

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING FIXTURE

This fixture is intended for installation in accordance with the National Electrical Code and local regulations. To assure full compliance with local codes and regulations, check with your local electrical inspector before installation. To prevent electrical shock, turn off electricity at fuse box before proceeding.

Retain these instructions for maintenance reference.

INSTRUCTION SHEET NO.

IS:FAEM3

B0500

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Installation of Compact Fluorescent Emergency Ballast Accessory to Standard Calculite Four-Pin Compact Fluorescent Lamp Frame-In Kit

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD BE FOLLOWED INCLUDING THE FOLLOWING:

- 1. TURN OFF AC POWER BEFORE PROCEEDING.**
- 2. DO NOT INSTALL INSULATION WITHIN 3 INCHES OF FIXTURE SIDES OR WIRING COMPARTMENT, NOR ABOVE FIXTURE IN SUCH A MANNER AS TO ENTRAP HEAT.**
- 3. BE SURE ALL ELECTRICAL CONNECTIONS ARE COMPLETE AND THE JUNCTION BOX IS CLOSED BEFORE INVERTER CONNECTORS (LOCATED IN THE SWITCH/INDICATOR LIGHT BOX) ARE CONNECTED.**
- 4. DO NOT USE OUTDOORS.**
- 5. DO NOT LET POWER SUPPLY CORDS TOUCH HOT SURFACES.**
- 6. DO NOT MOUNT NEAR GAS OR ELECTRICAL HEATERS.**
- 7. USE CAUTION WHEN SERVICING BATTERIES. CONTAINS NICKEL-CADMIUM RECHARGEABLE BATTERY. MUST BE RECYCLED OR DISPOSED OF PROPERLY. DO NOT SHORT CIRCUIT; MAY CAUSE BURNS.**
- 8. EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT A HEIGHT WHERE IT WILL NOT READILY BE SUBJECT TO TAMPERING BY UNAUTHORIZED PERSONNEL.**
- 9. THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.**
- 10. DO NOT USE THIS EQUIPMENT FOR OTHER THAN INTENDED USE.**
- 11. THIS UNIT HAS MORE THAN ONE POWER SUPPLY CONNECTION POINT. TO REDUCE THE RISK OF ELECTRICAL SHOCK, DISCONNECT BOTH NORMAL AND EMERGENCY POWER SUPPLIES BEFORE SERVICING.**
- 12. BEFORE SERVICING TO PREVENT ELECTRICAL SHOCK, DISCONNECT THE INVERTER CONNECTORS OF THE EMERGENCY BATTERY PACK (LOCATED IN THE SWITCH/INDICATOR LIGHT BOX). MAKE CERTAIN THAT THE SWITCHED (IF THE FIXTURE IS SWITCHED) AND THE UNSWITCHED LINE TO THE EMERGENCY BATTERY PACK ARE TURNED OFF AT THE FUSE BOX. SERVICING SHOULD BE PERFORMED BY QUALIFIED SERVICE PERSONNEL ONLY.**
- 13. BEFORE ANY INSTALLATION, MAKE SURE TO CHECK THE COMPATIBILITY MATRIX BELOW BEFORE INSTALLATION. INCORRECT MATCHING MAY CAUSE ELECTRICAL SHOCK AND DAMAGE TO BALLASTS AND LAMPS. FOR USE WITH C, D, E OR G SERIES FRAME-IN KITS ONLY.**

Emergency Ballast	Lamp	Wattage	Compatible Ballast Type
FA-EM4F	Quad Tube 4-Pin	13W	Electronic F
	Quad Tube 4-Pin	18W	Electronic F
	Quad Tube 4-Pin	26W	Electronic D & F
FA-EM3E	Triple Tube 4-Pin	18W	Electronic G
	Triple Tube 4-Pin	26W	PowerSpec C & E, Electronic G
	Triple Tube 4-Pin	32W	PowerSpec C & E, Electronic G
FA-EM5E	Triple Tube 4-Pin	42W	PowerSpec C & E, Electronic G

SAVE THESE INSTRUCTIONS

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Retain these instructions for maintenance reference.

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E. CLOSE-IN (CONT.)

4. Pull down SWITCH/INDICATOR LIGHT BOX and clamp onto ceiling by tightening SCREWS on side of BOX (Fig. 4).
5. Connect INVERTER CONNECTORS in SWITCH/INDICATOR LIGHT BOX (Fig. 4).
6. Fasten TRIM PLATE to SWITCH/INDICATOR LIGHT BOX with LOCK NUT (Fig. 5).

F. ADJUST MOUNTING FRAME

1. Set MOUNTING FRAME so the bottom edge is flush with finished ceiling (Fig. 6).

Note: Final vertical adjustment can be made with MOUNTING BRACKET SCREWS (Fig. 7) on inside of MOUNTING FRAME.

G. OPERATION

When AC power is applied, the charging indicator light is illuminated indicating that the battery is being charged. When the power fails, the emergency lighting ballast automatically switches to emergency operation, keeping one lamp illuminated at reduced output for 90 minutes.

H. MAINTENANCE

Although no routine maintenance is required to keep emergency lighting ballast functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the emergency operation of fixture once every 3 months. One lamp should operate at reduced output.
3. Conduct a 90 minute discharge test once a year. One lamp should operate at reduced output for 90 minutes.

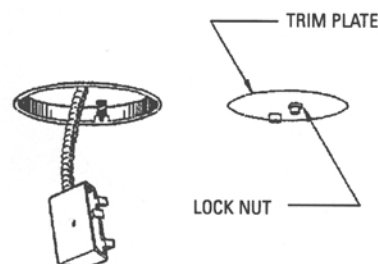
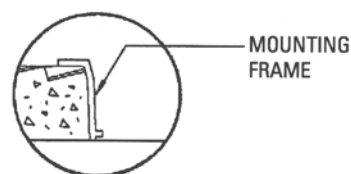
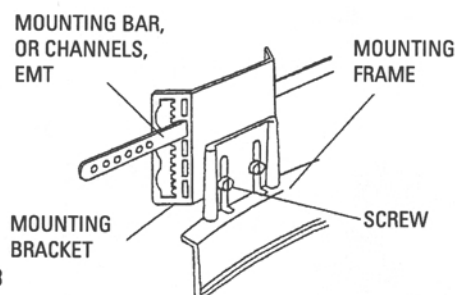
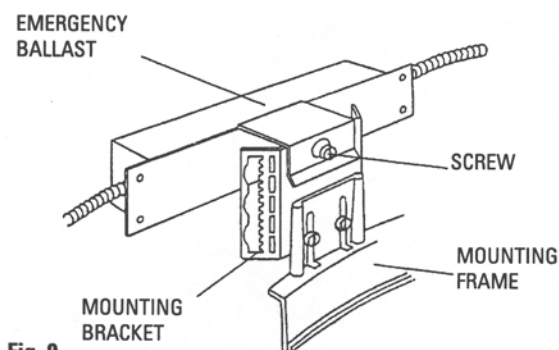
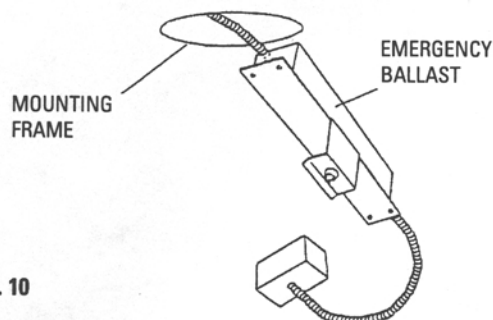
I. EMERGENCY BALLAST REPLACEMENT

1. Make sure AC power is off at fuse box.
2. Remove REFLECTOR (see reflector trim instruction sheet).
3. Remove TRIM PLATE by removing LOCKNUT (see Fig. 5); disconnect INVERTER CONNECTORS, loosen SCREW on side of SWITCH BOX and slip SWITCH BOX onto the ceiling.
4. Loosen SCREW away from EMERGENCY BALLAST ASSEMBLY (Fig. 8).
5. Pull EMERGENCY BALLAST off MOUNTING BRACKET and down through the frame opening (Fig. 9).
6. Unscrew and disassemble defective EMERGENCY BALLAST from SWITCH BOX and JUNCTION BOX.
7. Replace with new EMERGENCY BALLAST. Follow wiring diagram and instruction procedure as stated in this Instruction Sheet.

J. EXISTING INSTALLATION

NOTE: Emergency ballast kit may be installed after the frame-in kits and ceilings are finished. If ceiling is accessible from above, it may be easier to install the emergency ballast and wire from above.

- EMERGENCY BALLAST INSTALLS FROM ABOVE:
Follow installation instructions in Step A, B, D and E.
- EMERGENCY BALLAST INSTALLS FROM BELOW:
 1. Make sure AC power is off at fuse box.
 2. Remove REFLECTOR (see reflector trim instruction sheet).
 3. Install EMERGENCY BALLAST to the center of MOUNTING FRAME BRACKET as shown in Fig. 1 and 9.
 4. Go to step A, B, D and E.

**Fig. 6****Fig. 7****Fig. 8****Fig. 9****Fig. 10**