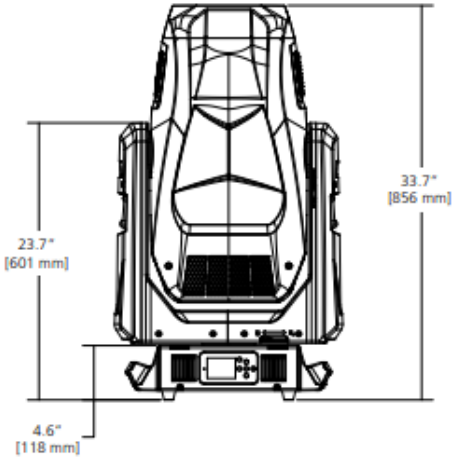
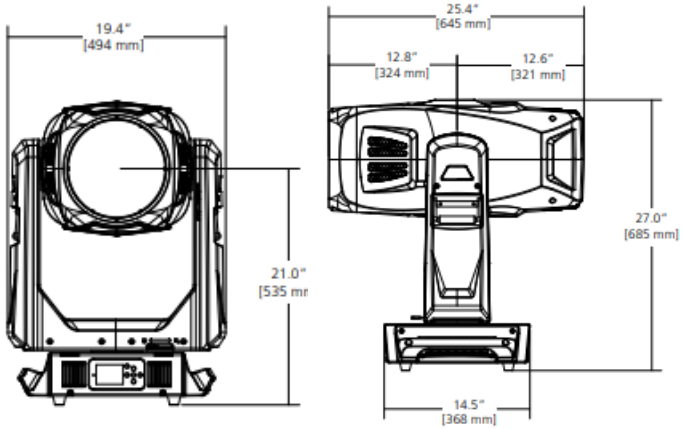
HIGH END SYSTEMS



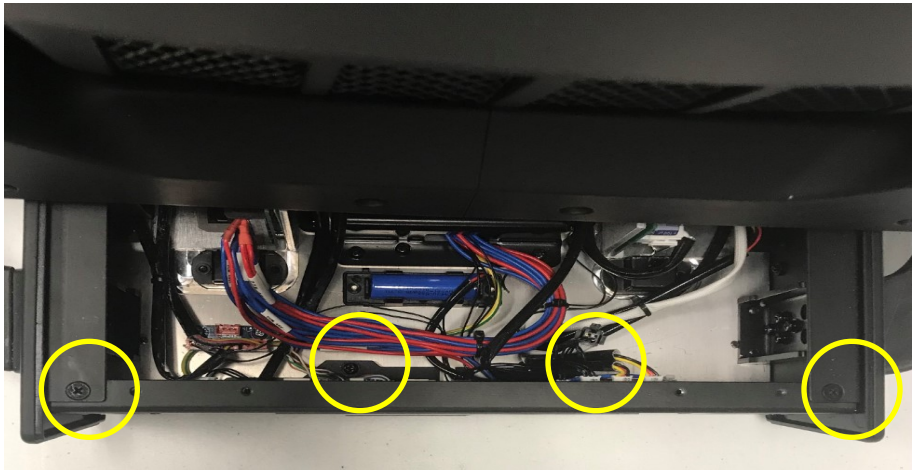


SolaHybeam 3000

SolaHybeam 3000

Accessing the Electronics

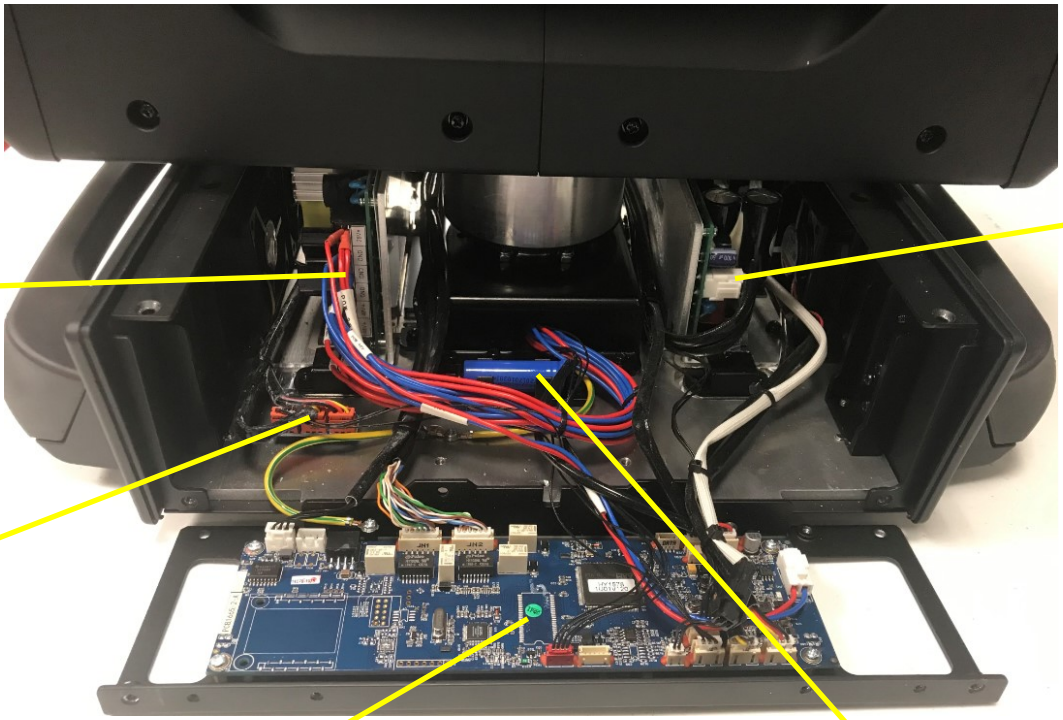
Remove 4X Philips head screws on front and rear top covers



Remove 4X Philips head screws to remove front and rear panels

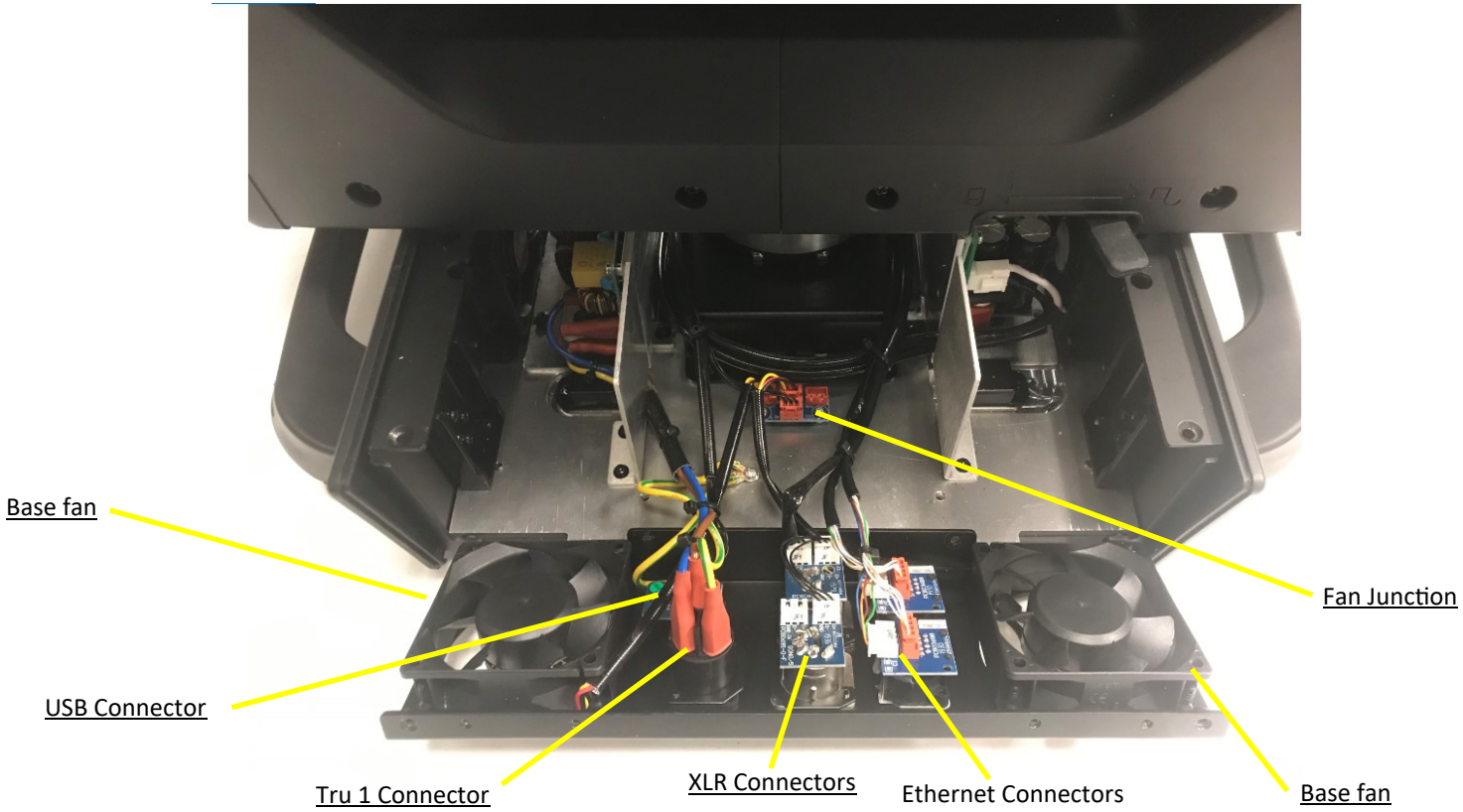
SolaHybeam 3000

Front Panel Components



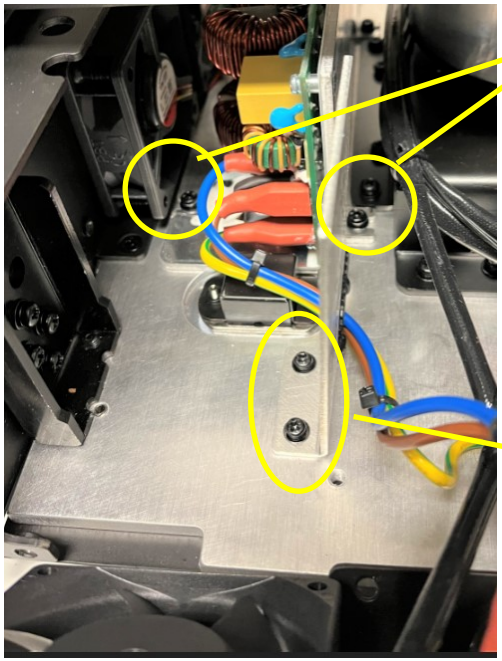
SolaHybeam 3000

Rear Panel Components



SolaHybeam 3000

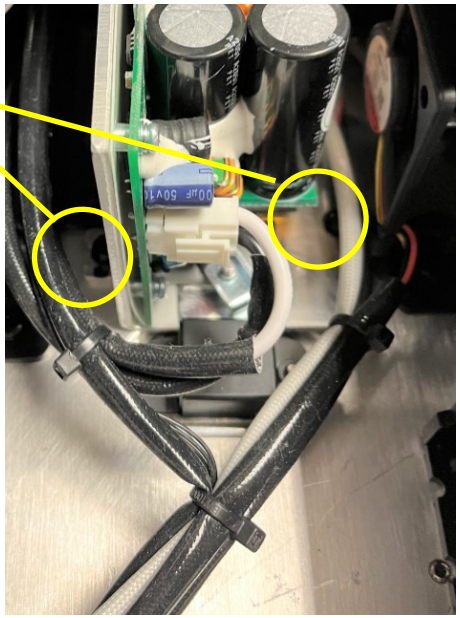
Removing the input power supply



Remove 4X Philips head mounting screws

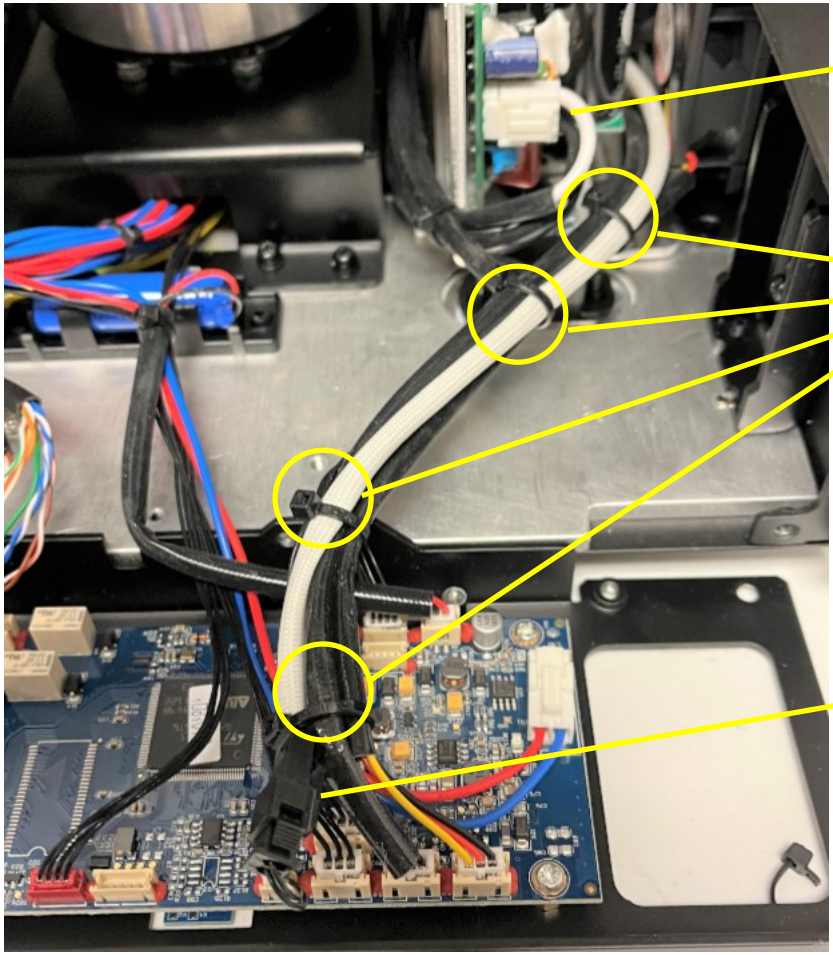
Remove ducting plate:

2X Philips head screws



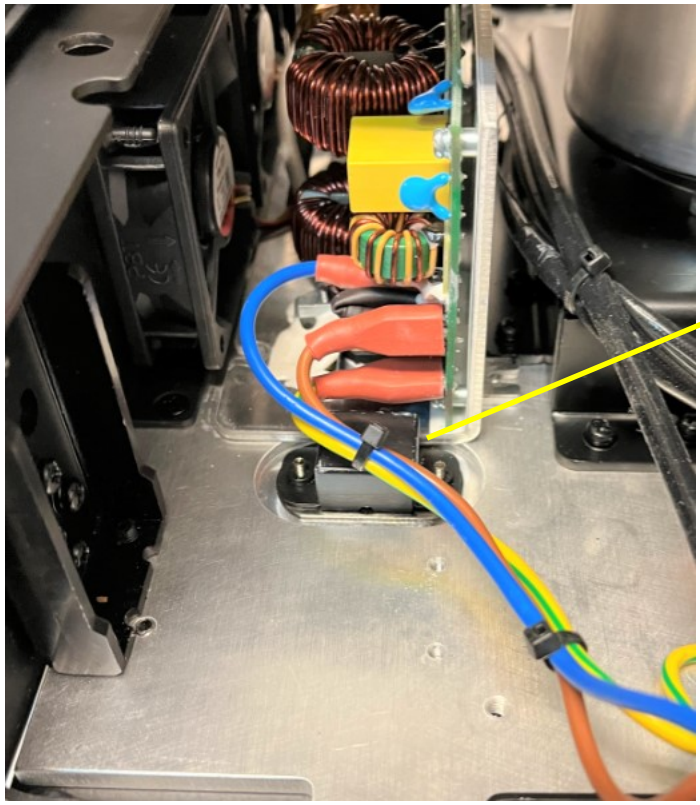
SolaHybeam 3000

Removing the input power supply



SolaHybeam 3000

Removing the input power supply

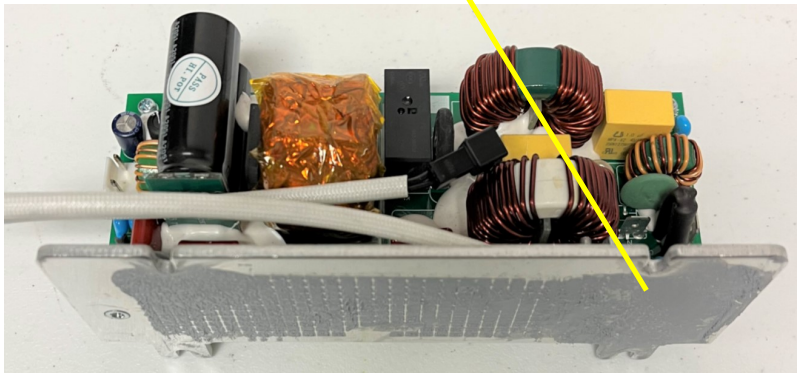


Mind the heatsink compound on the bottom of the power supply

Lift power supply above black housing and pull power supply outward

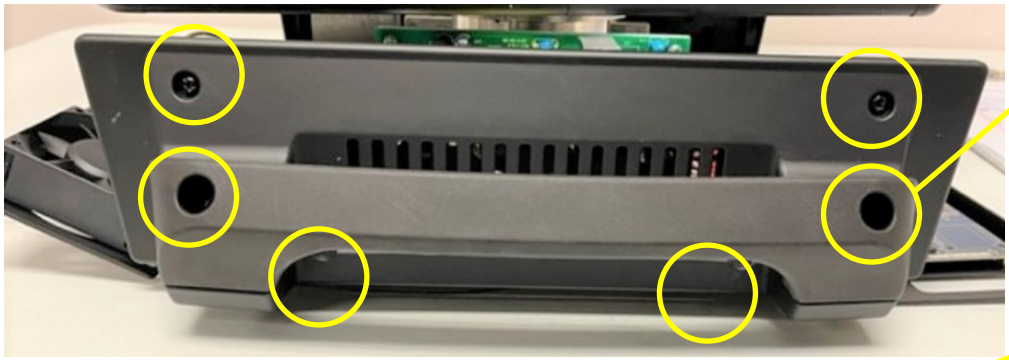
Disconnect input wiring and remove power supply.

Apply heatsink compound to bottom of new power supply before installing



SolaHybeam 3000

Removing the Output power supply

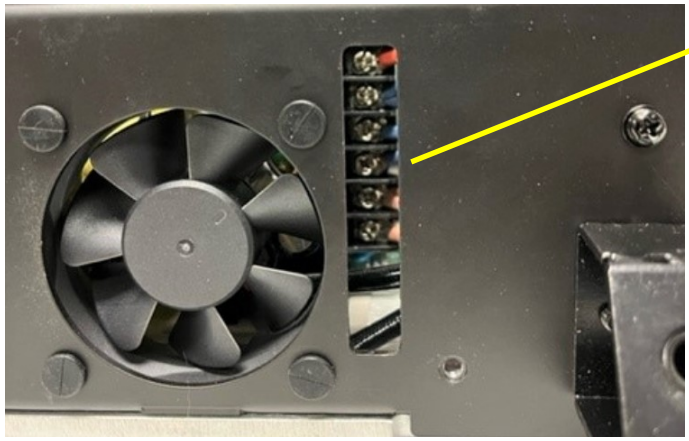


Remove 2x 6mm hex side handle screws

Remove 4x Phillips head side cover screws

Take note of the wiring

Loosen terminal block screws and remove wiring



28VDC +

28VDC -

48VDC -

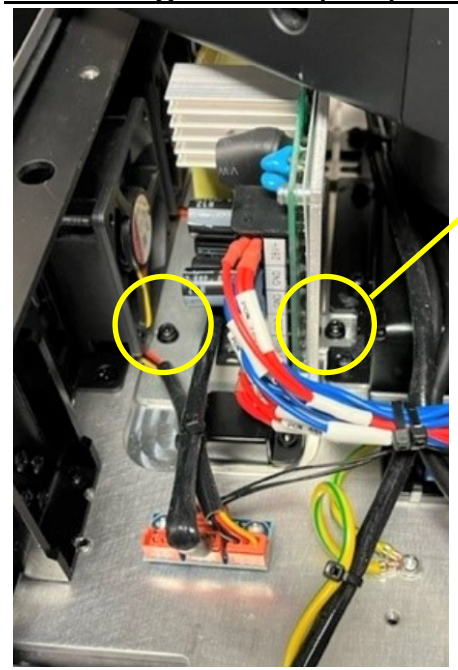
48VDC -

48VDC +

48VDC +

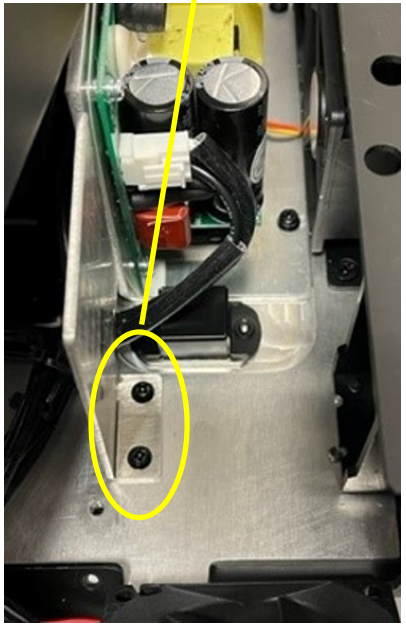
SolaHybeam 3000

Removing the Output power supply



Remove 4x Phillips head mounting screws

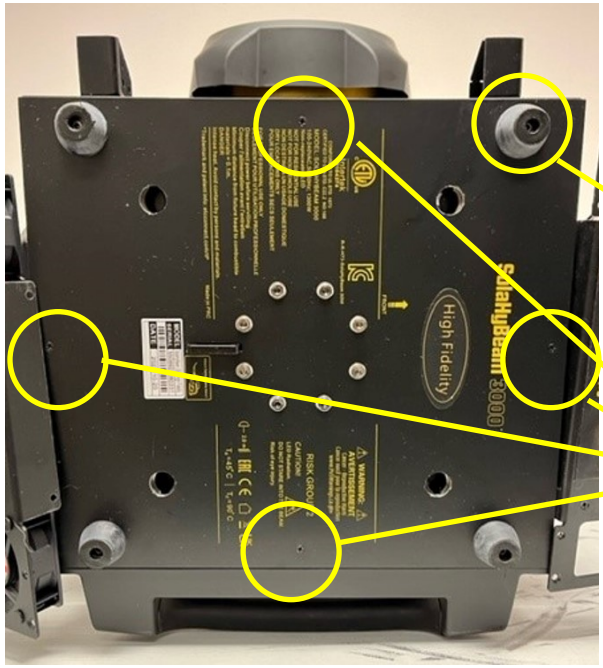
Remove 2x wire guard screws



Disconnect input harness

SolaHybeam 3000

Removing the Output power supply



Lock tilt horizontally and lock pan.

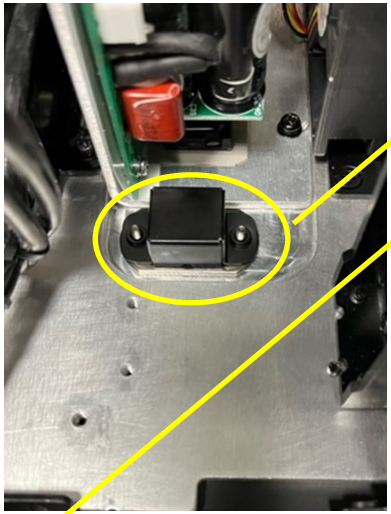
Tilt fixture and rest on the LED housing side to access bottom plate.

Remove 4x rubber feet using 3mm hex tool.

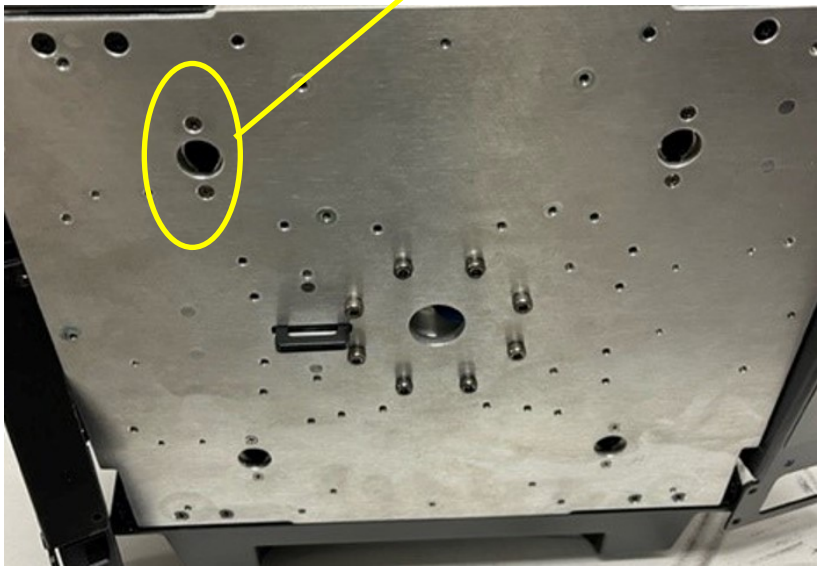
Remove 4x Phillips head screws to remove bottom cover plate.

SolaHybeam 3000

Removing the Output power supply

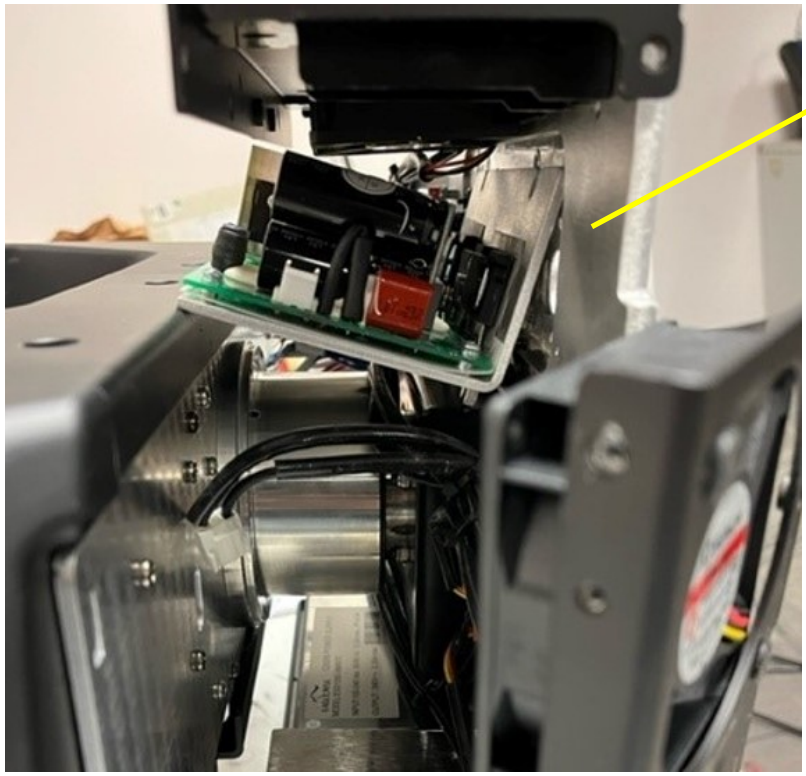


Remove the truss mount bracket socket on the wire guard side by removing 2x Phillips head screws on the base



SolaHybeam 3000

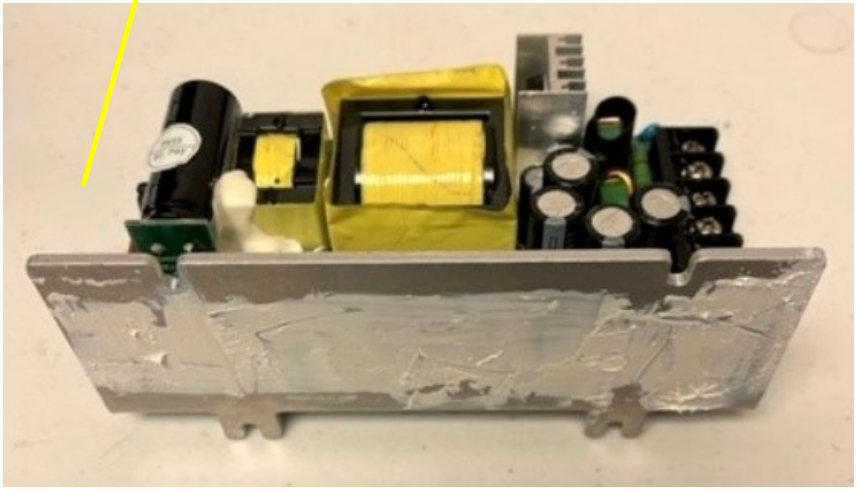
Removing the Output power supply



While the unit is laying down, angle the power supply and pull outward toward the wire guard side.

Mind the heatsink compound on the bottom of the power supply.

Apply fresh heatsink compound to the new power supply before installing.



SolaHybeam 3000

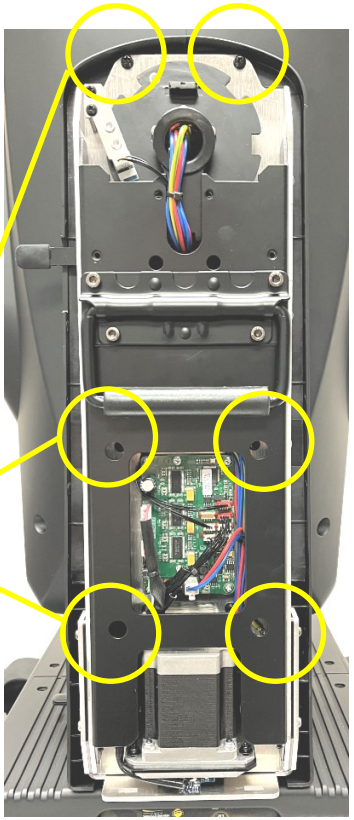
Access yoke components

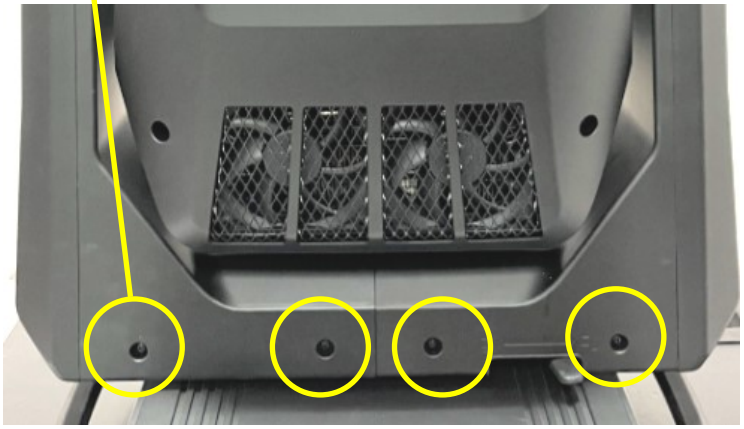
Remove 2x Phillips head screws on each yoke arm cover

Pull outward from top and lift up to remove cover

Remove 6x internal Phillips head screws on both sides

Remove 4x Phillips head screws on both sides. All 4 yoke covers can not be removed.





SolaHybeam 3000

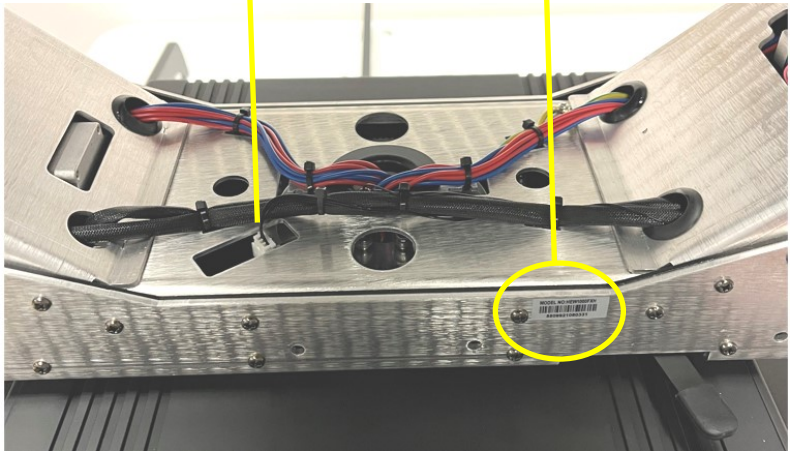
Access yoke components

Zoom Lens

Tilt Encoder Sensor

Hidden Serial Number

Pan Homing Sensor



SolaHybeam 3000

Access head components

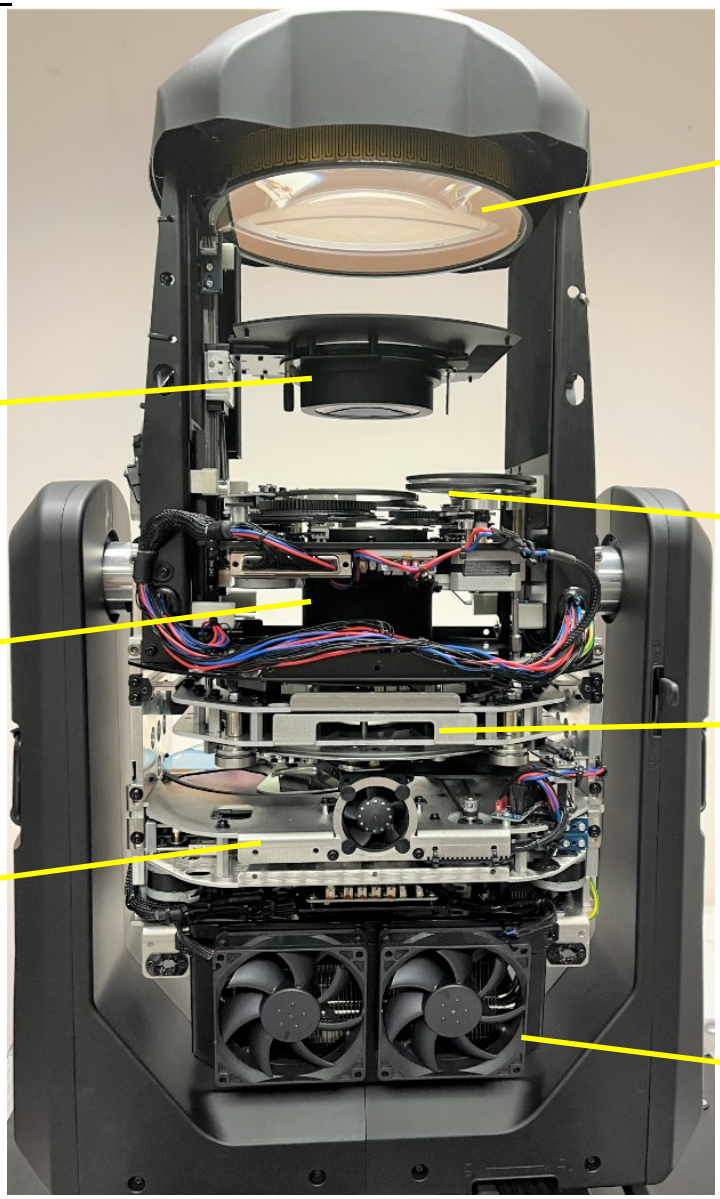
Lock pan and tilt

Loosen 2x 1/4 screws on each head cover using a Phillips head screw driver

Unhook safety cable and remove covers

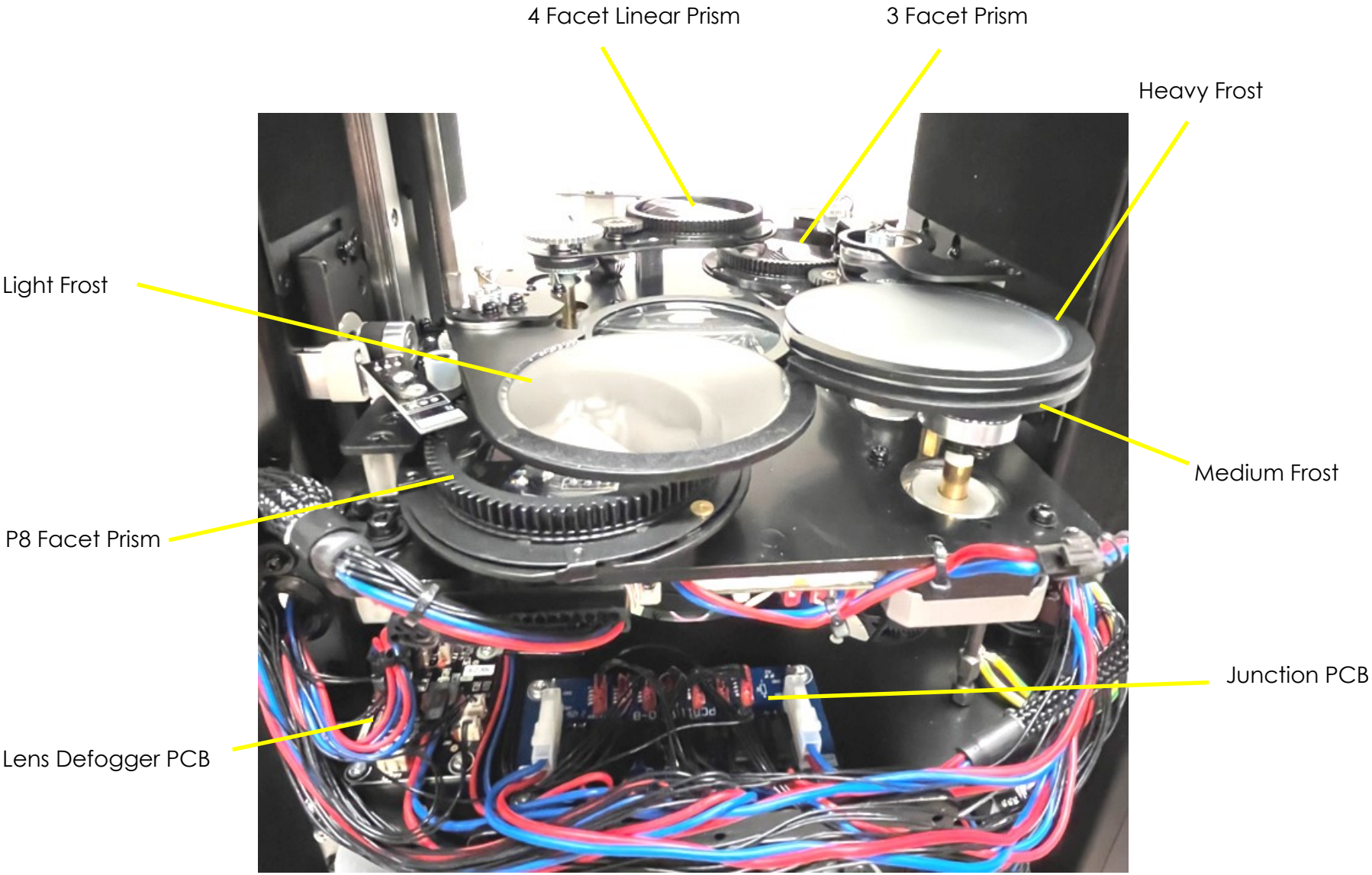
SolaHybeam 3000

Access head components



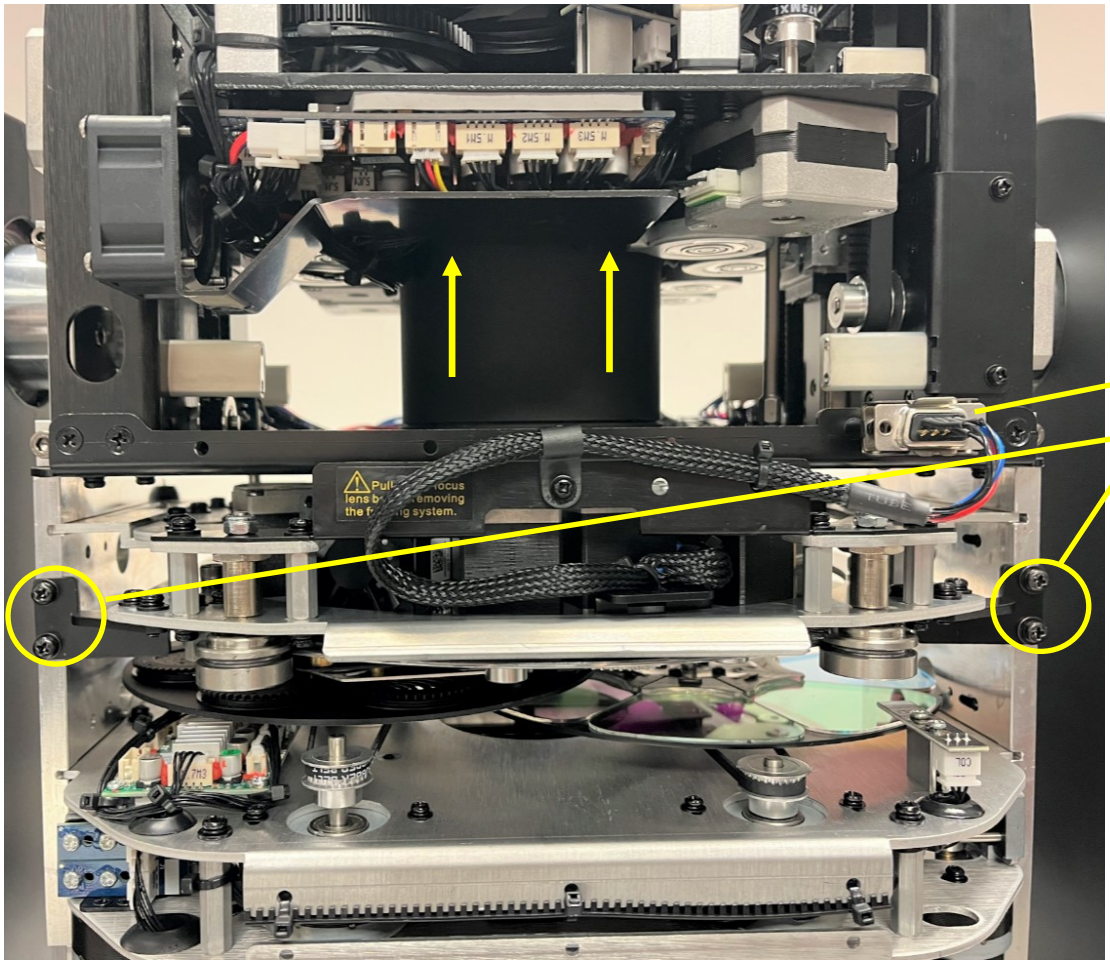
SolaHybeam 3000

Head components



SolaHybeam 3000

Remove Framing Module



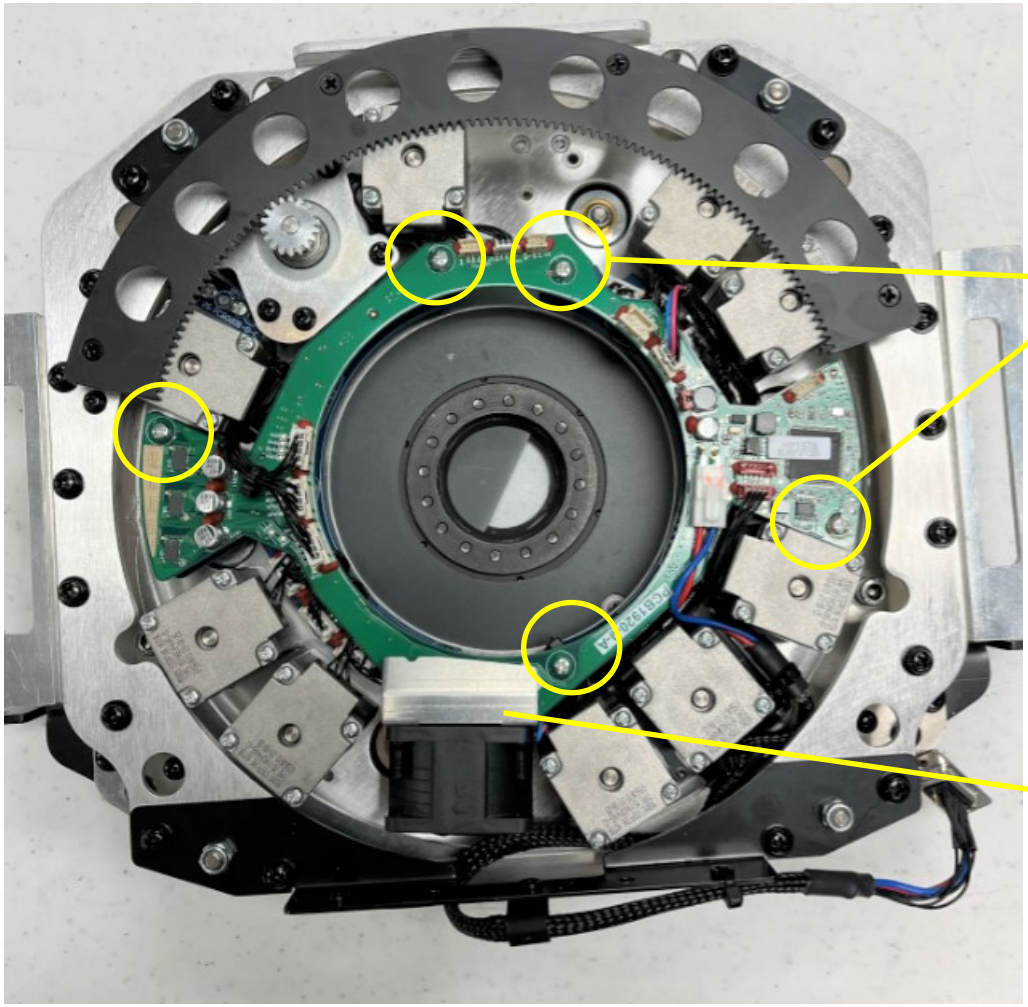
Disconnect harness

Remove 4x Phillips head screws

Push focus lens forward and pull out framing module

SolaHybeam 3000

Remove Framing Module

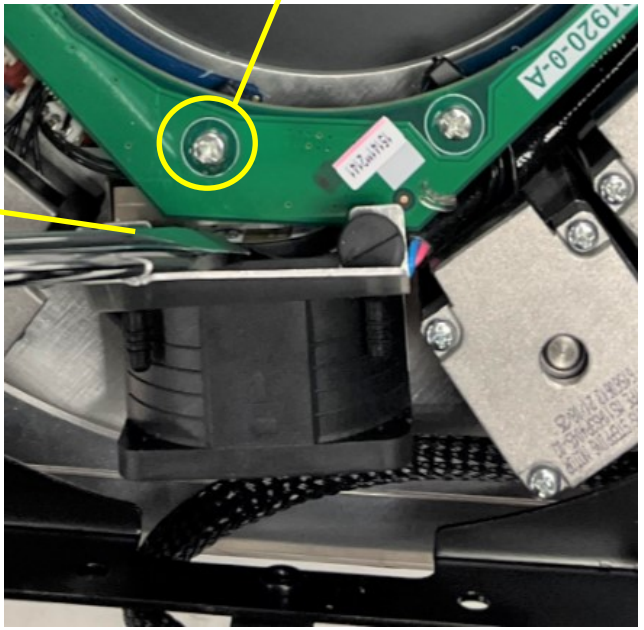


Disconnect PCB wiring

Remove 5x Phillips head screws

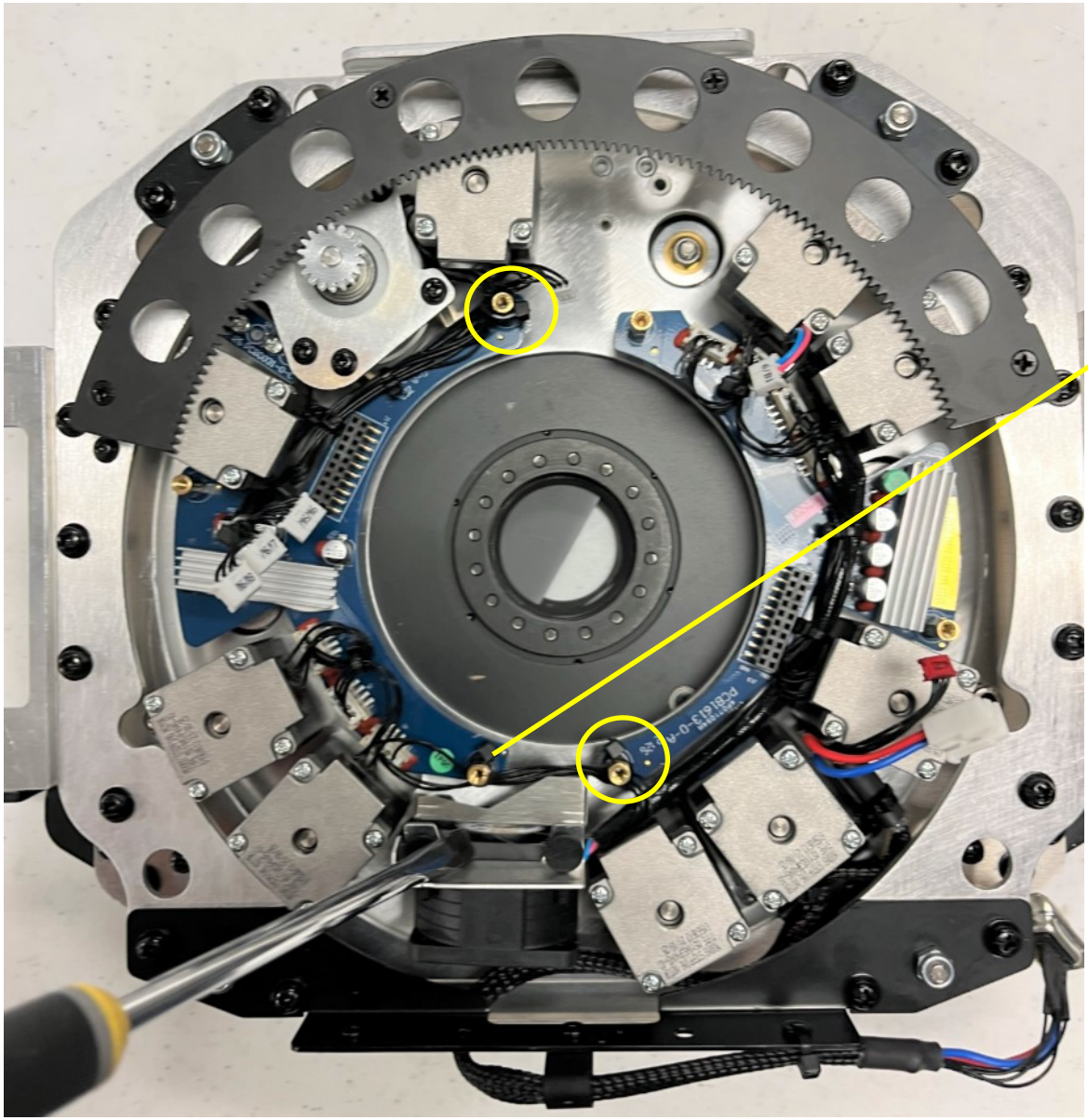
Remove 1x screw is hidden under the fan ducting

Carefully remove PCB



SolaHybeam 3000

Remove Framing Module



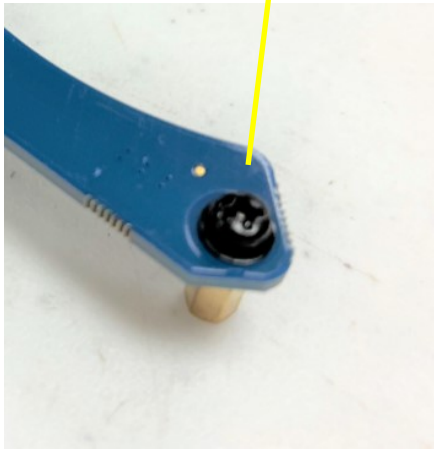
Disconnect PCB wiring

Remove 3x standoffs per PCB using 5mm nut driver.

One standoff is hidden under fan ducting

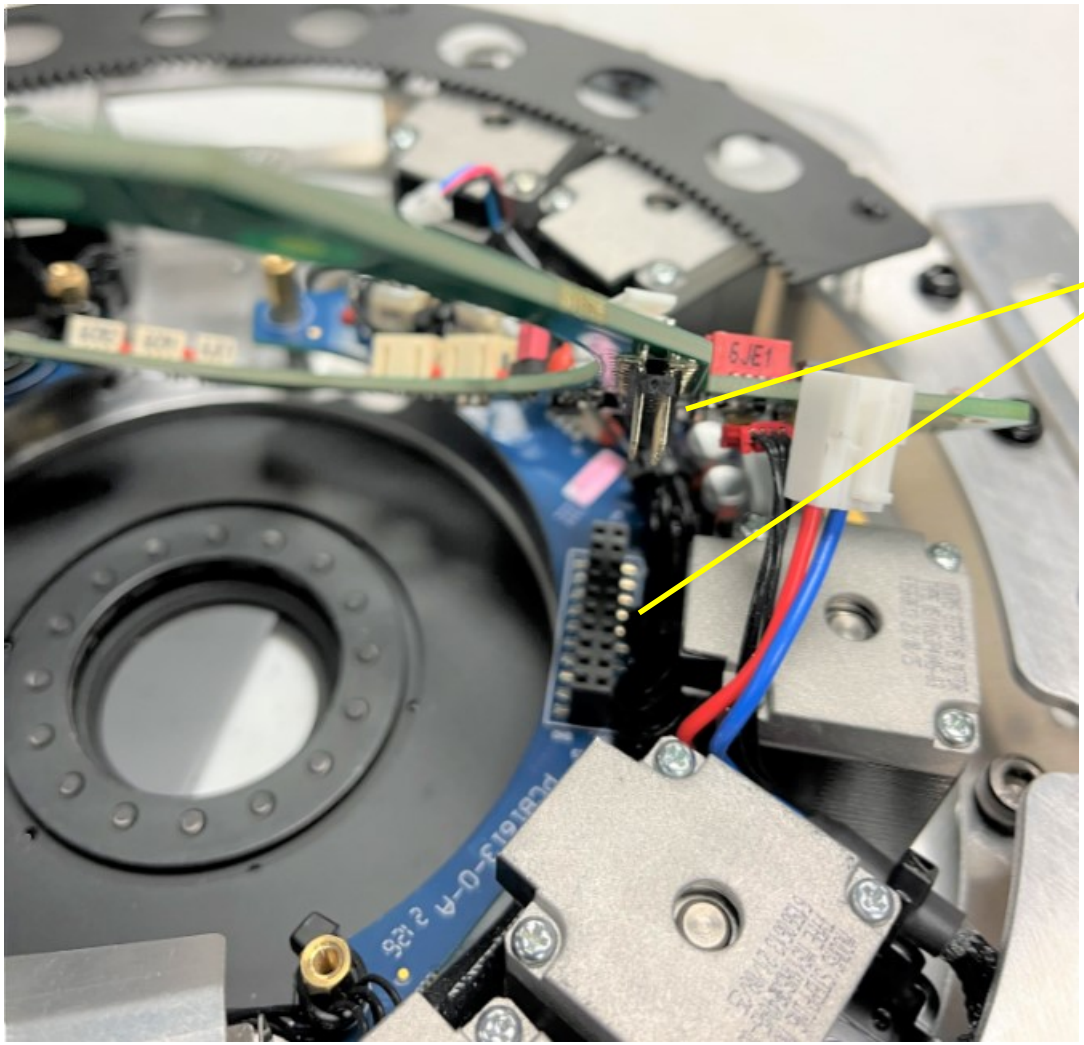
The two circled standoffs are removed after the PCB has been removed. There is a screw on the bottom of the PCB

Carefully remove PCB



SolaHybeam 3000

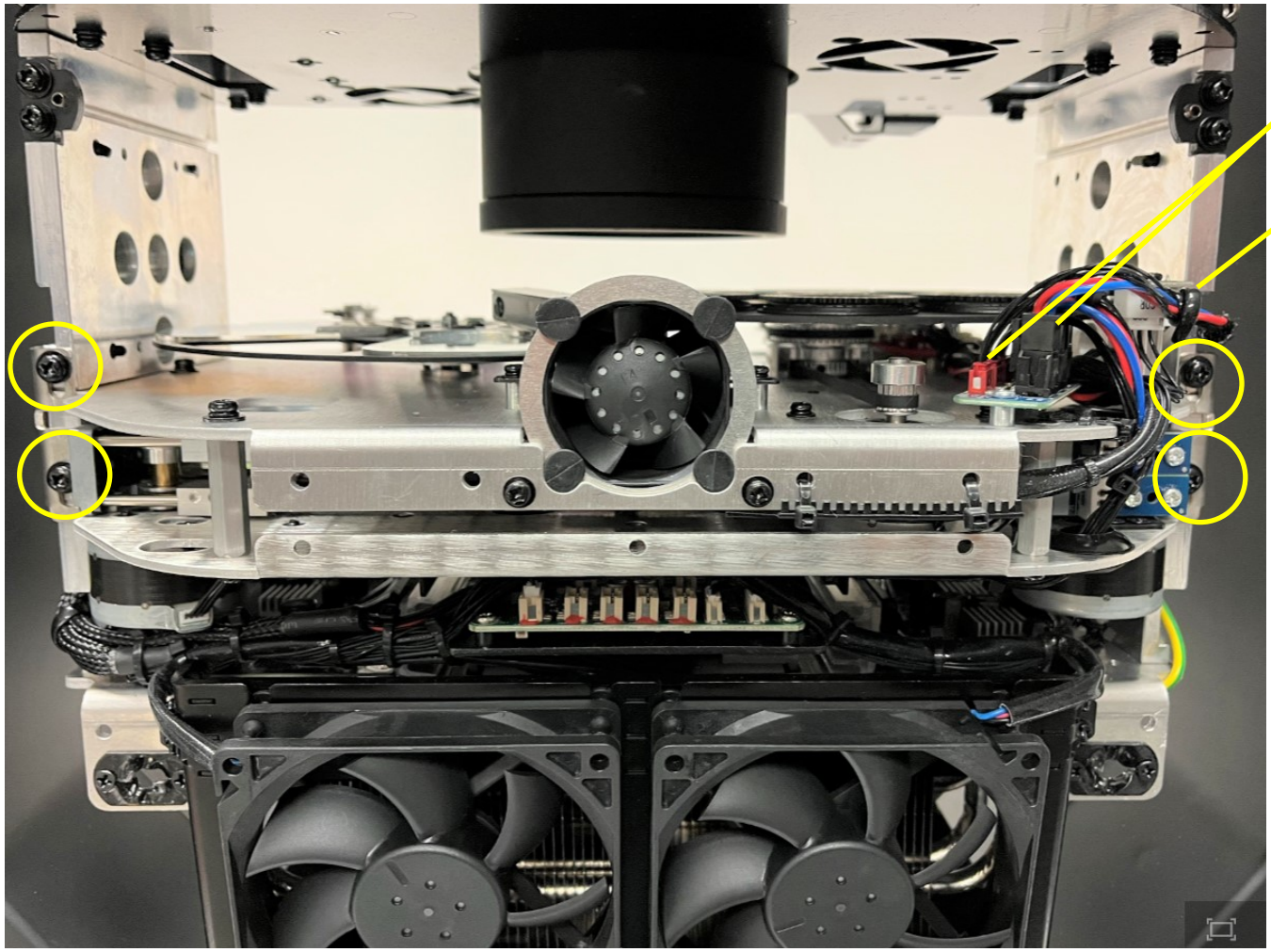
Installing Framing Module



When installing the new PCB ensure that the connectors lineup and insert into the connectors on the bottom PCB

SolaHybeam 3000

Removing Color/Gobo Module



Unplug 2 connectors

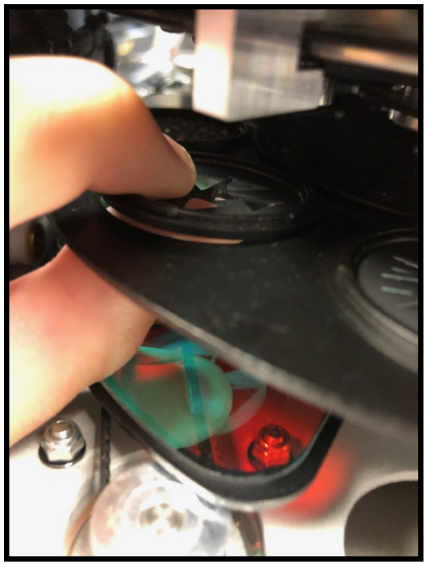
Loosen harness guide

Remove 4x Phillips head screws

Carefully remove module

SolaHybeam 3000

Replacing Gobos

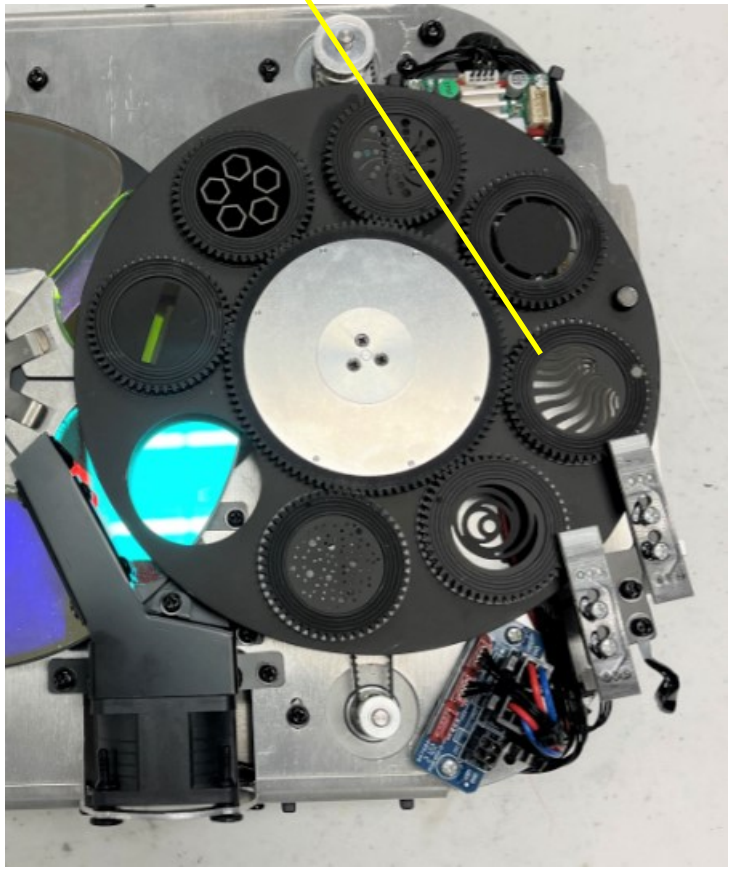


To remove the rotating gobos from the wheel removing the module is not required

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

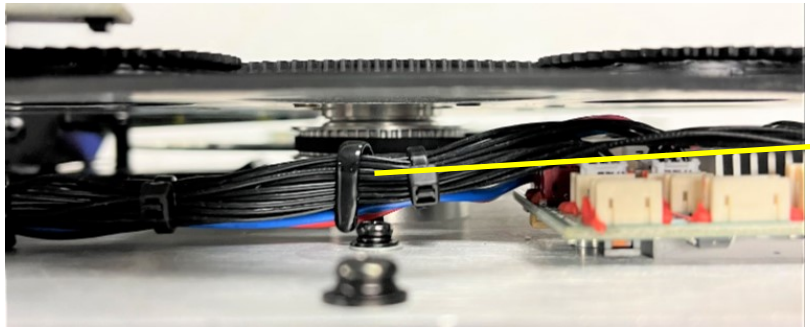
And slide the holder out towards you

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



SolaHybeam 3000

Removing Gobo PCB



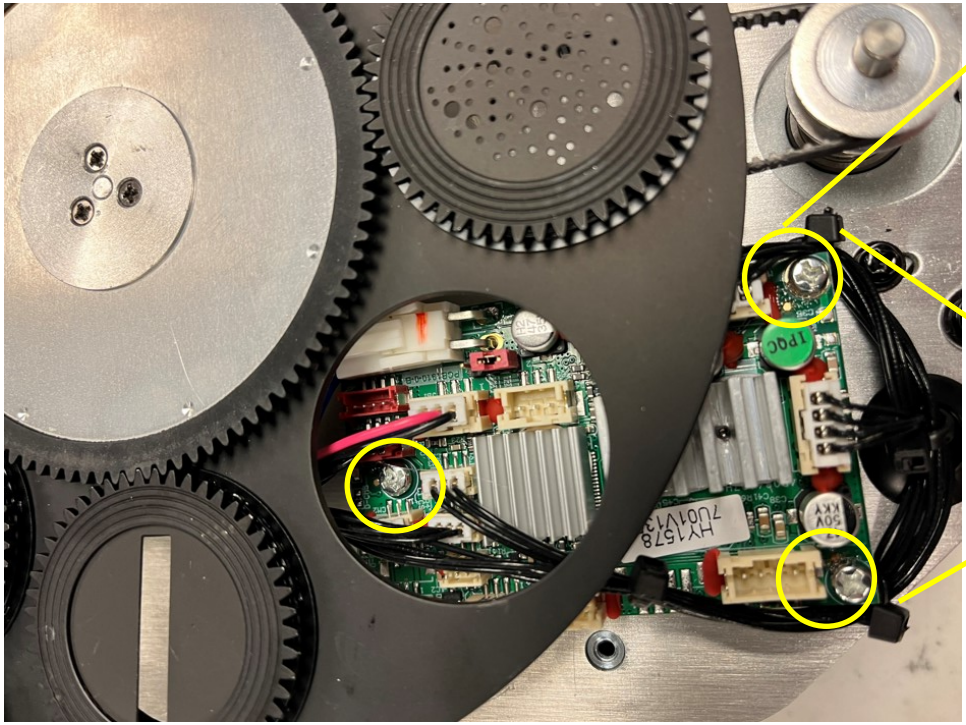
Loosen bendable harness guide

Remove 3x Phillips head screws

Disconnect all wiring

Remove PCB.

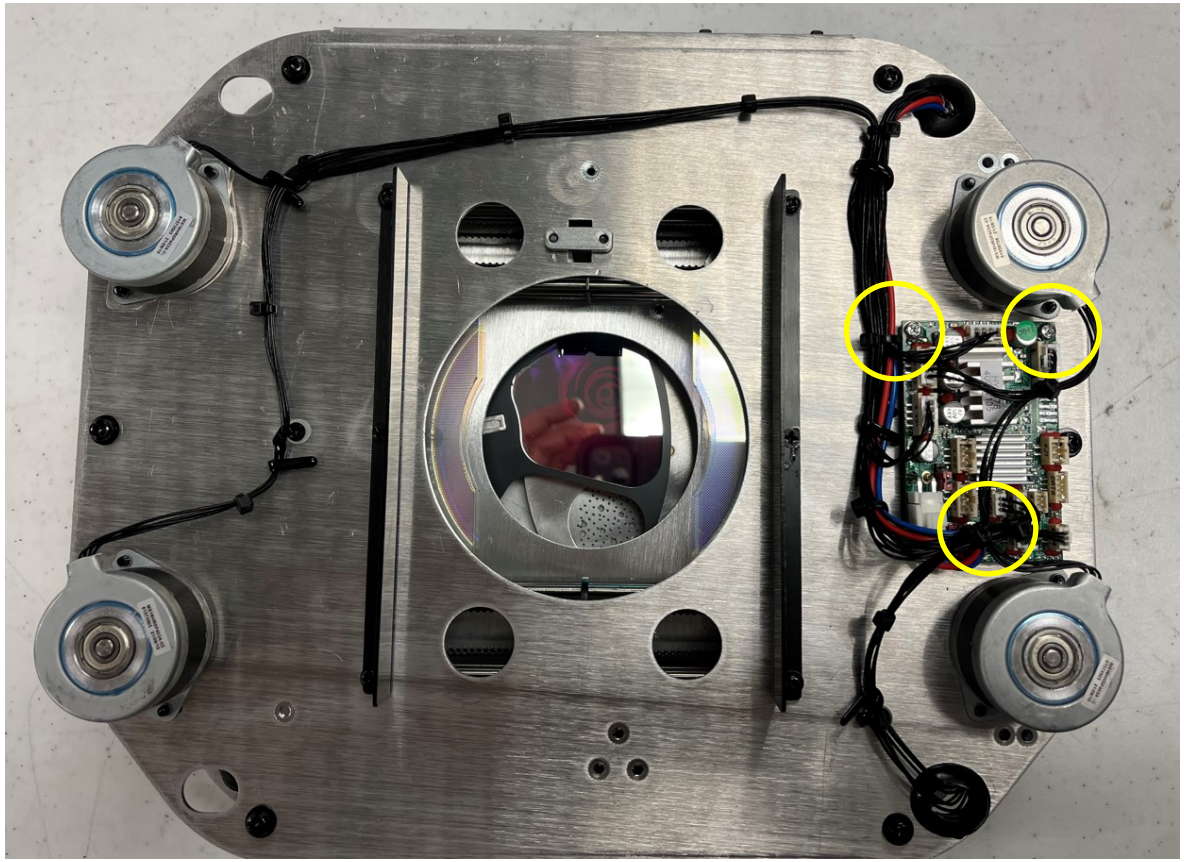
Use existing silicon pad on new PCB



Install 2 new wire ties if necessary after installing new PCB

SolaHybeam 3000

Removing Color Mix PCB



Remove 3x Phillips head screws

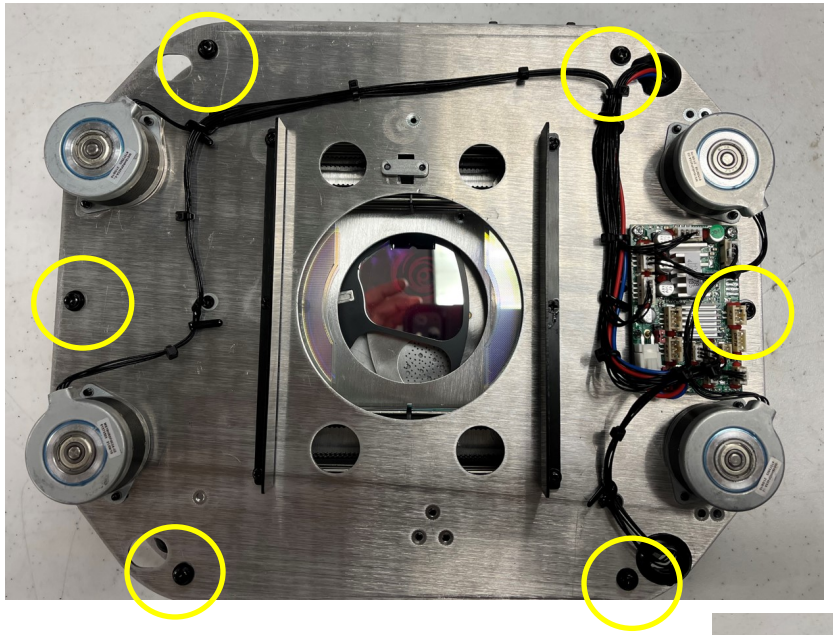
Disconnect all wiring

Remove PCB.

Use existing silicon pad on new PCB

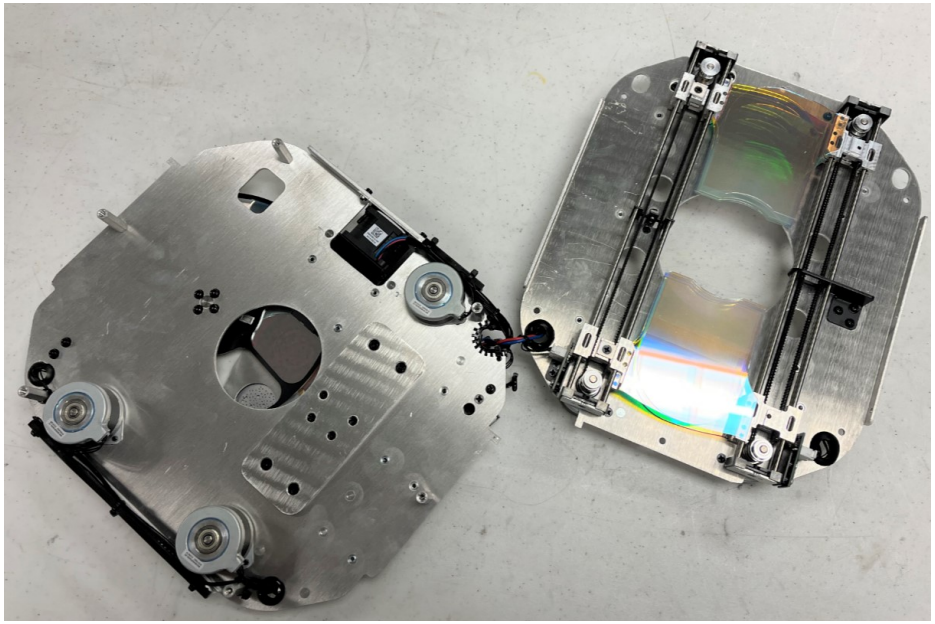
SolaHybeam 3000

Access Color Mix Flags



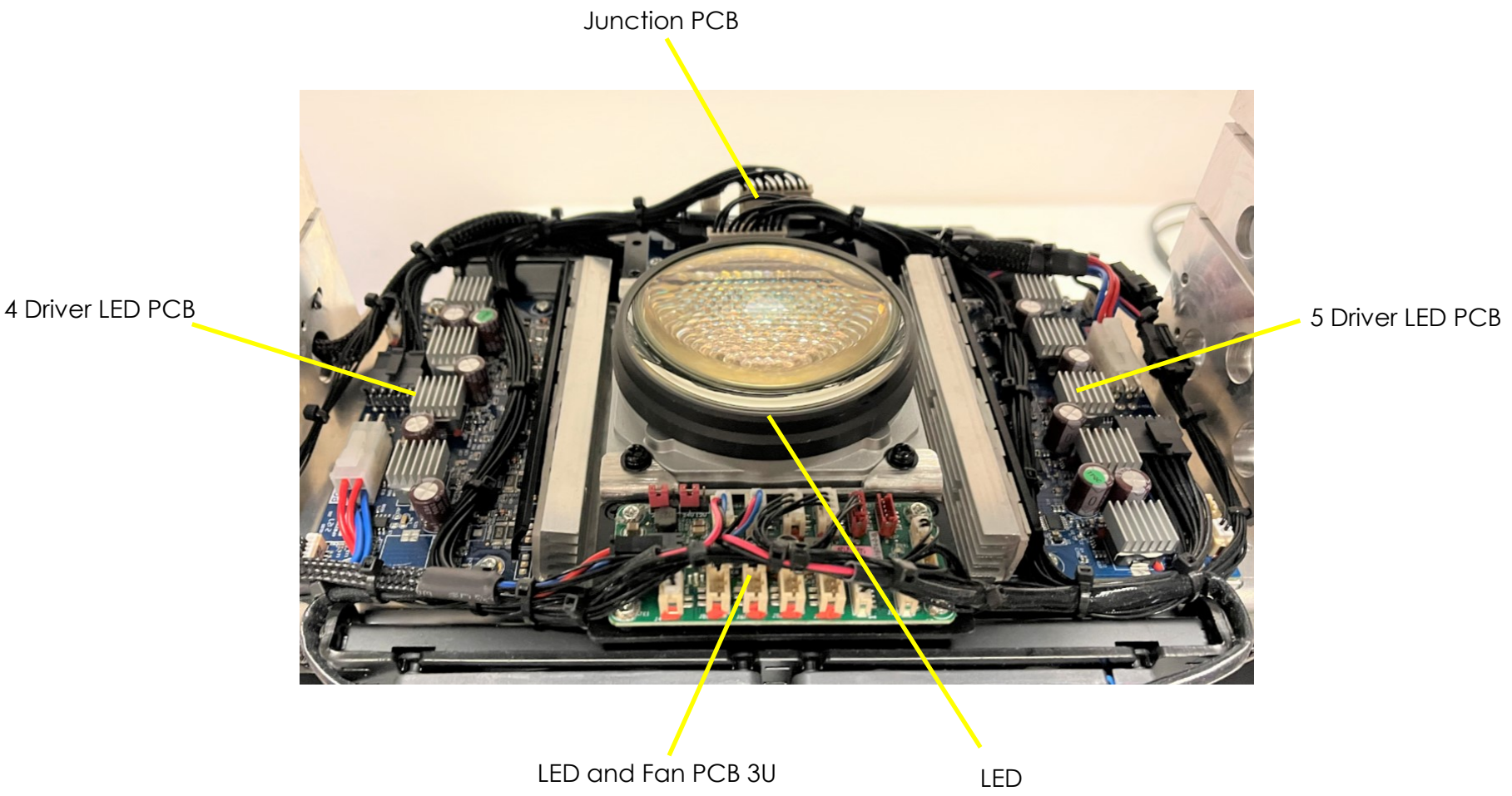
Remove 6x Phillips head screws

Carefully lift color mix module and lay it next to the gobo module as shown



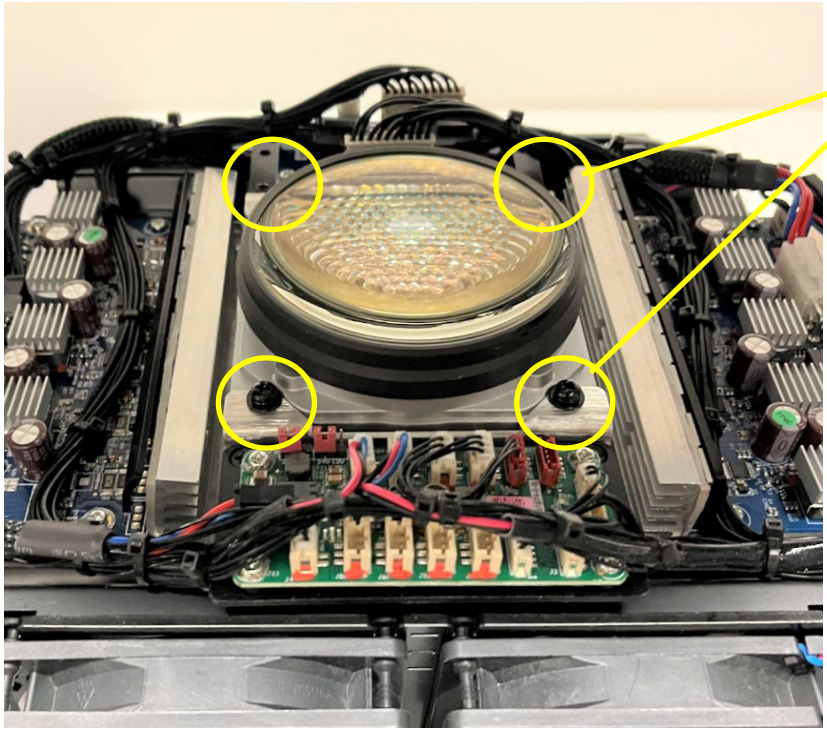
SolaHybeam 3000

Light Engine Components



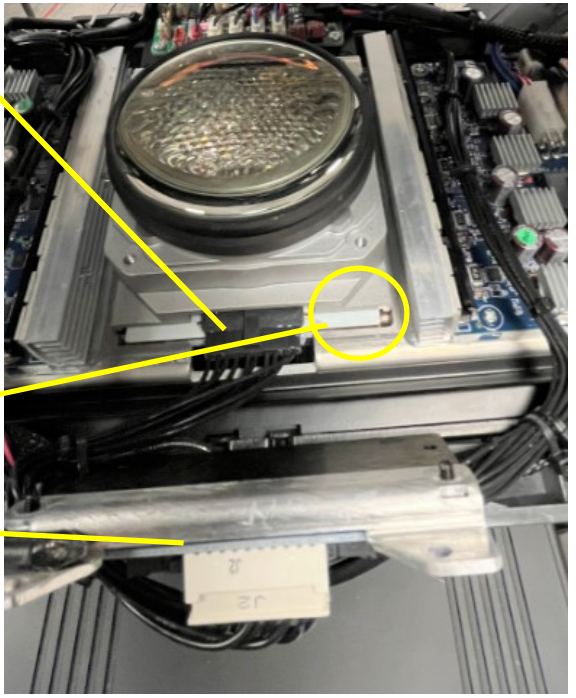
SolaHybeam 3000

Replacing the Light Engine



Remove 4x Phillips head screws

Disconnect LED harnesses on both sides.



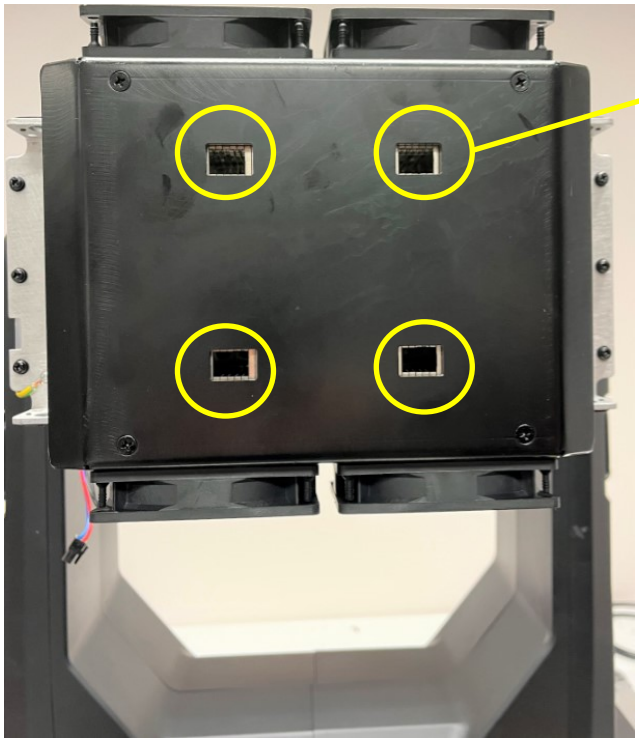
Take note of the connector labels listed on both sides of the light engine.

J2 is on the junction PCB side.

J1 is on the LED/Fan control PCB side

SolaHybeam 3000

Replacing the Light Engine



Remove 4x Phillips head screws through the heat sink access holes.

The light engine is now free and can be removed.

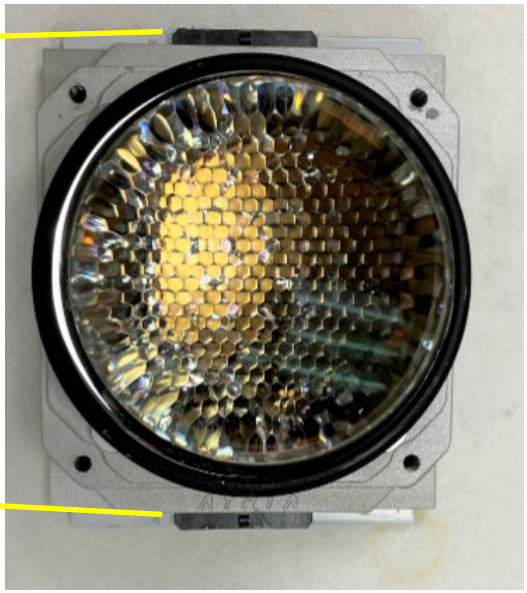
Clean off the remaining old heatsink compound on fixture.

Apply fresh heatsink compound to new light engine before installing.

Ensure connectors are oriented correctly before installing

J2

J1



SolaHybeam 3000

PCB Software Identifiers

PCB Software ID	Controls
1U	Display
2U	Pan, Tilt
3U	LED and Fan Control
4U	Color Mixing
5U	Focus, Frost, Prism, Zoom
6U	Framing and Iris
7U	Gobos and Color Wheel
8U	Prism Rotate