

CTSA Automatic Lens and Aperture Changer Installation Instructions

TOOLS NEEDED:

SLOTTED SCREWDRIVER
3/4" COMBINATION WRENCH
JIG SAW WITH FINE TOOTH BLADE
HALF ROUND FILE

STEP 1: Remove Lens from Projector and store in a safe place.

- 2: Remove Projector Head from Sound Head and place on a sturdy Work surface.
- 3: Remove the Door and Hinge from Operating side of Projector.
- 4: Remove the Film Trap from Projector and set aside.
- 5: Remove the Light Shield Assembly *from* the Projector and set aside for reuse.
- 6: Remove the Film Trap Support Assembly. **SAVE** the (3) mounting screws for reuse.
- 7: Remove the Film Gate Tube Assembly by removing the (4) mounting screws (2) on the top and (2) on the bottom of this assembly.
- 8: Remove Lens Holder Assembly.
 - A) Loosen and remove the Upper eccentric lock Nut and Bushing.
 - B) Loosen the (4) lower mounting screws and remove. **SAVE** these for reuse.
 - C) Slide the Lens Holder assembly out of the Projector.
 - D) Remove the upper eccentric adjust stud from the casting.

IMPORTANT NOTE: Make sure the two index pins located in the lower mounting pad for the lens holder assembly on the main frame stay in the main frame. If not, reinsert them in the frame.

- 9: Remove Framing Knob, Shutter Timing Adjust Knob, and Shutter Shaft Knob and set aside for reuse.

- 10: Remove Shutter Timing Bushing Nut, set aside for reuse.
Next from the non-operating side of the Projector open the Door and pull the Shutter Timing Flex Shaft into the Housing and shut the door.
- 11: Place the Marking Template on front of the Projector Casting. Holes are provided on the template to index it in the proper position. The template holes go on the Framing Shaft, Shutter Shaft, and Framing Lamp Switch.
- 12: Holding the Template firmly against the casting scribe the cut line along the inside edge of the Template. Do this a few times to insure a solid cut line.
- 13: Remove the Template.
- 14: Now with the Jig Saw carefully cut the casting along the scribed line.

**** IMPORTANT NOTE ****

DO NOT CUT THE CASTING WITH THE TEMPLATE IN PLACE

- 15: Now take a Half Round File and Dress the casting where the cut was made by the JigSaw to remove any rough edges.
- 16: Clean all filings from the Projector.
- 17: Remove the New Kelmar Automatic Lens Turret Assembly from its shipping container.
- 18: Install the New Kelmar Automatic Lens Turret Assembly where the old Lens Barrel assembly was previously located on the Projector. To mount the Turret hold it in position on the (2) index pins in the casting and insert the screws which were set aside in STEP B: and tighten down securely.
- 19: Remove the New Kelmar Automatic Gate and Trap Assembly from its Shipping container.
- 20: Separate the Trap from Gate by first pulling on the Gate release pin then loosen the Trap retaining screw which is located on the side of the Trap just above the Aperture change mechanism.
- 21: Install the new Gate and Trap assembly where the previous Film Trap Support casting was located on the Main Frame and fasten It in position with the (3) screws which were set aside in STEP 6: and tighten securely.

- 22: Reinstall the Light Shield Assembly. A slight amount of filing might be required for the Light Shield to seat properly on the Main Frame.
- 23: Install the new Trap Assembly on the Gate. The Trap Indexes on its Mounting Pad by the means of (2) Hardened Steel index Pins on the Trap and (2) Hardened Steel Sockets in the Mounting Pad. Tighten the Trap retaining screw.
- 24: Reinstall Framing Knob, Shutter Shaft Knob, and the Shutter Timing Bushing Nut, Flex Shaft, and Knob.

If further assistance
is required contact:

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- 1 = FLAT STOP
- 2 = SCOPE STOP
- 3 = SIDE TO SIDE FLAT
- 4 = SIDE TO SIDE SCOPE
- 5 = FOCUS FLAT
- 6 = FOCUS SCOPE
- 7 = FLAT LENS CLAMPING SCREWS
- 8 = SCOPE LENS CLAMPING SCREWS
- 9 = DRIVE CLUTCH
- 10 = CHAIN TENSION ADJ. SCREWS

ADJUSTMENTS

