



ETC 222116 Source Four jr Zoom User Manual

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ETC 222116 Source Four jr Zoom



Specifications:

- Product: Source Four jr/jr Zoom
- Maximum Lamp Rating: 575W
- Lamp Compatibility: HPL lamps only
- Available Voltages: 115V, 120V, 230V, 240V
- Average Rated Life: 300-2000 hours depending on lamp type

Product Usage Instructions

Basic Assembly:

The Source Four jr/jr Zoom consists of various components that need to be assembled correctly. Here is a breakdown of the basic assembly:

- **Pattern holder slot:** This slot is used to insert patterns or gobos.
- **Drop-in iris slot cover:** This cover is used to secure the drop-in iris accessory.
- **Color frame retaining gel clip:** This clip prevents color frames and accessories from falling out.
- **Barrel:** The main body of the fixture.
- **C-clamp mounting Yoke:** The yoke used for mounting the fixture with a C-clamp.
- **Lamp housing:** The housing that holds the lamp.
- **Yoke-locking knob:** The knob used to lock the yoke in place.
- **Zoom rear focus knob:** The knob is used for adjusting the zoom and focusing at the rear of the fixture.
- **Gel frame holder:** The holder for inserting gel frames.
- **Beam focus knob (Zoom front focus):** The knob used for adjusting the beam focus at the front of the fixture.

Replacing the HPL lamp:

Before using the fixture, a lamp must be installed. Follow these steps to replace the HPL lamp:

1. Disconnect power to the fixture before installing the lamp.

2. Loosen the knurled bolt on the back of the lamp housing and pull the housing out.
3. Holding the lamp by the base, remove it from its box.
4. Align the flat sides of the lamp base with the retention brackets on either side of the socket.

CAUTION: Use caution when installing or replacing any lamp. Point the lamp away from your face and others before firmly inserting it into the assembly to prevent injuries if the lamp should break.

Note: To avoid premature lamp failure, do not touch the lamp glass. If you accidentally touch it, clean it carefully with isopropyl alcohol and a clean lint-free cloth. Allow it to dry before operation.

Color frame holder:

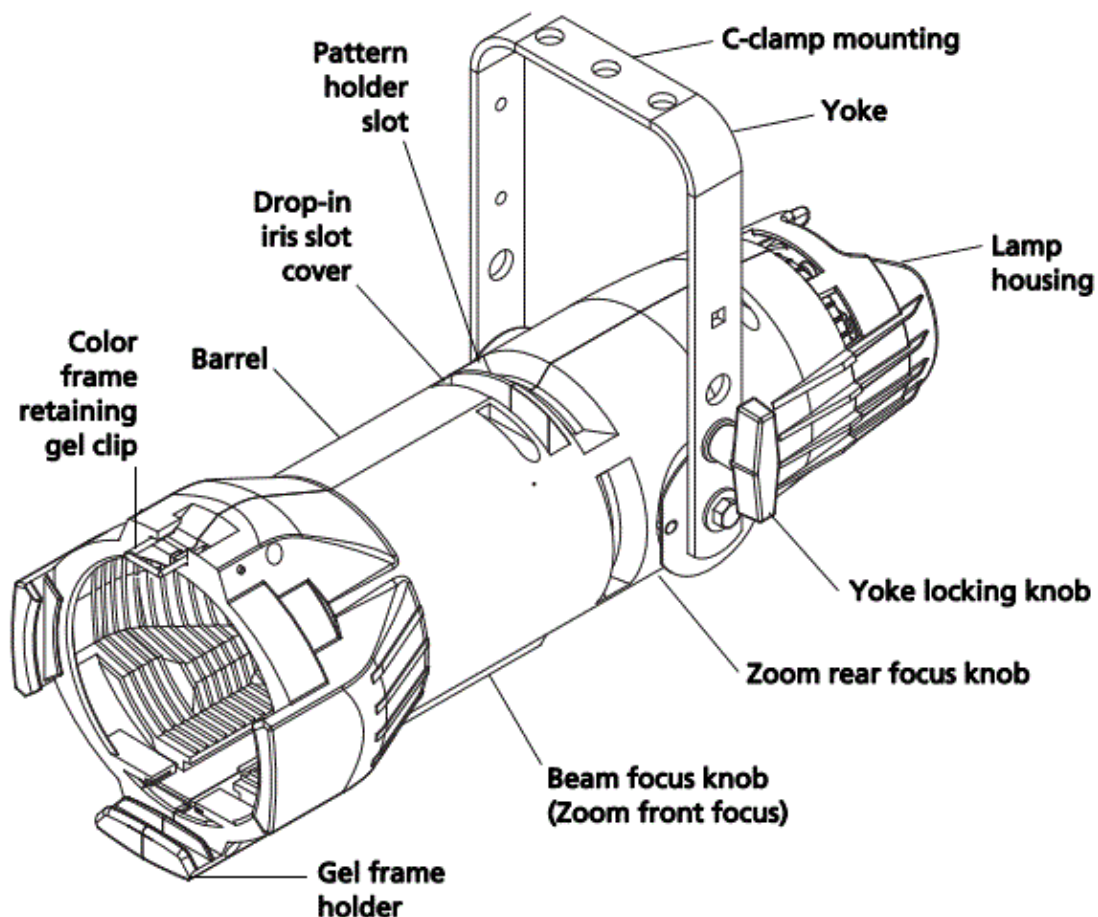
The color frame holder is equipped with a spring-loaded retaining clip to prevent color frames and accessories from falling out. Follow these steps to use the color frame holder:

1. Release the retaining clip by pushing it sideways while gently pulling backward.
2. Insert the color frame.
3. Lock the retaining clip by pushing sideways while gently pushing forward.

FAQ:

- Q: Can I use lamps other than HPL in Source Four fixtures?
A: No, using lamps other than HPL or lamps with a wattage greater than 575W will void your warranty.
- Q: How long is the average rated life of the HPL lamps?
A: The average rated life ranges from 300 to 2000 hours depending on the lamp type.

Basic 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.

Fixture information

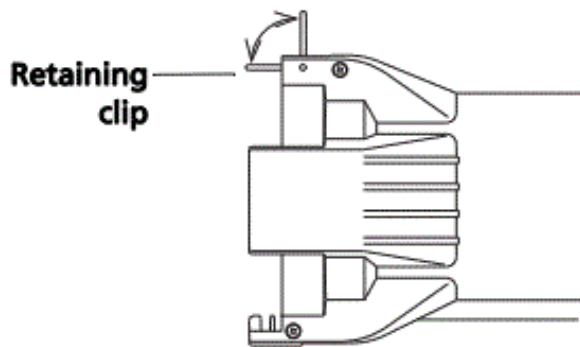
HPL lamp table

CAUTION: The Source Four jr is rated for 575W maximum lamp. Do not use lamps other than the HPL in Source Four fixtures. Use of lamps other than HPL or greater than 575W will void your warranty.

Lamp code	Watts	Volts	Initial Lumen	Color temp.	Average rated life
HPL 550/77*	550	77	16,170	3,250°	300 hours
HPL 550/77X*	550	77	12,160	3,050°	2000 hours
HPL 575/115	575	115	16,520	3,250°K	300 hours
HPL 575/115X	575	115	12,360	3,050°K	2000 hours
HPL 375/115	375	115	10,540	3,250°K	300 hours
HPL 375/115X	375	115	8,000	3,050°K	1000 hours
HPL 575/120	575	120	16,520	3,250°K	300 hours
HPL 575/120X	575	120	12,360	3,050°K	2000 hours
HPL 575/230	575	230	14,900	3,200°K	400 hours
HPL 575/230X	575	230	11,780	3,050°K	1500 hours
HPL 375/230X	375	230	7,250	3,000°K	1000 hours
HPL 575/240	575	240	14,900	3,050°K	400 hours
HPL 575/240X	575	240	11,780	3,050°K	1500 hours
HPL 375/240X	375	240	7,250	3,000°K	1000 hours
* To be used with ETC Dimmer Doubler™					

Color frame holder

The color frame holder is equipped with a spring-loaded retaining clip that prevents color frames and accessories from falling out.



WARNING: Make sure all color frame accessories are locked in position with the retaining clip before hanging the Source Four.

1. Release the retaining clip by pushing it sideways while gently pulling backward.
2. Insert the color frame.
3. Lock the retaining clip by pushing sideways while gently pushing forward.

Note: The performance of saturated colors may be less than desirable in any theatrical lighting fixture. For best results, always use high-quality color media rated for high-temperature use. ETC's optional Conical Gel Extender (part number 7060A1048) will provide maximum color media life. Gel Extenders are not recommended for 70° and 90° lens tubes due to the extremely wide-angle beam. A variety of heat shield products is also available from many color media manufacturers. Follow the manufacturer's instructions for the use of these products.

Replacing the HPL lamp

A lamp must be installed before you use the fixture.

Note: Verify that the HPL lamp you intend to install is suitable for your facility's voltage; 115-, 120-, 230-, and 240-volt HPL lamps are available. See HPL lamp table on page 2. Operating HPL lamps above their rated voltage reduces lamp life and can cause premature lamp failure.

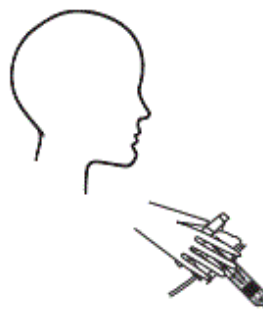
WARNING: Let the lamp cool before replacing it.

1. Disconnect power to the fixture before installing the lamp.
2. Loosen the knurled bolt on the back of the lamp housing and pull the housing out.
3. Holding by the base, remove the HPL lamp from its box.

CAUTION: Use caution when installing or replacing any lamp. When installing/replacing a lamp, be sure to point the lamp away from your face and away from others before inserting it firmly into the assembly. This may prevent injuries if the lamp should break.



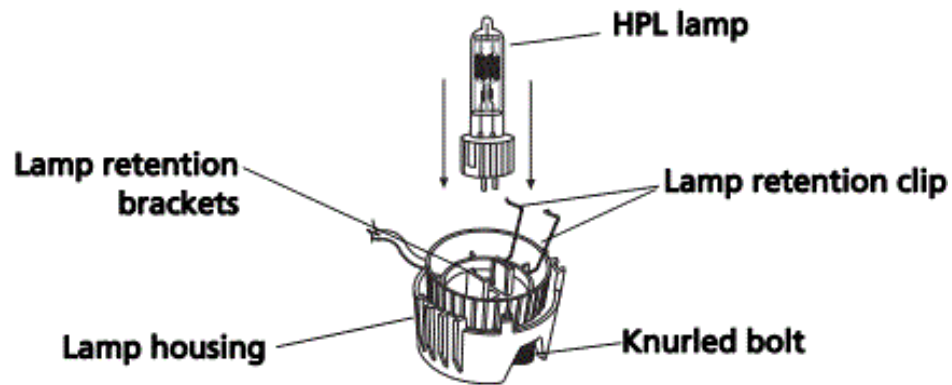
INCORRECT



CORRECT

Note: To avoid premature lamp failure, do not touch the lamp glass. If you do, clean it carefully with isopropyl alcohol and a clean lint-free cloth. Allow to dry before operation.

4. Align the flat sides of the lamp base with the retention brackets on either side of the socket as shown below.



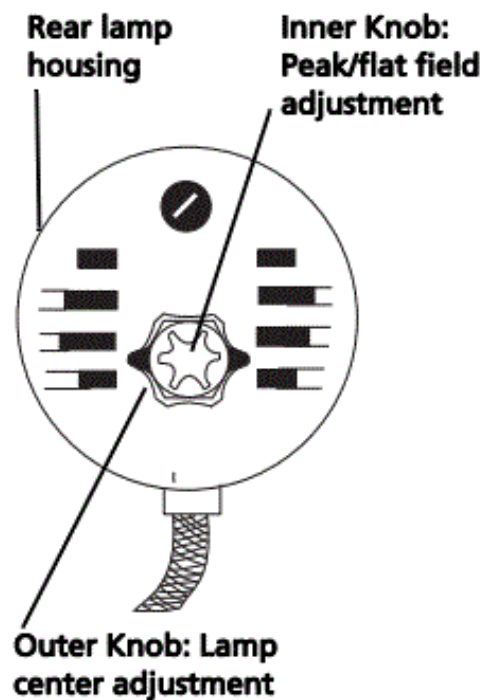
CAUTION: Improperly installed lamps cause premature lamp failure and socket problems.

5. Press the lamp retaining clip across the lamp base to secure it.
6. Reinstall the lamp housing by aligning the bolt hole and tightening the knurled bolt.

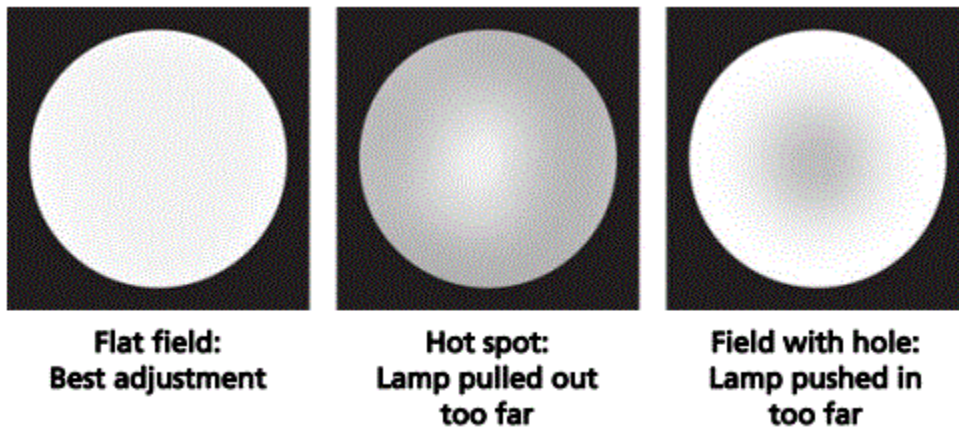
Adjustments

Centering lamp and adjusting the field

The two concentric knobs located on the lamp housing allow you to align the lamp and adjust its field. See figure at right. The outer knob centers the lamp within the reflector. The inner knob adjusts the lamp's field.

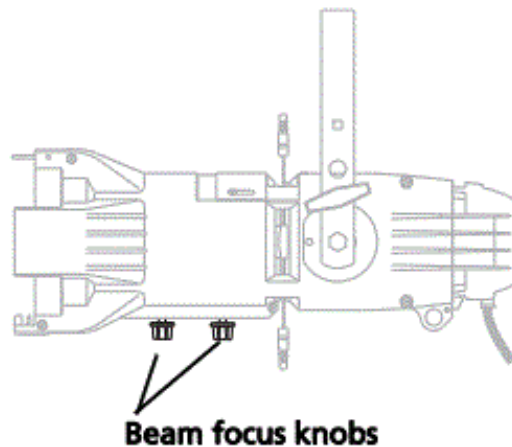


1. Turn on the fixture and aim it at a flat surface. Adjust the barrel to create a hard edge.
2. Unlock and loosen the outer knob by turning it counterclockwise.
3. Gently move the outer knob from side to side and up and down until the lamp is centered within the reflector.
4. Once the lamp is centered, turn the outer knob clockwise to lock it in place.
5. Finally, turn the inner knob either clockwise or counterclockwise to achieve an optimum flat field. See figure below.



Focusing the beam

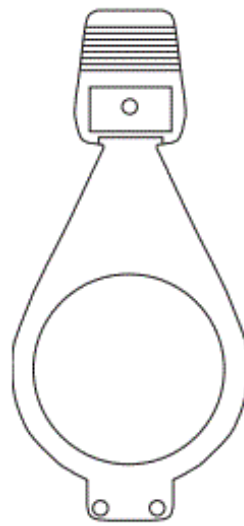
On a fixed field angle Source Four jr with a 26°, 36° or 50° lens, adjust the lens single beam focus knob to focus the edge of the beam. On a Source Four jr Zoom, adjust the position of both lens beam focus knobs to set the beam's spread and to focus the edge of the beam. The Zoom lens provides a range from 25° to 50°.



1. Loosen the beam focus knob(s) on the underside of the barrel as shown at right.
2. Slide the lens(es) forward or backward to achieve the desired beam edge.
3. Once the fixture is focused, tighten the beam focus knob(s).

Shaping the beam

The beam can be shaped using the shutters, a pattern, or an optional drop-in iris.



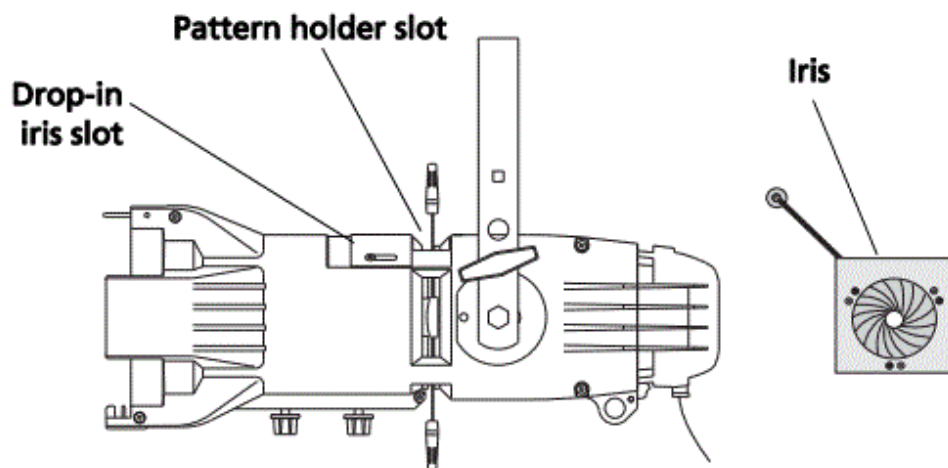
**M-Size
Pattern holder**

Pattern Projection

- The pattern holder slot is on the top side of the barrel and in front of the shutters. It accommodates an M-size pattern holder (see figure at right). The pattern holder handle can be bent away from the shutter handle to keep it from interfering with the action of the shutter handle.
- Use an optional donut in the accessory holder to enhance pattern projection. The donut diameter range should be 2.5" to 2.75".

Drop-In Iris Slot

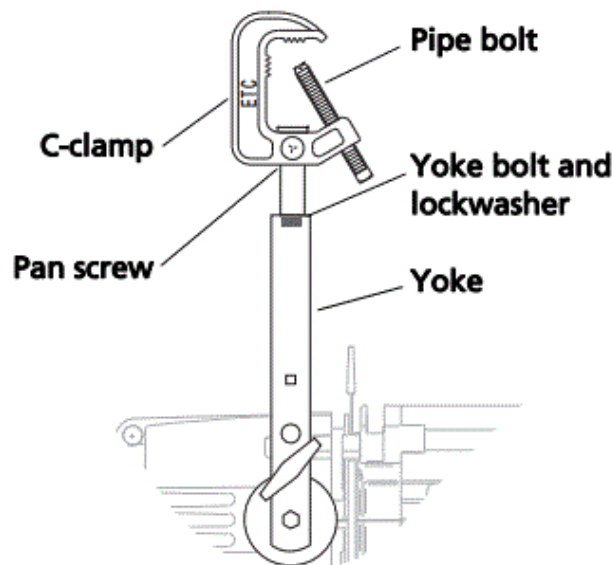
The drop-in iris slot is located on the top of the barrel and in front of the pattern holder slot. It accommodates either a drop-in iris or a motorized pattern device. When the slot is not in use, a small sheet metal cover secured with two Phillips screws prevents light leakage (see figure below).



1. Use a Phillips screwdriver to loosen the screws on the drop-in iris slot cover. Do not remove screws.
2. Slide the cover completely forward to expose the slot.
3. Insert the iris with the flat side toward the shutters and make sure the iris handle extends from the slot.
4. Slide the slot cover back toward the shutters until it meets the iris handle. Leave enough space to move the iris handle.
5. Secure the drop-in iris slot cover by tightening the screws.

Adjusting the C-clamp

The C-clamp attaches the fixture to the mounting pipe and allows you to adjust the position of the fixture once it is mounted (see figure at right).



1. Tightly fasten the C-clamp to the yoke with the provided yoke bolt and lock washer.
2. Place the C-clamp on the mounting pipe, and then tighten the pipe bolt to secure it.
3. Loosen the C-clamp pan screw and rotate the yoke to the desired position.
4. Tighten the pan screw to lock the fixture.

CAUTION: Tighten the C-clamp pipe bolt to 15–20 ft./lbs. (approximately finger tight plus up to one-quarter turn). Do not exceed 25 ft./lbs. Do not use excessive force.

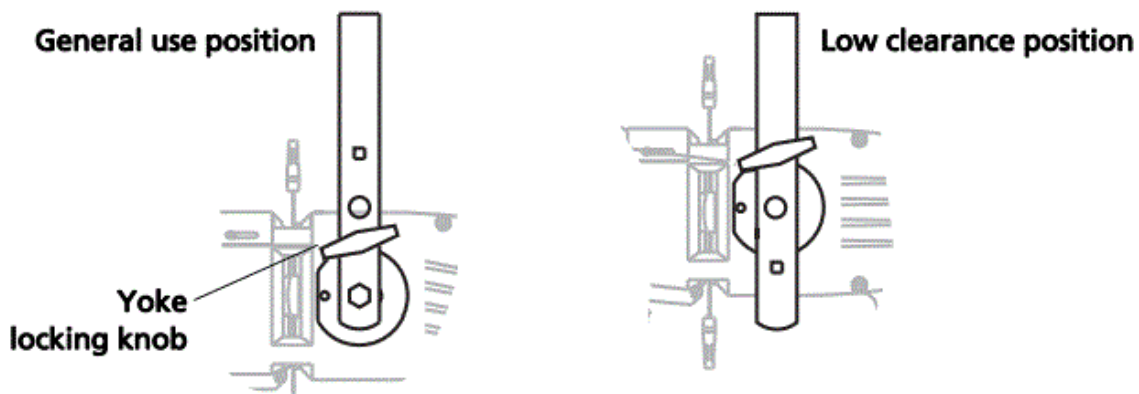
Tighten the yoke pivot bolt to 5–10 ft./lbs. (approximately finger tight plus up to one-eighth turn). Do not exceed 15 ft./lbs. Do not use excessive force.

Adjusting the yoke position

The Source Four jr/jr Zoom provides multi-positioning capabilities within its yoke for overall fixture height and angle.

Setting the fixture height within the yoke

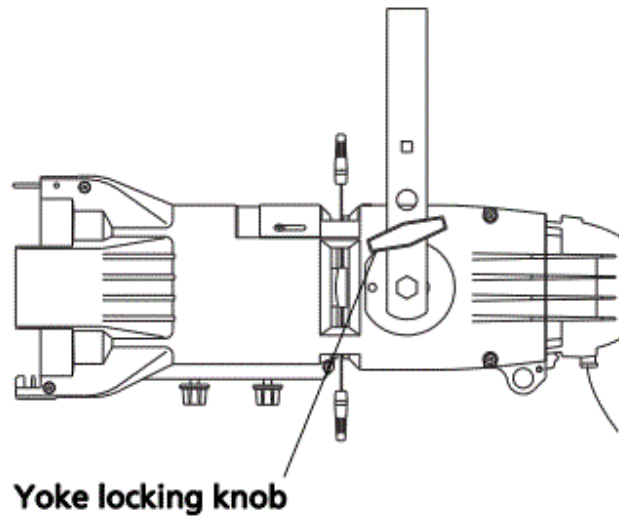
The fixture is equipped with a two-position yoke for modifying the overall height in which the fixture is mounted (see figure below). To change the height position, perform the following steps.



1. Remove the yoke locking knobs, washers, and hex bolts from either side of the fixture.

2. Raise or lower the fixture to the desired position within the yoke.
3. Reinstall the yoke's hex bolts, washers, and locking knobs.
4. Tighten the yoke knobs to secure in position.

Setting the angle within the yoke

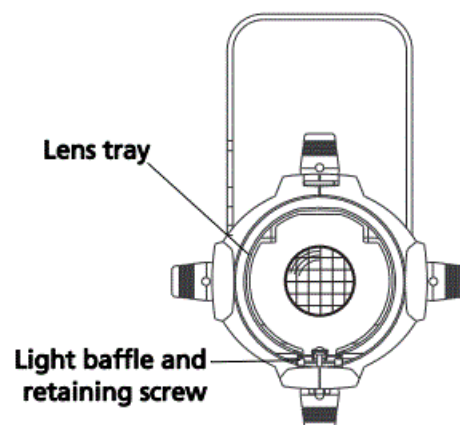


1. Loosen the yoke locking knobs (see figure at right). Do not remove them.
2. Tilt the fixture to the desired position.
3. Tighten the yoke locking knobs to secure in position.

Lens and Reflector

Switching lens assemblies

Follow these procedures to replace a fixed field lens with a Zoom lens.



1. Loosen the screw at the front of the baffle. See figure at right.
2. Pull the light baffle out of the barrel.
3. Remove the beam focus knob from the bottom of the barrel and slide the lens assembly from the barrel.
4. Slide the Zoom lens rear assembly into the barrel and install its beam focus knob.
5. Slide the Zoom lens front assembly into the barrel and install its beam focus knob.
6. Reinstall the light baffle and secure it with the retaining screw.

Note: Reverse steps 1–6 to replace the Zoom lens with a standard lens.

Cleaning glass lens

WARNING: Do not use ammonia-based or other harsh commercial cleaners. Clean lens 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.

1. Remove the lens assembly. See Source Four jr/jr Zoom Assembly Guide for lens removal instructions.
2. 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.
3. Reinstall the lens assembly.

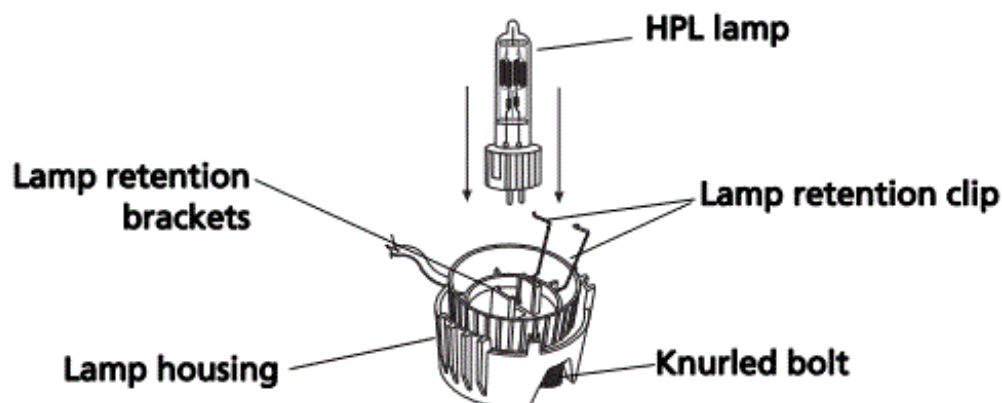
Cleaning the reflector

WARNING:

- Unplug the fixture before attempting to clean the reflector.
- Do not use ammonia-based or other harsh commercial cleaners. Clean 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.

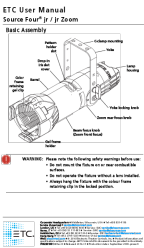
To quickly clean the reflector, remove the lens tube and clean the dust from the reflector with a blast of oil-free air. You may also wipe the reflector with a clean lint-free cloth. If either method is not sufficient, follow these steps.

1. To protect the lamp housing during cleaning, remove the lamp housing by loosening the knurled bolt and pulling the housing straight out. See the figure below.






2. Remove the lens. See Source Four jr/jr Zoom Assembly Guide for full fixture disassembly/assembly instructions.
3. 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.
4. Reinstall the lamp housing and tighten the knurled bolt.
5. Reinstall the lens.

Documents / Resources

 The image shows the cover of the ETC User Manual for the Source Four jr Zoom. It features a technical diagram of the lighting fixture with various components labeled. Below the diagram, there is a 'WARNING' section with safety instructions. The ETC logo is visible in the bottom left corner.	<p>ETC 222116 Source Four jr Zoom [pdf] User Manual 222116 Source Four jr Zoom, 222116, Source Four jr Zoom, Four jr Zoom, Zoom</p>
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