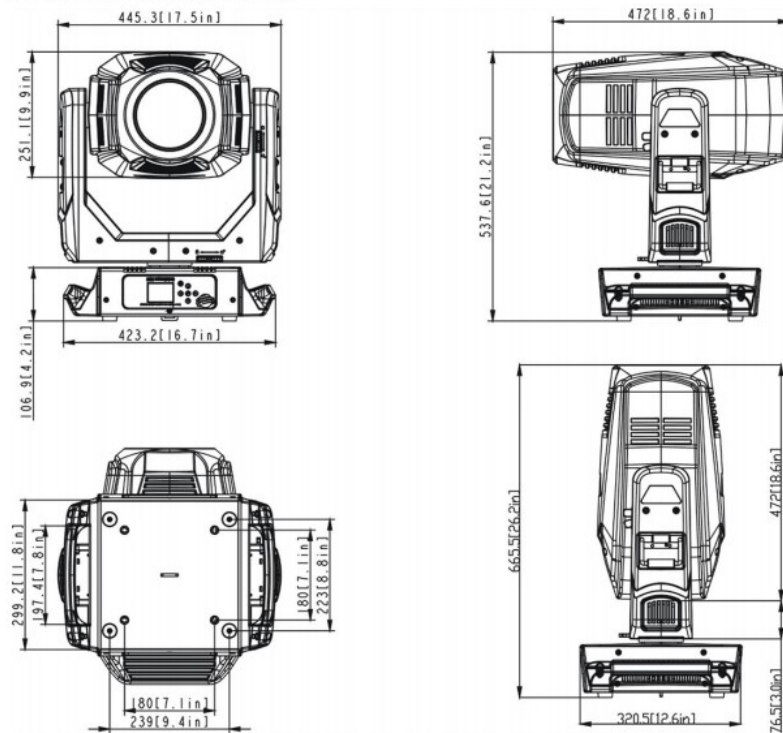




HIGH END SYSTEMS

Dimensions shown are listed as mm [in].



SolaFrame 750



SolaFrame 750

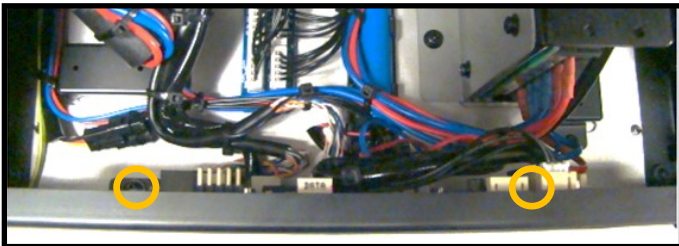
Accessing the Electronics



Remove 5X Phillips head screws on each cover



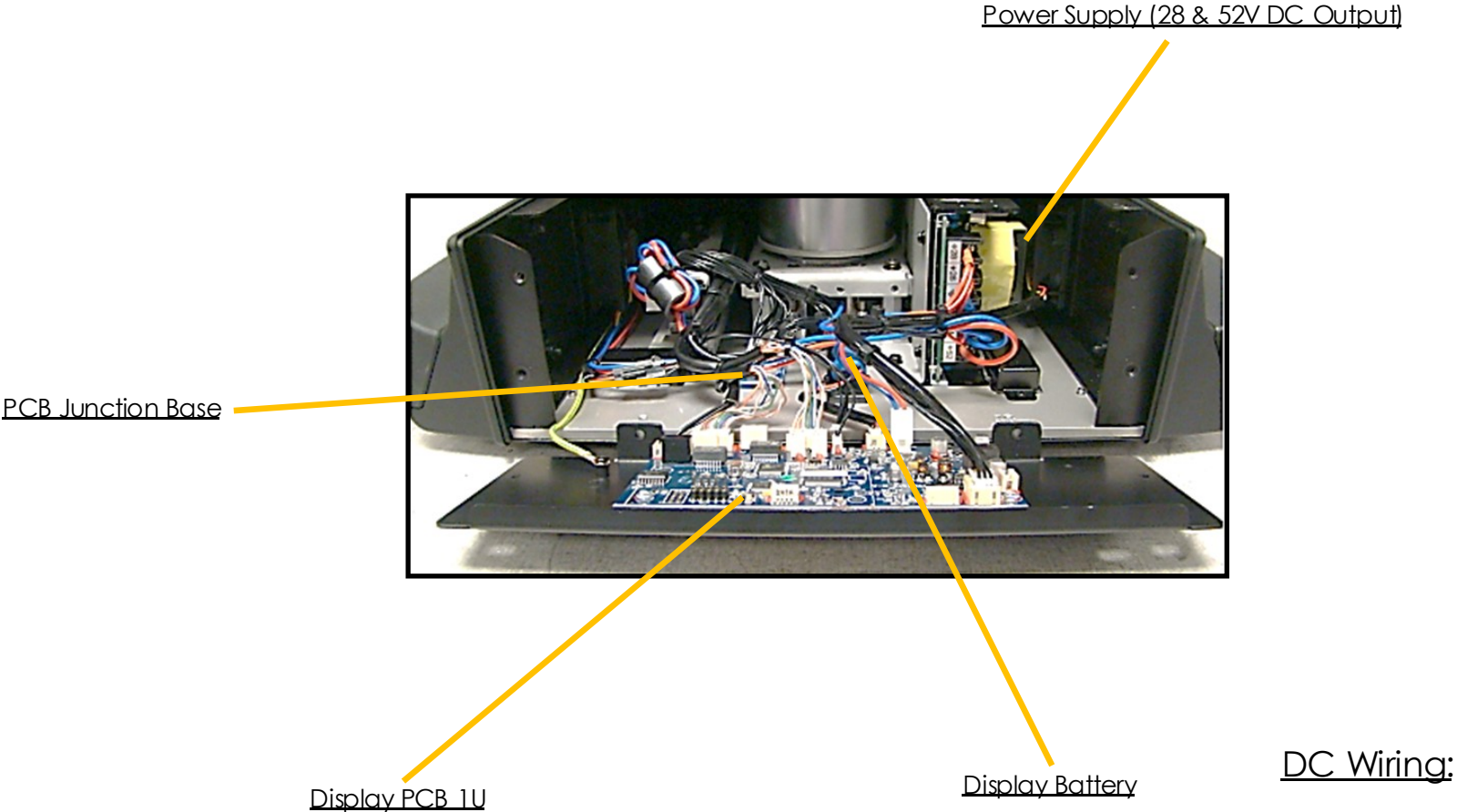
Remove 2X Phillips head screws on the front and rear panels



Remove 2X inner Phillips head screws on front and rear panels

SolaFrame 750

Front Panel Components



DC Wiring:

Blue is -

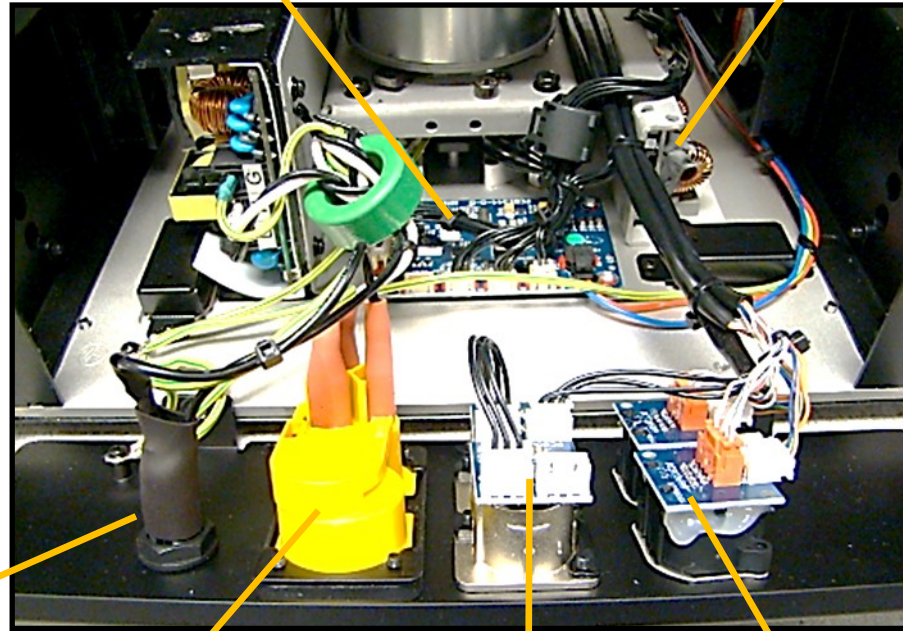
Red is +

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Rear Panel Components

LED Control PCB

LED Distribution PCB



Mains Fuse (250V 8A 5X20 Slow Blow Ceramic)

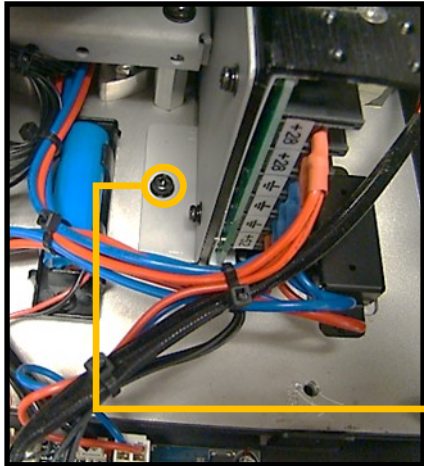
TRU1 Connectors

XLR Connectors

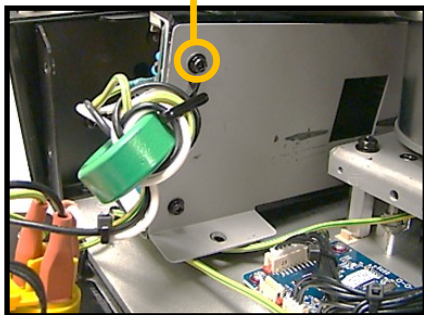
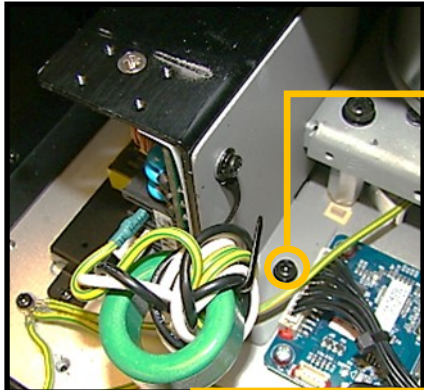
CAT5 Connectors

SolaFrame 750

How to Remove the Power Supply



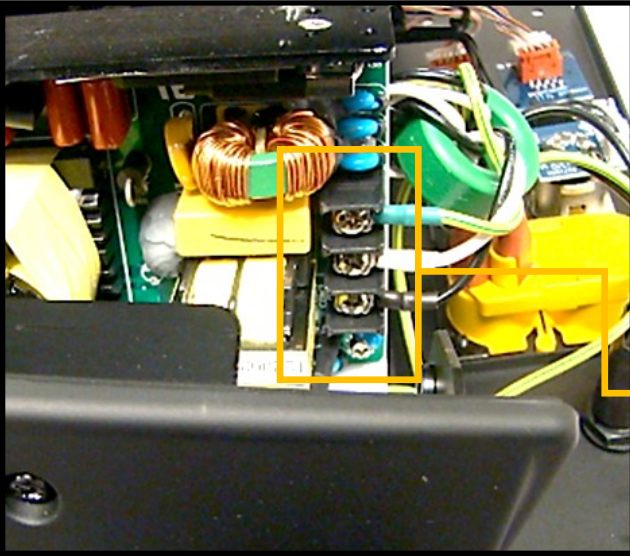
Remove 2X Phillips head mounting screws next to the display battery and next to the LED Control PCB



Lift up and pull PSU forward to remove AC strain relief

SolaFrame 750

How to Remove the Power Supply

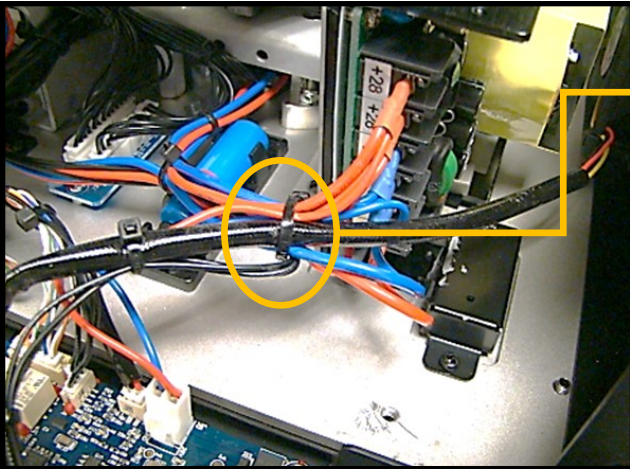


Loosen 3X silver Philips screws to disconnect input wiring

Green: Ground

White: Neutral

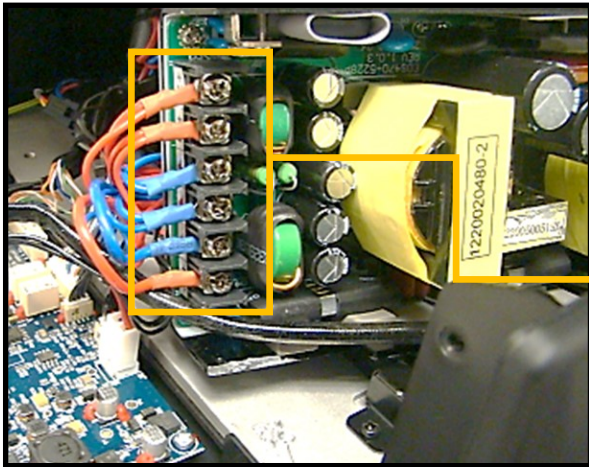
Black: Live



Remove/Cut tie wrap on output side of the power supply

SolaFrame 750

How to Remove the Power Supply



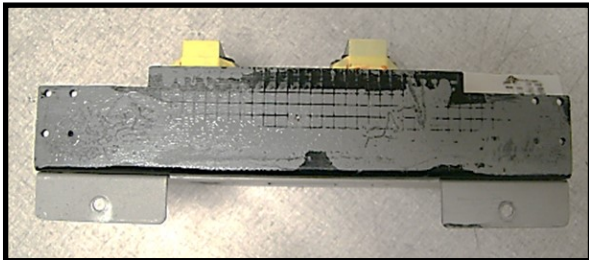
Loosen 6X silver Philips screws to disconnect output wiring

Red Double Wire: 28VDC Positive (each)

Red Single Wire: 52VDC Positive (each)

Blue Double Wire: 28VDC Negative (each)

Blue Single Wire: 52VDC Negative (each)



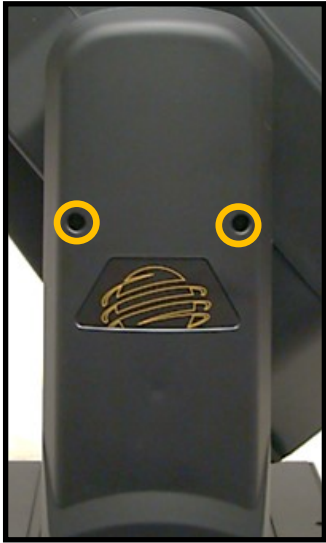
Remove power supply

Be sure to mind the heatsink compound on the bottom

Add heatsink compound to new power supply **before** installing

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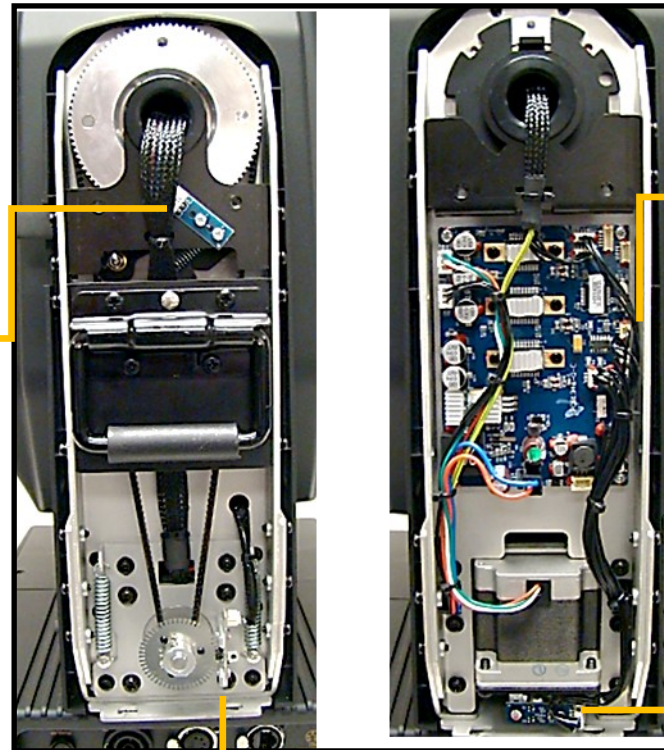
Access Yoke Components



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

Lock Side

Non-Lock



Pan/Tilt PCB 2U (handle removed)

Tilt Homing Sensor

Pan Encoder Sensor

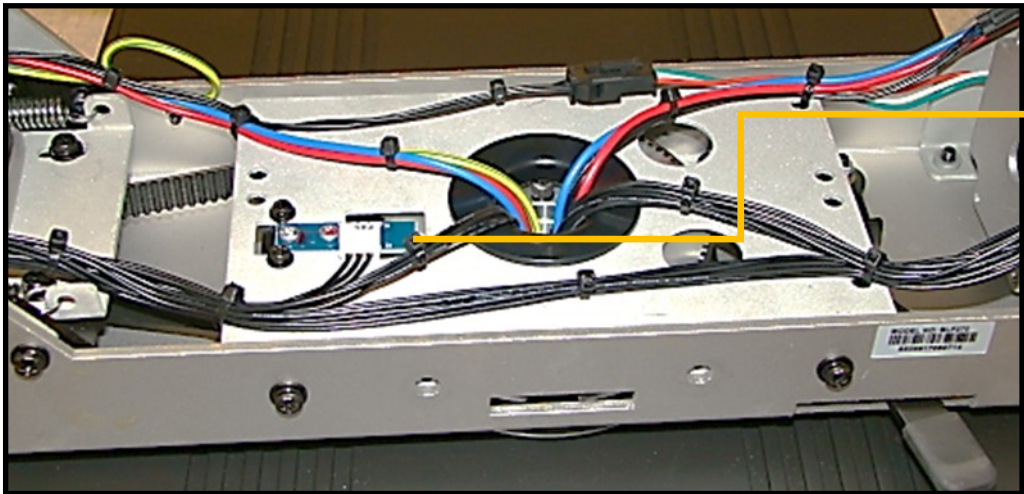
Tilt Encoder Sensor

SolaFrame 750

Access Yoke Components



Remove 2X inner yoke cover screws and 4X outer yoke cover screws on each side



Pan Homing Sensor

SolaFrame 750

Access Head Components



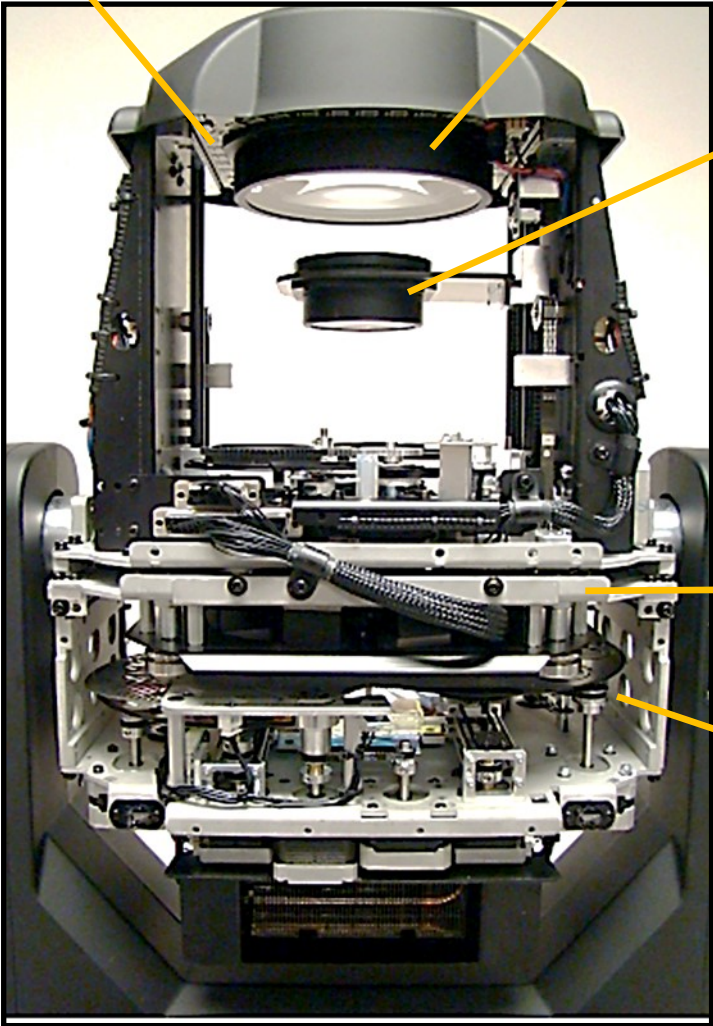
Loosen 2X captive 1/4 turn Philips head screws and unhook Safety Cable
on each side

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Access Head Components

PCB Lens Heater

Output Lens



Focus Lens

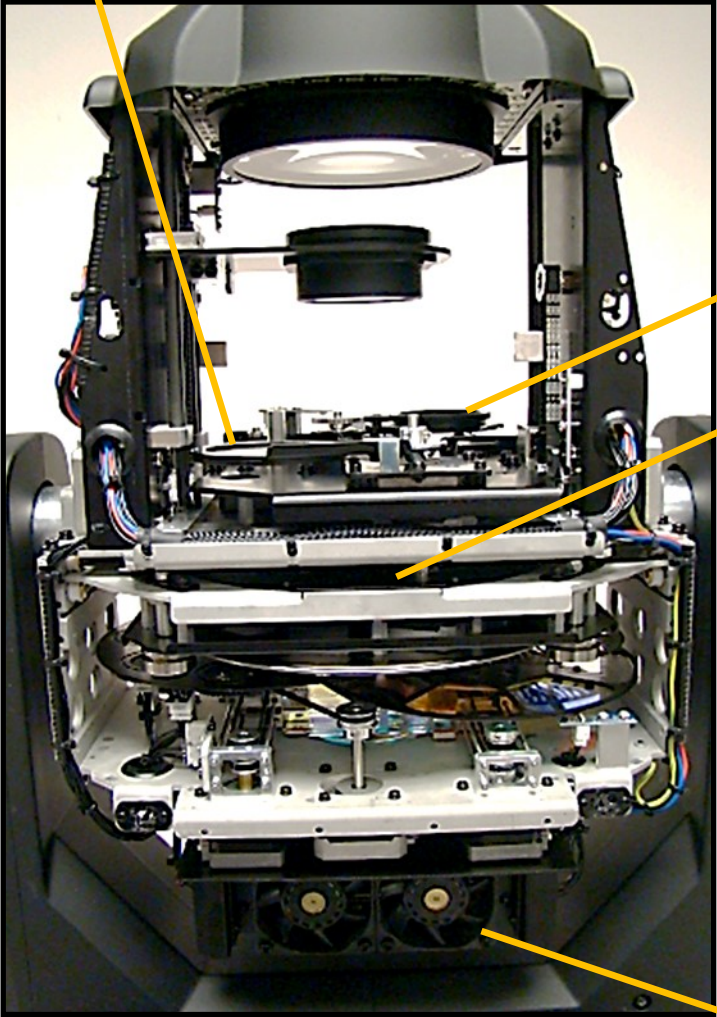
Framing Module

Color/Gobo/LED Module

SolaFrame 750

Access Head Components

Frost Assembly



Prism Assembly

Zoom Lens

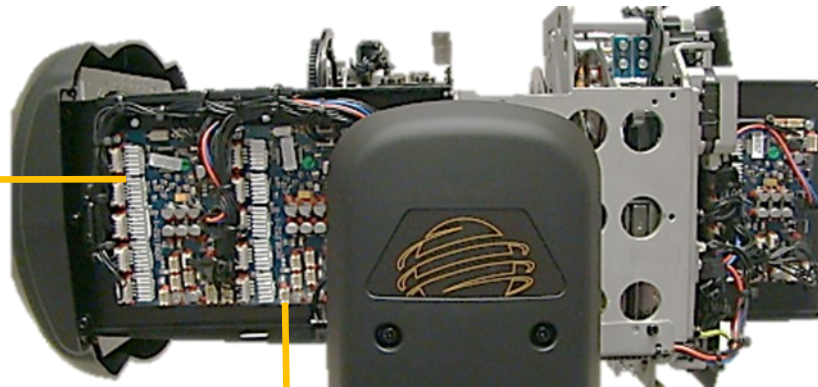
LED Fans

SolaFrame 750

Head Components

Frost Assembly

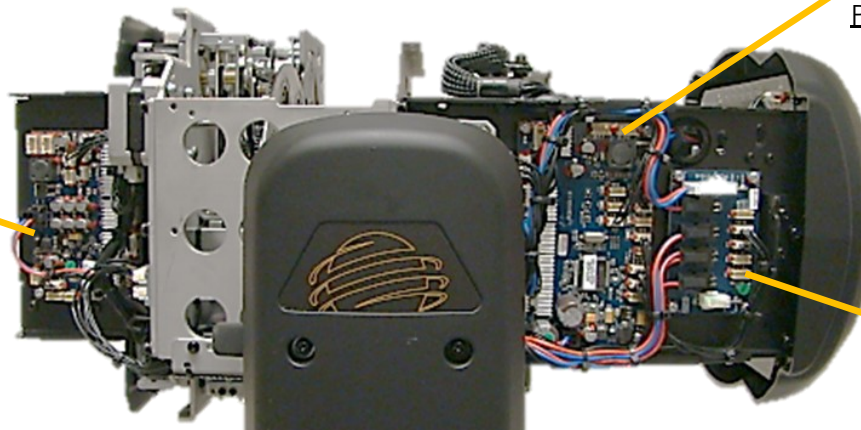
PCB 5U: Framing Blades 1 & 2, Framing Rotate



PCB 8U: Framing Blades 3 & 4, Iris

PCB 4U: Animation, Animation Rotate, Color Wheel, Gobo, Gobo Rotate

PCB 3U: Color Mix



PCB 6U: Focus, Frost, Prism, Prism Rotate

PCB 7U: LED Control

SolaFrame 750

Rotating Gobo Replacement



Replacing gobos can be done without removing the gobo module by just removing the head cover on the lock side of the fixture

To remove gobo from the wheel, push down and gently slide the gobo out towards you

The gobo holder with the homing magnet must remain in the same position on the rotating wheel in order to home properly

Quadrangles gobo holder contains the homing magnet for the SolaFrame 750

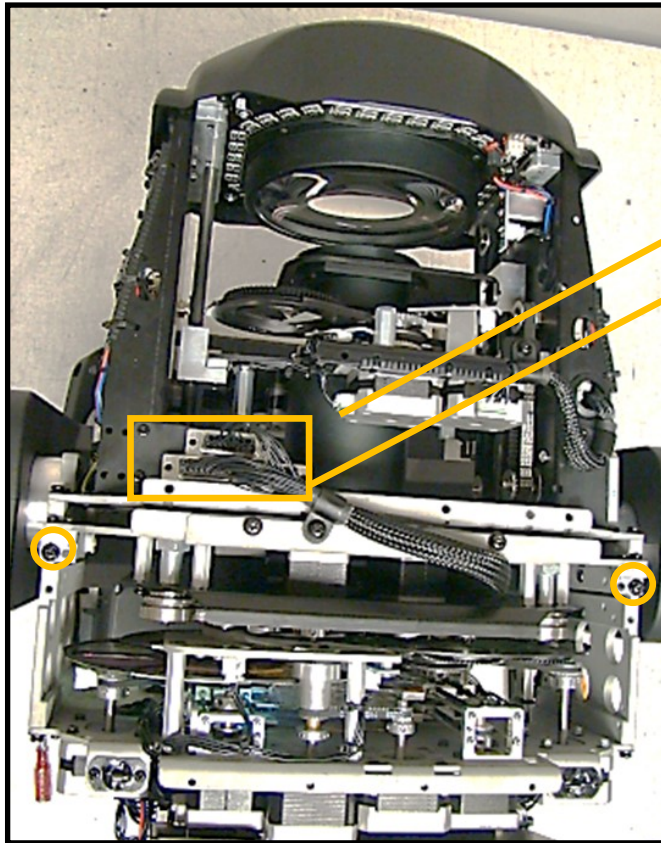


Once the holder is removed, unclip the metal tension spring that is holding the gobo in place
Be sure the black or coated side of the gobo is facing away from the LED Light Engine

Note: Only use Glass or Aluminum when having custom gobos created

SolaFrame 750

Removing Framing Module



With the covers removed, lock the head of the fixture horizontally

Push the zoom lens assembly forward

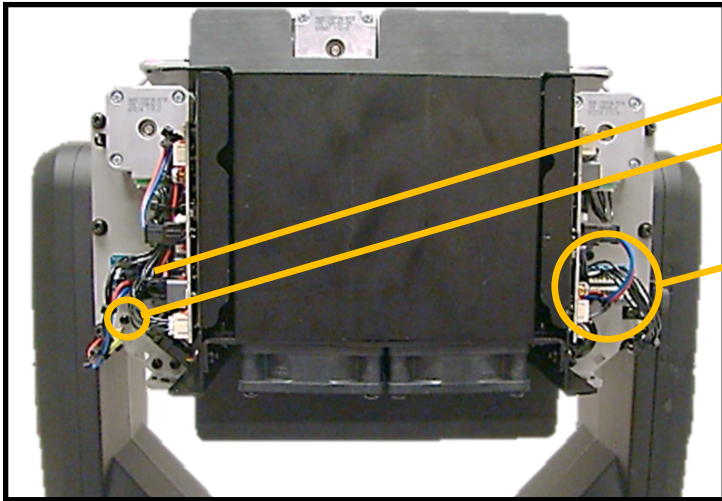
Disconnect 2 Sub harness connectors

Remove 2X Philips head screws

Carefully pull out module

SolaFrame 750

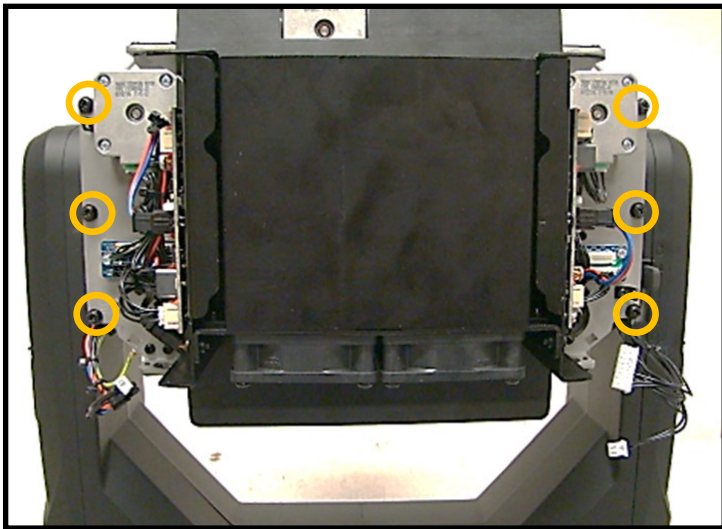
Removing Gobo/Color/LED Module



Disconnect first power and data wires

Remove Philips screw head to remove ground wire

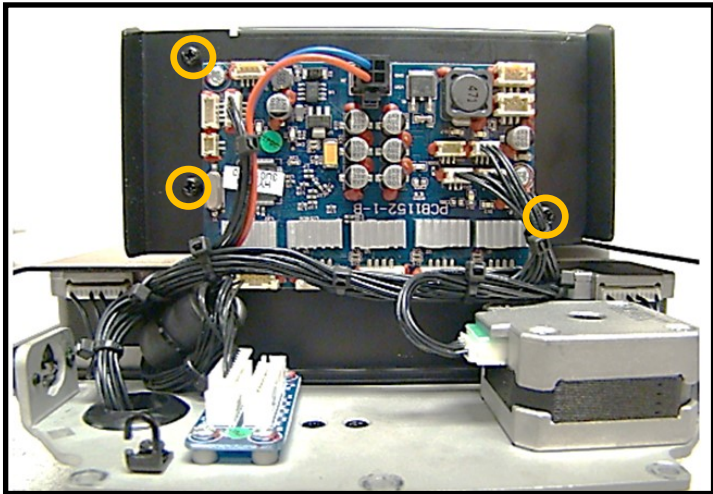
Disconnect top two LED wires



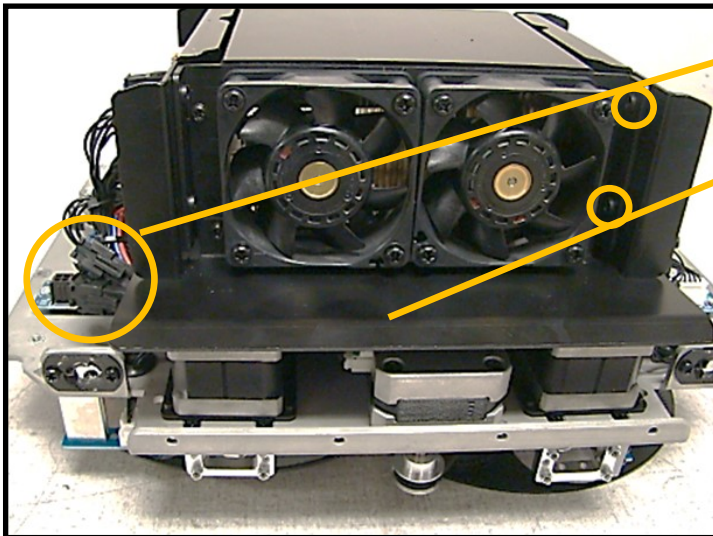
Remove 3X Philips head screws on each side while supporting the module

SolaFrame 750

Removing Light Engine



Remove 3X Philips head screws per side to remove fan plate housing



Disconnect 2 fan wires

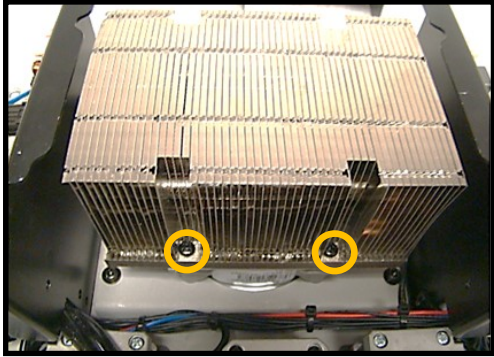
Remove 4X Philips head screws on the fan plate (2 per side)

Slide out ducting plate

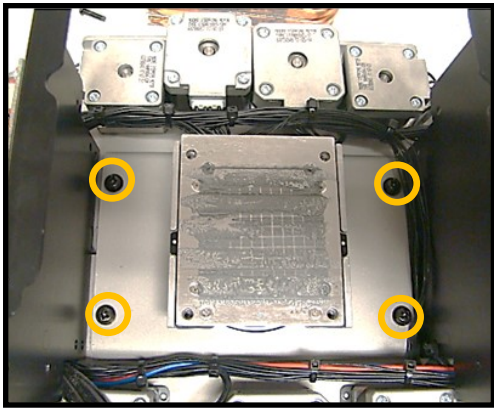
Remove fan plate and housing

SolaFrame 750

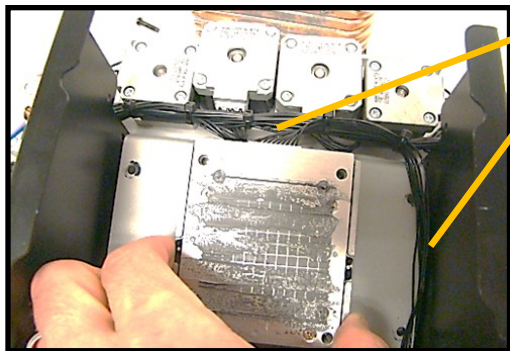
Removing Light Engine



Remove 2X Philips head screws per side to remove LED Heatsink
Remove 4X smaller screws



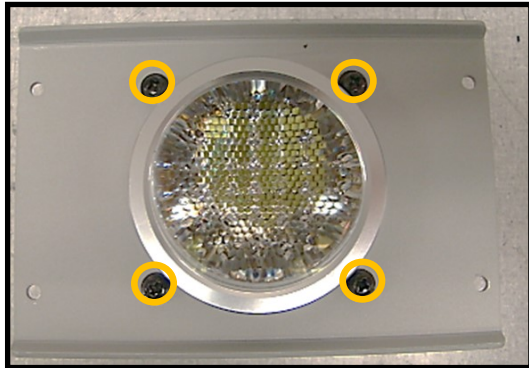
Remove 4X Philips head screws to remove LED mount



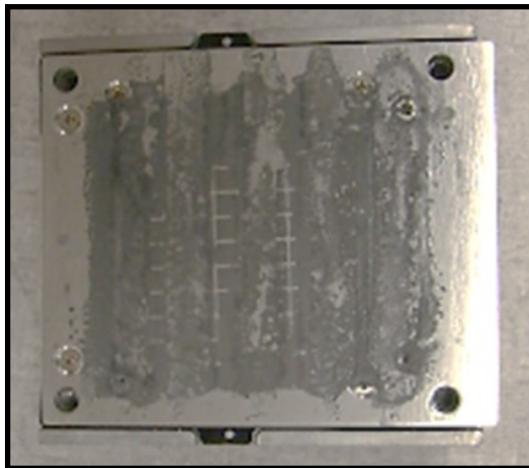
Slightly lift LED mount to disconnect LED harness
Carefully remove LED, mind the wire harness while removing

SolaFrame 750

Removing Light Engine



Remove 4X Philips head mounting screws



Apply heatsink compound to the new LED Light Engine before installing

SolaFrame 750

PCB Software Identifiers

PCB Software ID	Controls
1U	Display
2U	Pan, Tilt
3U	CMY, CTO
4U	Animation, Animation Rotate, Color Wheel, Gobo,
5U	Framing Blades 1 & 2
6U	Focus, Frost, Zoom, Prism,
7U	LED Control
8U	Framing Blades 3 & 4, Framing Rotate