



ASSEMBLY

Sigilight L14



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Contacting Geedop

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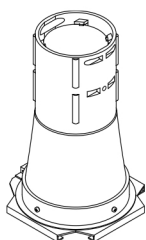
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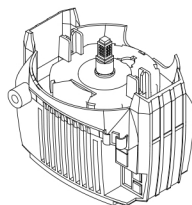


Components

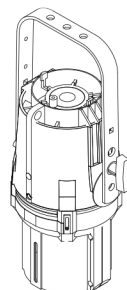
Included items



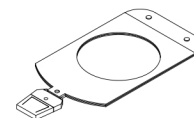
14° Lens (1)



LED Engine (1)



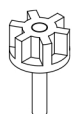
Body Fixture (1)



Glass Holder (1)



Threaded Post (1)



Knobs (3)

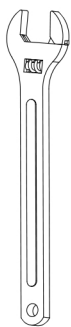


LED Engine Screw (1)

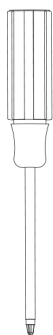


Retainer Screw (1)

Required items

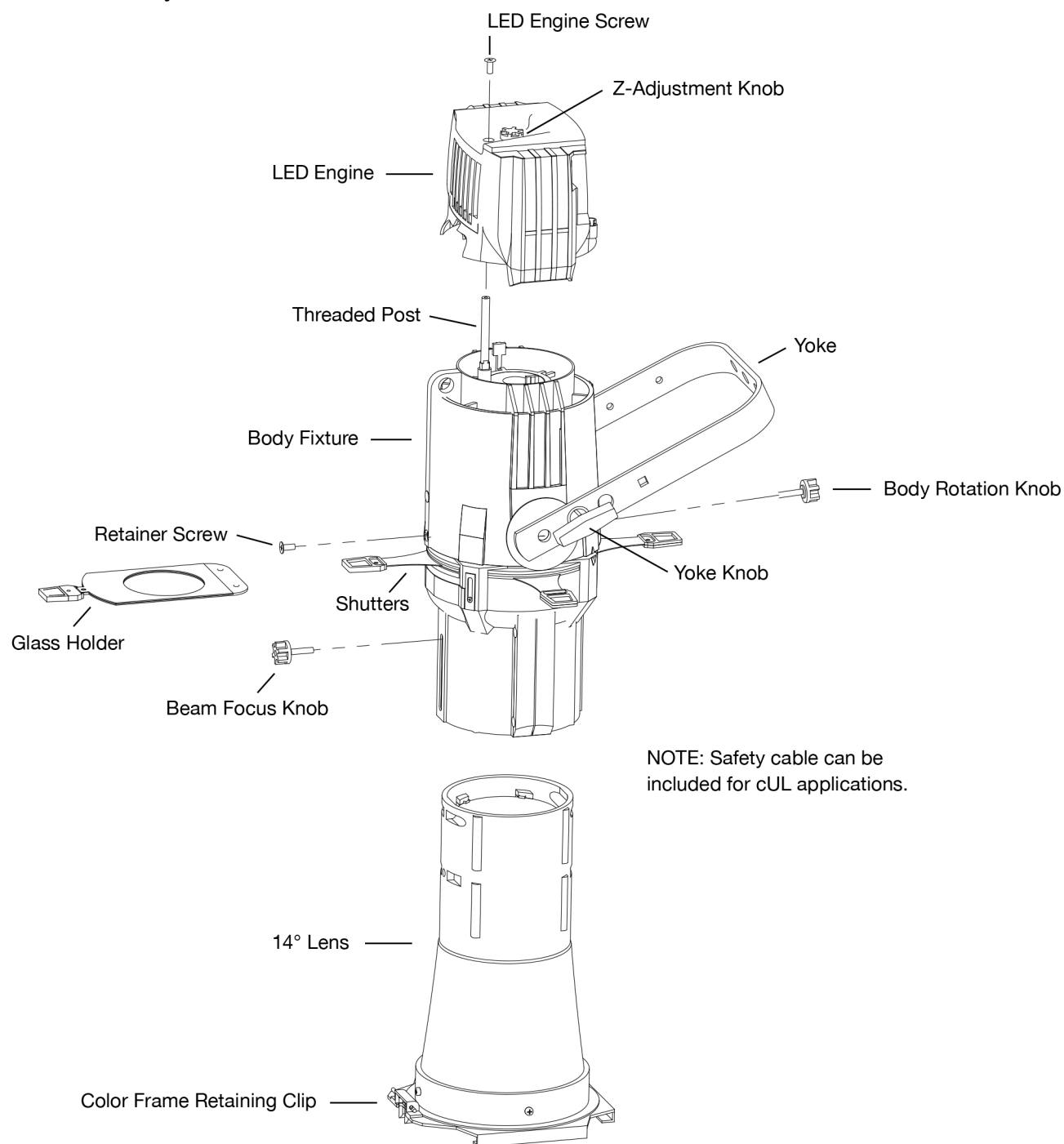


Crescent
Adjustable Wrench



#2 Phillips
Screwdriver

General assembly

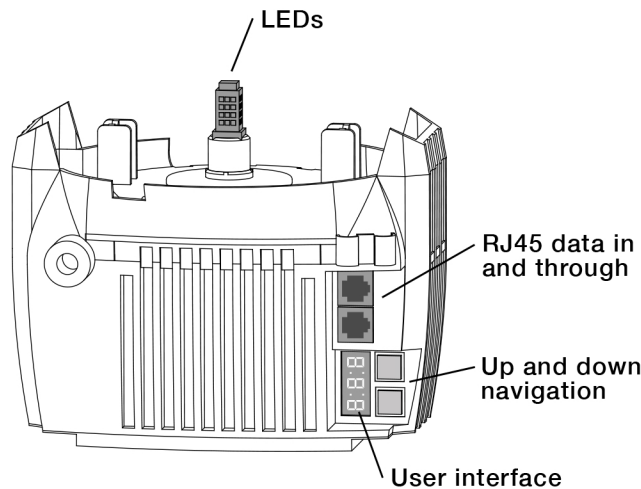


WARNING

Please note the following safety warnings before use:
Do not mount the fixture on or near combustible surfaces. Do not operate the fixture without a lens installed. Always hang the fixture with the Color Frame Retaining Clip in the locked position.



Sigilight LED Engine



SAFETY

The Sigilight LED Engine fixture is intended for professional use only. Read the entire manual before using this equipment.



WARNING

Note the following safety warnings before use:

Do not mount the Sigilight LED Engine on or near a flammable surface.

Do not use the Sigilight LED Engine below 5°C (41°F). Minimum storage temperature is 5°C (41°F). Ambient operating temperature: 5°C–50°C (41°F–122°F). When the fixture has been stored or transported in cold temperatures, allow it to warm to room temperature for a minimum of 1 hour before applying power. Applying power to a cold fixture will cause damage to the fixture and void the warranty.

Do not use this fixture with a damaged power lead. If the power lead (cord set) is damaged, it must be replaced.

Do not use this fixture if glass lens is deeply scratched or cracked. Damaged lenses must be replaced.

To prevent wiring damage, or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Use the Sigilight LED Engine in dry locations only, where humidity does not exceed 90 percent (non-condensing). These fixtures are not intended for outdoor use. Mount and support the fixture only by the primary suspension holes in the yoke.

Suspend the fixture from a suitable structure using only hardware rated for the weight of the fixture.



WARNING

The Sigilight LED Engine is not user serviceable. Field modification of the Sigilight LED Engine will void your warranty.



NOTE

Maximum anticipated external surface temperature:

T_{max}=63°C (145°F) at T_a=50°C (122°F)

External Temperature (steady state achieved) at 25°C (77°F) ambient: 38°C (100°F)

Specifications

Typical Power Consumption	
Idle Power / Current	DMX Mode: 1.2W/.046A; AC Mode: 0W
Full Intensity Power / Current	155.7W/1.35A

Electrical

- 114–125VAC 60Hz power input
- 155W draw at full (182W theoretical max. draw)
- Max of 14 fixtures per non-dimmed circuit (R20 module)
- If using in DMX mode: Connect fixture to relay, constant power, or dimmer with regulation off and parked at full

LEDs

- 4 CREE LED modules
- 45,000 hour estimated L70 rating (life-test in progress, results pending)

Optical

- Compatible with all Sigilight lens tubes

Control

- DMX512-A compliant
- DMX in and thru via two RJ45 connectors
- AC power for line-dimmed operation
- Simple seven-segment display and two-button user interface includes local dimming control



Color rendering and quality

Sigilight LED Engine fixtures are evaluated for Color Rendering Index (CRI) and Color Quality Scale (CQS) performance using measured output spectrum. These numbers may fluctuate slightly from fixture to fixture. This is a normal characteristic of white LEDs, and this kind of variation is highly unlikely to be apparent in most applications.

Fixture	CRI	TM-30 (Rf)	TM-30 (Rg)	Duv
Sigilight LED Engine (90 CRI) at 5600K	≥90	91	99	0.002



WARNING

RISK OF FIRE OR ELECTRIC SHOCK:

Installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.



NOTE

THE LED ENGINE IS ACCEPTABLE AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.

Wire the power connector (if needed)

If you ordered a Sigilight LED Engine without a power connector, wire the connector in accordance with all national and local electrical codes:

- Brown = Line
- Blue = Neutral
- Green/Yellow = Ground

Installation of Sigilight LED Engine onto Body Fixture



WARNING

RISK OF FIRE OR ELECTRIC SHOCK:

Install this Engine only onto luminaires that have the construction features and dimensions shown in the images in this document and where the input rating of the LED Engine does not exceed the input rating of the luminaire.



WARNING

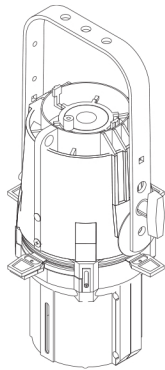
Do not make or alter any open holes in an enclosure of wiring or electrical components during Engine installation.



NOTE

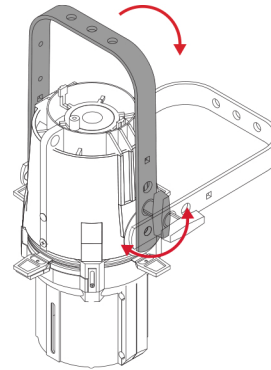
The Body Fixture comes pre-assembled.

Step 1: Locate the Body Fixture



Locate the Body Fixture and with the Yoke furthest from the surface, place vertically.

Step 2: Move the Yoke

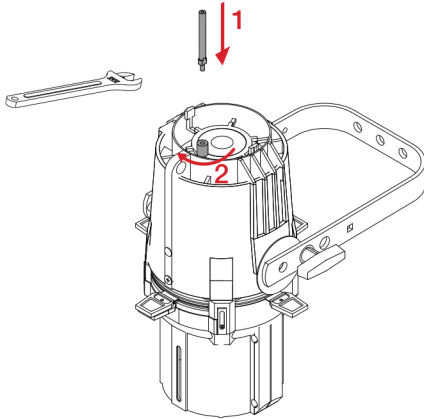


Loosen the Yoke Knob and rotate the Yoke to horizontal position. Tighten the Yoke Knob to secure placement.



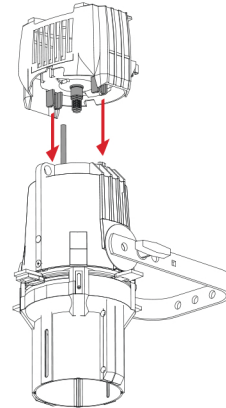
Installation of Sigilight LED Engine onto Body Fixture (continued)

Step 3: Attach Threaded Post



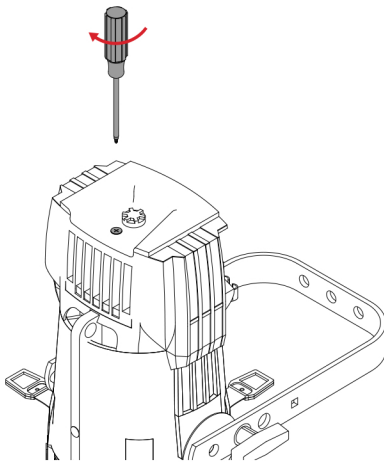
Attach the supplied Threaded Post to the top of the Body Fixture. Use an Adjustable Crescent Wrench to tighten one-quarter turn past finger tight.

Step 4: Attach LED Engine



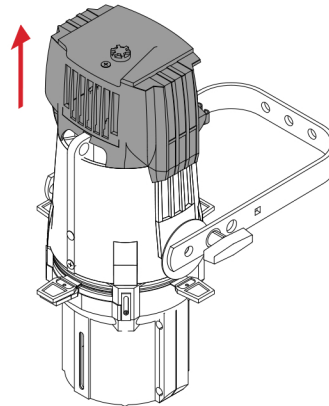
Gently slide the LED Engine onto the Body Fixture and Threaded Post while guiding the LED tower into the lamp housing hole.

Step 5: Secure LED Engine



Use a #2 Phillips Screwdriver to tighten the LED Engine Screw located on the back end of the LED Engine.

Step 6: Verify secure attachment



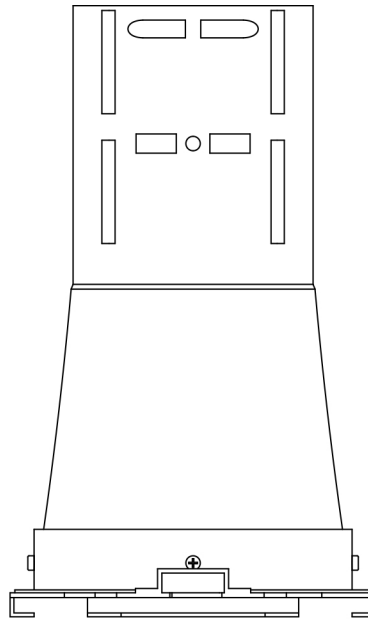
Pull the LED Engine gently to verify secure attachment.

These instructions apply to assembly of the Sigilight 14° Lens only. These are different from the standard Sigilight lens tubes and the lenses, castings, and formed metal parts are not interchangeable between the two.



NOTE

The information in this document supersedes information in the Sigilight User Manual and the Sigilight Assembly Guide. When assembling your 14° lens tube refer to this document for lens identification and placement.



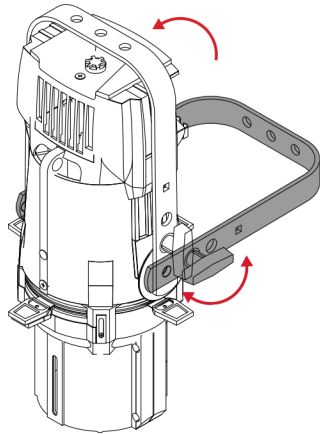
For maximum gel life with specific lens tubes refer to the table below:

Lens Tube	Soft Focus Back (Lamp “flat”)	Sharp Focus (Lamp “cosine”)	Soft Focus Forward (Lamp “peak”)	Soft Focus Forward (Lamp “cosine”)
14°	X	◆	○	◆
○ = Best Gel Life ◆ = Good Gel Life X = Worst Gel Life				



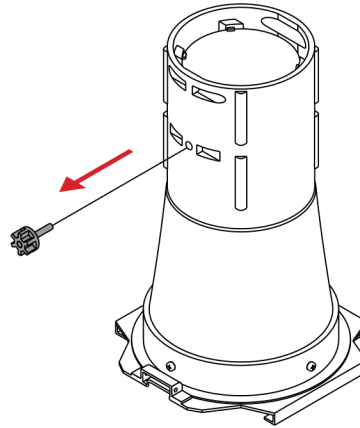
Installation of Sigilight 14° Lens onto Body Fixture

Step 1: Move the Yoke



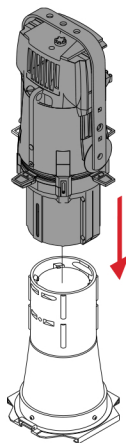
Loosen the Yoke Knob and rotate the Yoke to vertical position. Tighten the Yoke Knob to secure placement.

Step 2: Remove Beam Focus Knob



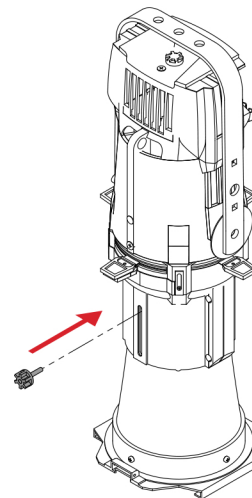
Remove the Beam Focus Knob from the side of the 14° Lens.

Step 3: Attach the 14° Lens



Place the front of the 14° Lens down on a flat surface. Grab the Yoke and guide the Body Fixture onto the 14° Lens.

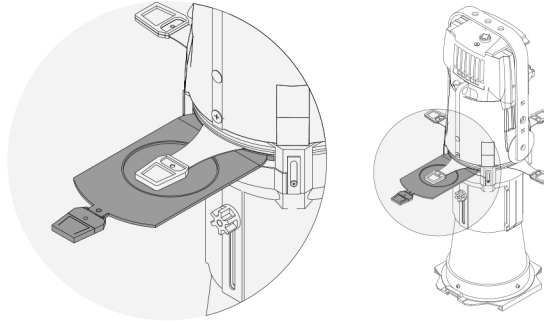
Step 4: Attach the Beam Focus Knob



Readjust the Beam Focus Knob through the side slot.

Image projection

The Glass Holder Slot is on the lateral side of the Body Fixture just below the Shutters. It accommodates the Glass Holder.



Installation of Sigilight Glass Sign into Glass Holder



WARNING

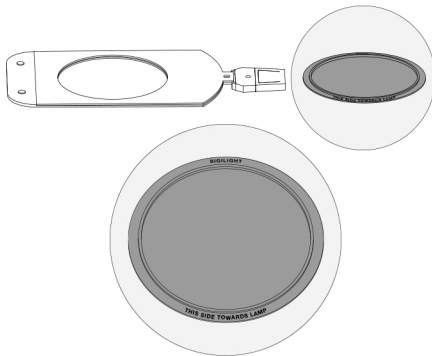
If Glass Sign is not placed properly may cause damages to the glass during the installation of Glass Holder into the Body Fixture.



NOTE

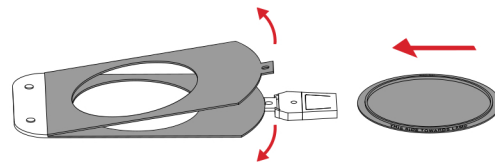
The Glass Holder should NOT be pulled apart into two separate pieces.

Step 1: Locate Glass Sign and Glass Holder



Locate the Glass Sign and Glass Holder. Make sure the “THIS SIDE TOWARDS LAMP” legend around the ring of the Glass Sign is facing upwards.

Step 2: Installation of Glass Sign

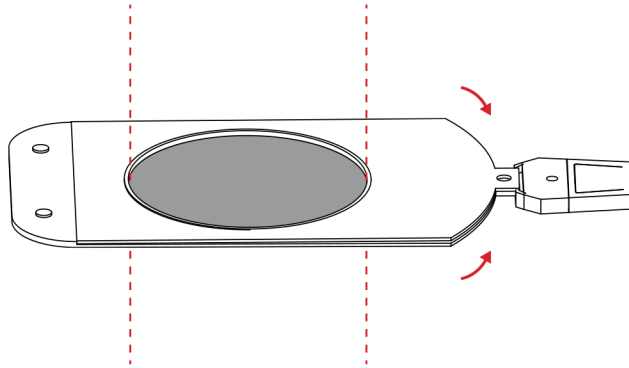


With the Glass Holder held horizontally pull the two layers apart with enough room to slide the Glass Sign in-between. The lip of the Glass Sign should sit properly to prevent it from sliding.



Installation of Sigilight Glass Sign into Glass Holder (continued)

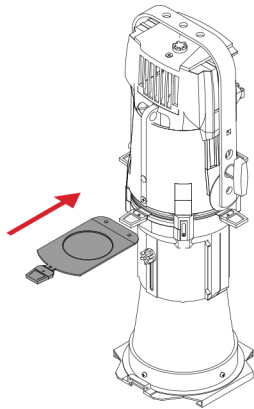
Step 3: Close the Glass Holder



Release the two sides of the Glass Holder to close it and ensure that the Glass Holder is flat. The Glass Sign should be flush with the top and bottom of the Glass Holder.

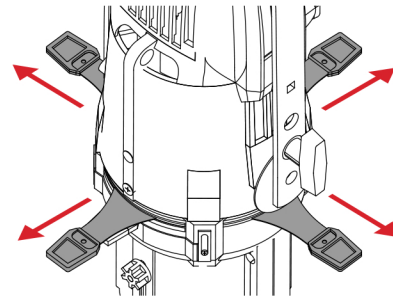
Installation of Sigilight Glass Holder into Body Fixture

Step 1: Installation of Glass Holder



Slide the Glass Holder into the Glass Holder Slot.

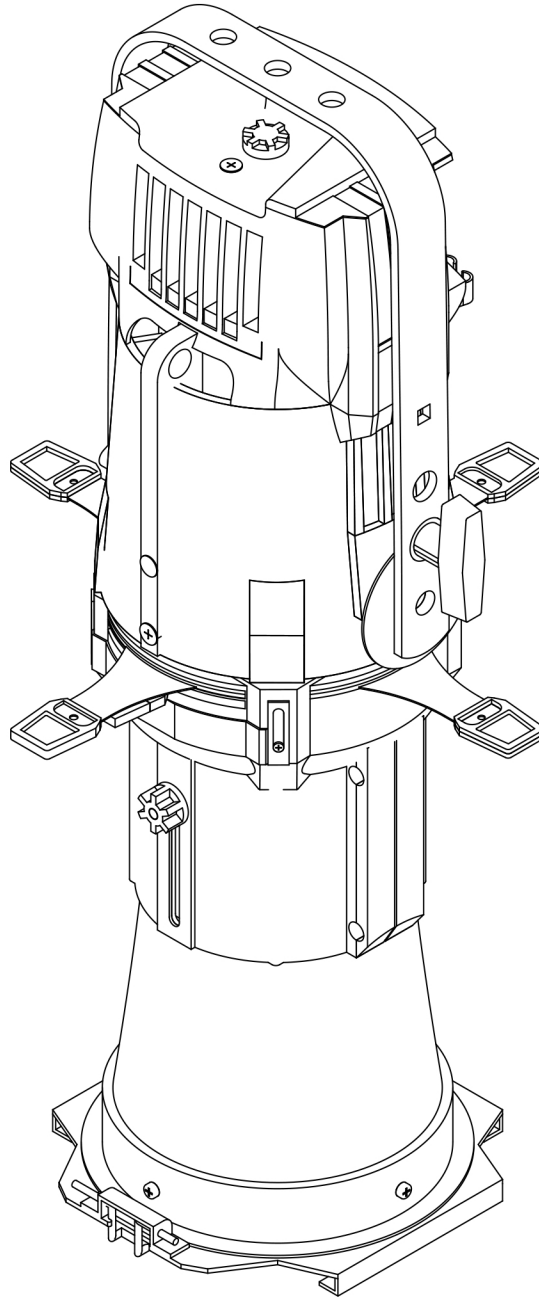
Step 2: Open Shutters



Pull the Shutter handles away from the Body Fixture to ensure the Shutters are fully open.



The final product of the pre-mounting Sigilight installation should appear as follows.



NOTE

FOLLOW THESE STEPS IN ORDER BEFORE INSTALLING
ONTO STRUCTURE.

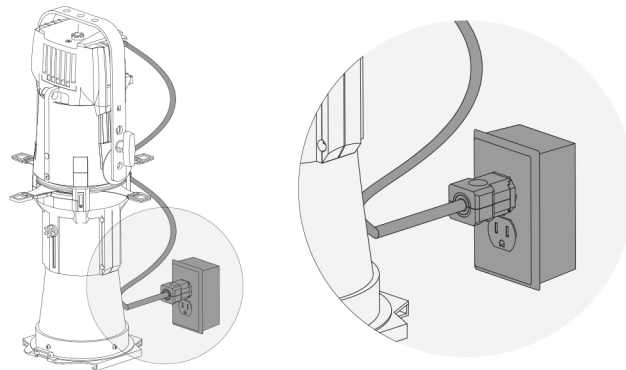
Power on



WARNING

To prevent damages, power Sigilight with 120 Volts.

Step 1: Plug device into an outlet



Plug Sigilight into a 120 Volt outlet to ensure that the device powers on.

Powering troubleshoot

- If Sigilight powers on but no image is projected, check if Shutters are open. See page 12, step 2.
- If issue is unresolved go to the “Interface” section below.
- If issue persists, contact Project Advisor.

Interface



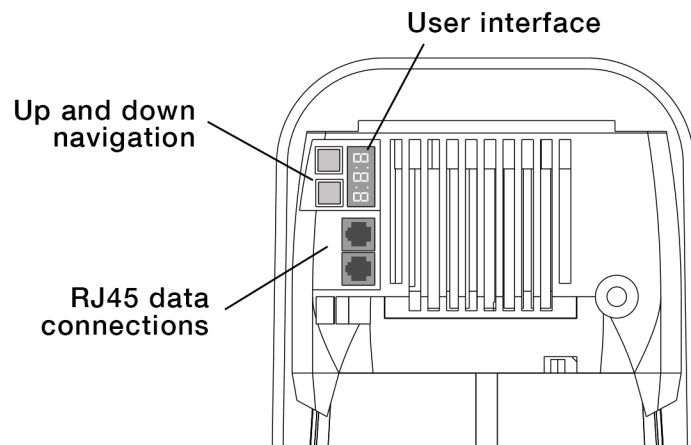
WARNING

Risk of fire or electric shock:

Installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

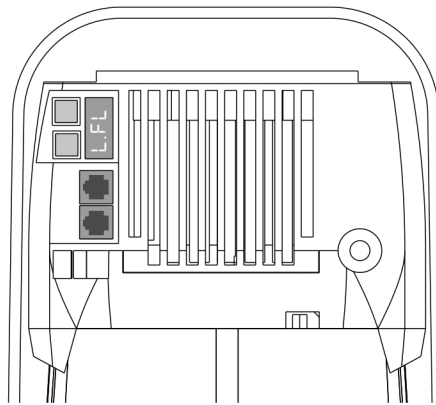
The LED Engine is acceptable as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.

Interface (continued)



The two-button, seven-segment display shows the DMX address, AC mode, or the manually set level.

Step 1: Manually set a level



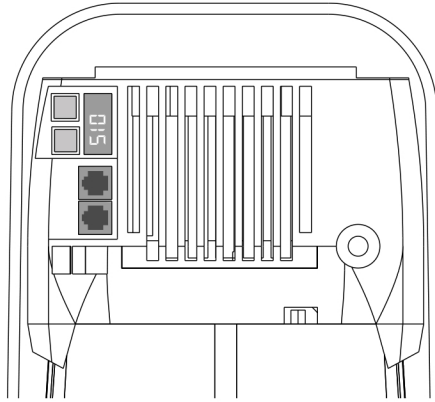
Use the down arrow to navigate one number below AC. The display will read L_FL(Level = Full).
 Use the down arrow to decrease the level to a percentage of full (L_99= 99%, L_98 = 98%, etc.).
 You can set levels from 0%–100% (full).



Pre-mounting adjustments

Interface (continued)

Set a DMX address (optional)



Use the up and down arrows to navigate to the desired DMX address number (1–512).

Error codes

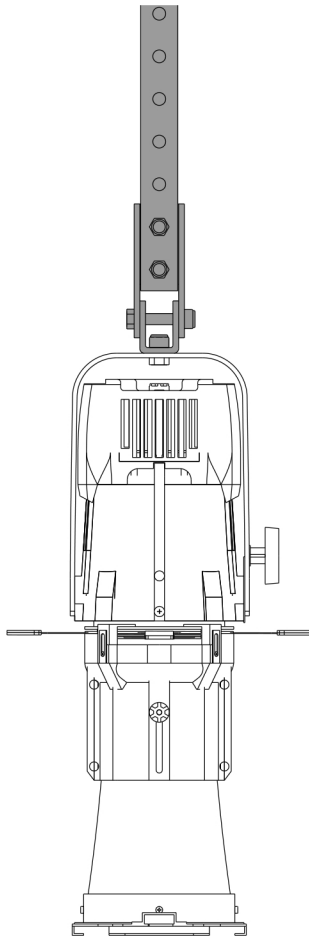
- **0tp** indicates the fixture has gone into over-temperature protection. Reset the fixture to clear the code.
 - For **DMX mode**: Return the DMX control to 0.
 - For **AC mode**: Remove the fixture from power for five seconds and then restore power.
- **Utp** indicates the fixture has gone into under-temperature protection. Allow the fixture to warm to a minimum of 5°C (41°F).
- **Flashing DMX** address indicates loss of DMX.
- **Dark screen** indicates loss of power or fixture time-out. In the event of time-out, press any button to wake the user interface.



NOTE

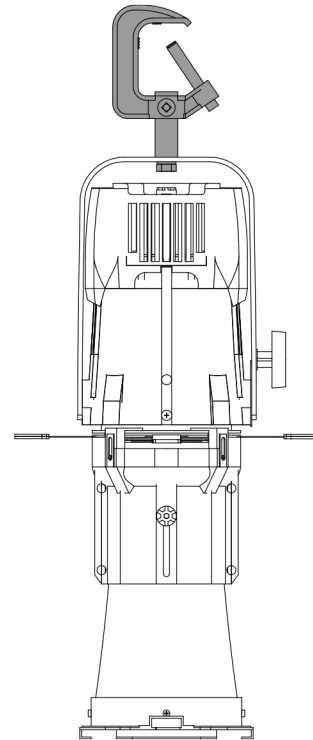
Follow the structural installation instructions for your corresponding product usage.

Sigilight Drop



Instructions for the Drop can be found in its corresponding installation manual.

C-Clamp Alternative

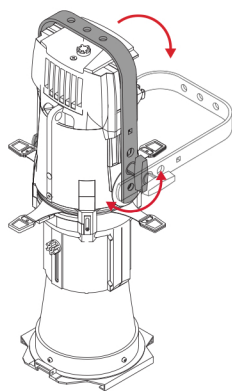


Instructions for the C-Clamp alternative can be found in the sections to follow.

Attach C-Clamp and Safety Cable

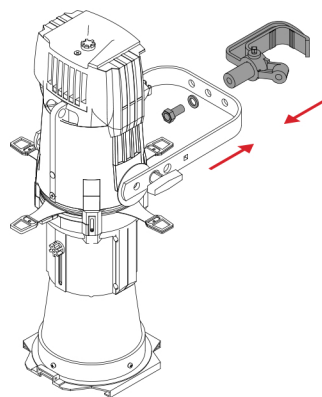
The C-Clamp attaches the fixture to the mounting structure and allows you to adjust the position of the mounted fixture. It is recommended to use 1.5" schedule 40 pipe.

Step 1: Move the Yoke



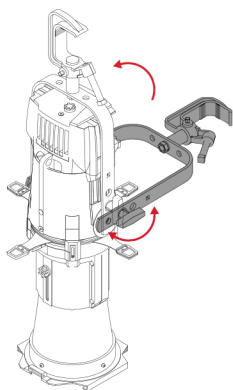
Loosen the Yoke Knob and rotate the Yoke to horizontal position. Tighten the Yoke Knob to secure placement.

Step 2: Attach C-Clamp to Yoke



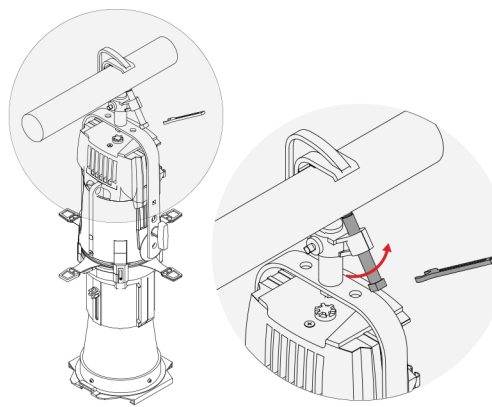
Tightly fasten the C-Clamp to the Yoke with the provided Yoke Bolt and Lock Washer.

Step 3: Move the Yoke



Loosen the Yoke Knob and rotate the Yoke to vertical position. Tighten the Yoke Knob to secure placement.

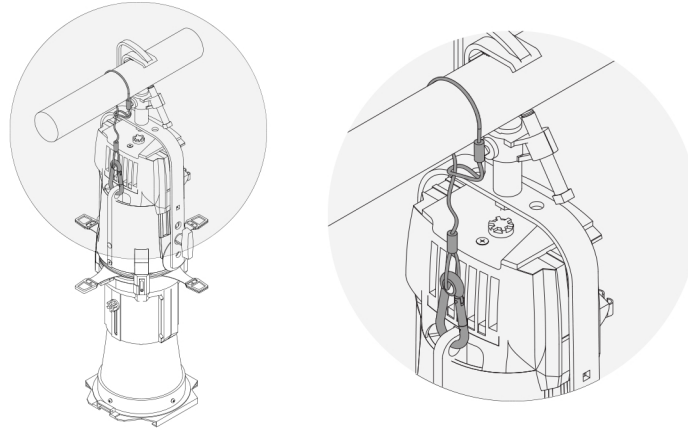
Step 4: Attach C-Clamp to structure



Tighten C-Clamp Pipe Bolt to 15-20 ft lbs (20-27 Nm), approximately finger tight plus up to one-quarter turn using an Adjustable Crescent Wrench.

Attach C-Clamp and Safety Cable (continued)

Step 5: Connect Safety Cable



Connect the Safety Cable.



CAUTION

Do not exceed 25 ft lbs (33 Nm) while tightening the C-Clamp Pipe Bolt. Do not use excessive force.



Post-mounting adjustments

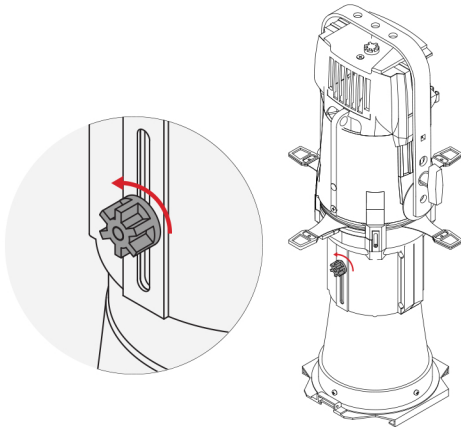


NOTE

ADJUSTMENTS MADE AFTER MOUNTING OF SIGILIGHT ONTO STRUCTURE.

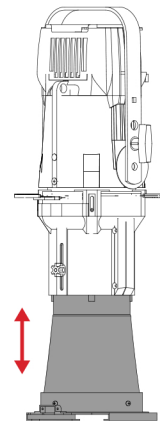
Focusing the beam

Step 1: Loosen Beam Focus Knob



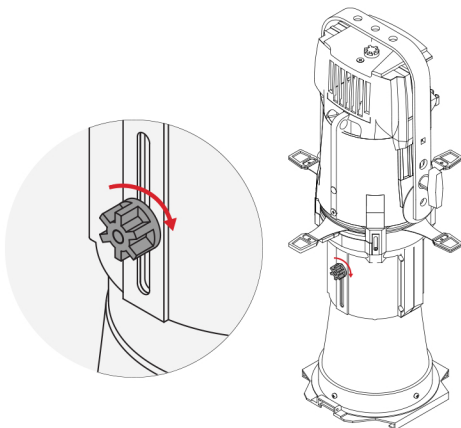
Plug in the Sigilight then loosen the Beam Focus Knob.

Step 2: Adjust the 14° Lens



Slide the 14° Lens up or down to achieve the desired beam edge.

Step 3: Tighten Beam Focus Knob

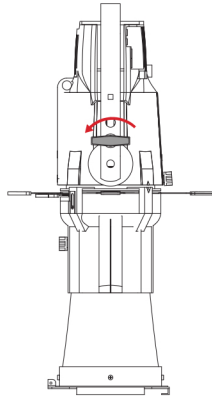


Once the Sigilight is focused, tighten the Beam Focus Knob.



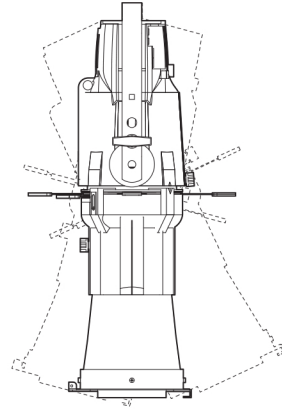
Setting the angle within the Yoke

Step 1: Loose Yoke Knob



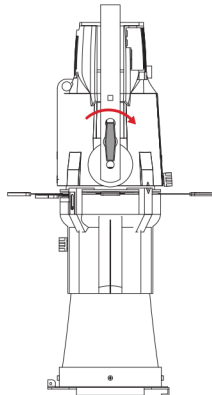
Loosen the Yoke Knob. Do not remove it.

Step 2: Tilt fixture



Tilt the fixture to the desired position.

Step 3: Tighten Yoke Knob



Tighten the Yoke Knob to secure position.

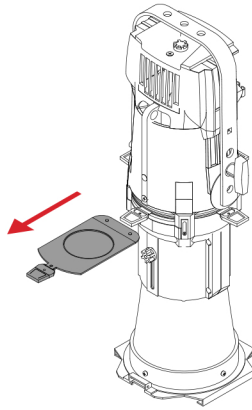


Post-mounting optional adjustments

Adjusting the field

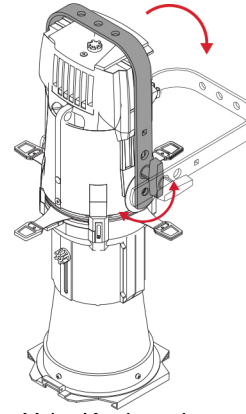
The Z-Adjustment Knob located on the LED Engine allows you to adjust its field.

Step 1: Remove Glass Holder



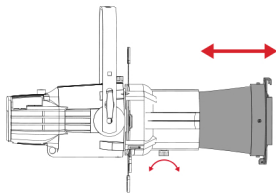
Remove the Glass Holder from the Glass Holder Slot. Glass Holder must be removed from the Sigilight to adjust the field.

Step 2: Move the Yoke



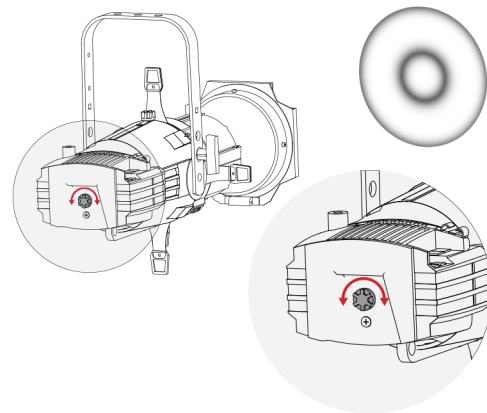
Loosen the Yoke Knob and rotate the Yoke to horizontal position. Tighten the Yoke Knob to secure placement and turn on the Sigilight.

Step 3: Adjust the 14° Lens



While aiming the Sigilight at a flat surface loosen the Beam Focus Knob and adjust the 14° Lens by sliding it forward or backwards to create a hard edge. Then tighten the Beam Focus Knob.

Step 4: Rotate the Z-Adjustment Knob

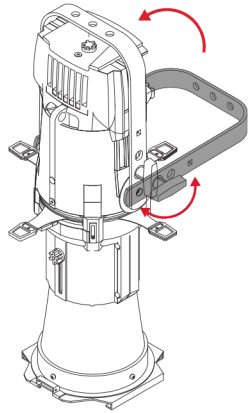


Rotate the Z-Adjustment Knob clockwise or counterclockwise until there is an even distribution of light across the entire projected area.



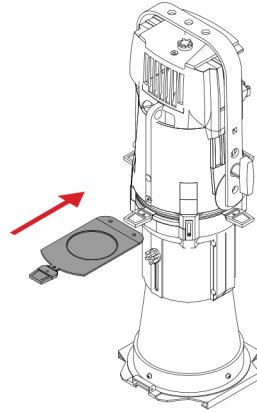
Adjusting the field (continued)

Step 5: Move the Yoke



Loosen the Yoke Knob and rotate the Yoke to vertical position. Tighten the Yoke Knob to secure placement.

Step 6: Reinstall Glass Holder



Insert the Glass Holder back into the Glass Holder Slot.



Cleaning Sigilight 14° Lens Glass



WARNING

Do not use ammonia-based or other harsh commercial cleaners. Clean 14° Lens and Reflector only as directed. Commercially available glass cleaning agents should be avoided as they may contain ammonia, other harsh chemical detergents or abrasive agents. These cleaners may damage the glass surface and the Anti-Reflective coatings. Do not immerse or soak the glass in any cleaning solution.

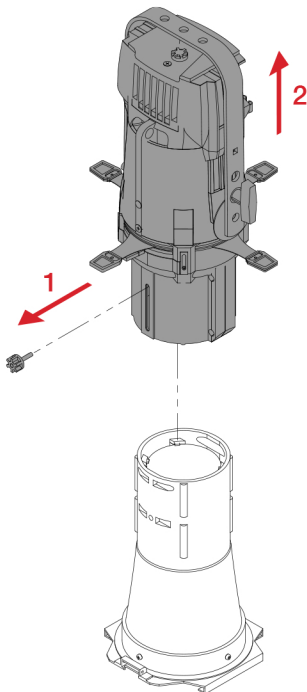
Replace lenses if they contain visible damage (cracks or deep scratches) that may impair their effectiveness.



NOTE

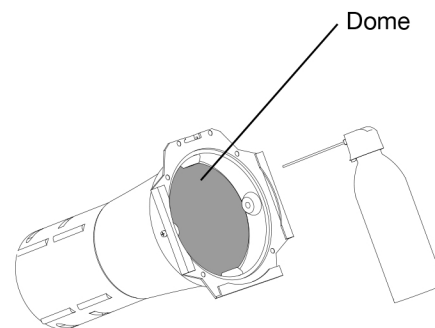
To clean the inside of lenses, it is necessary to remove the lenses from the lens tube for cleaning.

Step 1: Remove 14° Lens



Remove the Beam Focus Knob from the Body Fixture. Separate the Body Fixture by pulling the Yoke vertically.

Step 2: Clean Dome

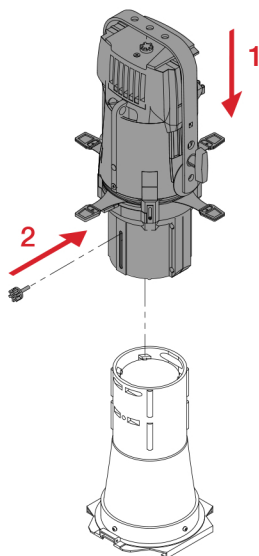


Remove dust with a blast of oil-free air or wipe with a clean, lint-free cloth. Isopropyl alcohol, distilled water or a 50%-50% mixture of each can be used to clean the glass surface.



Cleaning Sigilight 14° Lens Glass (continued)

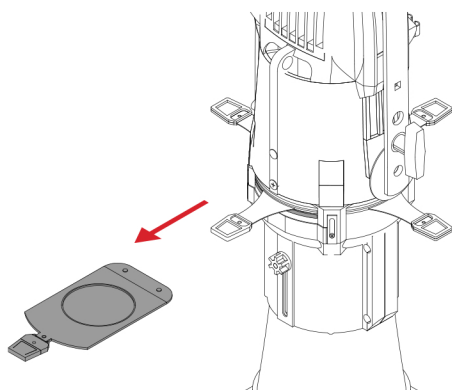
Step 3: Reinstall 14° Lens



Slide the 14° Lens back into the Body Fixture. Reinstall the Beam Focus Knob.

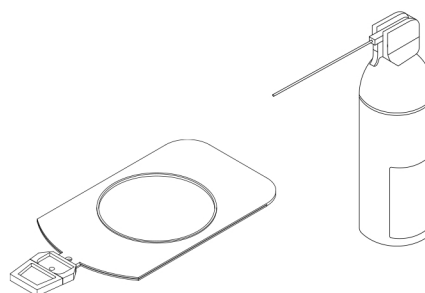
Cleaning Sigilight Glass Holder

Step 1: Remove Glass Holder



Slide out the Glass Holder from the Glass Holder Slot.

Step 2: Clean Glass Holder

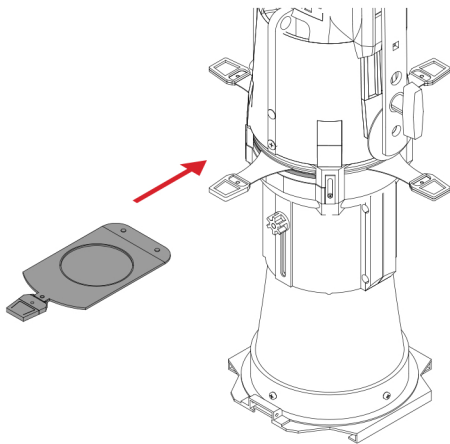


Remove dust with a blast of oil-free air on both sides of the Glass Sign.



Cleaning Sigilight Glass Holder (continued)

Step 3: Reinstall Glass Holder



Slide the Glass Holder back into the Glass Holder Slot with “THIS SIDE TOWARDS LAMP” facing upwards.

Cleaning Sigilight Reflector

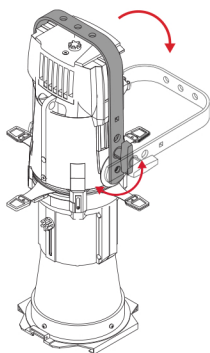


WARNING

Do not make or alter any open holes in an enclosure of wiring or electrical components during engine installation.

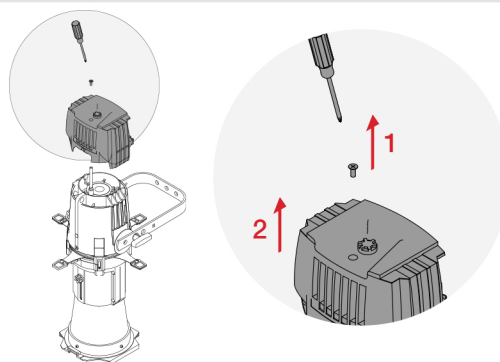
To quickly clean the Reflector, remove the 14° lens tube and clean the dust from the Reflector with a blast of oil-free air.

Step 1: Move the Yoke



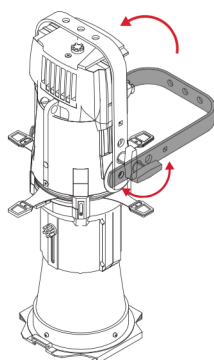
Loosen the Yoke Knob and rotate the Yoke to horizontal position. Tighten the Yoke Knob to secure placement.

Step 2: Remove LED Engine



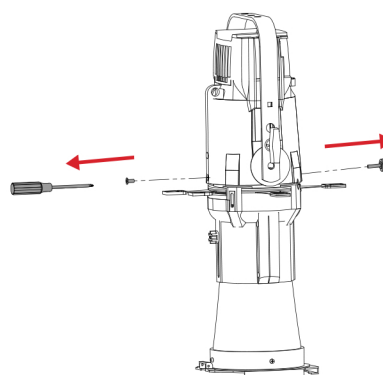
To protect the LED Engine during cleaning, it must be removed. Using a #2 Phillips Screwdriver remove the LED Engine Screw and pull the LED Engine straight out.

Step 3: Move the Yoke



Loosen the Yoke Knob and rotate the Yoke to vertical position. Tighten the Yoke Knob to secure placement.

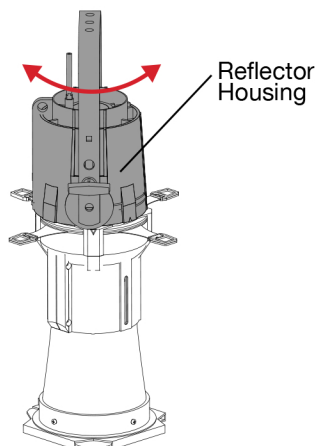
Step 4: Remove Knob and Retainer Screw



Remove the Body Rotation Knob and using a #2 Phillips Screwdriver remove the Retainer Screw.

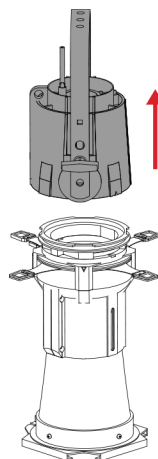
Cleaning Sigilight Reflector (continued)

Step 5: Rotate Reflector Housing



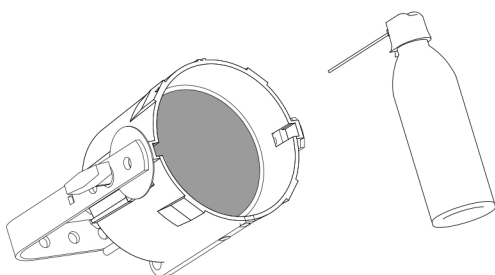
Rotate the Reflector Housing 45 degrees in either direction.

Step 6: Remove Reflector Housing



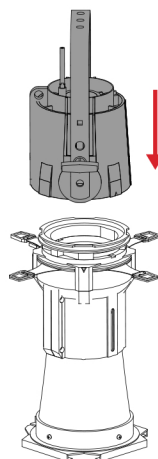
Carefully remove Reflector Housing from the lower portion of the Body Fixture.

Step 7: Clean Reflector Housing



Remove dust with a blast of oil-free air.

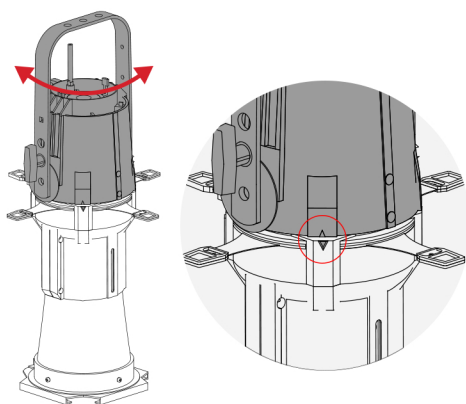
Step 8: Reinstall Reflector Housing



Reinstall the Reflector Housing to the lower portion of the Body Fixture.

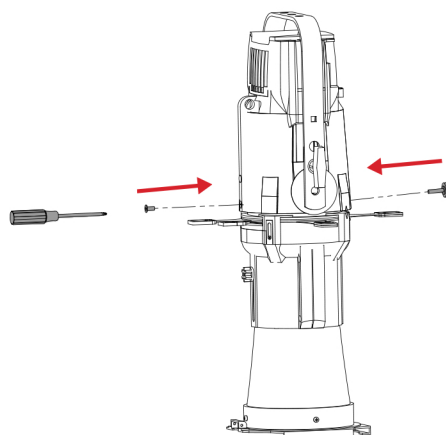
Cleaning Sigilight Reflector (continued)

Step 9: Rotate Reflector Housing



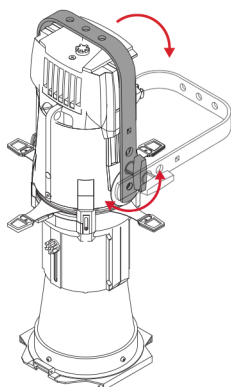
While gently pressing in, rotate the Reflector Housing 45 degrees in either direction. The Reflector Housing should be firmly attached, and the triangles aligned.

Step 10: Reinstall Knob and Retainer Screw



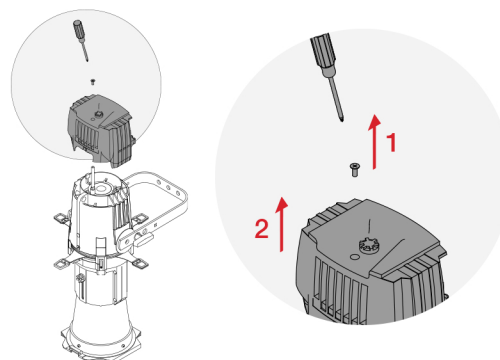
Reinstall the Body Rotation Knob. Then reinstall the Retainer Screw with a #2 Phillips Screwdriver.

Step 11: Move the Yoke



Loosen the Yoke Knob and rotate the Yoke to horizontal position. Tighten the Yoke Knob to secure placement.

Step 12: Reinstall LED Engine

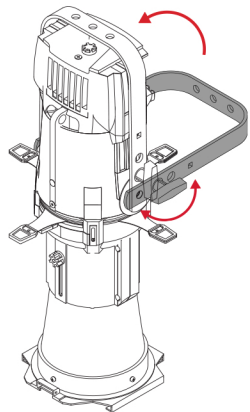


Reinstall the LED Engine. Then reinstall the LED Engine Screw with a #2 Phillips Screwdriver. Pull the LED Engine gently to verify secure attachment.



Cleaning Sigilight Reflector (continued)

Step 13: Move the yoke



Loosen the Yoke Knob and rotate the Yoke to vertical position. Tighten the Yoke Knob to secure placement.



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