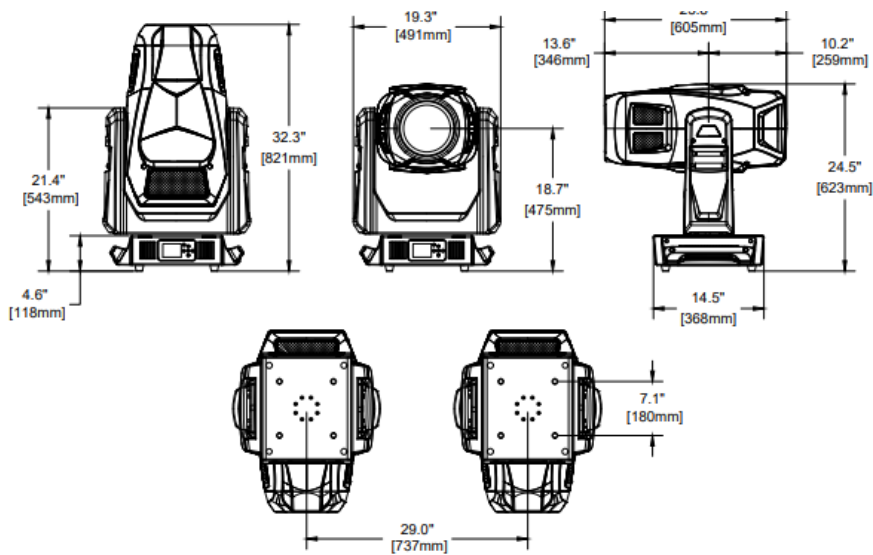




HIGH END SYSTEMS

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Accessing the Electronics

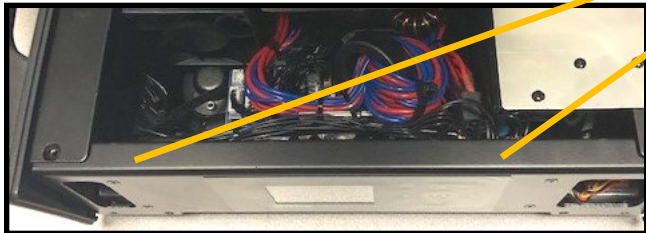
Remove 4X Philips head screws on each cover



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

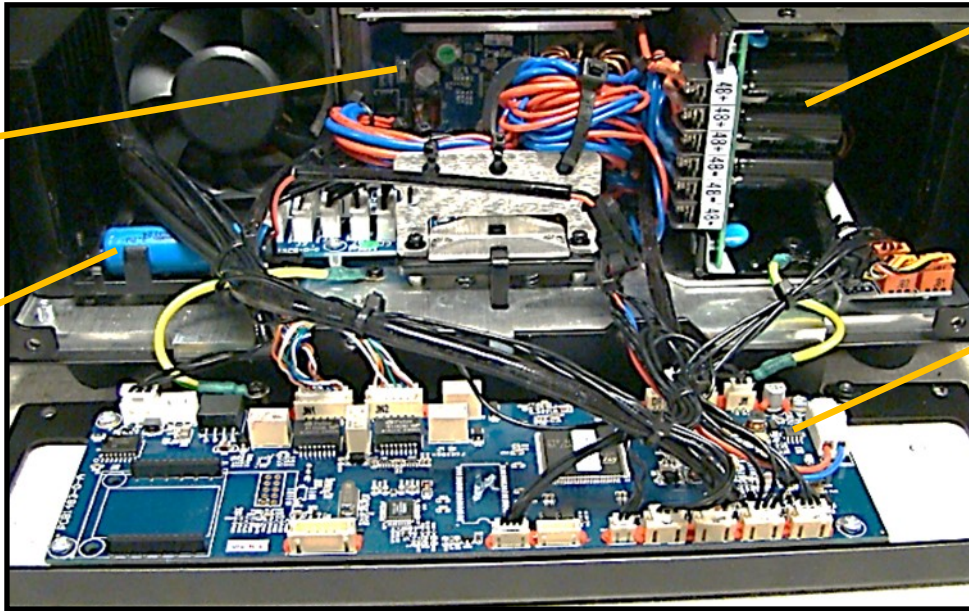


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Front Panel Components

Power Supply Converter
(48VDC to 28VDC)

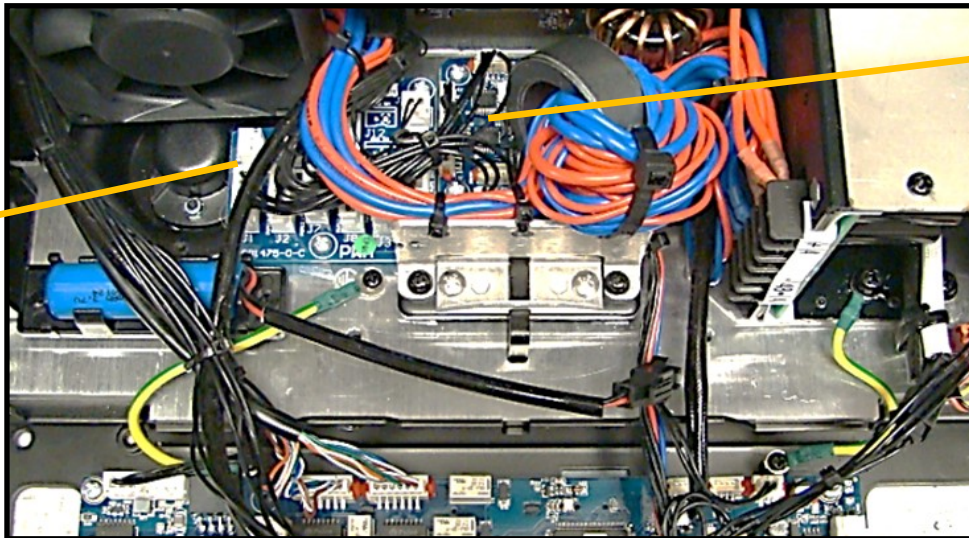
Display Battery



Power Supply (48VDC Output)

Display PCB

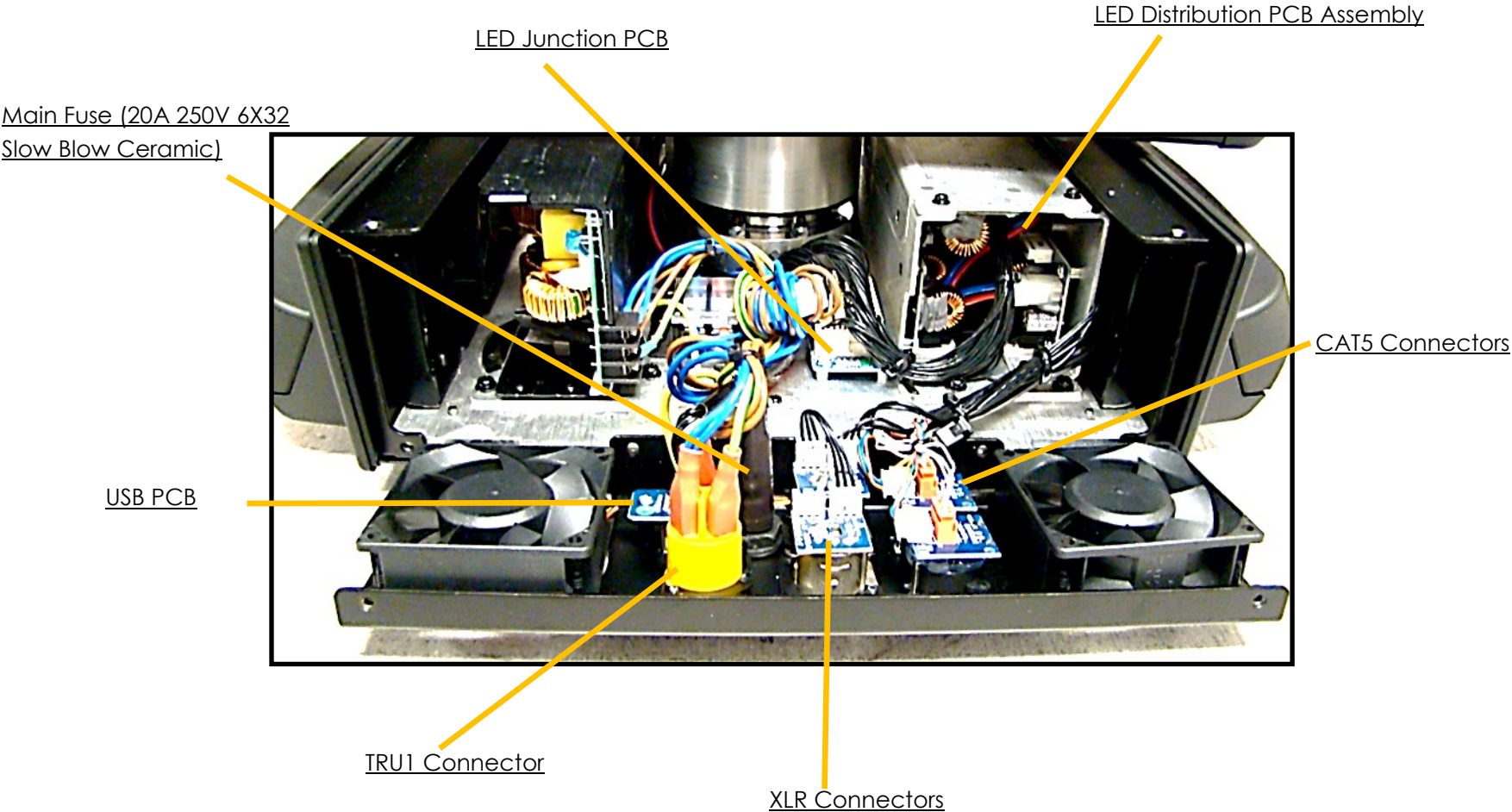
LED Distribution PWM



LED Control PCB

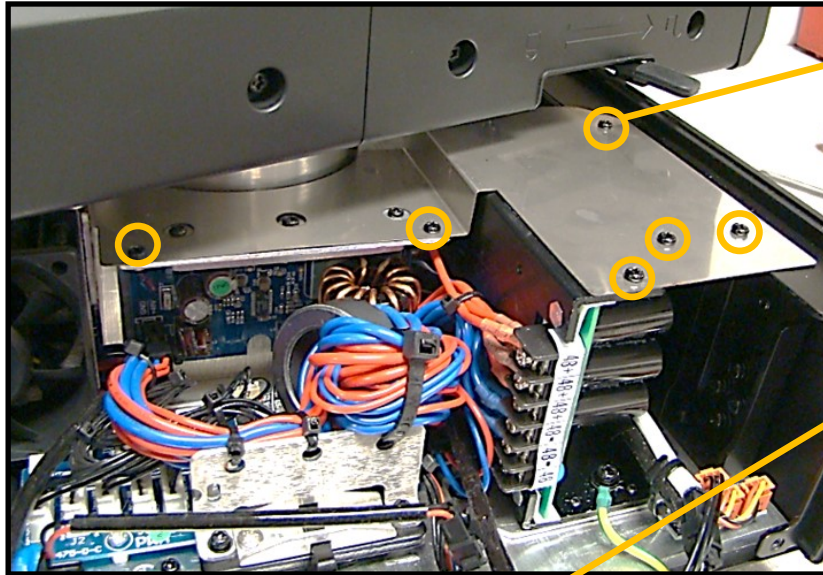
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Rear Panel Components



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Removing the Power Supply



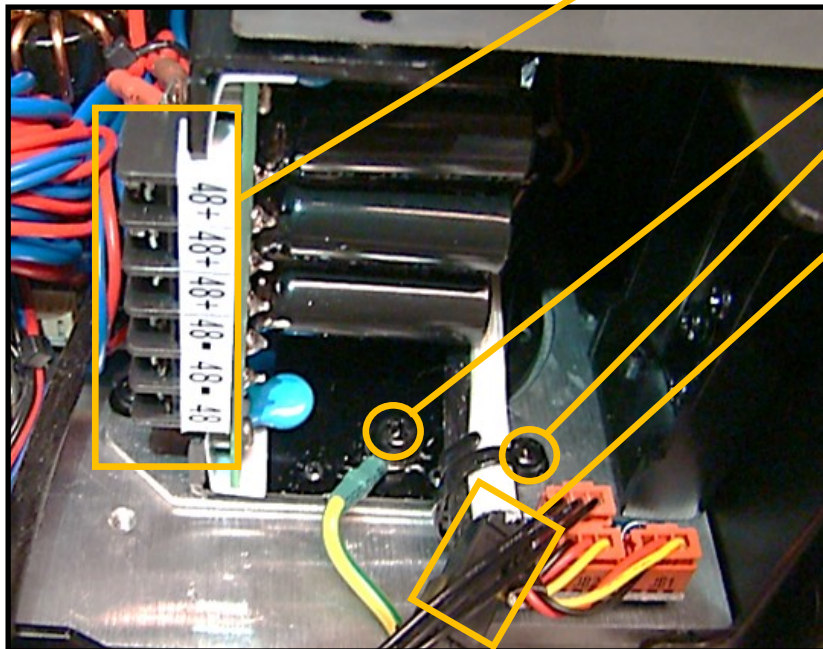
Remove 8X (2 not pictured) to remove the metal cover

Loosen screws and remove output wires

DC Wiring:

Blue is -

Red is +



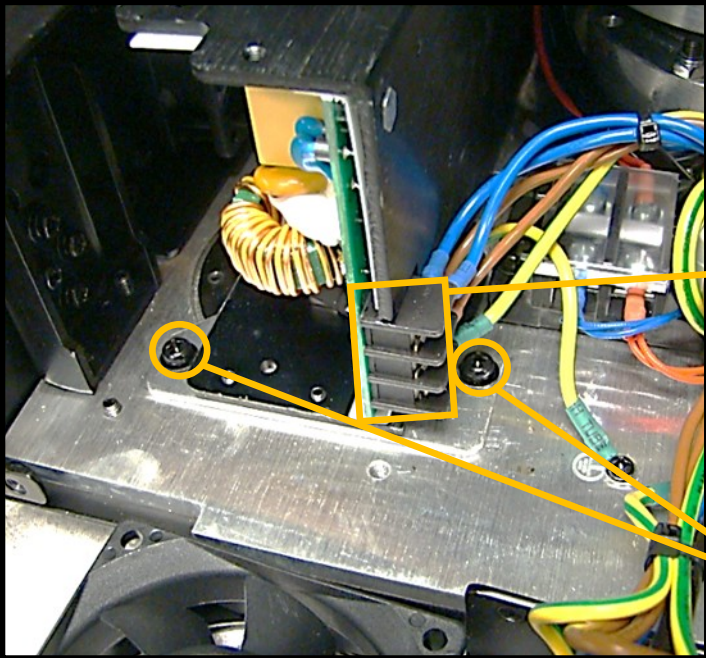
Remove 1X ground wire screw

Remove 1X mounting screw

Disconnect thermal sensor

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Removing the Power Supply



Loosen screws and remove input wires,
be sure to note locations of each wire

Remove 2X Philips head screws

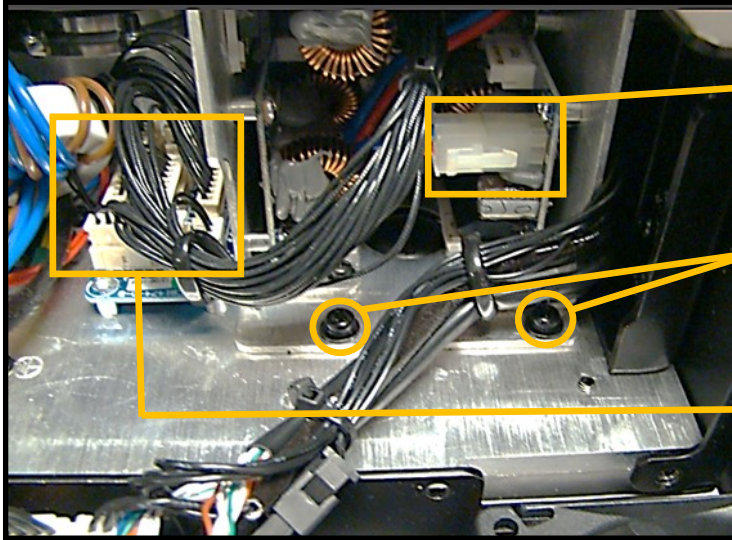


Power Supply is now free to be removed

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Removing the LED Distribution Assembly

Rear Panel

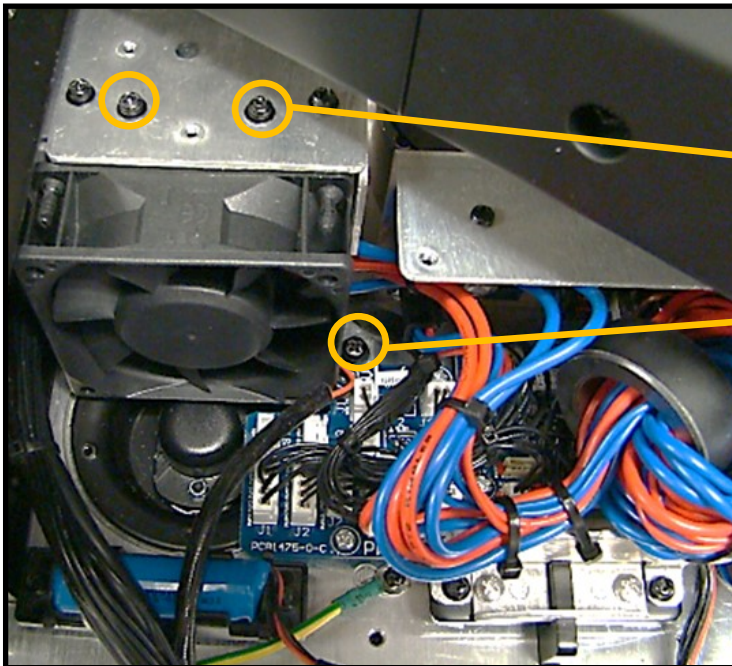


Unseat power connector

Remove 2X Philips head screws

Unseat 5X connectors from junction PCB

Front Panel

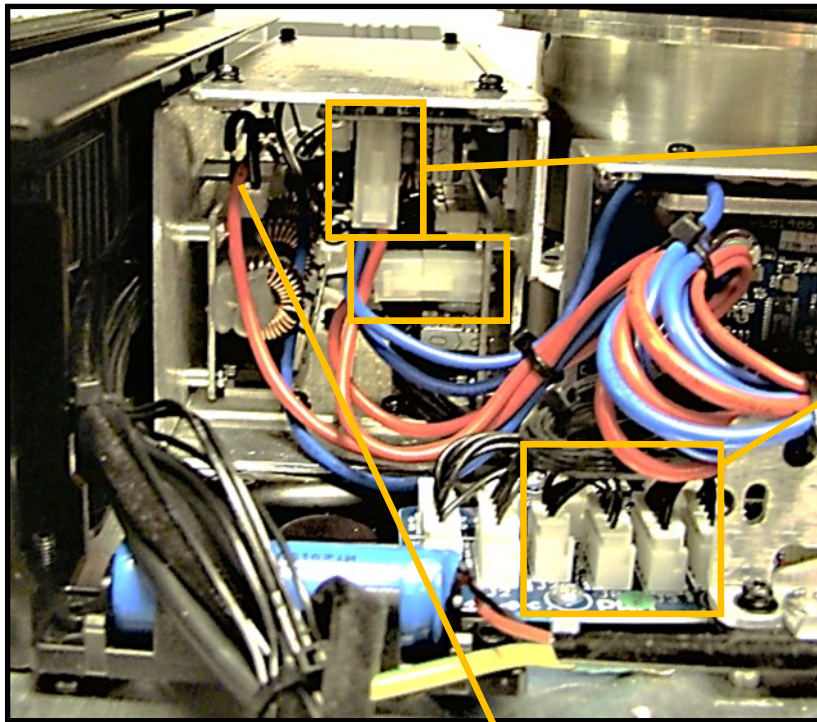


Remove 2X Philips head screws to remove fan mount

Remove 1X Philips head screw

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Removing the LED Distribution Assembly



Unseat 2X power connectors

Disconnect 3X junction PCB wires

Carefully feed rear power connector through front

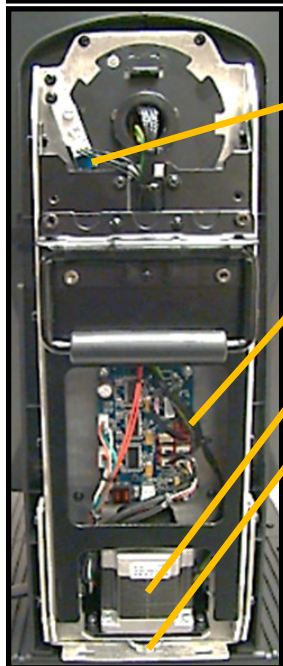
Remove assembly by lifting and pulling towards the rear panel

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Accessing the Yoke Components



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



Tilt Homing Sensor

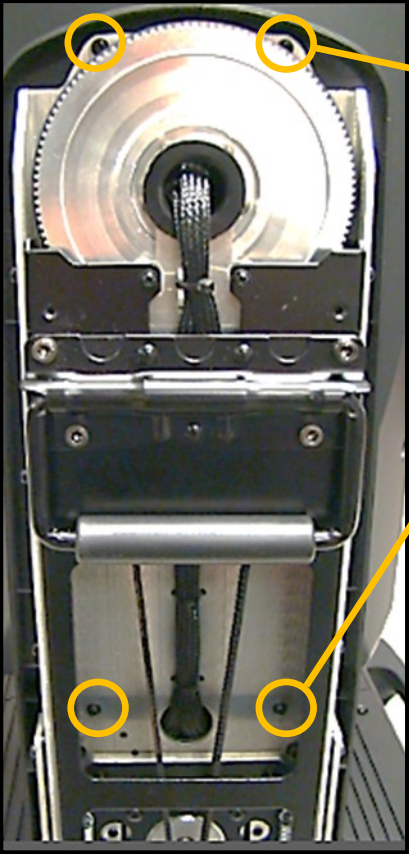
Pan/Tilt PCB 2U

Pan Motor

Pan Encoder Sensor

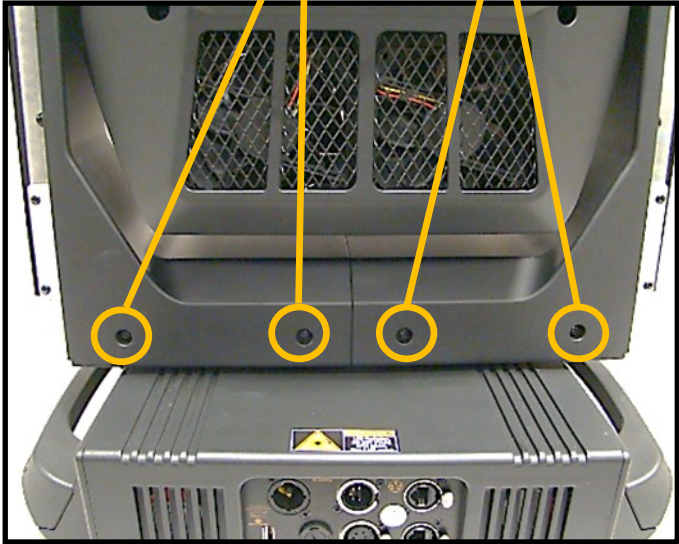
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Accessing the Yoke Components



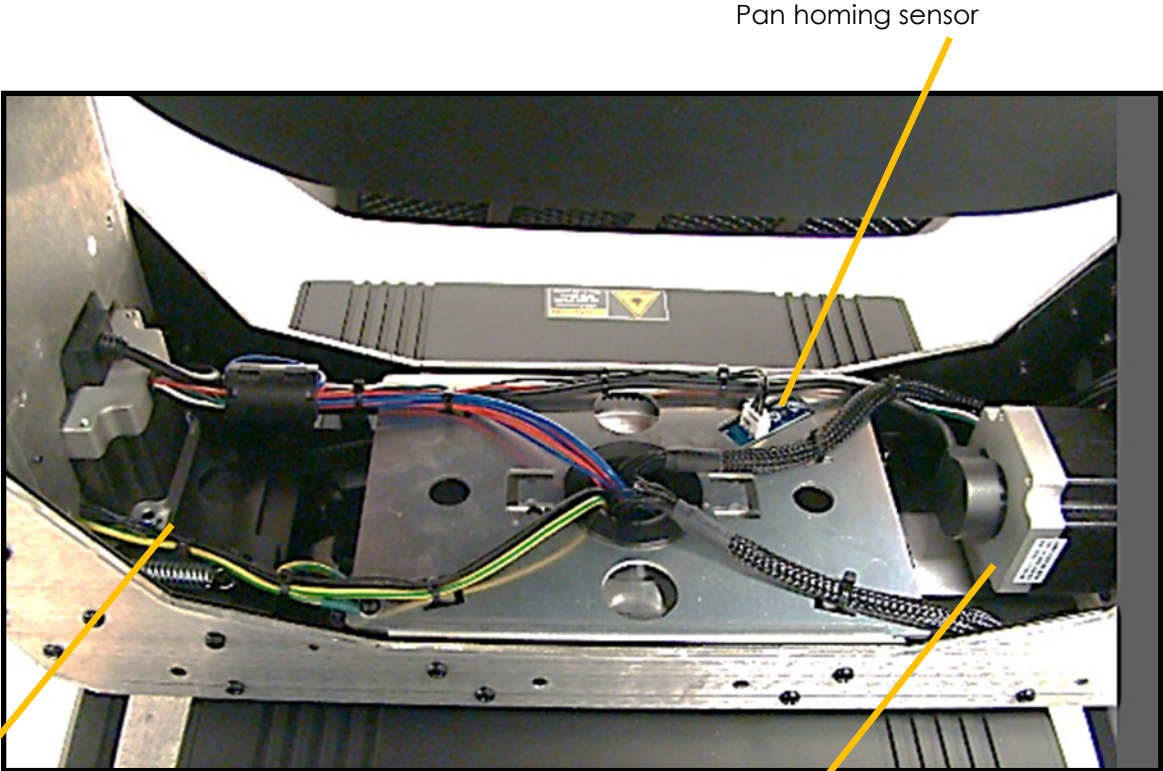
Remove 4X internal Philips head screws on each side

Remove 4X external Philips head screws on each side



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Accessing the Yoke Components



Pan homing sensor

Pan motor with attached encoder sensor

Tilt motor with attached encoder sensor

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Accessing Head Components

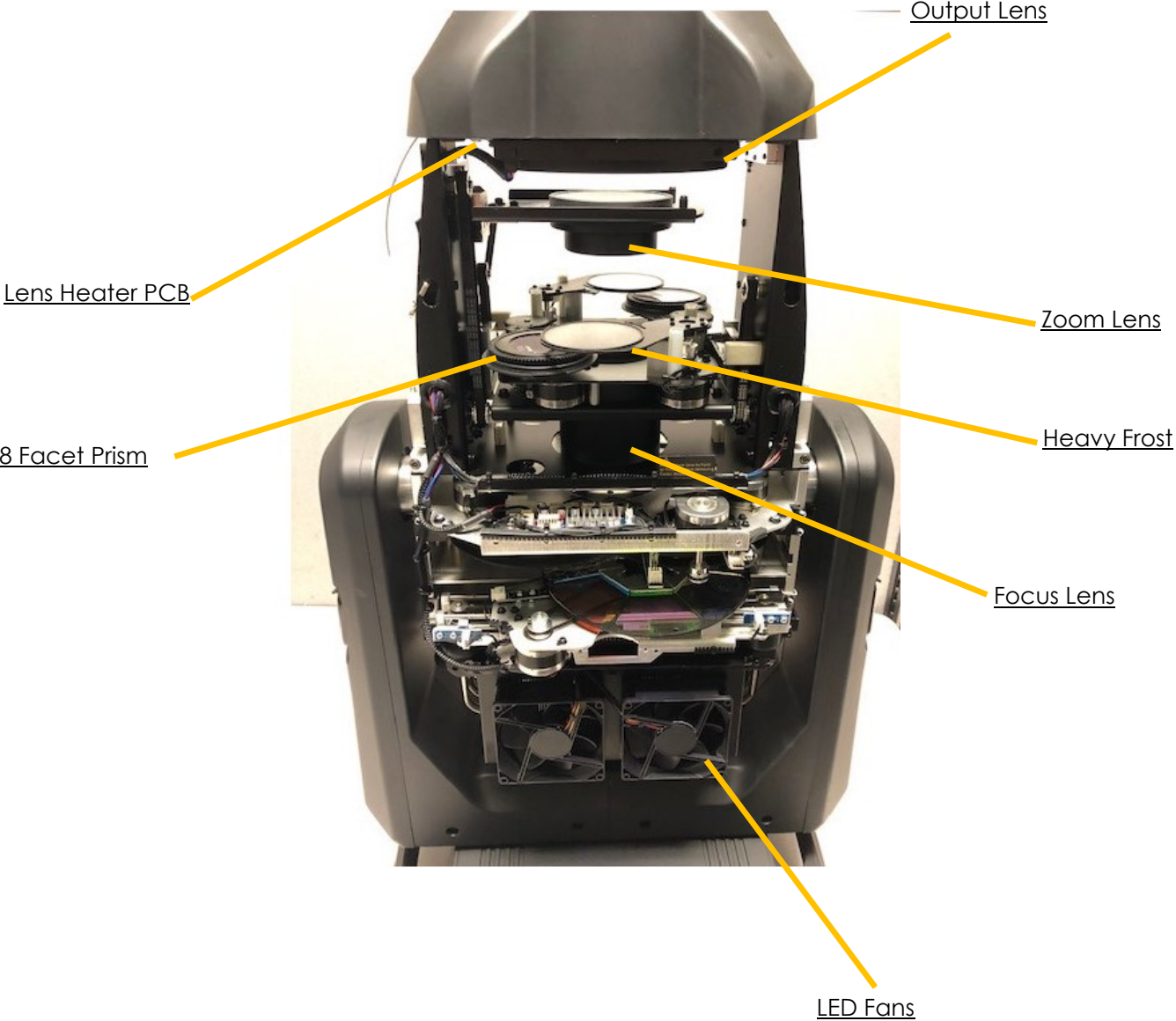


Loosen 2X captive 1/4 turn screws on each side

Unhook safety cable on each head cover

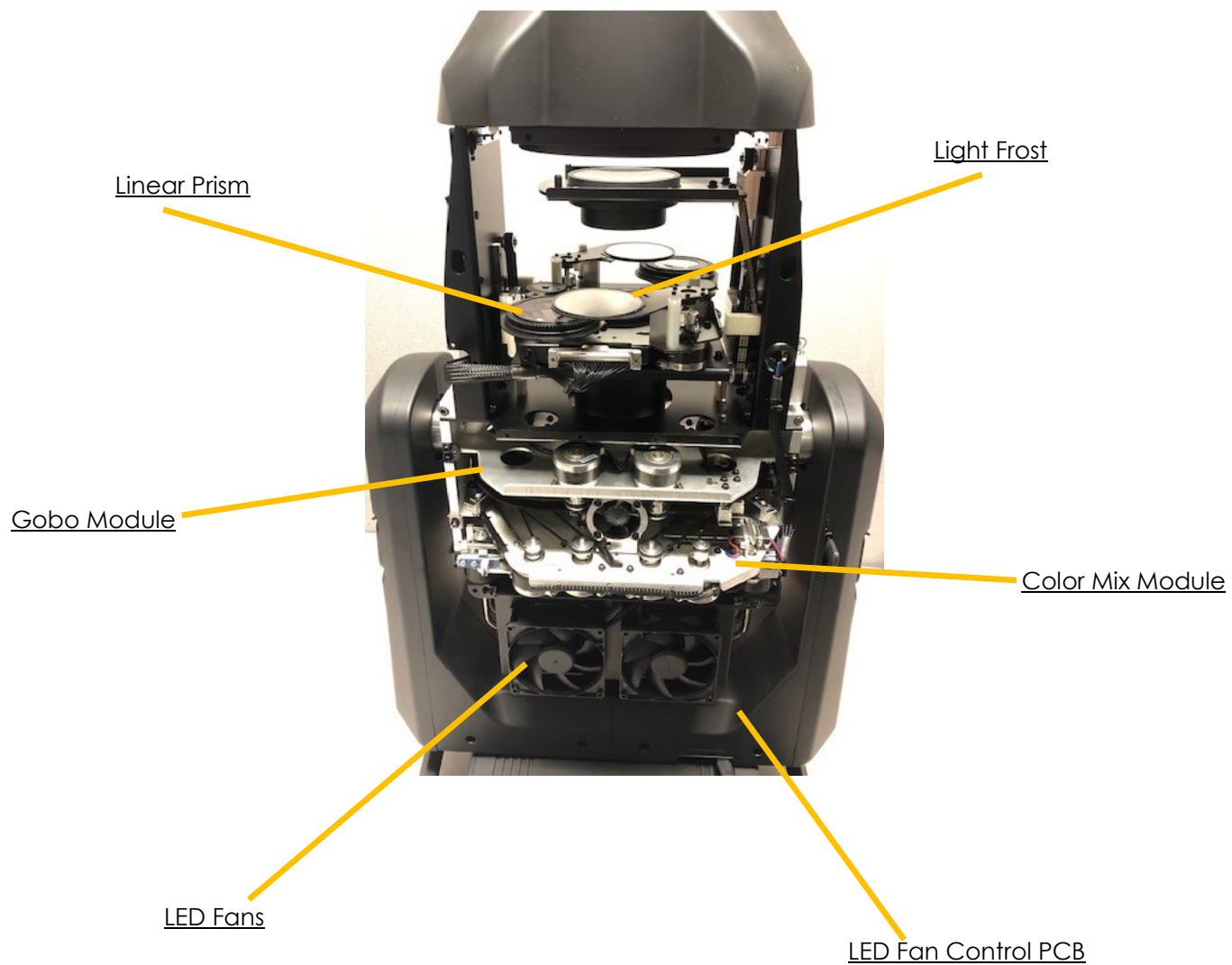
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Head Components



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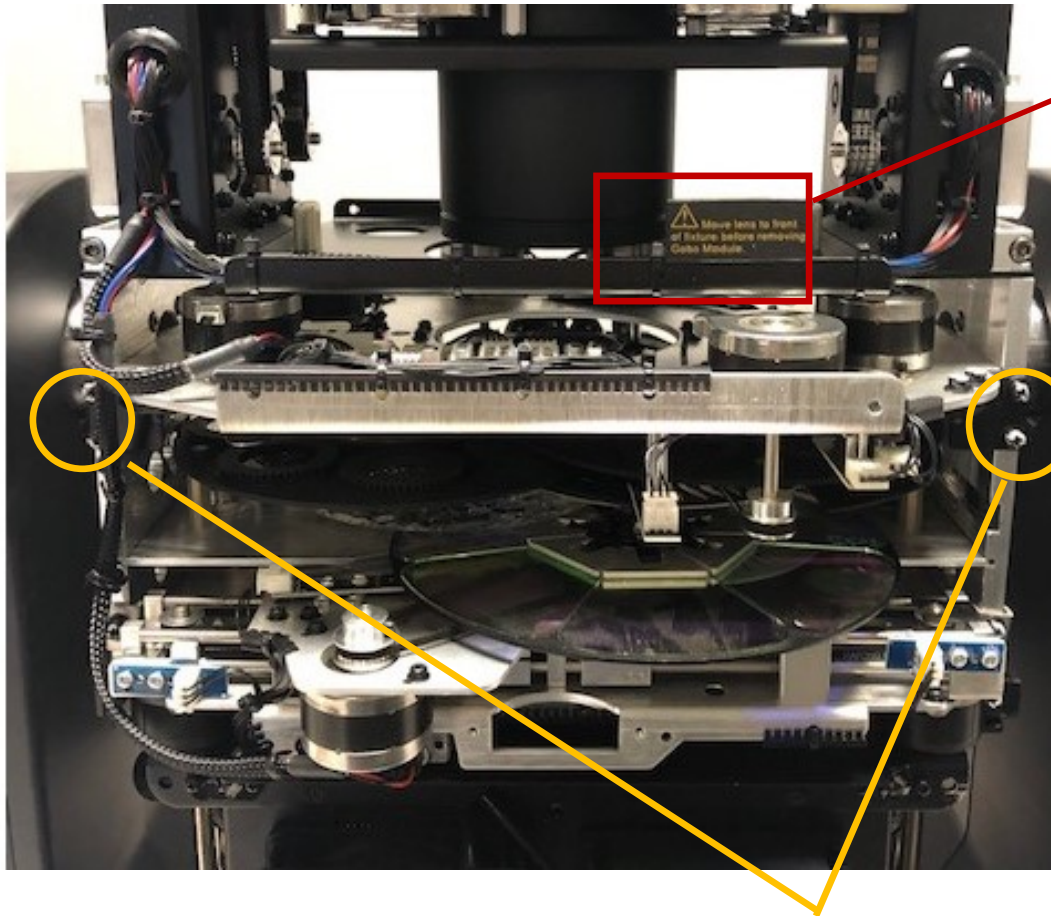
Head Components



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Removing Gobo Module

Pull up the focus lens or tilt the head forward before removing the framing module



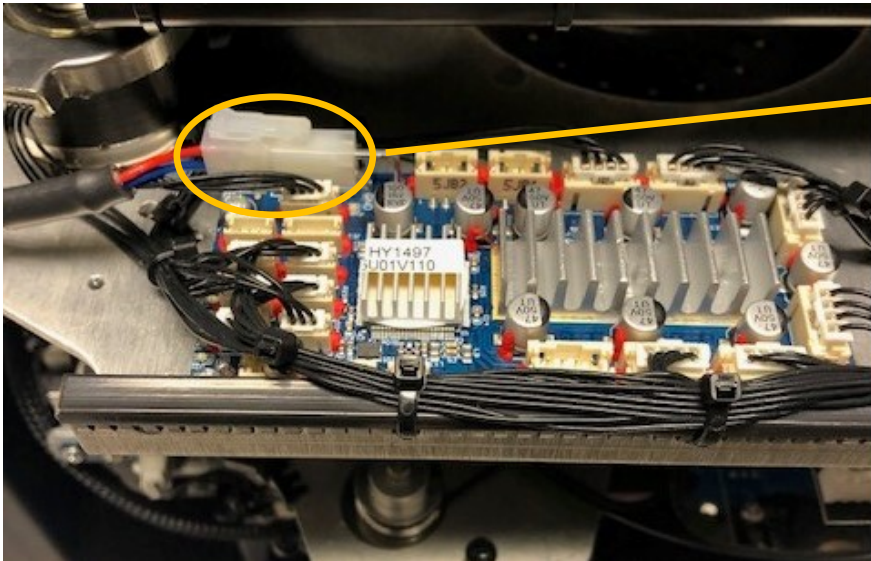
Gobo PCB **5U** is on the bottom of the module

Remove 4X Philips head screws

See next step before attempting to pull out module

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Removing Gobo Module



Remove these two connectors from PCB

Carefully pull out module

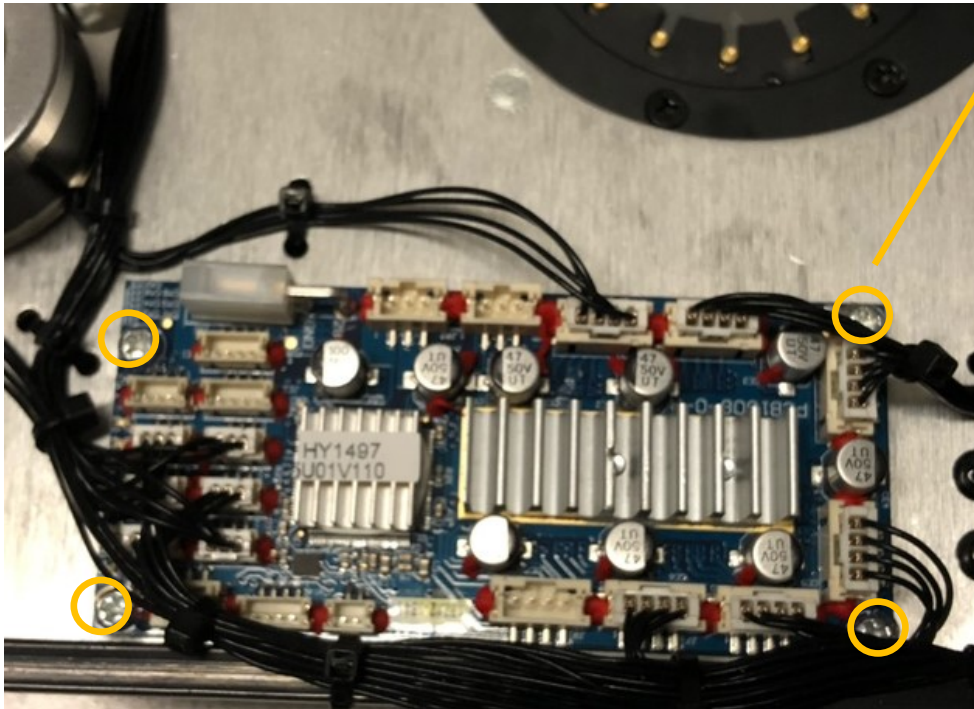
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Access Gobo PCB

Unseat all PCB connectors

Remove 4X Philips head screws

Carefully pull up on PCB



SolaFrame 3000

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 and Starvolver gobo holders contain the homing magnet and must remain in the same location in the rotating gobo wheel

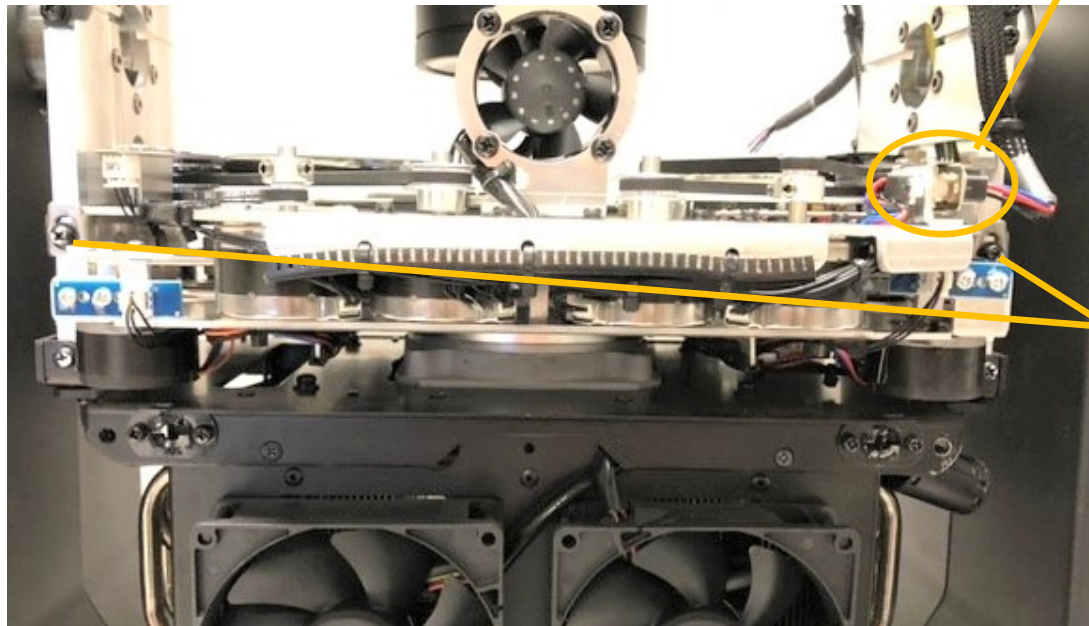


Each gobo is held in by a retaining spring, remove this and be sure to install the gobo with the coated (black side) **away** from the LED source

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Removing Animation Module

Remove module harness connector



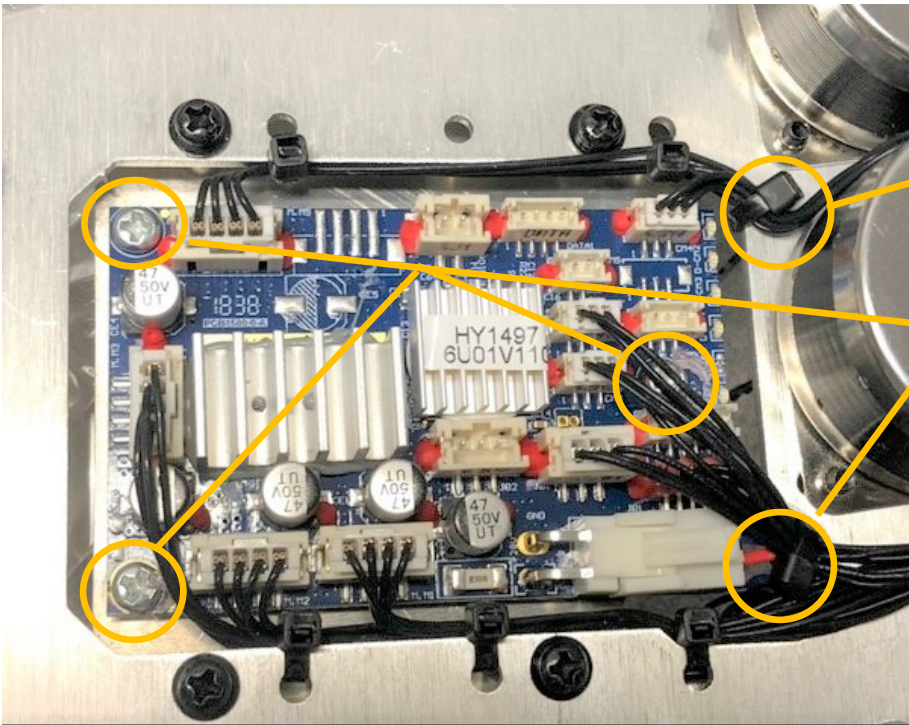
Loosen 2x module clips (1X Philips head screw each)

Carefully pull out module

Animation PCB **6U** is on the bottom of the module

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Removing Animation PCB



Carefully flip over and support the module to prevent damage to the animation wheels

Remove wire ties to gain slack in the harness

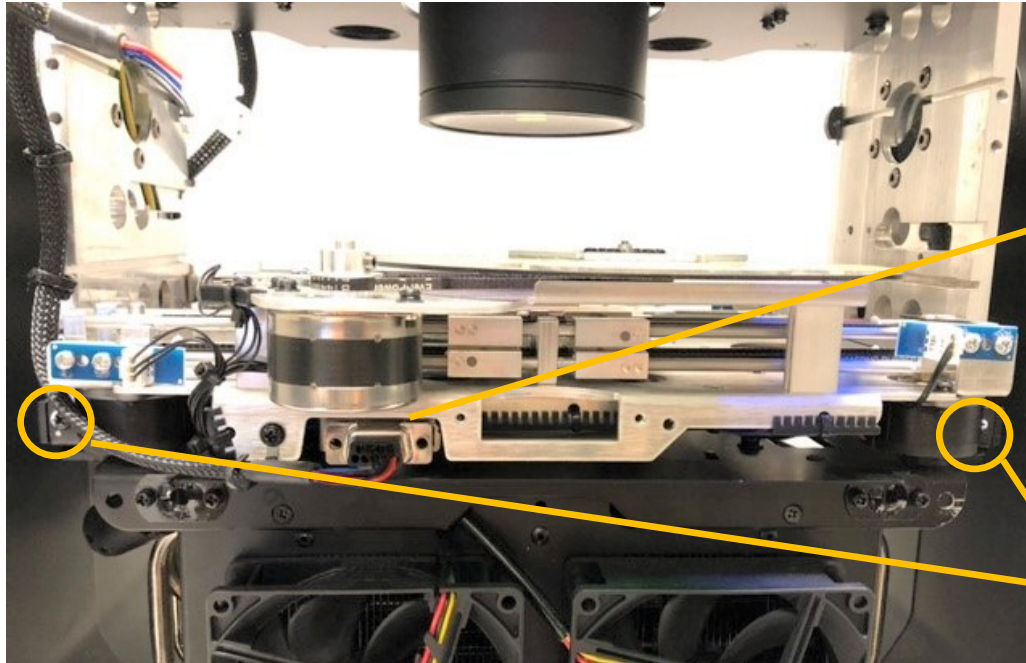
Unseat all PCB connectors

Remove 3x Phillips head screws

PCB is now free to remove

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Removing Color Mix Module



Remove module harness connector

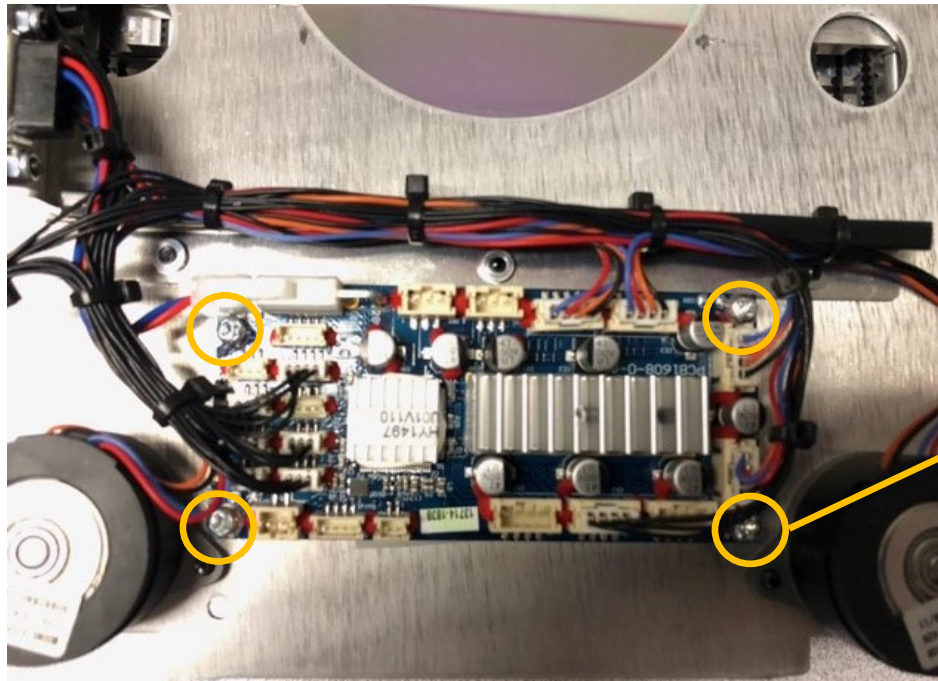
Remove 2x Phillips head screws

Carefully remove module

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

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Removing Color Mix PCB



Carefully flip over and support the module to prevent damage to the color wheel

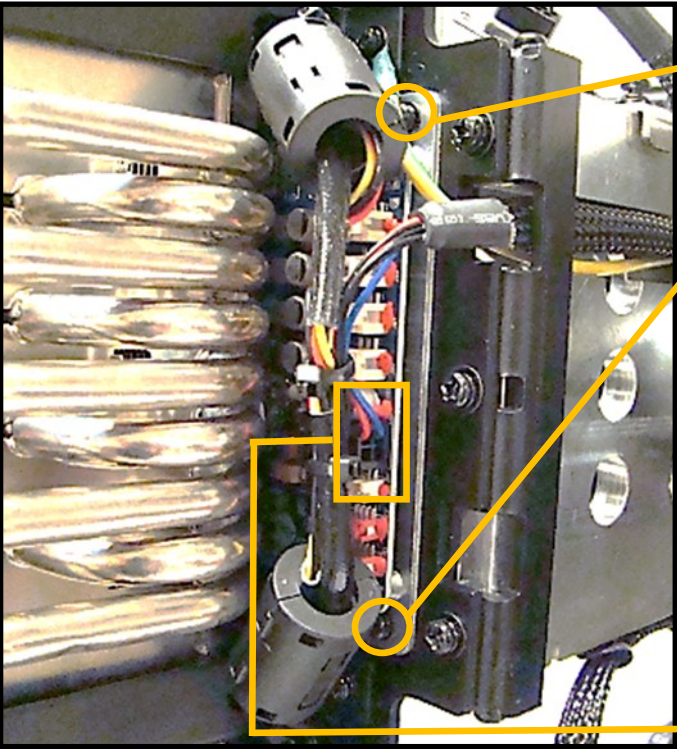
Unseat all PCB connectors

Remove 4x Phillips head screws

PCB is now free to remove

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Removing LED Light Engine



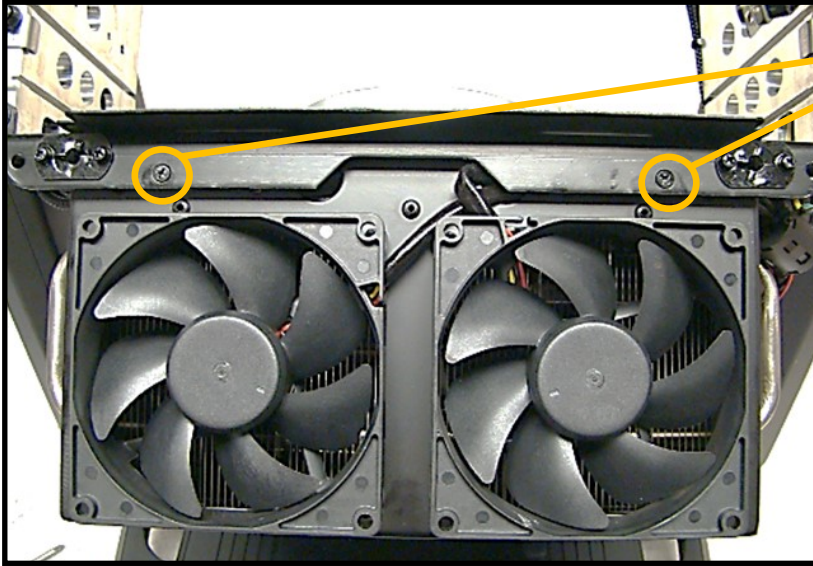
Remove 4X Philips screws, 2 on each side

Carefully cut 2X wire ties

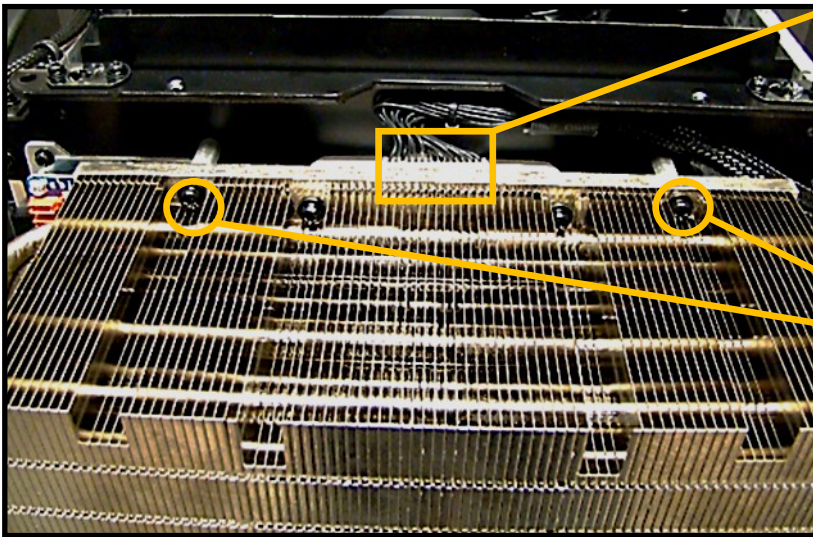
Disconnect fan wires from PCB

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Removing LED Light Engine



Remove 4X Philips screws, 2 on each side



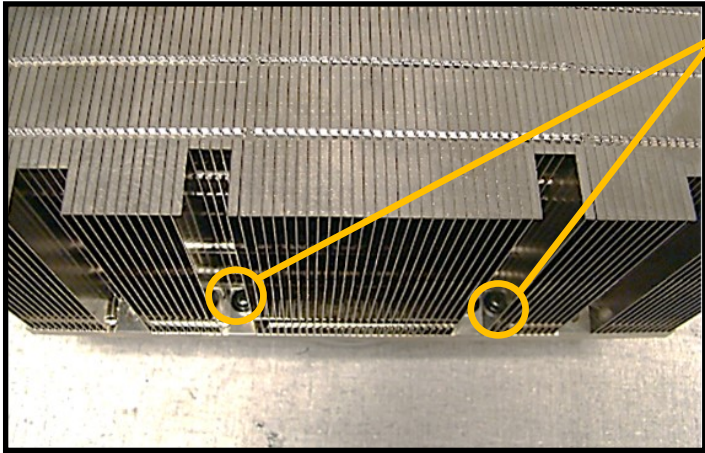
Disconnect LED wire harness, 1 on each side

Remove 4X Philips screws, 2 on each side

Be sure to support heatsink during this process

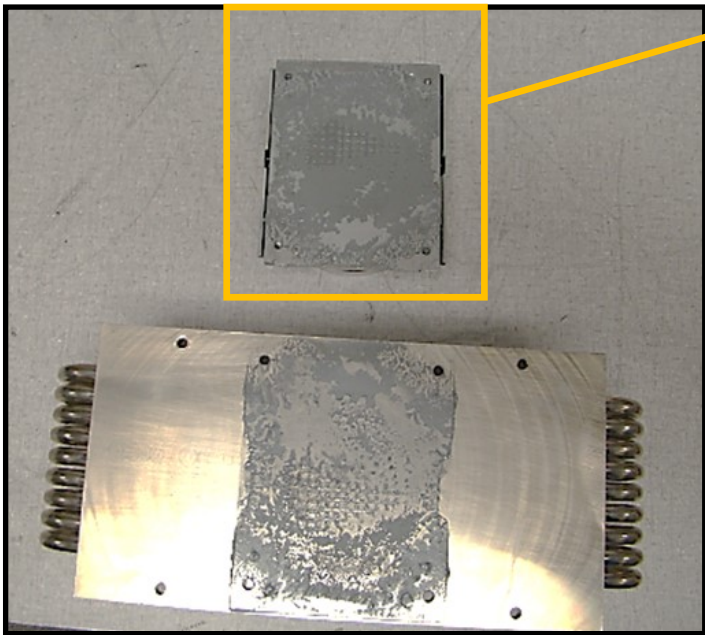
SolaSpot 3000

Removing LED Light Engine



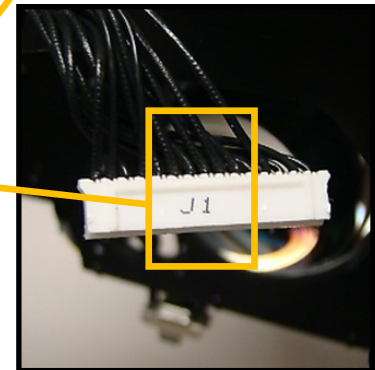
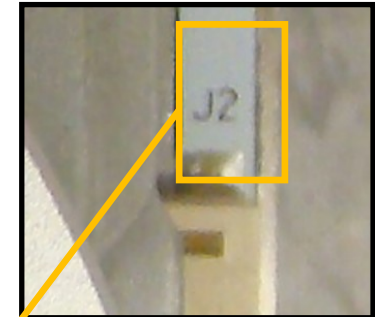
Remove 4X Philips screws, 2 on each side

LED Light Engine is now free



Add heatsink compound to the new LED Light Engine

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



SolaSpot 3000

PCB Identifiers

PCB Software ID	Controls
1U	Display
2U	Pan, Tilt
3U	LED Control
4U	Focus, Frost, Prism, Zoom
5U	Gobos
6U	Animation Wheels
7U	Color Mix
8U	LED Fan Control