READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING FIXTURE

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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 FIX-TURE 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 EMER-GENCY 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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NEW INSTALLATION

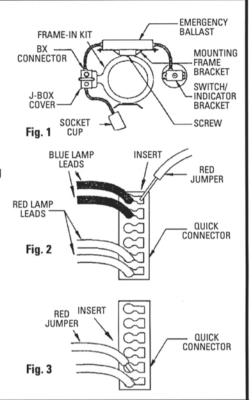
- INSTALLING EMERGENCY BALLAST TO STANDARD FRAME-IN KIT (Fig. 1 and 8).
 - 1. Before placing FRAME-IN KIT in the ceiling, install EMERGENCY BALLAST to the center of MOUNTING FRAME BRACKET as shown.
 - Tighten SCREW to secure two units together.
 - 3. Remove JUNCTION BOX COVER and appropriate J-Box K.O., then attach EMERGENCY BALLAST BX CONNECTOR.

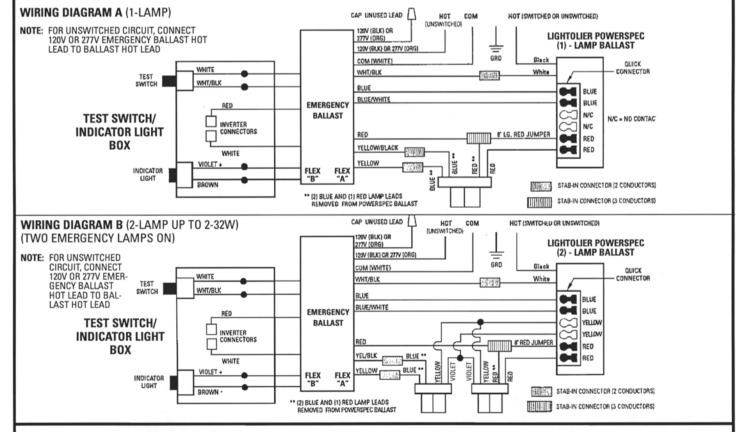
WIRING - Read and understand all instructions before proceeding.

- Make sure AC power is off at the fuse box.
- Regular ballast and emergency ballast must be fed from the same branch circuit.
- Be sure all electrical connections are made and junction box is closed before connecting inverter connectors in switch/indicator light box.
- In switched fixtures, emergency ballast must be connected ahead of any local switching.
- Emergency ballast is shipped from the factory ready for 277V supply connection. For 120V, remove wire nut from 120V lead (black) and then cap the 277V lead (orange).

INSTRUCTIONS FOR WIRING EMERGENCY BALLAST TO LIGHTOLIER POWER-SPEC BALLAST FOR (1) OR (2) 4-PIN LAMPS

- Disconnect either BLUE LAMP LEAD from BALLAST by inserting conductor of RED JUMPER (provided) into open terminal of QUICK CONNECTOR of BALLAST as shown in Fig. 2. Gently pull BLUE LAMP LEAD out. Then remove RED JUMPER for later use; a slight counterclockwise twist may be required.
- Repeat step 1 (above) to remove other BLUE LAMP LEAD and one RED LAMP LEAD from BALLAST (Fig. 2)
- Insert RED JUMPER all the way down into the terminal where the RED LAMP LEAD was previously removed from QUICK CONNECTOR (Fig. 3).
- Follow WIRING DIAGRAM A or B to complete the wiring at FLEX "A".





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INSTRUCTIONS FOR WIRING EMERGENCY BALLAST TO **ELECTRONIC BALLAST (NOT POWERSPEC) FOR (1) AND (2) 4-PIN LAMPS**

- Disconnect (2) BLUE LAMP LEADS and (1) RED LAMP LEAD (either one) from BALLAST(S).
- Follow WIRING DIAGRAM C and D to complete the wiring at FLEX "A".

WIRING DIAGRAM C (1-LAMP) UNCAP DESIRED SUPPLY LEAD (120V OR 277V) HOT COM HOT (SWITCHED OR HINSWITCHED) (UNSWITCHED) NOTE: FOR UNSWITCHED CIRCUIT, CONNECT 120V (BLK) OR LIGHTOLIER POWERSPEC 120V OR 277V EMERGENCY BALLAST HOT 277V (ORG) (1) - LAMP BALLAST LEAD TO BALLAST HOT LEAD 120V (BLK) OR 277V (ORG GREEN COM (WHITE) WHITE WHT/BLK White TEST · 1000 WHT/RIK BLUE BLUE BLUE/WHITE BLUE **EMERGENCY TEST SWITCH/** BALLAST INVERTER INDICATOR LIGHT CONNECTORS RED BOX RED YELLOW/BLACK -YELLOW 100 80 INDICATOR FLEX 图记 STAB-IN CONNECTOR (2 CONDUCTORS) (2) BLUE AND (1) RED LAMP LEADS REMOVED FROM ELECTRONIC BALLAST STAB-IN CONNECTOR (3 CONDUCTORS) WIRING DIAGRAM D (2-LAMP UP TO 2-32W) UNCAP DESIRED SUPPLY HOT COM HOT (SWITCHED OR UNSWITCHED) LEAD (120V OR 277V) (TWO EMERGENCY LAMPS ON) W:TCHEDI 120V (BLK) DA 277V (ORG) LIGHTOLIER POWERSPEC NOTE: FOR UNSWITCHED 120V (BLX) OR 277V (ORG (2) - LAMP BALLAST CIRCUIT, CONNECT GREEI 120V OR 277V EMER-COM (WHITE) **GENCY BALLAST** WHITE WHT/BLK White TEST SWITCH 4.94 HOT LEAD TO BAL WHT/BLK BLUE LAST HOT LEAD BLUE BLUE/WHITE BLUE **EMERGENCY** RED YELLOW **TEST SWITCH/** BALLAST INVERTER CONNECTORS YELLOW **INDICATOR LIGHT** RED RED BOX YEL/BLK BLUE ** RED WHITE BLUE * VIOLET 4 INDICATOR FLEX STAB-IN CONNECTOR (2 CONDUCTORS) ** (2) BLUE AND (1) RED LAMP LEADS REMOVED FROM ELECTRONIC BALLAST STAB-IN CONNECTOR (3 CONDUCTORS)

C. INSTALL MOUNTING FRAME TO CEILING SUPPORT

(See separate frame-in kit instruction sheet).

D. WIRE-IN

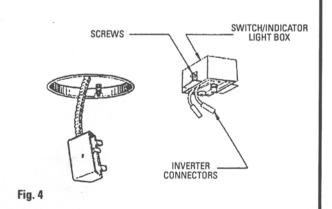
Connect supply leads to emergency ballast, PowerSpec or magnetic ballast and fixture ground wire as shown in WIRING DIAGRAM A, B, C or D. Cap unused lead. Close the junction box cover after wiring is completed.

E. CLOSE-IN

1. Cut appropriate hole size in ceiling for frame.

2. Cut hole in ceiling for SWITCH/INDICATOR LIGHT BOX in a convenient location to the side of frame (Fig. 4). The recommended hole size is 2-5/8" x 3-3/4".

Close-in ceiling.



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Retain these instructions for maintenance reference.

E. CLOSE-IN (CONT.)

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

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.
- 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.

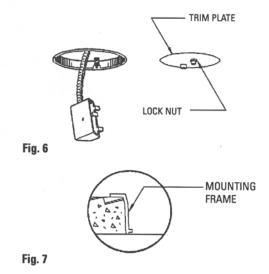
EMERGENCY BALLAST REPLACEMENT

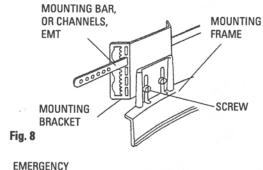
- Make sure AC power is off at fuse box.
- Remove REFLECTOR (see reflector trim instruction sheet).
- Remove TRIM PLATE by removing LOCKNUT (see Fig. 5); disconnect INVERTER CONNECTORS, loosen SCREW on side of SWITCH BOX and slip SWITCH BOX onto the ceiling
- Loosen SCREW away from EMERGENCY BALLAST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

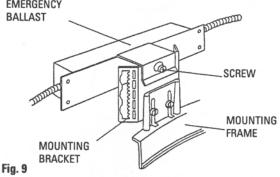
J. EXISTING INSTALLATION

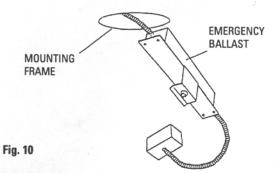
NOTE: Emergency ballast kit may be installed after the frame-in kits and ceilings are finished. If ceiling is accessible from above, it may be easier to install the emergency ballast and wire from above.

- **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 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.









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