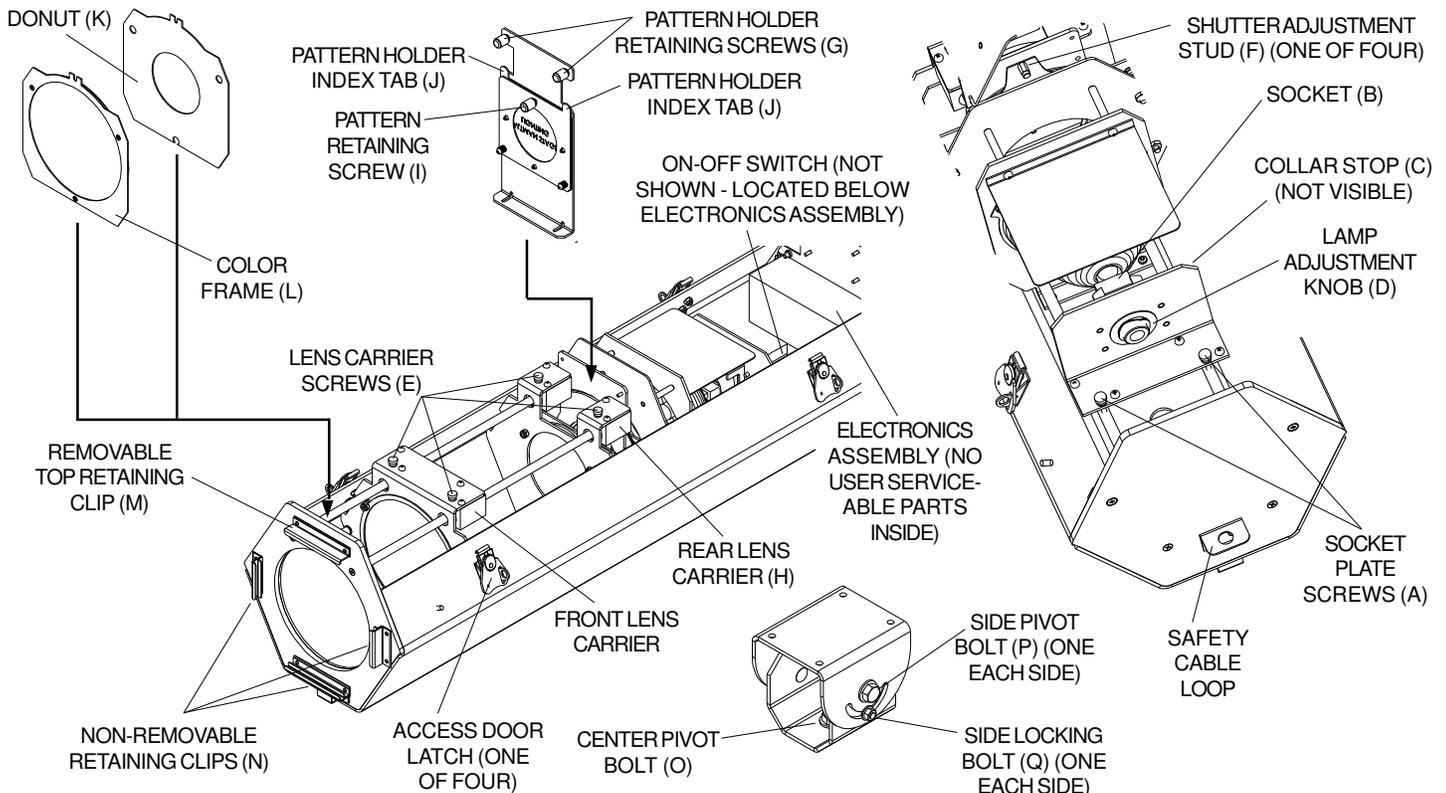


ODEC SERIES SAFETY INSTRUCTIONS AND OPERATING PROCEDURE - SAVE THESE INSTRUCTIONS

- CAUTION:** Read and understand these entire instructions before proceeding.
- CAUTION:** Always wear safety goggles that provide adequate shatter and UV protection and leather gloves or the like when servicing or adjusting this fixture.
- CAUTION:** Disconnect fixture from electrical supply before initial lamp installation, relamping, or servicing for any reason. Certain adjustments require that the lamp be energized, as indicated on opposite page). Use extreme caution when making those adjustments. Do not look directly at lighted lamp. Do not touch lighted lamp.
- CAUTION:** Risk of electrical shock; this unit must be grounded when operating.
- CAUTION:** Do not use this fixture on a dimmable circuit.
- CAUTION:** Do not expose internal components to rain or other adverse weather conditions.
- CAUTION:** Do not operate in temperatures below -10°F (-23°C) or above 120°F (49°C).
- CAUTION:** This fixture is a source of intense heat and is not intended for residential use. Risk of fire or injury, avoid contact by persons or materials. If fixture is hot, allow it to cool before relamping.
- CAUTION:** Do not touch glass portion of lamp with your hands. Agents such as sodium, grease, or oil from your fingers may be transferred to the glass wall. These contaminants can cause lamp to rupture or can greatly reduce the performance and life of the lamp. If accidentally soiled, immediately clean the lamp with a soft, clean, lint-free cloth soaked in methylated spirits (denatured alcohol), and then wipe with a dry, soft, clean, lint-free cloth.
- CAUTION:** Never allow materials to come in contact with hot lamp. Protect lamp from abrasions and scratches.
- CAUTION:** Do not operate fixture with damaged cord, wires, connectors or components.
- CAUTION:** Keep access door closed and latched when except when servicing or adjusting this fixture. These lamps reach very high temperatures. Under certain circumstances, internal or external influences may cause lamp to rupture.
- CAUTION:** Keep all pan and tilt bolts tight. Make sure safety cable is attached to unit at all times.



PLEASE NOTE that there is a lighted ON-OFF convenience switch located inside the housing below the electronics assembly.

A. Lamp Installation (Disconnect fixture for this procedure. Read and follow ALL safety precautions before proceeding.)

Loosen the two knurled brass screws (A) on the socket plate and slide the socket plate to the rear of unit as far as it will go. Insert lamp fully into socket (B). Be sure lamp is properly seated by pressing down firmly on both sides of the lamp base. After installing the lamp, slide the socket plate forward until it hits the collar stop (C) on the rail, then re-tighten the two knurled brass screws. **CAUTION!** Do not touch glass portion of lamp with your hands. Agents such as sodium, grease, or oil from your fingers may be transferred to the glass wall. These contaminants can cause the lamp to rupture or can greatly reduce the performance and life of the lamp. If accidentally soiled, immediately clean the lamp with a soft, clean, lint-free cloth soaked in methylated spirits (denatured alcohol), and then wipe with a dry, soft, clean, lint-free cloth.

B. Lamp Centering (Lamp should be ON for this procedure. Read and follow ALL safety precautions before proceeding.)

The lamp may be centered within the reflector by loosening the black lamp adjustment knob (D) and carefully positioning the lamp until the brightest portion of the beam, or "hot spot," is centered in the entire beam, or "field." Once the hot spot has been centered, tighten the black lamp adjustment knob to lock the lamp in place.

C. Beam Adjustment (Lamp should be ON for this procedure. Read and follow ALL safety precautions before proceeding.)

The overall appearance of the field may be altered by slightly adjusting the position of the collar stop (C) mentioned above. The hot spot may be increased (peak field) or decreased (flat field) by moving the collar stop slightly towards the front or rear of the fixture respectively. The set screw in the collar stop requires a standard 3/32 hex key tool (not included).

D. Focusing (Lamp should be ON for this procedure. Read and follow ALL safety precautions before proceeding.)

The overall size of the beam and sharpness of its edge can be altered by adjusting the position of the two lenses. They can be moved by loosening the two knurled brass screws (E) on each respective lens carrier and sliding each lens into the desired position. When the two lenses are closest to each other, the beam will be at its widest spread. As they are set away from each other, the beam size will get smaller. Once the lenses are set, re-tighten all four knurled brass screws.

E. Beam Shaping (Lamp should be ON for this procedure. Read and follow ALL safety precautions before proceeding.)

The four shutters are used to shape the beam pattern. By moving these shutters in and out or side to side, a wide variety of beam shapes and cutoff angles are possible. A shutter adjustment tool is provided on the cover. Simply slip one of the 12 point openings over one of the four shutter adjustment studs (F) and rotate or push/pull the shutter to the desired position. Remember, the left-hand shutter as you stand at the rear of the fixture will shape the right-hand side of the beam, and the top shutter affects the bottom of the beam, and so on.

F. Pattern Installation (Disconnect fixture for this procedure. Read and follow ALL safety precautions before proceeding.)

A total of two patterns, glass and/or metal, may be installed in the pattern holder. To do this, first remove the holder by loosening the two knurled black retaining screws located at the top (G). Gently tilt the holder toward the front of the fixture, rotate 90 degrees and lift it out. NOTE: You may first have to move the rear lens carrier (H) forward in order to clear the pattern holder. To install the patterns, first remove the center knurled black retaining screw (I), then carefully tilt one of the two index tabs (J) forward to expose the pattern aperture. A single pattern may be installed in each aperture. Reinstall the knurled black retaining screw until the entire assembly is sandwiched snug. Next reinstall pattern holder into the unit reversing the steps above. If you moved the rear lens carrier to get the pattern holder out, be sure to set it back to its original position. Remember, patterns must be installed upside down and backwards for proper projection. NOTE: If no patterns are to be used, it is best to operate the unit without the pattern holder installed.

G. Donut and Color Frame Removal (Disconnect fixture for this procedure. Read and follow ALL safety precautions before proceeding.)

The donut sharpens an image projected by a pattern, and should be removed when not using patterns since it reduces light output. To remove the donut (K), pull the outer sleeve of the retaining latch outward, rotate it upward 90°, and release. Use this same procedure to also remove the color frame (L). Both plastic or dichroic glass color media may be installed in the color frame. Simply remove the three philips head screws to separate the two color frame halves and insert the desired color media. Reinstall the screws and insert the color frame into the fixture with the screw heads facing the rear of the fixture. Make sure that the bottom edge of the color frame and donut (if used) are seated in the bottom channel. Set the retaining latch to its original horizontal position.

H. Scroller Installation (Disconnect fixture for this procedure. Read and follow ALL safety precautions before proceeding.)

A scroller can be installed by removing the two uppermost nuts on the inside front of the fixture. This will allow the outer top front retaining clip (M) and gasket to pull free from the unit. Place the scroller into the remaining 3 clips (N) and reinstall the upper clip, gasket, and nuts.

I. Pan And Tilt (Read and follow ALL safety precautions before proceeding.)

Pan adjustments can be made by simply loosening the center pivot bolt (O) and rotating the unit to the desired position. Tilt adjustments for the unit are made by first loosening the two upper side pivot bolts (P), then carefully loosening the two lower side locking bolts (Q). **WARNING!** Use extreme caution when loosening the two locking bolts as the unit may be out of balance! Serious injury to persons and or damage to the fixture can result if proper care is not taken! Re-tighten all pan and tilt bolts when finished!

J. Lens Cleaning (Disconnect fixture for this procedure. Read and follow ALL safety precautions before proceeding.)

Clean the lenses with a mild soap and water or a commercial glass cleaning solution and a soft, clean, lint-free cloth. Lightly apply the cleaner to the cloth, and then wipe the glass without letting any of the cleaning agent contact the metal parts inside. Many cleansers and soaps can be corrosive. Insure that the cleaning process does not leave a film on the lens, since the heat from the beam and exposure to sunlight will bond the film onto the surface.