



# L3000T

## EMERGENCY FLUORESCENT LIGHTING BALLAST

### INSTALLATION AND OPERATING INSTRUCTIONS

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### IMPORTANT SAFEGUARDS

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

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

All servicing should be performed by qualified service personnel only.

To prevent electrical shock, do not connect emergency ballast battery connectors until installation is complete and AC power has been applied.

This product is designed for use in UL Listed indoor fixtures only, except for those used in air handling, heated air outlet or hazardous locations.

Mount only in locations, and at heights, where it will not readily be subjected to tampering by unauthorized personnel.

Do not let power supply cords touch hot surfaces.

Do not mount near gas or electric heaters.

Do not install in areas of excessive moisture.

Do not use this equipment for other than its intended use.

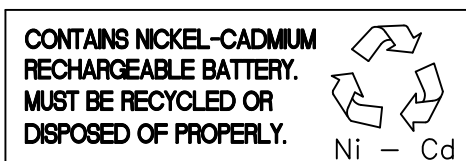
Do not attempt to service battery. Contact the manufacturer for information on servicing of equipment.

Ensure all power to fixture has been removed prior to start of installation.

Install in accordance with National Electrical Code and local code guidelines.

### SAVE THESE INSTRUCTIONS

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## PRODUCT DESCRIPTION

The L3000T emergency ballast requires an unswitched 120V or 277V AC input and is designed for use with 17–40W (2–4'), 40–215W (5–8'), single or bi-pin T8, T10 or T12; 18–55W, 4-pin long compact 2G11, and 18–42W, 4-pin compact G24Q and GX24Q lamps (refer to Table 1 for proper installation application). The L3000T provides a minimum of 90 minutes of emergency operation in accordance with UL924 requirements. A momentary test switch and charging indicator light are supplied with the L3000T.

The L3000T also has a Time Delay circuit that, when used in conjunction with an AC ballast with EOL detection, helps prevent false overvoltage and overcurrent detection, by the AC ballast, during the transition from emergency to normal operating mode.

### WARNING

ENSURE ALL AC POWER HAS BEEN REMOVED FROM FIXTURE  
BEFORE BEGINNING INSTALLATION

## INSTALLATION

CAUTION: TO PREVENT ELECTRICAL SHOCK, BATTERY CONNECTORS SHOULD NOT BE CONNECTED UNTIL INSTALLATION IS COMPLETE AND AC POWER HAS BEEN APPLIED TO EMERGENCY BALLAST.

1. Refer to Table 1 for proper application information.

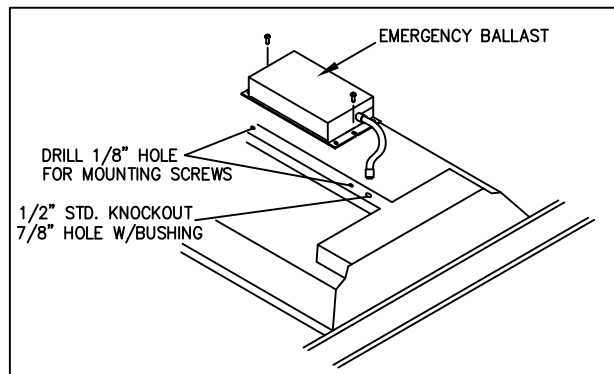
### EMERGENCY LAMP OPERATION

LAMP TYPE	BASE TYPE	WATTAGE & LENGTH	EMERGENCY LAMPS	BROWN LEADS
T8,T10,T12	SINGLE OR BIPIN	17–40W; 2'–4'	1	CLOSED
		40–215W; 5'–8'	2	OPEN
LONG COMPACT	4PIN (2G11)	40–215W; 5'–8'	1	OPEN
		18–39W	1	CLOSED
		40–55W	2	OPEN
COMPACT	4PIN (G24Q,GX24Q)	18–42W	1	OPEN
		18–42W	2	CLOSED

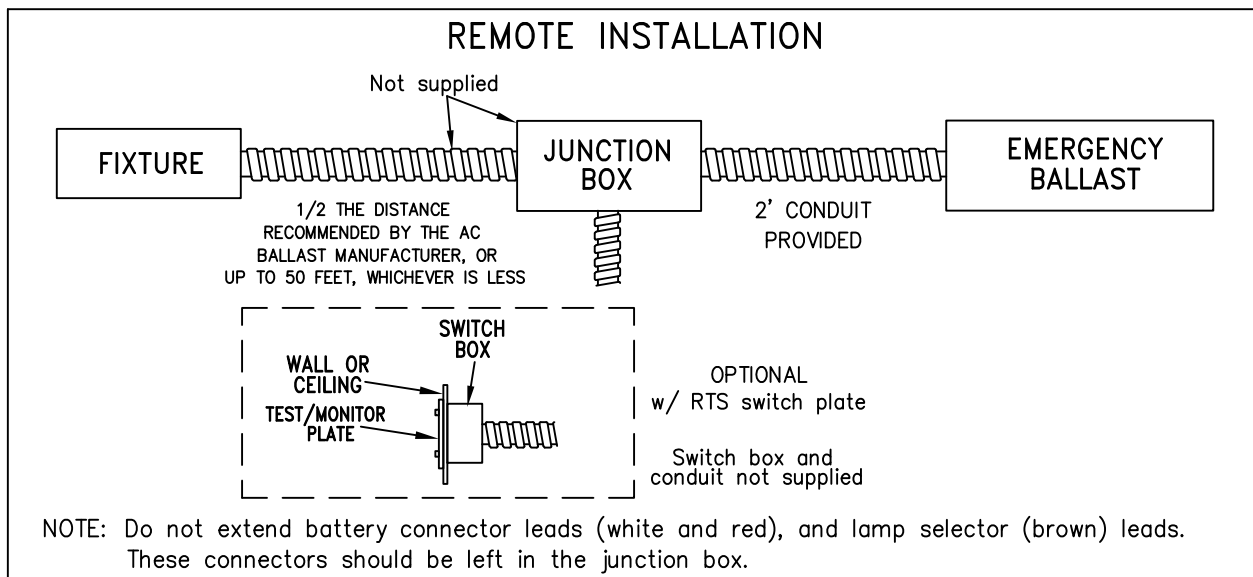
TABLE 1

## INSTALLATION CONT.

- After AC power has been removed from fixture, remove ballast channel cover.
- Mount L3000T Emergency Ballast on top of fixture (see Illustration 1) or remotely (see Illustration 2). using a remote test switch plate (part number RTS) which may be ordered separately. Please consult factory.



**ILLUSTRATION 1**



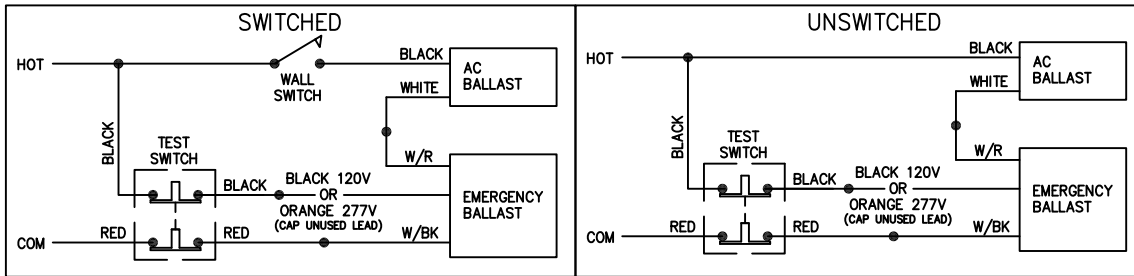
**ILLUSTRATION 2**

- Install momentary test switch through the side of strip fixture or through the ballast channel cover by drilling a 1/2" mounting hole and securing with hex nuts. See wiring diagrams for proper connection of test switch.

Caution: Test switch must be installed in line with unswitched AC source as shown in wiring diagrams. If the L3000T emergency ballast is installed in a switched fixture, the fixture switch must be wired to only control the AC ballast (see Illustration 3).

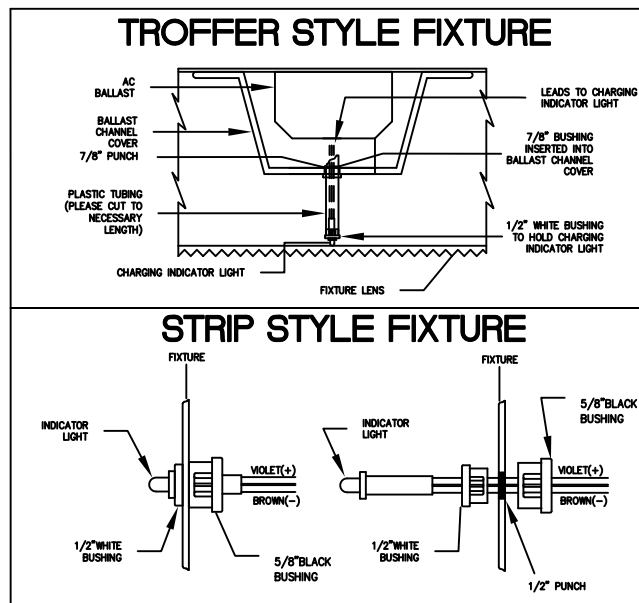


**INSTALLATION CONT.**



**ILLUSTRATION 3**

5. Install charging indicator light (see Illustration 4), unless RTS option is used, by drilling appropriate size mounting hole and being careful to ensure that it will be visible after the installation is complete. Secure light using the bushings supplied.
6. Install labels supplied for the test switch and charging indicator light.



**ILLUSTRATION 4**

7. In a readily visible location, install the label "Caution – This unit has more than one power connection point. To reduce the risk of shock, disconnect both the branch circuit breakers or fuses and emergency power supplies before servicing."
8. Upon completion of installation, apply AC power to the L3000T emergency ballast and connect the battery connectors.
9. Ensure ballast channel cover and lamp guard or lens is installed, if required, and proceed to OPERATION section.



## **OPERATION**

1. After AC power has been applied, to the L3000T, verify charging indicator light is illuminated. If not, refer to wiring diagrams and recheck wiring.
2. Allow the L3000T battery to charge for one hour before performing any further testing.
3. The L3000T should be allowed to charge for 72 hours before full discharge testing is performed. After charging for one hour, a short-term discharge test may be performed by pressing, and holding, the momentary test switch.
4. Depending on application (refer to table 1 and wiring diagrams) one or two lamps will be lit at a reduced illumination level, while the test switch remains pushed.
5. If the fixture is used for only emergency operation, release test switch and the lamps will go out.
6. If the fixture is used for normal and emergency operation, upon release of the test switch, the lamps will go out for approximately 4 seconds before returning to the normal illumination levels.
7. If a full discharge test is being performed, remove AC power and verify lamps are illuminated, at a reduced level, for a minimum of 90 minutes, in accordance with UL924.

NOTE: If unit fails to operate properly, please consult the manufacturer.

## **MAINTENANCE**

Although no routine maintenance is required, for the L3000T emergency ballast, the following tests should be performed periodically to maintain compliance with National and local codes..

1. Monthly, visually check to see that the charging indicator lamp is illuminated.
2. Test the L3000T emergency ballast operation (see OPERATION section) at 30 day intervals for a minimum of 30 seconds.
3. Once a year, conduct a 90 minute discharge test (see OPERATION section).

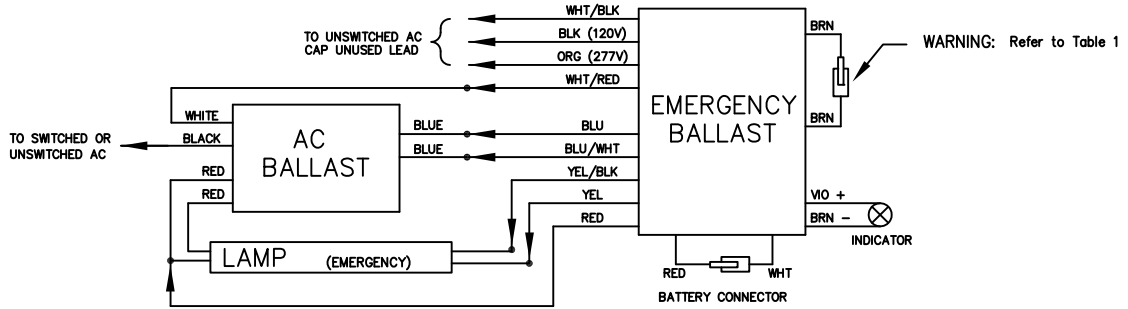


### WIRING DIAGRAMS

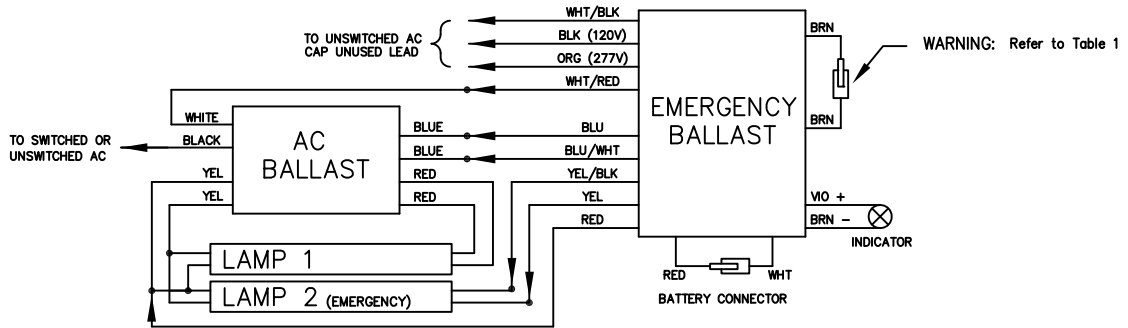
The following are typical wiring diagrams. Emergency and AC ballasts must be fed from the same branch circuit. Please consult the factory for diagrams of ballasts not shown.

## ONE LAMP EMERGENCY OPERATION

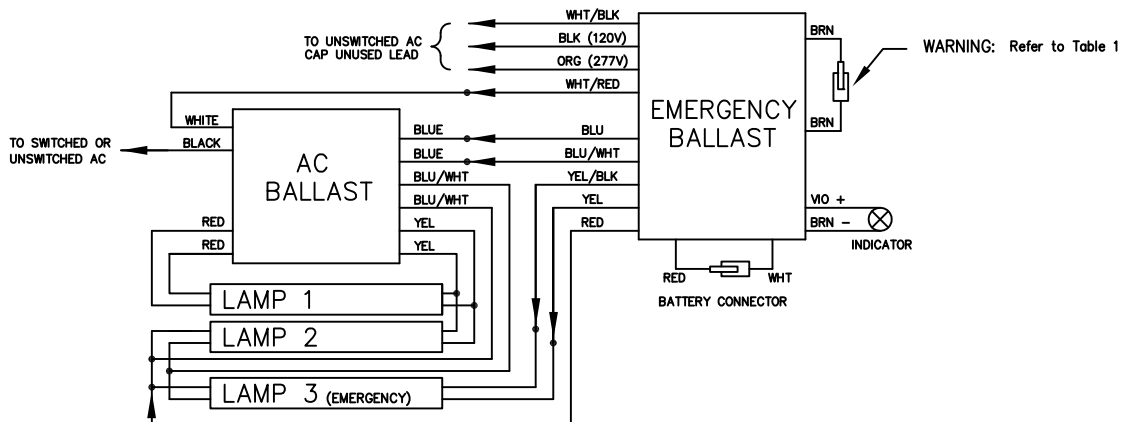
### A. ONE (1) LAMP RAPID START BALLAST



### B. TWO (2) LAMP RAPID START BALLAST



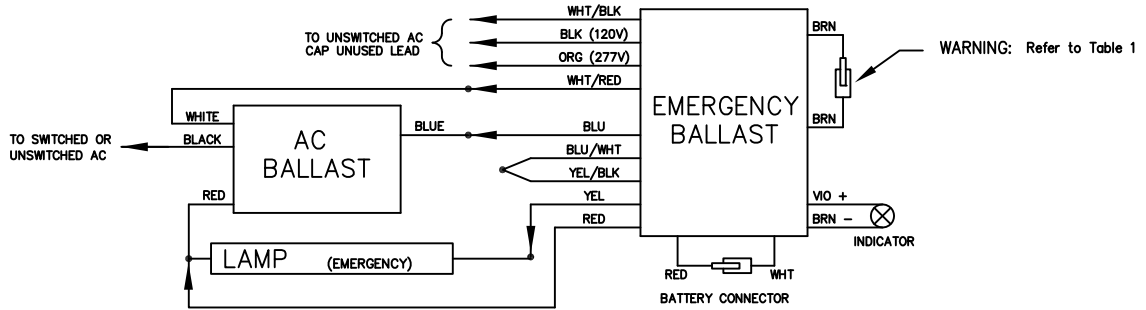
### C. THREE (3) LAMP RAPID START BALLAST



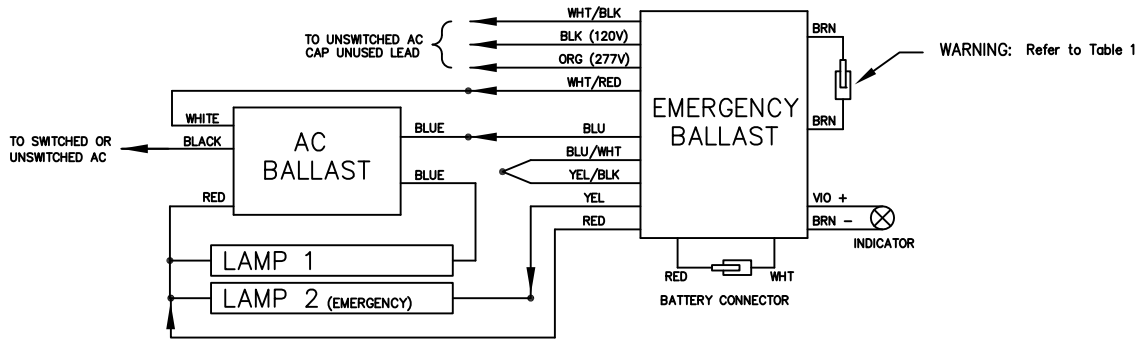


# ONE LAMP EMERGENCY OPERATION CONT.

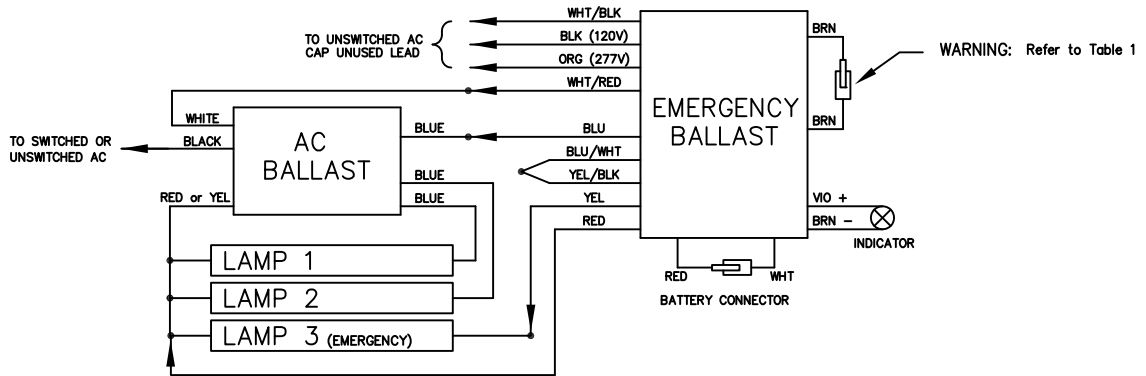
## D. ONE (1) LAMP INSTANT START BALLAST



## E. TWO (2) LAMP INSTANT START BALLAST



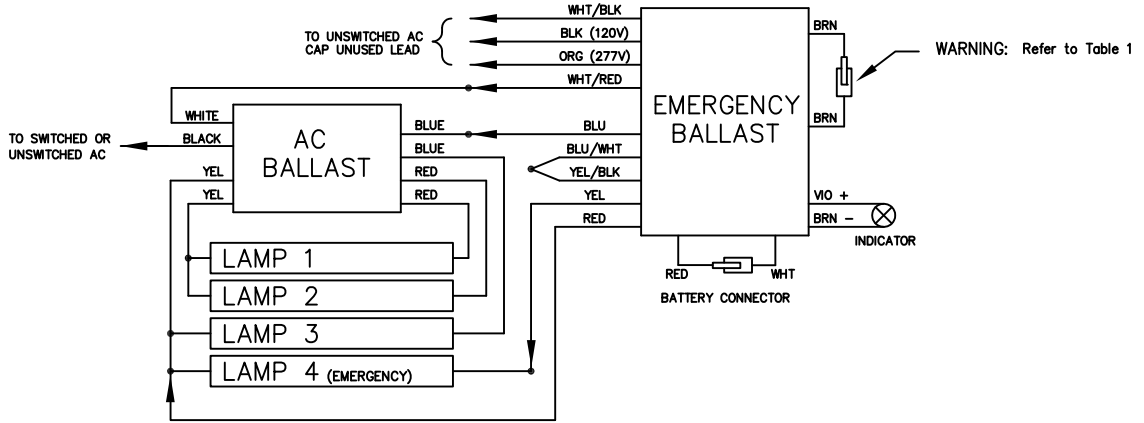
## F. THREE (3) LAMP INSTANT START BALLAST





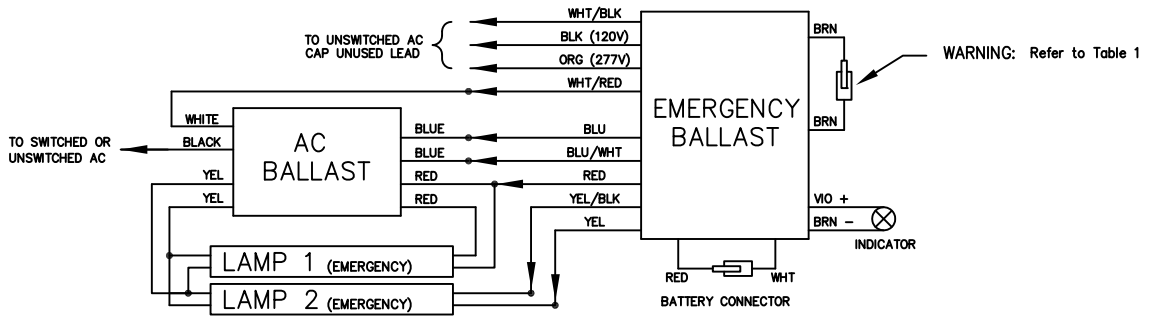
# ONE LAMP EMERGENCY OPERATION CONT.

## G. FOUR (4) LAMP INSTANT START BALLAST

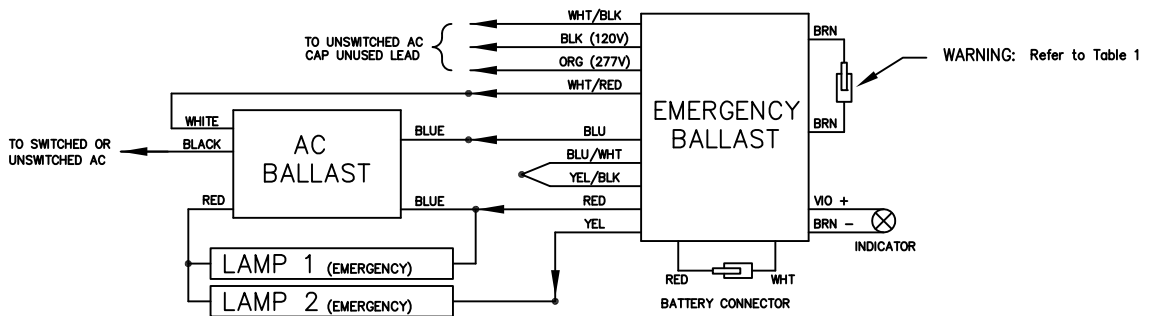


# TWO LAMP EMERGENCY OPERATION

## H. TWO (2) LAMP RAPID START BALLAST



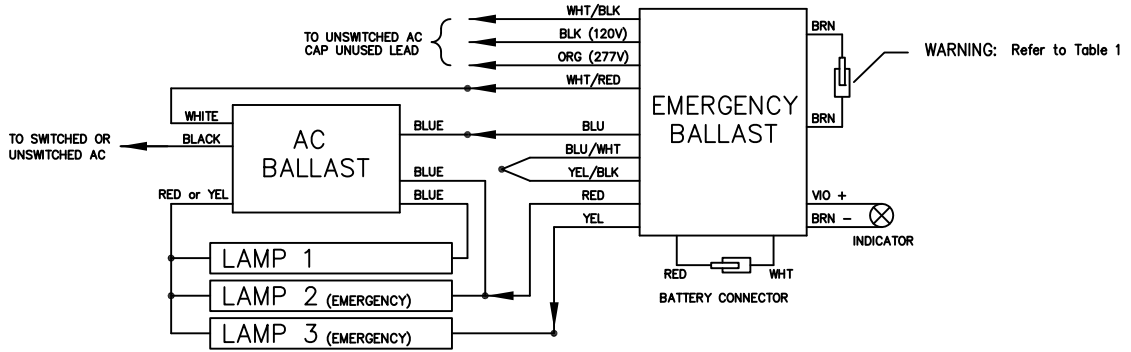
## I. TWO (2) LAMP INSTANT START BALLAST



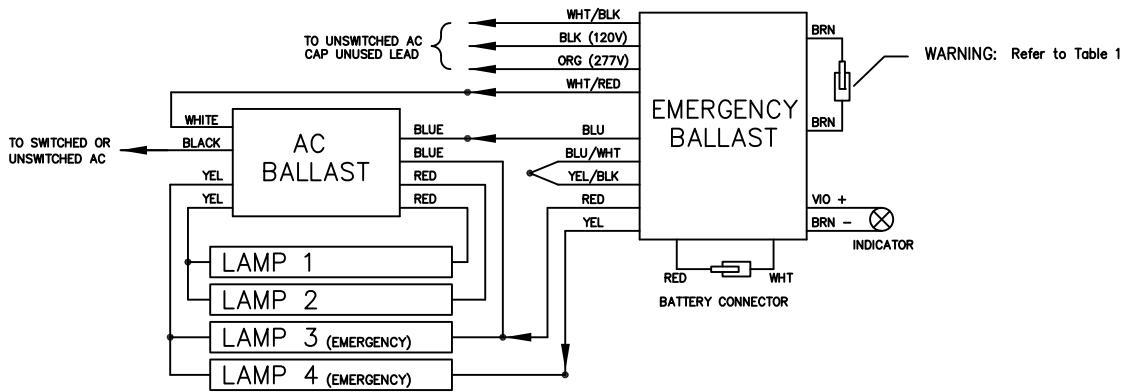


## TWO LAMP EMERGENCY OPERATION CONT.

### J. THREE (3) LAMP INSTANT START BALLAST



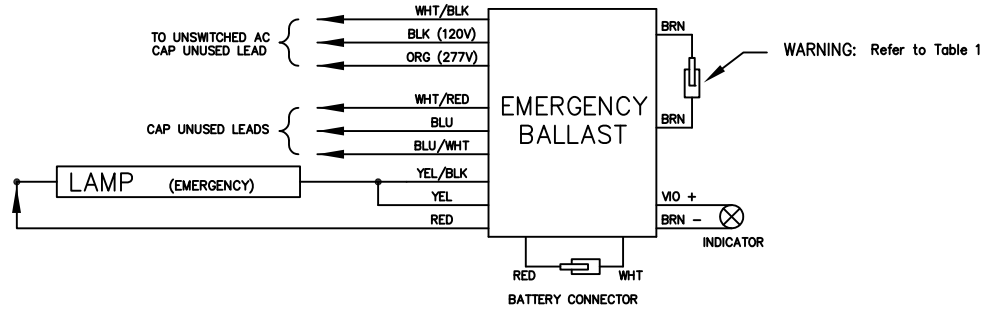
### K. FOUR (4) LAMP INSTANT START BALLAST





# EMERGENCY OPERATION ONLY

## ONE (1) LAMP WITHOUT AC BALLAST



## TWO (2) LAMP WITHOUT AC BALLAST

