



# KT-EMRG-700 /B

## FLUORESCENT EMERGENCY BALLAST

ASSEMBLY AND INSTALLATION INSTRUCTIONS

**WARNING:** When using this lighting device, safety precautions should be followed at all times.

**CAUTION:** Verify that all replacement lamp types marked on the installed luminaire are also identified as suitable for use with this inverter/charger pack.

### **READ THE INSTRUCTIONS BELOW CAREFULLY AND FOLLOW THEM FOR YOUR OWN SAFETY.**

1. Prior to installation, battery connector must be open to prevent high voltage from being present on out put leads (red & yellow). It must be connected only after installation is complete and A.C. Power is supplied to the unit.
2. This unit can operate commonly used linear and compact fluorescent lamps. Please refer to the "lamps list" label on the ballast for specific lamp information.
3. Please ensure the electricity connections conform to the National Electrical Code and local regulations if applicable.
4. To avoid electric shock, please disconnect normal and emergency power supplies, and battery connector of the emergency ballast before servicing.
5. This device is designed for factory or field installation in either the ballast channel, or on top of the fixture, except air handling heated air outlets, wet or hazardous location fixtures. Do not install this device near gas or electric heaters.
6. AC power source of 120 VAC or 277 VAC is required.
7. The battery is sealed, no-maintenance, and is not replaceable in the field. Please contact manufacturer for information on service. Do not attempt to service the battery.
8. Do not use accessory equipment that is not recommended by manufacturer. Failure to do so may cause unsafe conditions. Servicing should only be performed by qualified service personnel.
9. Do not use the product for other than it s intended purpose.

**SAVE THESE INSTRUCTIONS**



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**CAUTION:** Before installing, make certain the AC power is off and the battery connector is disconnected.

## 1. MOUNTING THE EMERGENCY BALLAST (BATTERY PACK)

Remove the ballast channel cover. Mount the **EMERGENCY BALLAST** in the ballast channel at least 1/2 "away from the A.C. ballast(s). When battery packs are remote mounted, the remote distance can not exceed 1/2 of the distance from ballast to lamp specified by the A.C. ballast manufacturer. For example, if the A.C. ballast manufacturer recommends no more than 25' remote distance, then the battery pack's remote mounting distance should not exceed 121/2'. Under no circumstances should the battery pack exceed a distance of 50' from the lamp(s).

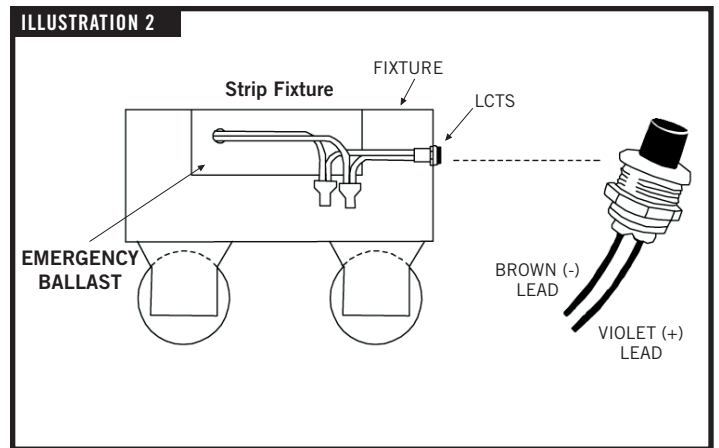
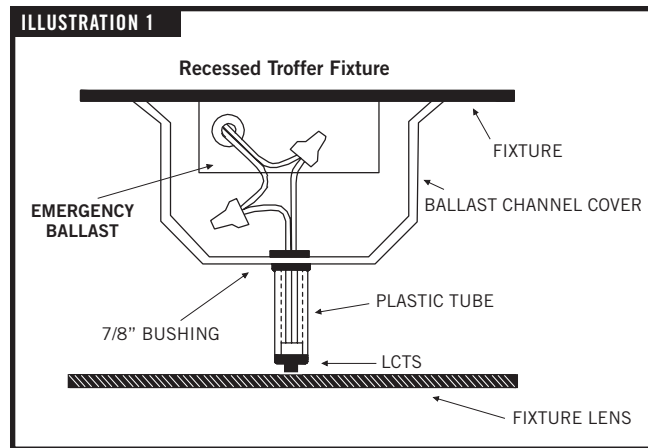
## 2. WIRING

Refer to the wiring diagrams on the back page for the appropriate wiring of lamp(s) and ballast. Install in accordance with the National Electrical Code and local regulations. For additional wiring diagrams consult Customer Service.

## 3. INSTALLING THE LED COMBO TEST SWITCH (LCTS)

**Recessed Troffer Fixture:** Select a convenient location with proper clearance in the ballast cover and drill or punch a 7/8" hole (1/2 "knockout). Insert the 7/8 "bushing into the hole. Push the plastic tube through the bushing. Route the leads of the **LCTS** through the plastic tube. Connect the wires from the unit to the **LCTS** (VIOLET to VIOLET, BROWN to BROWN). Push the entire assembly back into the tube until the lens collar rests against the plastic tube. The plastic tube should be adjusted so that the **LCTS** is within 1/4" of the fixture lens. The **LCTS** must be visible after installation. Refer to Illustration 1.

**Linear Fixture:** Select a convenient location on the fixture so the **LCTS** can be seen after installation. Allow for proper clearance inside the fixture and drill or punch a 1/2" hole. Remove the nut from the **LCTS**. Push the **LCTS** housing into the 1/2 "hole and secure with the nut. Connect the wires from the **LCTS** (VIOLET to VIOLET, BROWN to BROWN). Refer to Illustration 2.



## 4. WIRING THE A.C. INPUT

- The **EMERGENCY BALLAST** and A.C. ballast **must** be on the same branch circuit
- The **EMERGENCY BALLAST** requires an **unswitched** A.C. power source of either 120 or 277 volts. Select the proper voltage lead and cap the unused lead.
- When the **EMERGENCY BALLAST** is used with a switched fixture, A.C. Input to the **EMERGENCY BALLAST** must be connected ahead of the fixture switch. Refer to Illustration 3 for switched and unswitched fixture wiring diagrams.



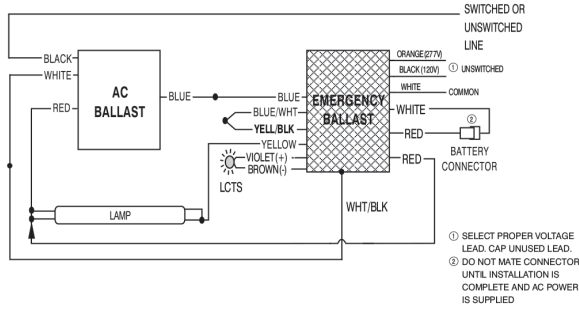
# WIRE DIAGRAMS FOR LAMP EMERGENCY OPERATION

## EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

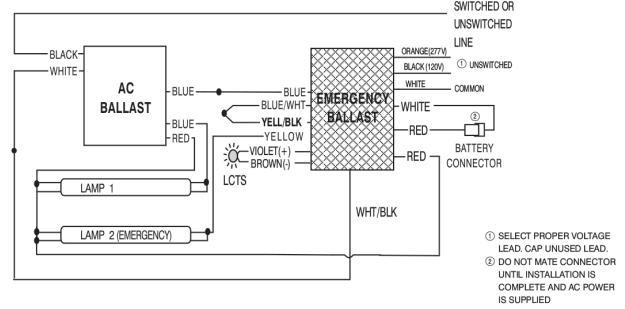
Typical schematics only. May be used with other ballasts. Consult the factory for other wiring diagrams.

### For One Lamp Emergency Operation

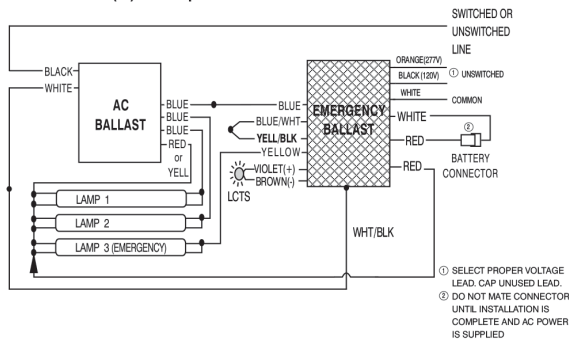
**A. One (1) Lamp Instant Start AC Ballast**



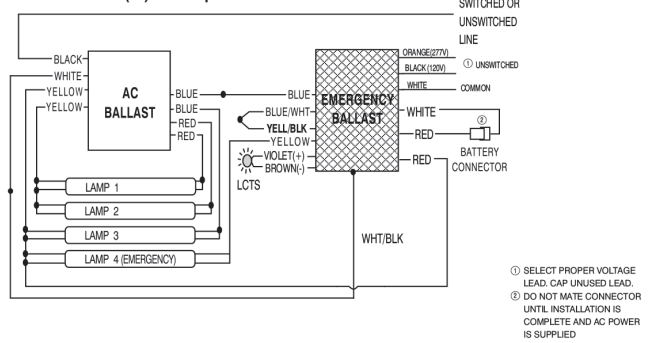
**B. Two (2) Lamp Instant Start AC Ballast**



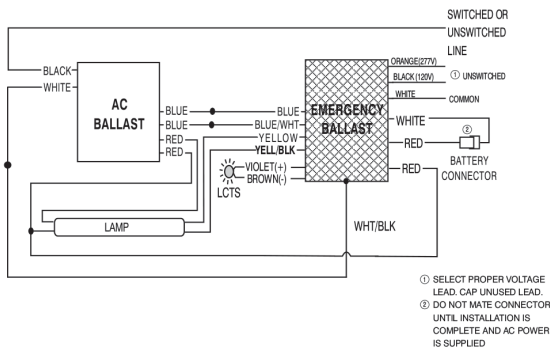
**C. Three (3) Lamp Instant Start AC Ballast**



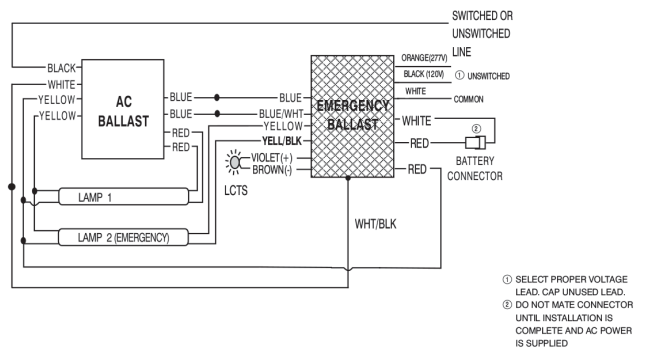
**D. Four (4) Lamp Instant Start AC Ballast**



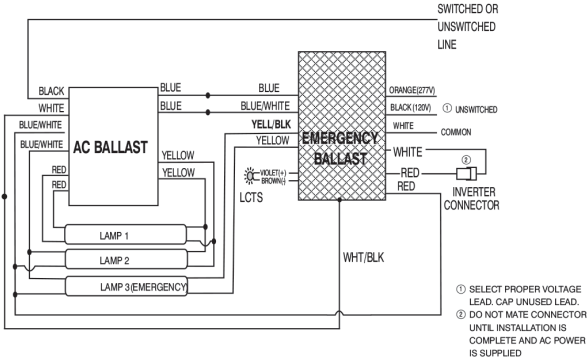
**E. One (1) Lamp Rapid Start AC Ballast**



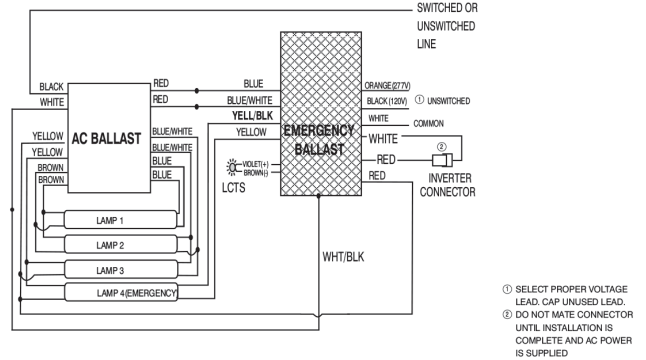
**F. Two (2) Lamp Rapid Start AC Ballast**



**G. Three (3) Lamp Rapid Start AC Ballast**



**H. Four (4) Lamp Rapid Start AC Ballast**



**NOTE: Use the proper tap to cap unswitched AC lead.**

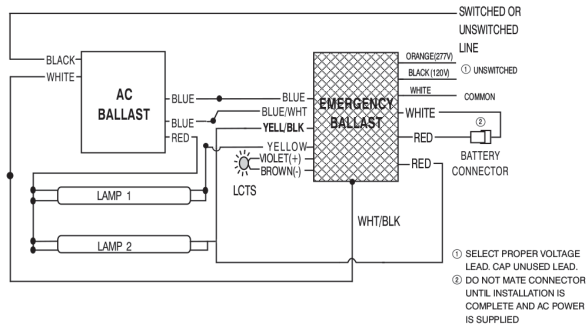
# WIRE DIAGRAMS FOR LAMP EMERGENCY OPERATION

## EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

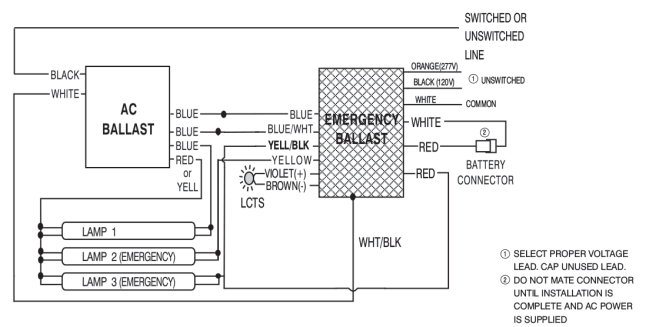
Typical schematics only. May be used with other ballasts. Consult the factory for other wiring diagrams.

### For Two Lamps Emergency Operation

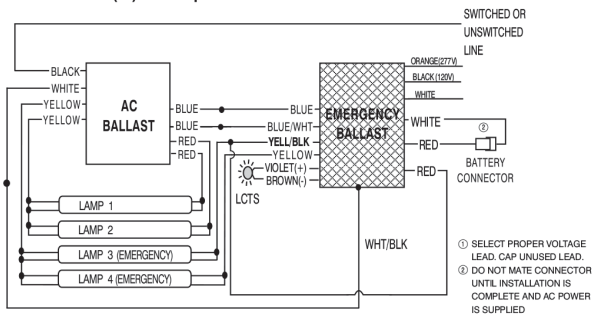
A. Two (2) Lamp Instant Start AC Ballast



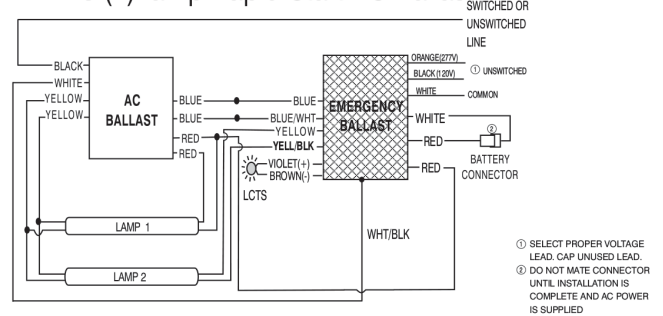
B. Three (3) Lamp Instant Start AC Ballast



C. Four (4) Lamp Instant Start AC Ballast

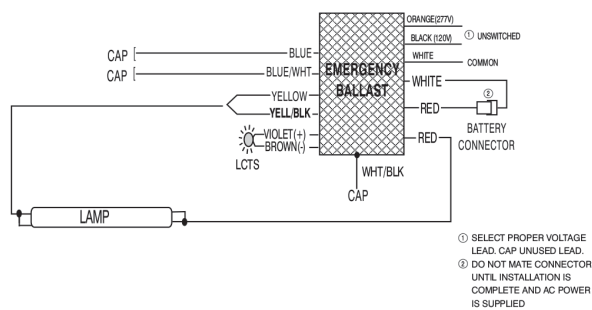


D. Two (2) Lamp Rapid Start AC Ballast

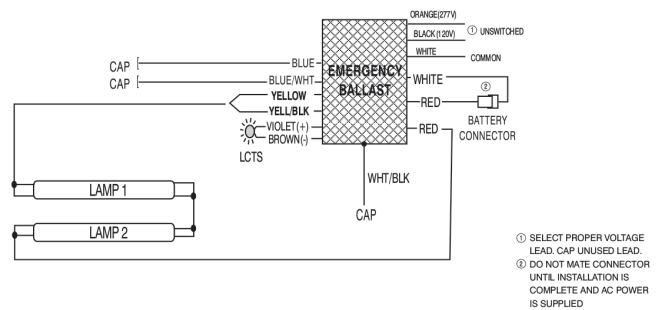


### Emergency only Operation

A. One (1) Lamp Without AC Ballast



B. Two (2) Lamp Without AC Ballast



**NOTE: Use the proper tap to cap unswitched AC lead.**