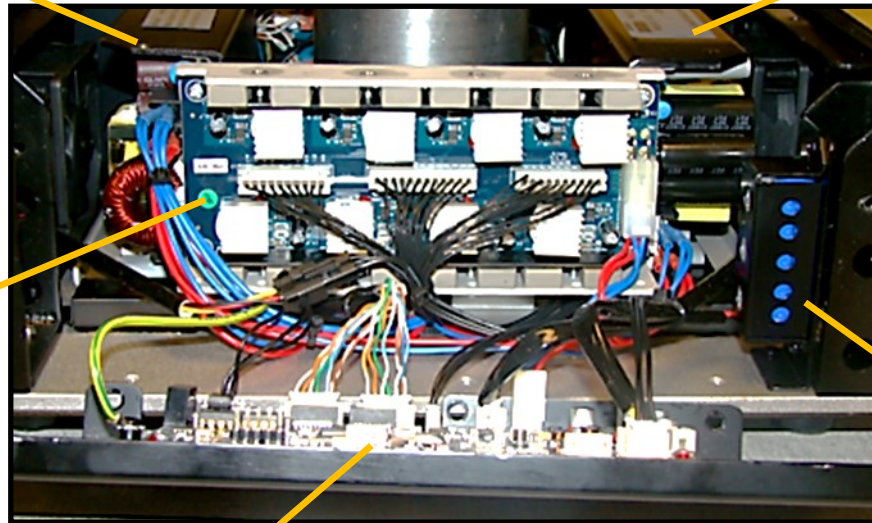
# SolaSpot 1000

## Front Panel Components

Motor Power Supply (28VDC Output)

LED Power Supply (52VDC Output)

LED Distribution PCB



Display Battery

Display PCB 1U

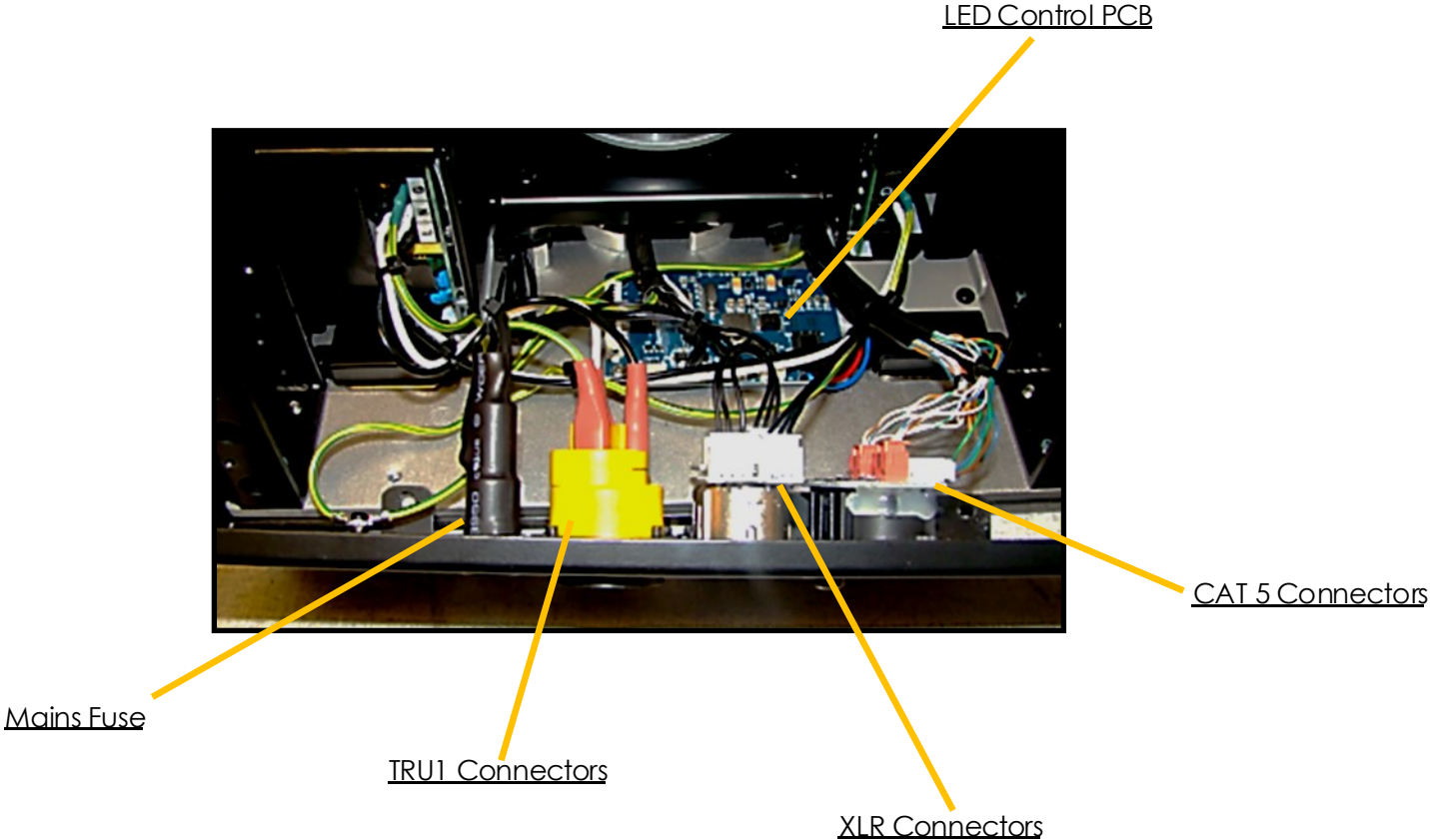
### **DC Wiring:**

Blue is -

Red is +

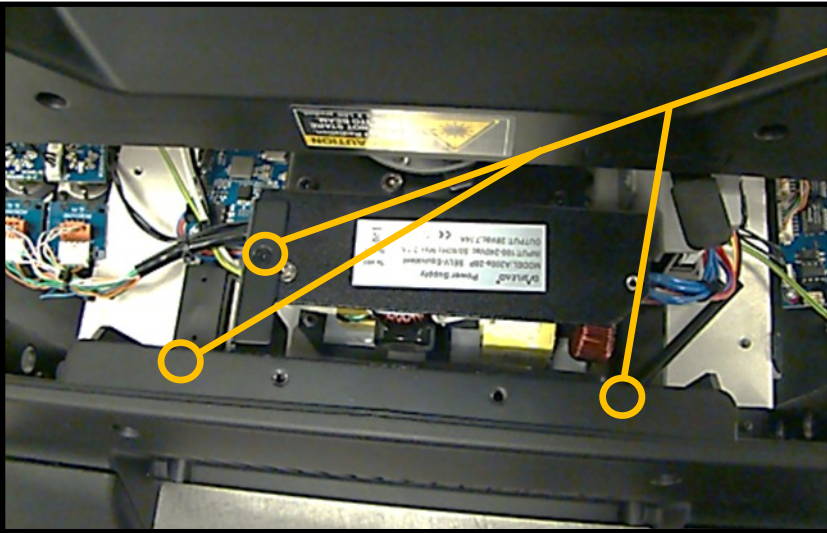
# SolaSpot 1000

## Rear Panel Components

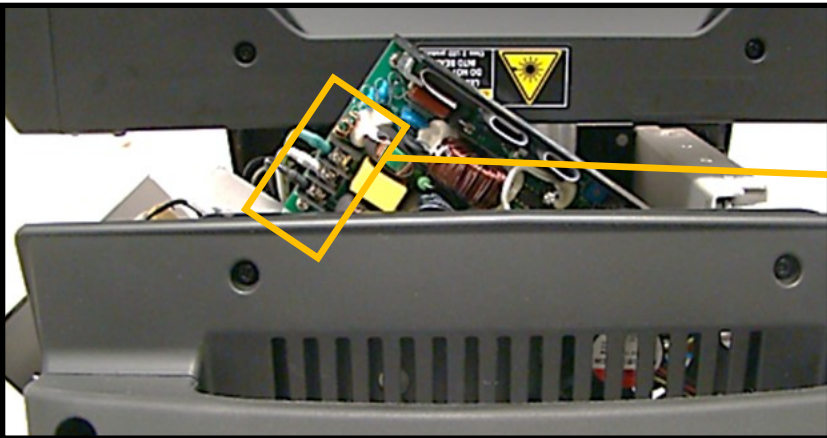


# SolaSpot 1000

## Removing the Motor Power Supply



Remove 3X mounting screws using a magnetized Philips head, 2 in base are *hidden*



Lift up Power Supply to access AC input wires

Loosen screws and disconnect wires

**Green:** Ground

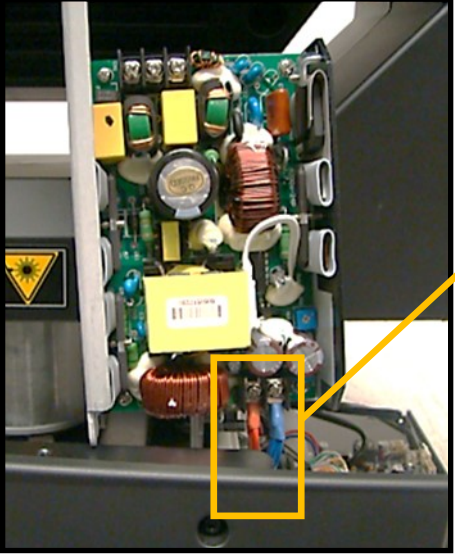
**White:** Neutral

**Black:** Live

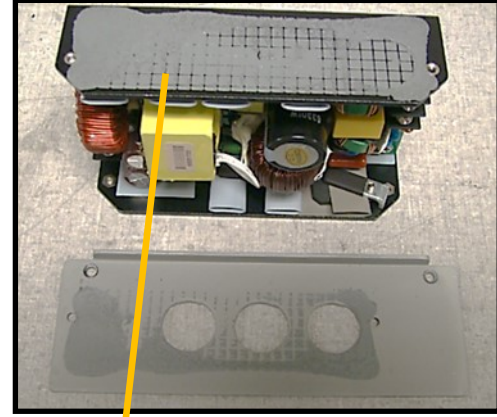


# SolaSpot 1000

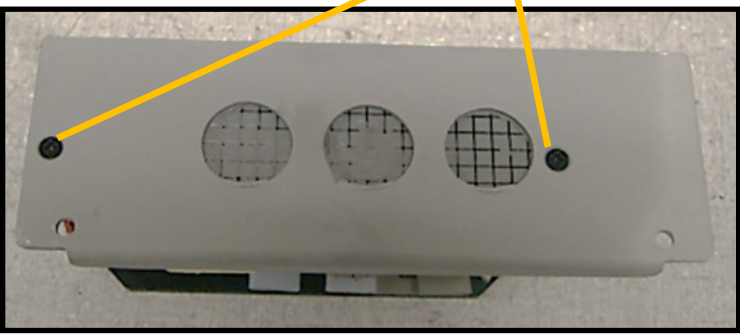
## Removing the Motor Power Supply



Lift up Power Supply to access the output wires  
Loosen 2X screws and disconnect output wires



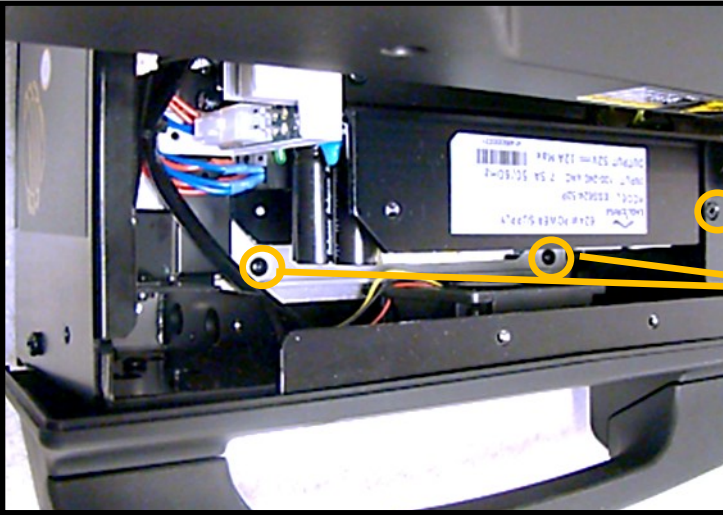
Add heat sink compound to new Power supply  
before installing onto mounting plate



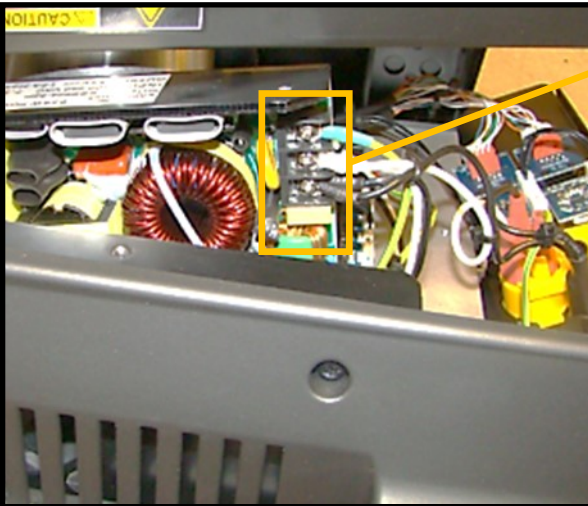
Remove Power Supply mount and install  
on the new Power Supply

# SolaSpot 1000

## Removing the LED Power Supply



Remove 3X mount screws using a magnetized Philips head screwdriver



Lift up LED Power Supply to access AC input wires  
Loosen Philips screws and disconnect wiring

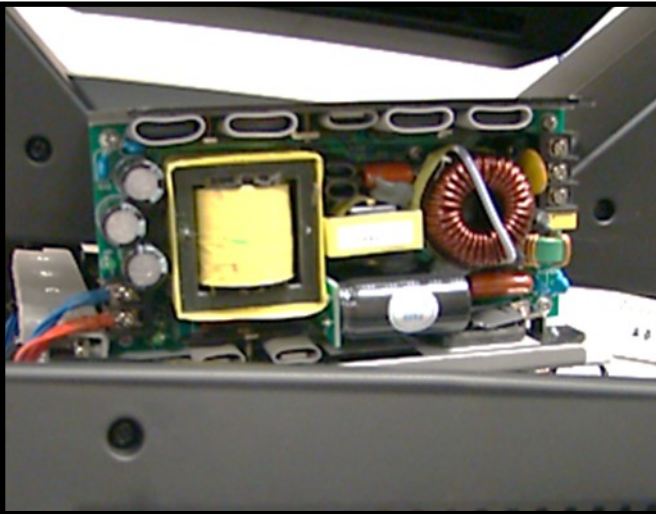
**Green:** Ground

**White:** Neutral

**Black:** Live

# SolaSpot 1000

## Removing the LED Power Supply



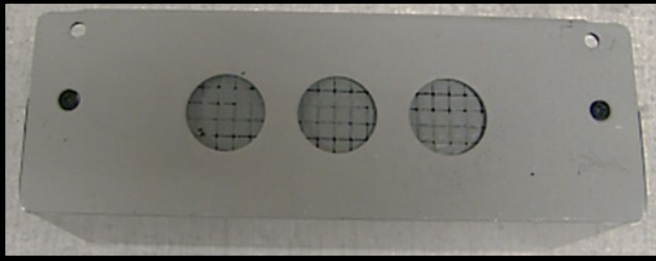
Lift up LED Power Supply to access output wires

Loosen 2X screws

Disconnect output wires

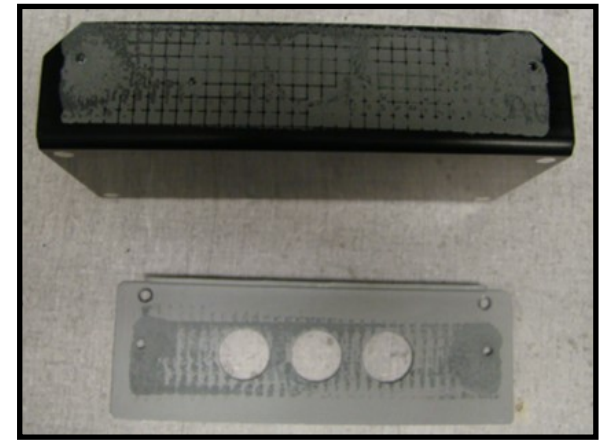
**Red:** Positive

**Blue:** Negative



Remove Power Supply mount and use on the new Power Supply

*Add heat sink compound to the new Power Supply before installing onto mounting plate*





# SolaSpot 1000

## Accessing the Yoke Components



Remove yoke arm cover screws, 2 on each side

Tilt Homing Sensor



Pan/Tilt PCB 2U

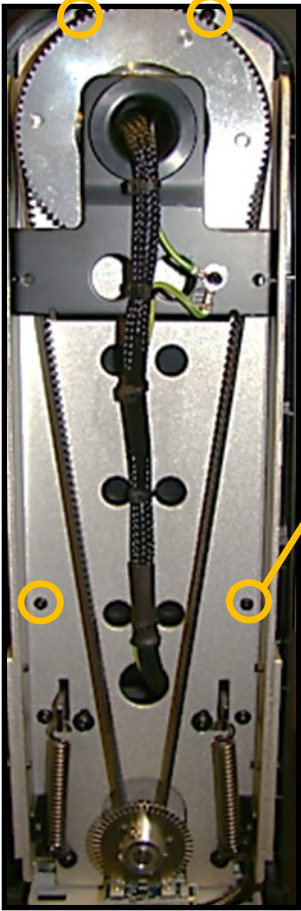
Pan Encoder Sensor



Tilt Encoder Sensor

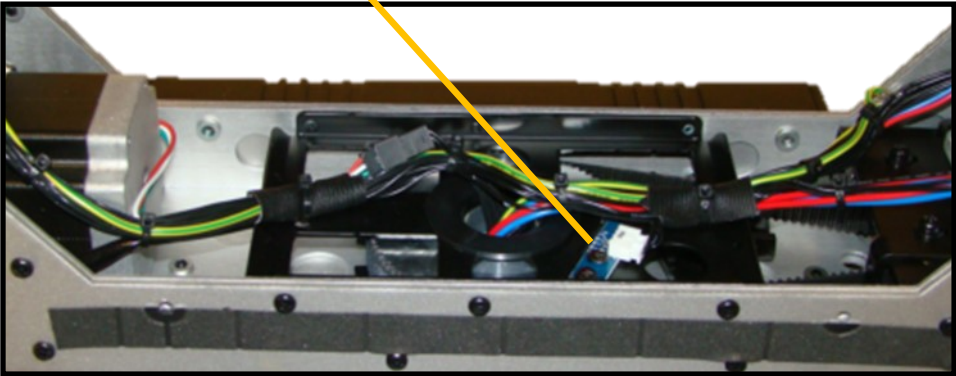
# SolaSpot 1000

## Accessing the Pan Homing Sensor



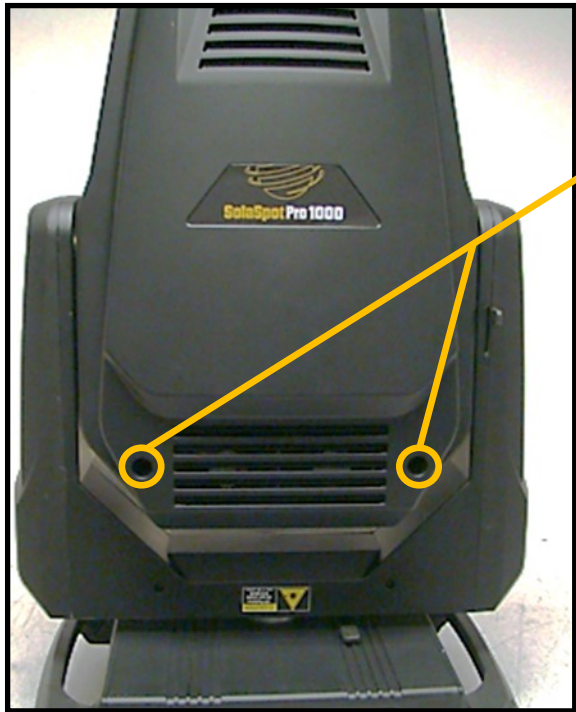
Remove 4X yoke cover screws on each side of the yoke

Pan Homing Sensor

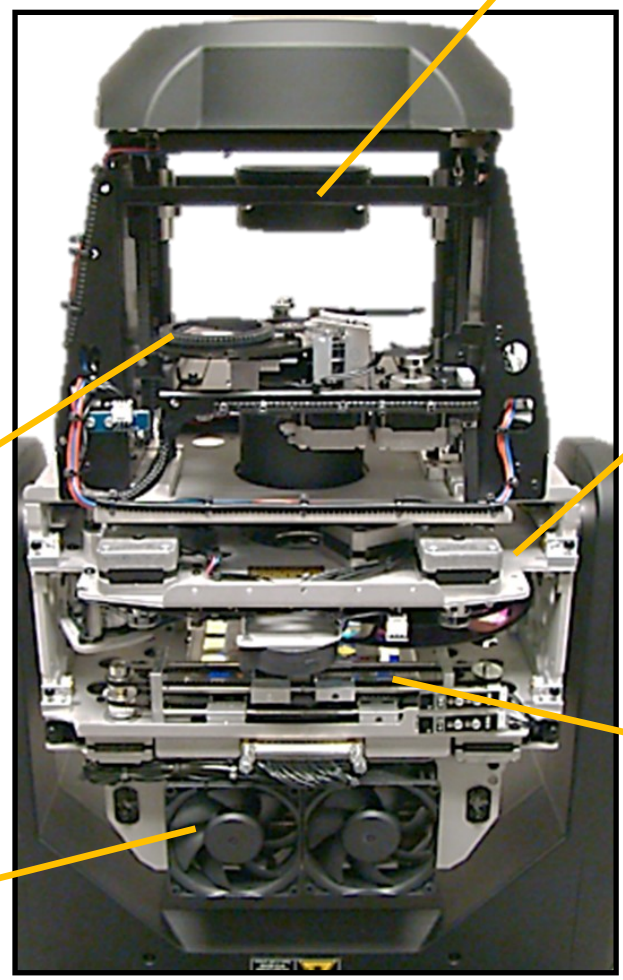


# SolaSpot 1000

## Accessing the Head Components



Loosen 2X captive 1/4 turn screws per side  
Unhook safety cables and remove covers



Zoom Lens

Gobo Module

Color Mix Module

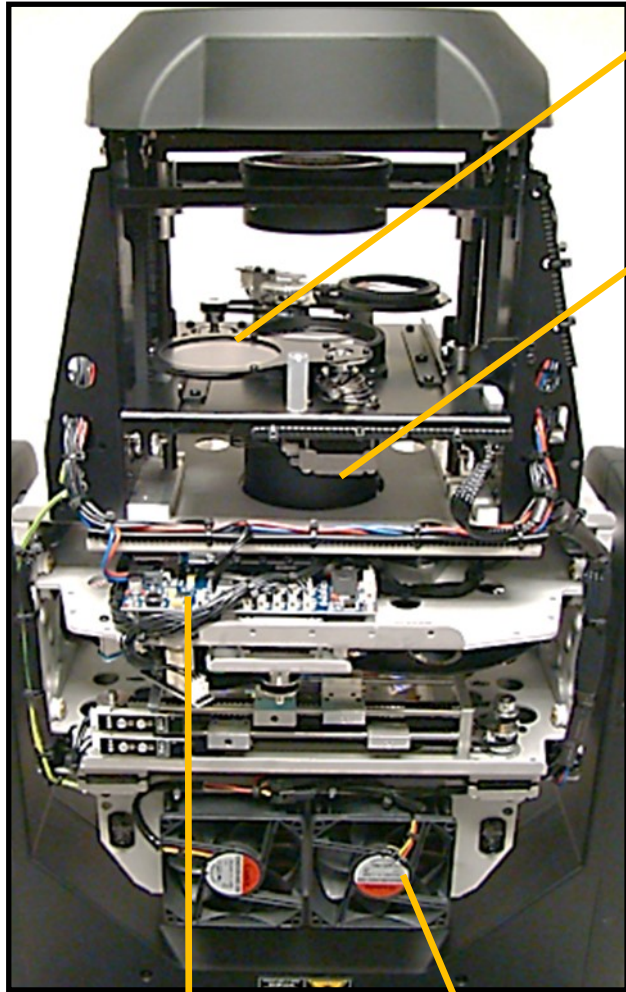
Prism Assembly

LED Fans



# SolaSpot 1000

## Head Components



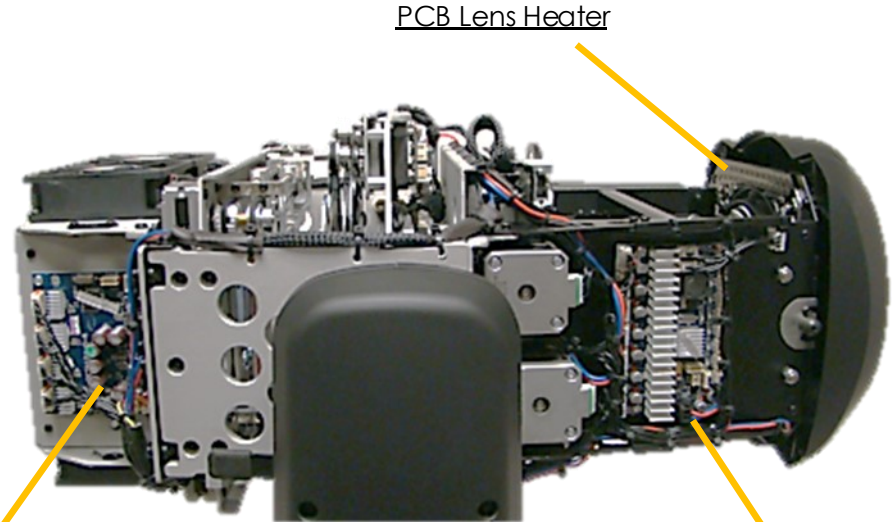
PCB 4U: Animation, Gobos, Color Wheel, Iris

LED Fans

Frost Assembly

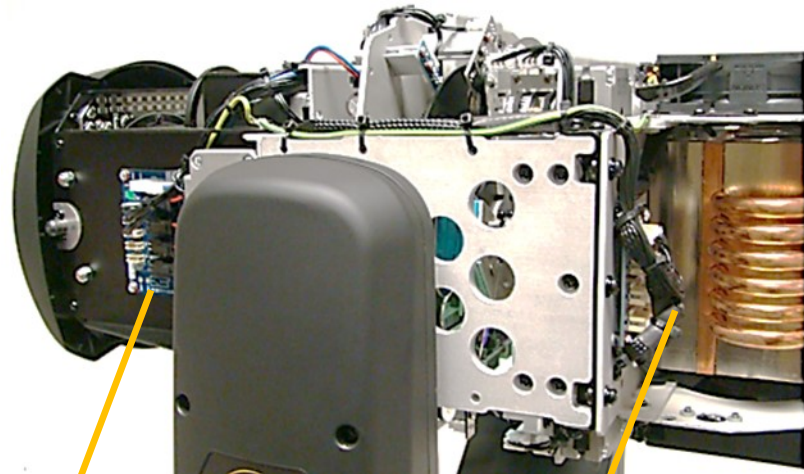
Focus Lens

PCB 3U: Color Mix



PCB Lens Heater

PCB 5U: Focus, Prism, Zoom, Frost



Power/Data Junction PCB

LED Junction PCB

# SolaSpot 1000

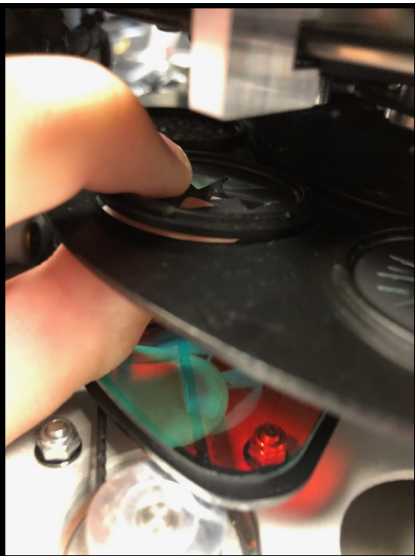
## Gobo Replacement



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



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

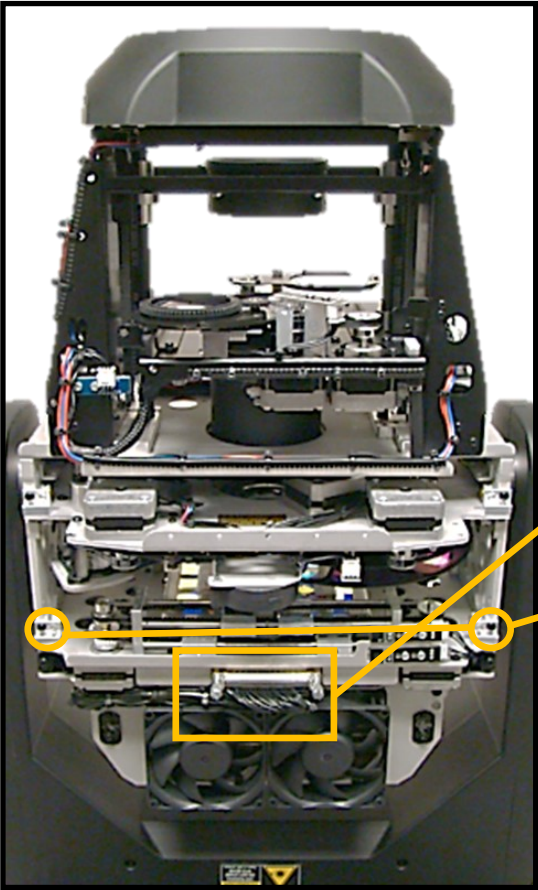


Triangles gobo holder contains the homing magnet sensor and must remain in the same position



# SolaSpot 1000

## Removing the Color Mix Module



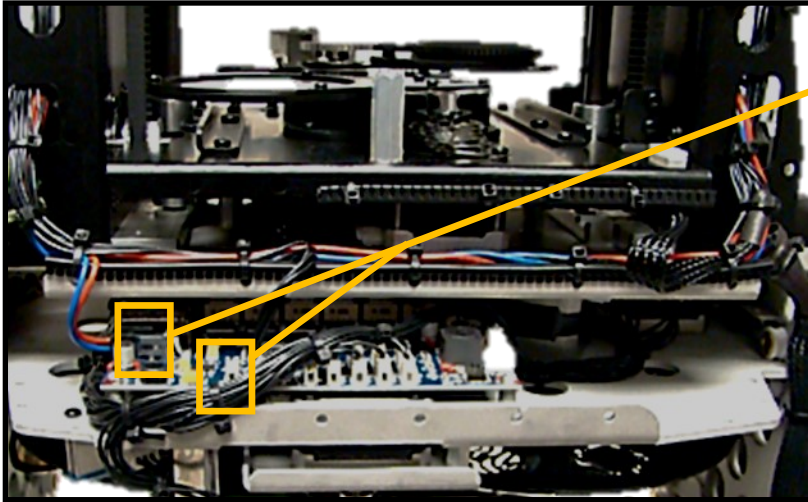
Remove module harness connector

Remove 2X Philips head screws

Carefully pull out module

# SolaSpot 1000

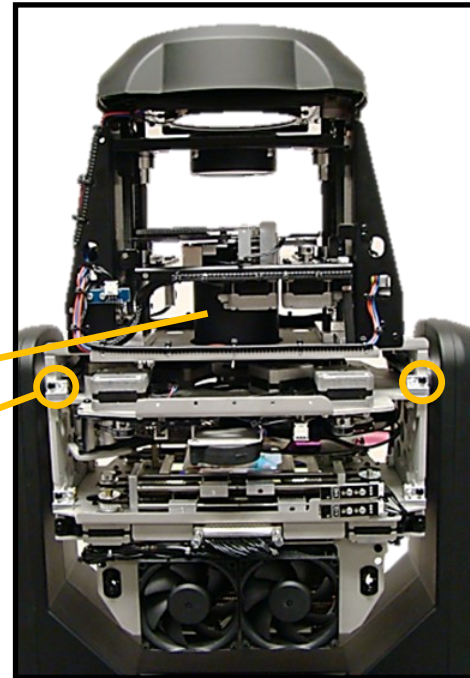
## Removing the Gobo Module



Remove 2X connectors going from the PCB to the fixture

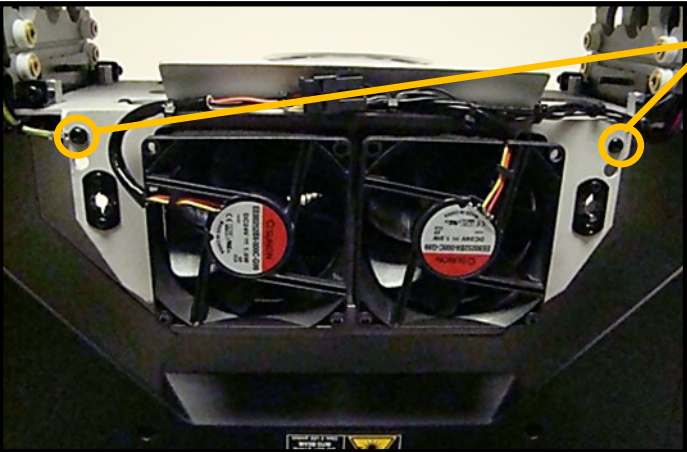
Move focus lens upwards and out of the way by hand or by tilting the fixtures head down before removing module

Remove 2X Philips head screws  
Carefully pull out module

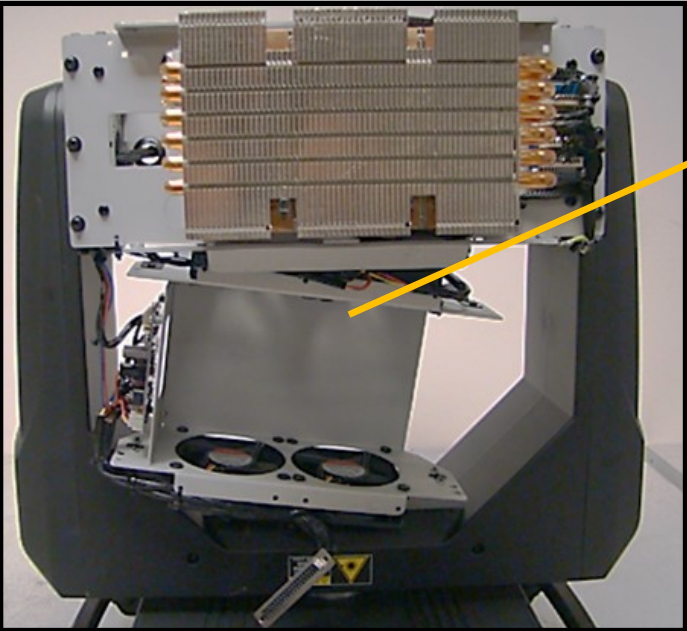


# SolaSpot 1000

## Replacing the Light Engine



Remove 2X Philips screw heads per side to remove fan plate

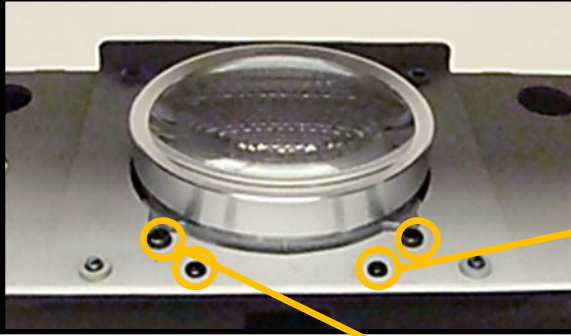


Carefully place fan plate yoke

Lock pan & tilt

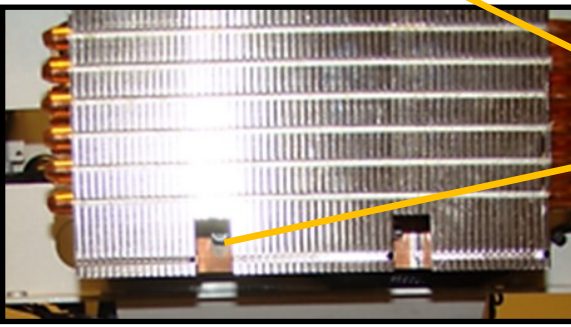
# SolaSpot 1000

## Replacing the Light Engine



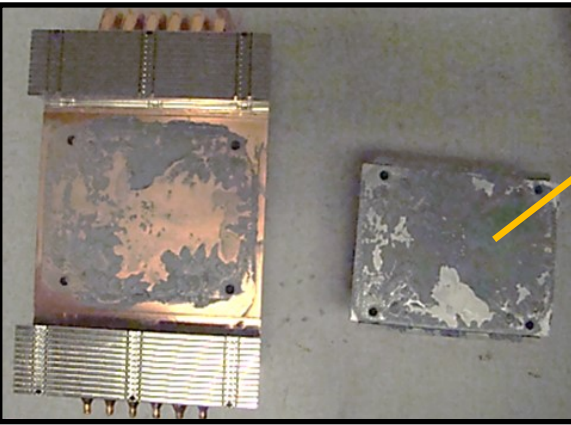
Disconnect LED wire harnesses on both sides

Remove 4X smaller screws



Remove 4X Philips head screws

Carefully separate LED Heatsink & LED



Apply heatsink compound to new LED Light Engine

# SolaSpot 1000

## PCB Identifiers

PCB Software ID	Controls
1U	Display
2U	Pan, Tilt
3U	CMY, CTO
4U	Gobo 1 & 2, Gobo 1 Rotating, Animation, Animation
5U	Focus, Prism, Zoom, Frost
6U	LED Control