# Concealite Life Safety Products
# Model: F5000 Series
## (120/277 VAC Powered Chameleon Remote Fixtures)

Save These Instructions

**Important Safeguards**
**When using electrical equipment, basic safety precautions should always be followed:**

**Read and Follow All Safety Instructions**

1. **Do not use outdoors.**
2. **Do not let power cords touch hot surfaces. Do not mount units where they will be exposed to direct sunlight, radiators, gas or electric heaters.**
2. **Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.**
3. **CAUTION: Halogen lamps are used in this equipment. To avoid shattering, do not operate lamp in excess of rated voltage, protect lamp against abrasion, scratches and liquids when lamp is operating. Dispose of lamp with care.**
4. **Halogen lamps operate at high temperatures. Do not store or place flammable materials near lamps.**
5. **The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.**
6. **Do not use this equipment for other than intended use.**
7. **Qualified service personnel should perform servicing of this equipment.**

## Model: F5000 Series

| | |
|---|---|
| **AC Supply Voltage:** | **120/277 Volts (+/- 10%)** |
| **Power Consumption:** | **F5-REM-20 = 40 Watts**<br>**F5-REM-35 = 70 Watts**<br>**F5-REM-50 = 100 Watts**<br>**F5-REM-75 = 150 Watts** |
| **Lighting Head** | **358 degrees universal swivel rotation. 180 degree tilt position adjustment.** |

**Instructions for**
**Installation...Operation...Service**

Failure to follow published installation instructions or any modifications to the product may damage the unit and will void the warranty.

**This unit is designed for recessed mounting in gypsum board or plaster wall or ceiling. (Surface mounted is designated with suffix SM). Locate unit within area to best maximize lighted area under anticipated conditions.**

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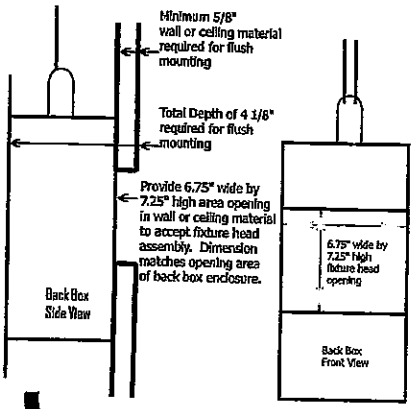
**Step #1: Backbox Installation**

**The recessed backbox is standard. If your installation requires the Surface Mount or Retrofit Backbox, please refer to the separate instructions for backbox installation.**




**Plaster Trim Mounting Detail**

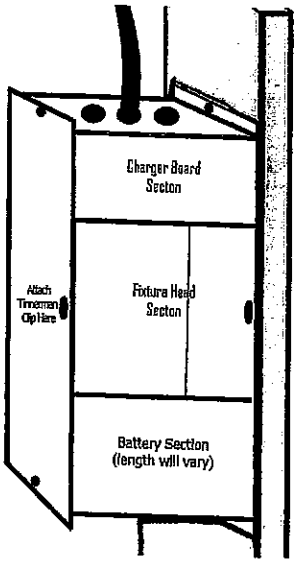
**Backbox is designed for recessed mounting in gypsum board or plaster wall or ceiling. When used in plaster wall or ceiling, install plaster trim option.**

**1. Securely fasten back box to stud, joist or blocking material using tabs at top and bottom of backbox with screws (not furnished).**

**2. For Wall Mounting – Mount with knockouts at top end.**

**3. For Ceiling Mounting – Mount with opening of backbox downwards.**

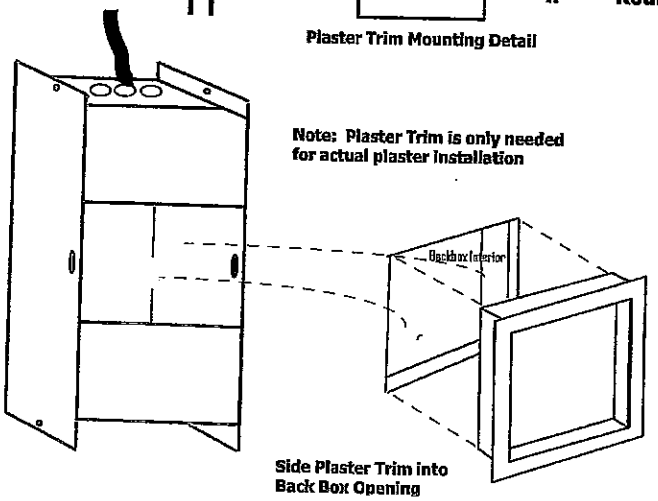
**4. Route branch circuiting in metallic raceway. Securely terminate into enclosure by KO's provided.**




**5. Install tinnerman clips over oblong holes in sides of backbox and screw bolts halfway in.**

**6. Install gypsum board or plaster wall or ceiling material.**

**7. Provide a 6.75" wide by 7.25" opening in wall or ceiling material to accept fixture head assembly. Dimension matches opening area of back box enclosure.**




**Note: Plaster Trim is only needed for actual plaster installation**

**Side Plaster Trim into Back Box Opening**

**Step #2: Branch Circuit Installation**

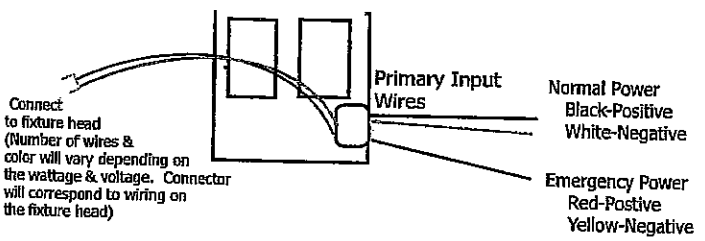
**Verify primary input voltage as either 120VAC or 277VAC. Please confirm that the primary voltage is the same as what is labeled on the transformer cradle. The transformer board shipped with the unit is designed specifically for the emergency and normal voltage and the wattage specified on your order.**

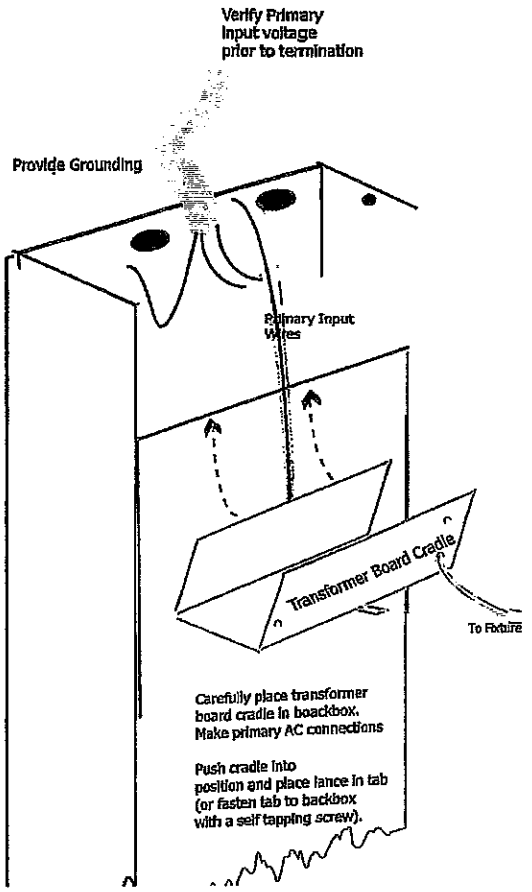
**NOTE: The color of the positive and negative wires for both normal and emergency power are noted on the transformer cradle. If the fixture is specified with generator only leads, only emergency power leads are provided.**

**Provide each unit with a single unswitched supply from (normal power) 120 VAC/277 VAC branch circuit used for normal lighting in the area to be protected.**

**The wiring should be a permanent installation using metal enclosed wiring raceway. A 13/16" diameter knockout is provided on the top of the recessed or retrofit backbox.**

**120V/277V Transformer Cradle**





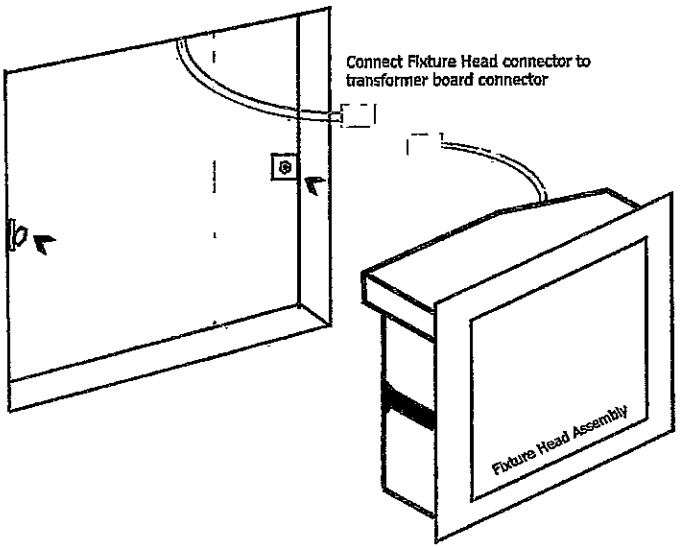

**Step #3: Transformer Board Installation**

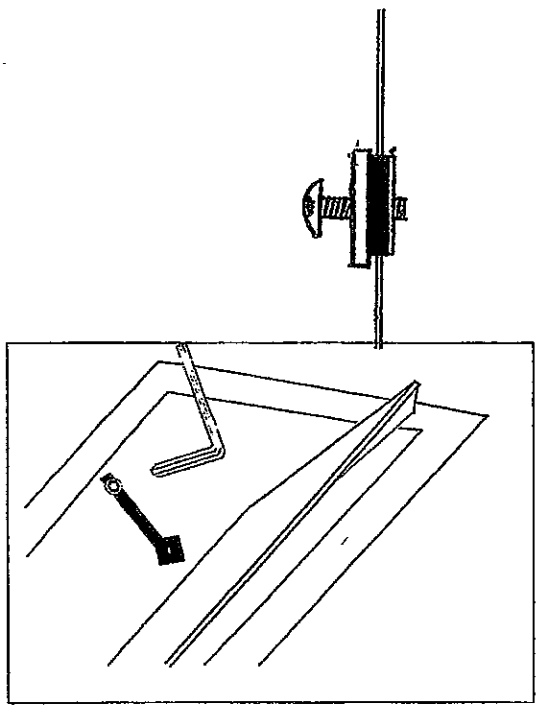
**Carefully slide transformer board assembly into the top of the backbox.**

**Place tab in backbox lance.**

**Step #5: Fixture Head Installation**

**Connect the Molex connector from the transformer board to the connector on the fixture head. The number of wires between the transformer board and fixture head are determined by the voltage and wattage of the ordered unit.**



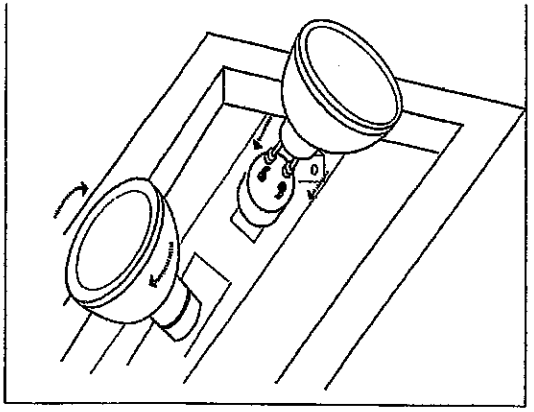



**Step #6: Fixture Head Mounting**

**Screw the socket head screws partially into the tinnerman clip on the side of the backbox.**

**Slide fixture head onto the heads of the two socket head bolts until flush with wall or ceiling surface.**

**With the door in a half open position, securely tighten the socket head screws evenly to each side of the backbox with the allen wrench provided**



**Step #7: Lamp Installation**

**Insert the locking bi-pin lamps by inserting the lamp into the lamp socket and rotate clockwise until locks in place.**

**Step #8: Energize primary branch circuit.**

**Troubleshooting**

| **Symptom** | **Possible Corrective Measure(s)** |
|---|---|
| **Unit does not operate when power is lost.** | **Verify AC power is energized to the remote power source**<br>**Verify wiring connections between power source & fixture.** |
| **Lamp(s) does not energize when in Emergency mode, but door rotates open** | **Remove lamp(s) and check lamp with resistance meter to verify condition.**<br>**Resistance indicated good lamp.**<br>**Open (no) resistance indicates bad lamp, replace lamp & retest.** |

**Taking a Unit Out of Service**

If a unit is to be deliberately taken out of service for an extended period, the positive battery lead should be disconnected from the charger so that the battery will go into storage in a fully charged condition. If there is any chance that a unit taken out of service may later be used on a different VAC circuit, tag the unit's current primary input selection as either 120VAC or 277VAC.

**Warranty**

**All Concealite fixtures are tested and are guaranteed to be free from defective materials and workmanship for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our option) and shall constitute fulfillment of all manufacturer's obligations. We will not allow any charge for labor, materials, etc that does not have our written approval before the work is begun. Damage incurring in handling or in transit are not covered by this guarantee. Any other warranty, expressed or implied, is hereby void. Modifications to the product or failure to follow installation instructions will void the warranty.**

## On Site Painting Instructions

1. The door and frame of the unit have been factory painted with a powder-coated paint with a hard finish. This finish should be roughened with a course steel wool or sandpaper before a new finish is applied to ensure the paint adheres to the factory finish.

2. When the new finish is applied, extreme care should be taken that a seal is not formed between the door and the frame, which would prevent the door from opening. Also, assure that the paint is not so heavy that it runs into the gearing mechanism. This damage will void the warranty on the unit.

3. If the finish is sprayed on, we suggest that a thin cardboard or plastic strip be inserted between the door and the frame to prevent a paint seal from being formed.

4. After the new finish is applied, a sharp edge such as a single edge razor or utility knife may be inserted in the opening between the door and frame and run around the circumference of the unit to ensure that no seal has been formed. The finish should be completely dry before this step is performed.

5. If the unit is being covered with material (wallpaper, cloth, laminate, etc.), allow the mastic used to apply the covering to completely set up. Use a sharp edge such as single edge razor or a utility knife held at a 20 to 30 degree angle against the frame and run the blade around the frame. Repeat this procedure holding the edge against the door. This will provide a beveled edge that will prevent the material from fraying as the unit operates.

## Concealite Life Safety Products
## Information Bulletin
## Power Requirements for the Chameleon Series

There are two ways to power the Chameleon from a generator source.
The Chameleon only needs to be powered during the emergency mode. The Chameleon automatically returns to the closed position when the emergency circuit is de-energized. However, monitoring what is actually happening within the area and supply sources available dictates whether one or two input circuits are needed.

Method #1 (one circuit)
**Provide one emergency power circuit that is energized only during the operation of the generator.** This can be sourced from the emergency panel circuit breakers typically located on the generator itself. Dedicated circuit breakers must be called out as part of the generator specifications. The emergency circuit voltage must be specified and can be either 120 Volt or 277 Volt AC.

Item # Example:
Concealite F5-REM-Wattage-120E/Generator Leads Only
or F5-REM-Wattage-277E/Generator Leads Only

Method #2 (two circuits)
**Provide one emergency power circuit from a building emergency panel.** This is typically a panel that is constantly supplied by normal power & backed up by emergency power via an automatic transfer switch from a generator. This emergency circuit would basically serve the Chameleon with a constant hot emergency source, so we need to notify the Chameleon when an actual emergency condition is occurring.
**Provide one normal power circuit from a building normal power panel that is not backed up by an emergency source.** This circuit would power a relay in the Chameleon that would sense the loss of normal power and close the contact on the emergency circuit serving the Chameleon during emergency mode.
The emergency and the normal branch circuit voltages must be specified and can be any combination of 120 Volt or 277 Volt AC.

Item # Example:
F5-REM-Wattage-120N/120E or F5-REM-wattage-277N/277E
F5-REM-Wattage-120N/277E or F5-REM-wattage-277N/120E