



LIGHTING QUICK HANG

Two different students per team- Each student in allowed **1** try.

In this challenge, individuals will be asked to successfully hang and focus an ETC Source 4. All equipment and tools will be provided. Successful completion of this challenge is achieved when the lighting equipment is secured properly to the pipe with safety attached, powered on, Drop Gobo / Color and correctly focused to the shape marked out on the wall.

FOR SAFETY: Lighting Quick Hang Team Members must bring their own gloves.

Personal wrenches are permitted; one will be available for use No speed wrenches are permitted.

LIGHT HANG SAFETY STEPS: REQUIRED ORDER 1-7

1. Technician steps over the Starting Line Wearing Gloves and Carrying a Wrench
TIME STARTS
2. Pick up lighting instrument, place C-CLAMP over the pipe at the designated hanging location. *The opening of the C-CLAMP will be facing toward team member.*
3. Finger tighten the C-CLAMP bolt.
4. Attach the SAFETY CABLE through the YOKE and around the pipe.
5. Tighten the C-CLAMP bolt so that it is secure on the electric pipe.
C-Clamp bolt should be no tighter than 1/4 turn past finger tight.
6. OPEN ALL 4 of the shutters in the fixture.
7. Plug the 3-PIN Connector into the designated CIRCUIT.
8. The following steps can be completed in ANY order:
Drop Gobo Holder, Drop Color, Adjust Focus, Adjust Shutters
9. When focus is complete, Technician steps over the Starting Line, **TIME STOPS**

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How to hang a lighting fixture (ellipsoidal) (Safety Steps in this order are required for this event)

1. Place **C-CLAMP** over the pipe at the designated hanging location.
The opening of the C-clamp should be facing team member.
2. Finger tight the pipe bolt
3. Attach the **SAFETY CABLE** through the **YOKE** and **around** the electric pipe.
4. Tighten the pipe bolt and adjust the C-clamp as necessary so that it is secure on the electric pipe.
Pipe bolt should be no tighter than 1/4 turn past finger tight.
5. Pull all of the shutters in the fixture to open.
6. Plug the **TAIL** of the lighting instrument into the designated **CIRCUIT**.

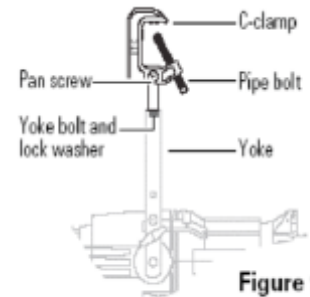
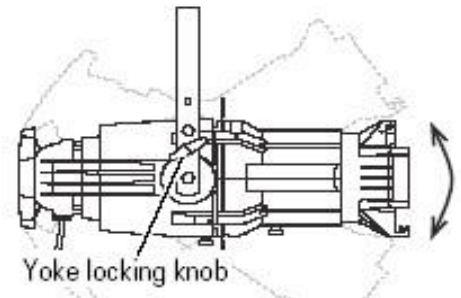


Figure 9

How to focus an ellipsoidal

1. Adjust the **PAN** of the unit so that it is set in the desired location.
2. Adjust the **TILT** of the unit so that it is set in the desired location.
3. **FOCUS** the **BEAM** to the desired beam edge.
4. Using the **SHUTTERS** and the rotation knob as necessary, shape the beam of light to the desired shape and angle.
5. Make sure all nuts, handles and knobs are tightened so the instrument does not **DROP FOCUS**.
6. Drop **COLOR** in to the color slot of the instrument



How to set the angle within the yoke

1. Loosen the yoke locking knobs. (Do not remove them.)
2. Tilt the fixture to the desired position.
3. Tighten the yoke locking knobs to secure the fixture in position.

How to focus the beam

1. Loosen the beam focus knob located under the barrel.
2. Slide the lens tube forward or backward to achieve the desired beam edge.
3. Once the fixture is focused, tighten the beam focus knob.

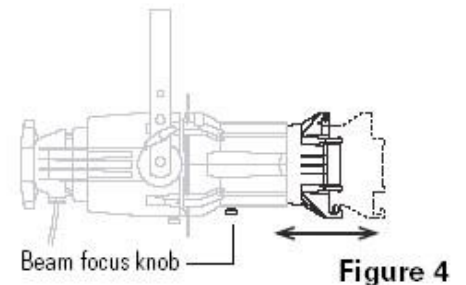


Figure 4

How to rotate the angle within the fixture

1. Loosen the rotation-locking knob. (Do not remove it.)
2. Rotate the barrel of the fixture left or right to the desired position.
3. Recheck the focus of the beam for sharp or soft focus and then tighten the rotation-locking knob to secure the fixture in position.



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PENALTIES

SAFETY STEPS OUT OF ORDER (See required order-Pg.1)	20 Seconds
Instrument upside down	15 Seconds
No safety cable / not properly attached	15 Seconds
C-Clamp NOT TIGHTENED	15 Seconds
Focus & Barrel knob NOT TIGHTENED:	15 Seconds
Shutter cut not accurate /wrong angle	5 Seconds PER SHUTTER
SOFT focus- GOBO MUST have sharp edges	10 Seconds
Forgot GOBO	20 Seconds
Backwards GOBO	15 Seconds
Forgot gel frame	20 Seconds
Dropping items, placing items on floor, items in mouth	20 Seconds PER ITEM
Blatant disregard for the rules	2 MINUTES

APPLICABLE CTE STANDARD APPLICATION

- 1.5: IDENTIFY PREVIOUS AND CONTEMPORY PRODUCTION TECHNIQUES
- 3.1: EMPLOY SHOP SAFETY PROTOCOLS
- 6.5: IMPLEMENT THE HANG
- 7.1: EMPLOY APPROPRIATE SAFETY PROTOCOLS, INCLUDING ELECTRICAL, RIGGING, ETC...
- 10.1: PRACTICE STAGE SAFETY PROTOCOLS, INCLUDING ERGONOMICS
- 10.4 ESTABLISH AND PRACTICE PROPER BACKSTAGE DECORUM