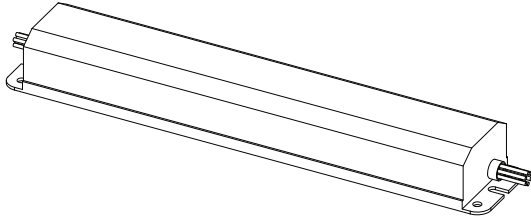


**SUPPLEMENTAL INSTALLATION INSTRUCTIONS
FOR USE WITH E-CONOLIGHT E-LF34X54U
LINEAR FLUORESCENT HIGHBAY**

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CAUTIONS

IMPORTANT SAFEGUARDS

This instruction manual is supplemental and is specific for use in E-conolight fixtures. If installing in any other fixture, follow generic installation and wiring instructions provided with the product

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. CAUTION - To prevent electrical shock, do not mate battery connector until installation is complete and A.C. power is supplied to the unit.
2. CAUTION - This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the A.C. branch circuit and by disconnecting the unit connector.
3. CAUTION - This is a sealed unit. The integral, high temperature Ni-Cad battery is not replaceable. Replace the entire unit when necessary and recycle or dispose of the nickel-cadmium battery properly.
4. Do not use outdoors. The emergency ballast is for use with grounded, UL listed indoor fixtures except in heated air outlets or hazardous locations.
5. The emergency ballast requires an unswitched A.C. power source of either 120 or 277Volts. Properly cap the unused A.C. lead.
6. Do not mount near gas or electric heaters.
7. The emergency ballast should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
8. The emergency ballast will cold strike and operate one lamp for 90 minutes.
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. Install in accordance with the National Electrical Code and local regulations.
12. Installation and servicing should be performed by qualified personnel.

SAVE THESE INSTRUCTIONS

INSTALLATION (EMERGENCY BALLAST)

1. Remove fixture ballast cover by removing (8) Torx screws. (Figure 1)
2. Remove (1) knockout from the end of the ballast channel. (Figure 2)
3. Install test switch by inserting through knockout hole and securing with nut. (Figure 3 and 4)
4. Insert one end of the emergency ballast in channel slot and secure the other end of the emergency ballast with screw. (Figure 5 and 6)

FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5

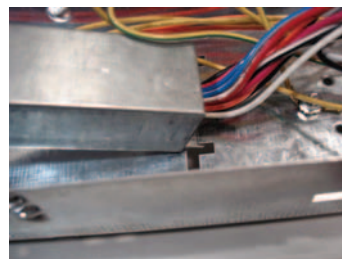
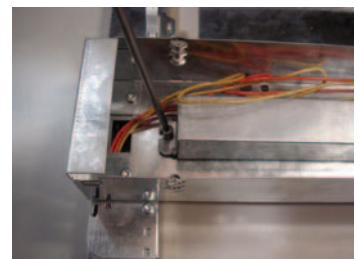


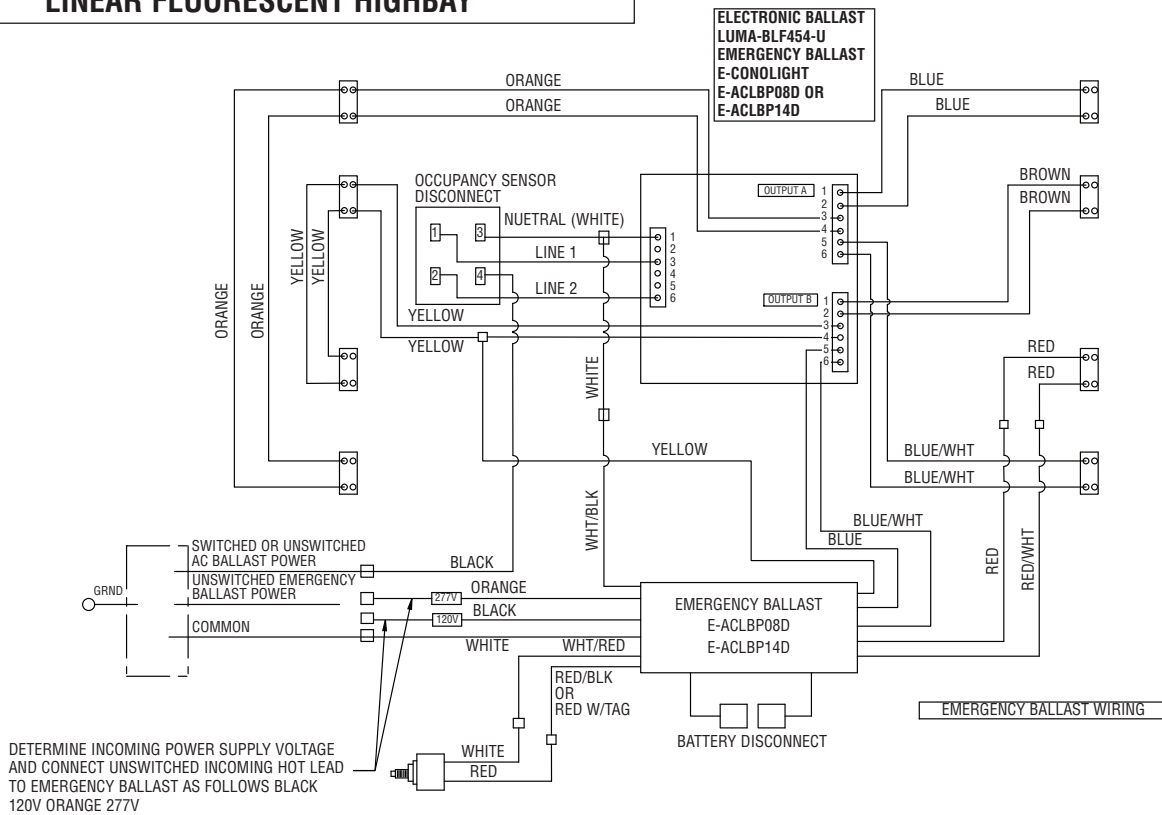
FIGURE 6



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FIGURE 7



INSTALLATION (WIRING OF EMERGENCY BALLAST TO FIXTURE) (FIGURE 7)

CAUTION – RISK OF ELECTRIC SHOCK – MAKE CERTAIN THAT THE BATTERY LEADS ARE NOT CONNECTED PRIOR TO ATTEMPTING TO WIRE THE EMERGENCY BALLAST.

1. Connect White/Red wire from Emergency ballast to White wire from test switch.
2. Connect Red/Black or Red w/Tag wire from Emergency ballast to Red from test switch.
3. Remove Red wire from Terminal 5 of output B on the A.C. fluorescent ballast and connect to the Red wire from the emergency ballast.
4. Remove Red wire from Terminal 6 of output B on the A.C. fluorescent ballast and connect to the Red/White wire from the emergency ballast.
5. Connect the Blue wire from the emergency ballast to Terminal 5 of output B on the A.C. fluorescent ballast.
6. Connect the Blue/White wire from the emergency ballast to Terminal 6 of output B on the fluorescent ballast.
7. Locate the Yellow wire connected to Terminal 4 of output B on the A.C. fluorescent ballast.
 - a. Cut the Yellow wire at the mid point between the ballast and the socket. **(Figure 8)** Remove approximately ½" of insulation from each end of the Yellow wires.
 - b. Connect the Yellow wire from the emergency ballast to the two Yellow wires from step **(7a)** with a wire nut. **(Figure 9)**
8. Remove and discard ballast disconnect as follows:
 - a. Cut Black and White wires close to the ballast disconnect and discard ballast disconnect.
 - b. Strip White wire **(8a)** approximately ½" and connect to the Black/White wire from the emergency ballast. Insulate connection with wirenut.
 - c. Strip Black wire approximately ½".
9. Install Fixture and bring in power supply leads as instructed in the fixture installation instructions.
10. Connect Power Supply leads as follows:
 - a. Connect incoming ground lead to the fixture ground wire (Green with yellow stripe)
 - b. Connect incoming neutral supply lead (white) to white lead from the emergency ballast.
 - c. Connect incoming fixture supply lead (switched or unswitched) to black lead stripped in step **(8c)** (Black lead to occupancy sensor disconnect).
 - d. Determine incoming power supply voltage (120V or 277V) and connect unswitched incoming hot lead to emergency ballast lead as follows:
 - i. Black if 120V
 - ii. Orange if 277V

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- e. Using wire nuts, insulate all connections and leads that were not used in step (10d) above.

NOTE: Both switched and unswitched power supplies must be connected to the same branch circuit.

- 11. Apply “**Caution**” and “**Test**” labels as follows:
 - a. “**Caution**: This unit has more than one Power supply” label to the inside of the wiring access panel.
 - b. “**Lighted Push button Test Switch**” label on the outside of the fixture next to the charge indicator test switch.

FIGURE 8

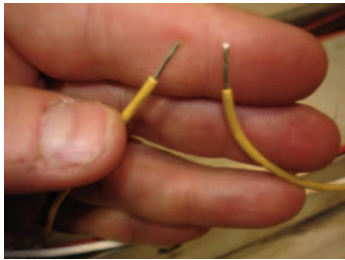
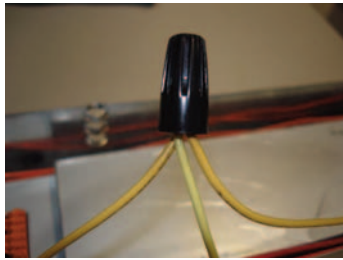


FIGURE 9



BALLAST OPERATION

Normal Mode – A.C. power is present. The A.C. ballast operates the fluorescent lamp as intended. The emergency ballast is in the standby charging mode. The Threaded Body Test Switch (TBTS) will be lit providing a visual indication that the battery is being charged.

Emergency Mode – The A.C. power fails. The emergency ballast senses the A.C. power failure and automatically switches to the emergency mode. One lamp is illuminated, at reduced output, for a minimum of 90 minutes. When the A.C. power is restored, the emergency ballast switches the system back to the normal mode and resumes battery charging.

TESTING AND MAINTENANCE

Pressing the red lens on the TBTS turns off the light on the TBTS and forces the unit into the emergency mode, interrupting power to the designated A.C. ballast. The emergency lamp is now being lit by the emergency ballast. After releasing the TBTS, the fixture returns to normal operation after a momentary delay. To simulate a “Black Out” use the circuit breaker to turn off A.C. power.

INITIAL TESTING

Allow the unit to charge approximately 2 hours, and then press the TBTS to conduct a short discharge test. Allow a 24 hour charge before conducting a one hour test. The emergency ballast is a maintenance free unit; however, periodic inspection and performance testing is required. NFPA 101, Life Safety Code, Test and Maintenance Procedures; or follow your local code.