
TECHNICAL INFORMATION

Fingerprint Comparator Catalog Nos. FC281, FC281220

INTRODUCTION

The FC281 unit is an optical comparator designed specifically for the comparison of fingerprints, handwriting specimens, etc. The unit is portable and includes a built-in ambient light shield.

The FC281 will accept fingerprints from photographs, tape lifters, hinge lifters (transparent or opaque), rubber lifters and standard 8" x 8" (20cm x 20cm) record cards.



With the dual-focus system, objects having irregular or curved surfaces may be held in place over the optical target opening and a clear, sharp focus will be obtained. A unique, transparent Plexiglas™ holding plate permits exact positioning of any object. The object may also be placed on top of the plate and then focused upon.

Special Note: *Unpack the unit upon receipt and inspect for damage. If visible damage is noted, contact the delivering carrier. Save all packing materials and the shipping carton for inspection by the carrier.*

100 HUNTER PLACE, YOUNGSVILLE, NC 27596 USA

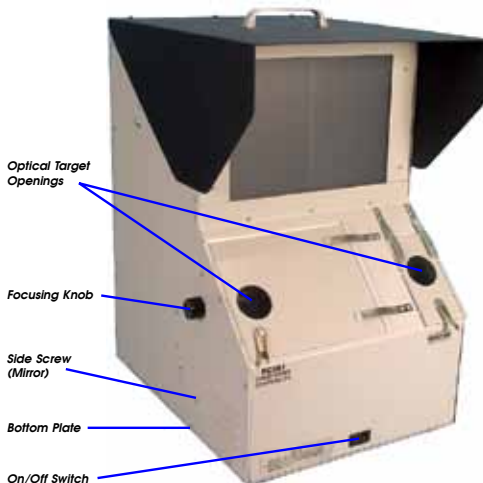
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PRECAUTIONS

- Hazardous voltages existing inside the comparator. Disconnect the power cable prior to removing the bottom plate. Leave power disconnected when replacing the lamp. Be certain to allow sufficient time for the lamp to cool.
- When adjusting the mirrors, power must be connected. Use extreme care reaching into the unit.

PROCEDURE

1. Place the unknown print face down under the Plexiglas™ on the right hand side of comparator. The print should be placed in the center of the opening.
2. Switch power to the ON position.
3. Rotate the knob on the right hand side of comparator to focus the print image on the screen.
4. Place the known print face down under the Plexiglas™ on the left hand side of the comparator.
5. Adjust the knob on the left side until the image is clear on the screen.
6. Proceed with the comparison



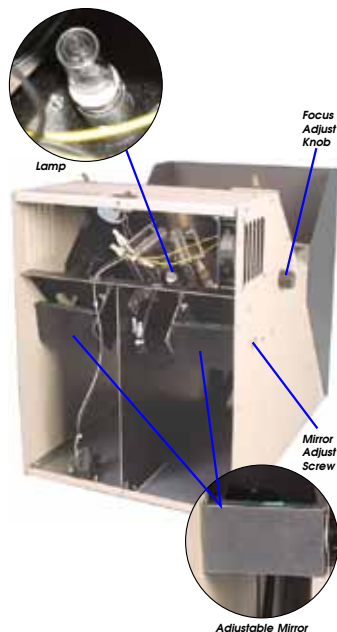
TROUBLESHOOTING

The FC281 Fingerprint Comparator is a delicate instrument that is adjusted at the factory to give maximum image size on the screen.

However, rough handling in shipment may result in minor adjustments being necessary. Before attempting to return the unit to the factory for servicing, please consult the troubleshooting section.

Partial Display on Screen:

1. Remove the bottom plate. Loosen four screws along each side of the bottom and the two screws on the bottom.
2. Place a print face down under the Plexiglas™ of the side experiencing a problem.
3. Switch power to the ON position.
4. Loosen the side screw at the lower middle of the side experiencing the problem.
5. Tilt the comparator back and reach under the unit. Carefully tilt the small bottom mirror until you get maximum screen filling of the print. Be careful not to touch wires or put too much pressure on the mirror as it may crack or result in a finger cut (ref. to other side for approx. angle).
6. Tighten the screw to lock mirror in place.
7. Replace the bottom plate.



Poor Focus:

1. Remove the bottom plate as described above.
2. Push the lens back with your finger until the gear engages. The lens should be even with the black angle plates that hold it in position.
3. The knob may be loose from the shaft. Tighten with a No. 6 Allen wrench.

To Replace Fuse:

1. Unplug the unit.
2. A 2-amp slo-blo fuse is located at the bottom of the back panel on the unit.
3. Remove the fuse and replace.

To Replace Bulb:

1. Unplug the unit.
2. Remove the bottom plate.
3. Push the bulb down and turn counterclockwise approximately 1/8" (3mm) and remove from the socket. Push a replacement bulb into the socket and turn clockwise until it locks in place.
4. Do not touch an unprotected bulb. Wrap paper around it or wear gloves.

MAINTENANCE

Clean the exterior cabinet and the Plexiglas™ plates using a mild soap solution. Clean the glass viewing screen with glass cleaner.

Replacement Parts

Caf. No. CGPCGS150-watt Projection Lamp