



**Catalog Number** 72913  
**UPC Number** 60198672913  
**Description** Low Profile Emergency Lighting Ballast  
700 Lumen  
T5 & T8 Fixtures



#### Features

For both normal and emergency Fluorescent lighting.  
In the event of a Power Failure, the Ballast Switches to the Emergency Mode and operates one or two of the existing lamps for a minimum of 90 minutes.  
Low Profile (Rated for T5 & T8 Ballasts - includes a Time Delay function)  
Time Delay Feature for end of life circuitry to prevent AC Ballast from shutting down when transitioning from Emergency to AC  
Open circuit insulation feature to protect unit when load is absent  
Contains a Ni-Cad Battery, Charger, and Inverter Circuit in a single package.  
Can be mounted in the wireway or on top of the fixture.  
90 minute minimum emergency power, 24 hour recharge time  
Temperature Range: 20°C to 50°C  
120/277 Volt  
60 Hz  
UL listed for factory installation or retrofit applications  
UL Listed Damp Location  
Standard Ballasts  
Low Profile ballasts are rated for use with:  
D30T5 & T8 single or bi-pin 1 or 2 lamp  
18-50W 4-Pin Long Compact  
32W 4-Pin Compact  
24-32W U-Bend FBT8 lamps from Phillips, GE & Osram or equal  
Compatible with most one, two, three & four lamp electronic standard energy saving & dimming AC ballasts  
Compatible with Instant Start & Rapid Start Ballasts.

#### General

Housing: Galvanized Steel  
Finish: Powder Coat  
Lamp Type: 1 or 2 Lamp, 2' - 8' T5, T8  
Battery : Ni-Cad  
Emergency Power: 90 minutes

#### Dimension Information

Length: 13.80"  
Height: 1"  
Depth: 2.0"

#### Specifications

Temperature Rating 20°C to 50°C  
Voltage Rating 120/277 V  
Frequency: 60 Hz  
Flammability Rating N/A  
Input Wattage: 3.32-3.78  
Wattage Rating 14-54 Watt Per Lamp  
14-39 Watt per Lamp 2 Lamps  
Battery: 8.4V, 16.8 Wh, 2000 mA

#### Packaging

Box Qty 1

#### Certifications

UL UL 924  
cUL Yes  
RoHS Yes

# **INSTALLATION INSTRUCTIONS**

## **PAC0455-2L**

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**When using this lighting device  
the safety precautions should be followed at all time  
PLEASE READ CAREFULLY AND FOLLOW ALL  
INSTRUCTIONS FOR YOUR OWN SAFETY**

1. This device is designed for indoor use. Do not use outdoors.
2. Prior to installation, battery connector must be open to prevent high voltage from being present on output leads (red & yellow).
3. This product is for use with 14 W through 54W(2'-4')T5 and T8 single pin or bipin for one lamp, Instant Start and Rapid Start, 14W through 39W(2'-4')T5 and T8 single pin or bipin for two lamp, Instant Start and Rapid Start, 18 W through 50 W (4-pin) long compact Rapid Start, or 32 W (4-pin) compact, 24W through 32W U-Bend FBT8 fluorescent lamps from Philips, Osram and GE or equivalent manufacture.
4. Please ensure the electrical connections conform to the National Electrical Code and local regulations if applicable.
5. To avoid electric shock, please disconnect normal and emergency power supplies, and battery connector of the emergency ballast before servicing.
6. This device is designed for factory or field installation in either the ballast channel, or on top of the indoor fixture, except air handling heated air outlets, wet or hazardous location fixtures. Do not install this device near gas or electric heaters.
7. AC power source of 120VAC or 277VAC is required.
8. The battery is sealed, non-maintenance, and is not replaceable in the field. Please contact manufacturer for information on service. Do not attempt to service the battery please.
9. 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.
10. Do not use the product for other purpose that the product is NOT designed for.

**PLEASE SAVE THESE INSTRUCTIONS**

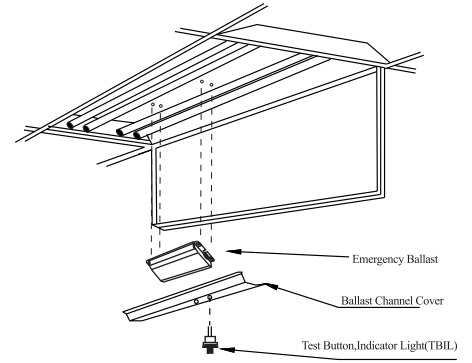
# INSTALL INSTRUCTION

**NOTE:** All the branch circuit wiring has to be ready as well as an unswitched source of power before the fixture is installed. Both AC and Emergency Ballasts must be Fed From the same branch circuit.

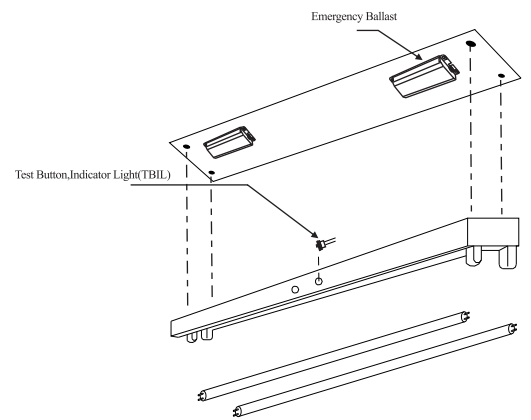
**CAUTION** Battery connector has to be opened to prevent high voltage on output leads (Red and Yellow). Wait until all the installation process is completed and AC is supplying power to the emergency ballast before joining the battery connector.

1. AC power has to be off before installation.
2. Choose the right wiring diagram to connect the emergency ballast to AC ballast and lamp.
3. Please ensure the electrical connections conform to the National Electrical Code and local regulations if applicable.
4. Follow the diagram 1&2 to install the emergency ballast in the ballast channel.
5. Wall switch has to be connected properly (Check diagram 3), Match the violet and brown leads to connect the **TBIL** to the emergency ballast (Check diagram 4). The **TBIL** would be on after the fixture is installed properly.
6. Please search in readily visible location and stick the label with “CAUTION: This Unit Has More Than One Power Supply Connection Point. To Reduce The Risk Of Electric Shock, Disconnect Both The Branch Circuit-Breakers Or Fuses And Emergency Power Supplies Before Servicing.”
7. Do not join the inverter connector until the fixture is completely installed and AC power is supplied to the emergency ballast.
8. The battery needs to be charged for one hour in order to have short-term testing on the emergency function. Before having a long-term emergency function testing, the battery in emergency ballast has to be charged for 24 hours.

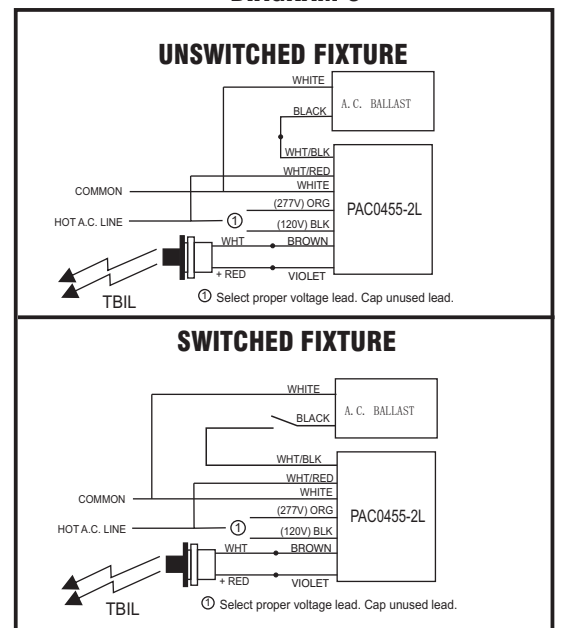
**DIAGRAM 1**



**DIAGRAM 2**



**DIAGRAM 3**



**NOTE:** MARK AN APPROPRIATE LABEL ON INDICATOR LIGHT AND TEST SWITCH AFTER INSTALLATION.

**DIAGRAM 4**

# OPERATION

THE CHARGING INDICATOR LIGHT WOULD BE ON TO INDICATE THE BATTERY IS BEING CHARGED WHEN AC POWER IS APPLIED.

THIS EMERGENCY BALLAST WOULD FUNCTION AND OPERATE ONE OR TWO LAMPS AT LEAST 90 MINUTES WHEN THE AC POWER IS FAILED.

THE EMERGENCY BALLAST WILL OPERATE 14WATT TO 54WATT LAMPS AT LEAST 90MINUTES.

# MAINTENANCE

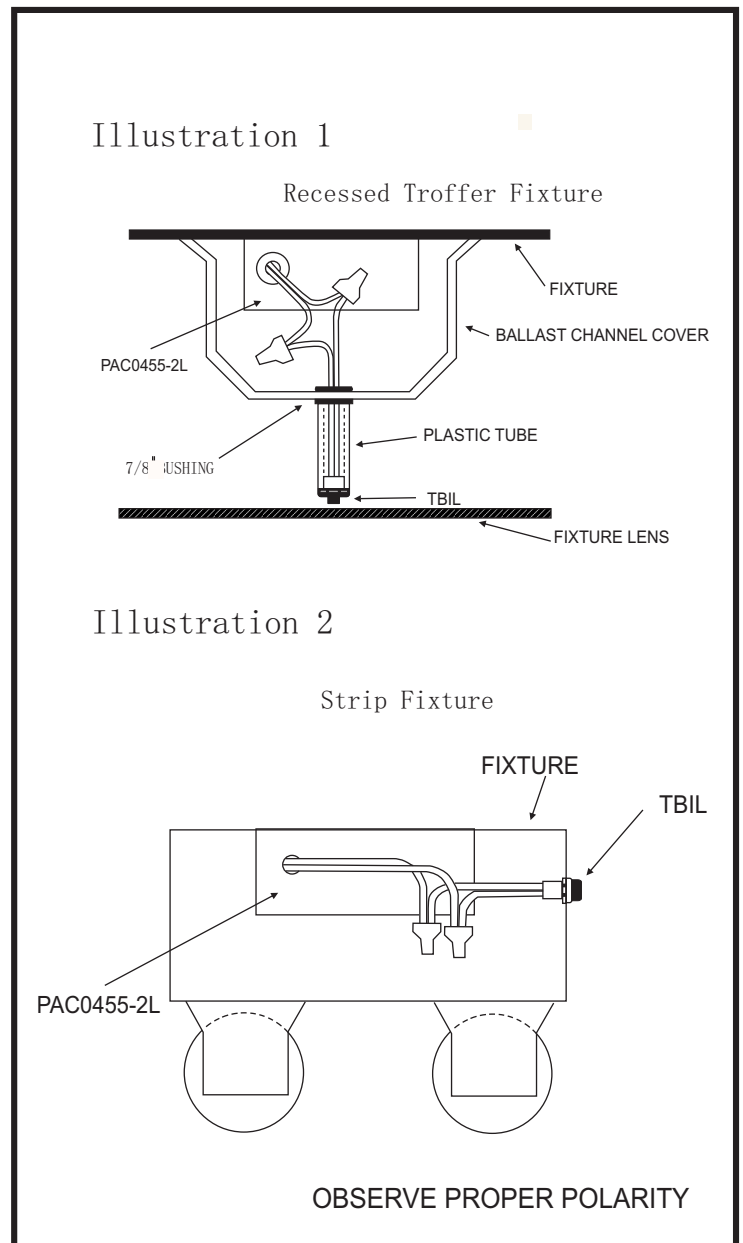
NOTE: SERVICES SHOULD ONLY PERFORMED BY QUALIFIED PERSONNEL.

THE EMERGENCY BALLAST SHOULD BE CHECKED PERIODICALLY TO CONFIRM FUNCTIONING AND THE FOLLOWING SCHEDULE IS RECOMMENDED.

- 1) INSPECT THE CHARGING INDICATOR EVERY MONTH AND CONFIRM THAT IS ILLUMINATED.
- 2) PUSH THE TEST SWITCH FOR 30 SECONDS TO ENSURE THE EMERGENCY BALLAST IS FUNCTIONING. PERFORM THIS TEST EVERY 30 DAYS.
- 3) PERFORMING A LONG-TERM TEST (90 MINUTE BATTERY DISCHARGE) ONCE IN EVERY YEAR. ONE OR TWO LAMPS SHOULD BE OPERATED FOR NO LESS THAN 90 MINUTES.

**TABLE 1 (FOR BROWN CONNETOR)**

LAMP DIAMETER	T5 ,T8		LONG COMPACT			COMPACT	U-Bend FBT8	
	SINGLE OR BIPIN		4 PIN(2G11)			4-PIN	4 PIN	
POWER (LENGTH)	14W-39W	40W-54W	18W-39W	40W-50W		32W	24-32W	
NUMBER OF LAMPS EMER.	1	2	1	2	1	1	1	2
BROWN CONNECTOR	CLOSE	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN



**NOTE:** MARK AN APPROPRIATE LABEL ON INDICATOR LIGHT AND TEST SWITCH AFTER INSTALLATION.

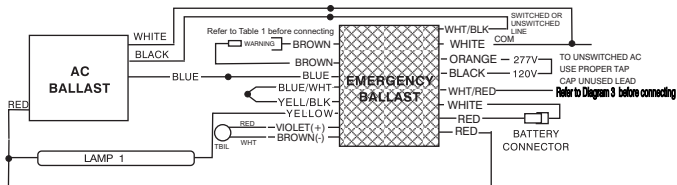
# EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

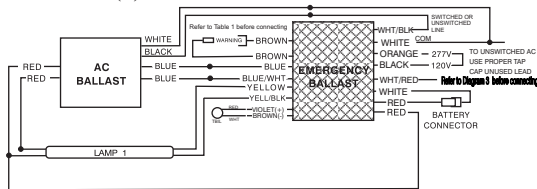
## WIRING DIAGRAM

### For One Lamp Emergency Operation(14-54W)

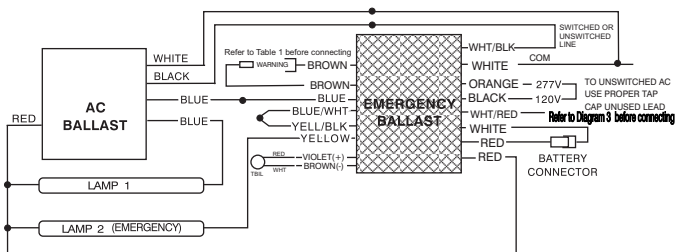
A. ONE (1) LAMP INSTANT START BALLAST



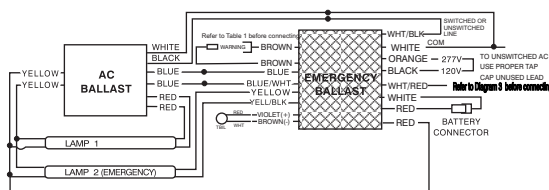
E. ONE (1) LAMP RAPID START BALLAST



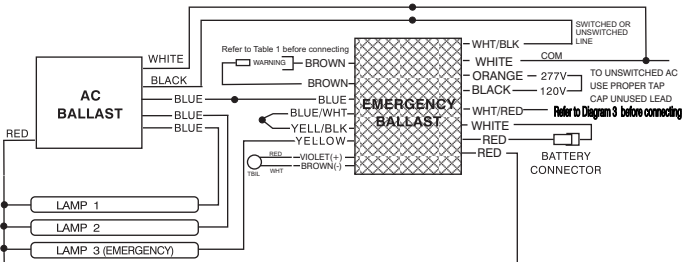
B. TWO (2) LAMP INSTANT START BALLAST



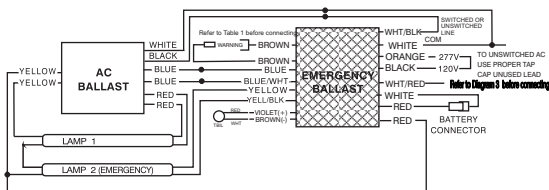
F. TWO (2) LAMP RAPID START BALLAST



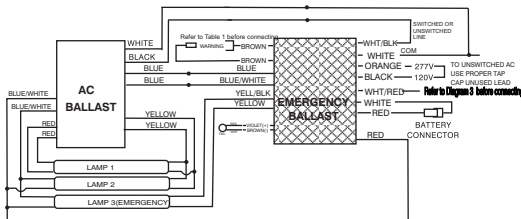
C. THREE (3) LAMP INSTANT START BALLAST



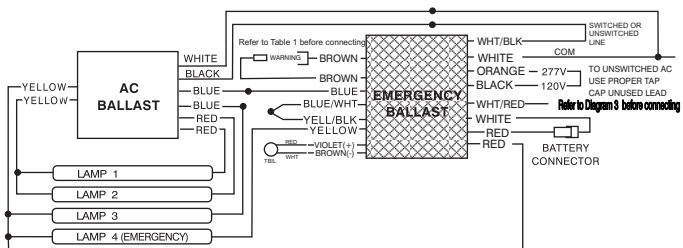
G. TWO (2) LAMP RAPID START BALLAST



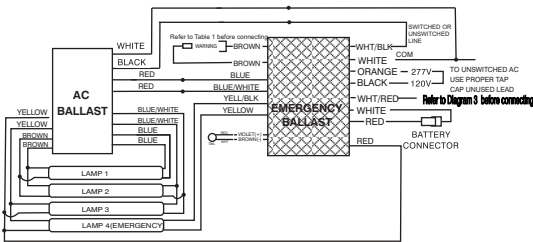
H. THREE (3) LAMP RAPID START BALLAST



D. FOUR (4) LAMP INSTANT START BALLAST



I. FOUR (4) LAMP RAPID START BALLAST



**NOTE: Use the proper input voltage lead, cap unused lead**

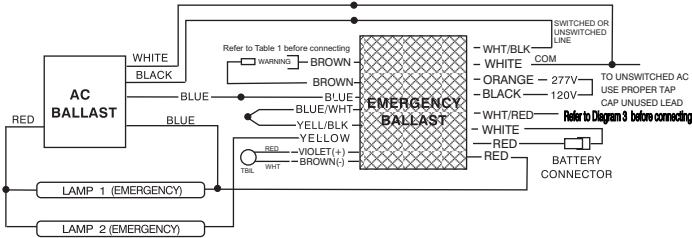
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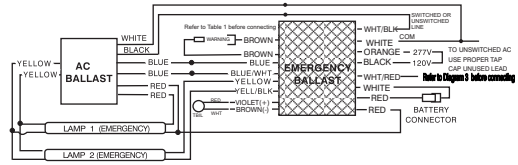
## WIRING DIAGRAM

### For Two Lamps Emergency Operation (14-54W)

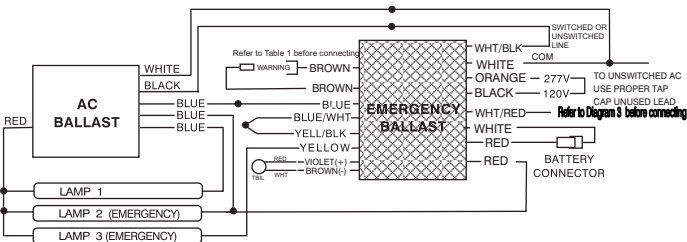
A. TWO (2) LAMP INSTANT START BALLAST



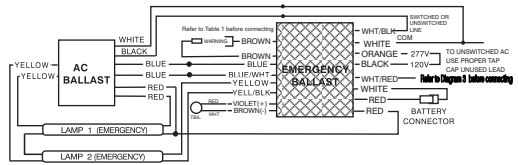
D. TWO (2) LAMP RAPID START BALLAST



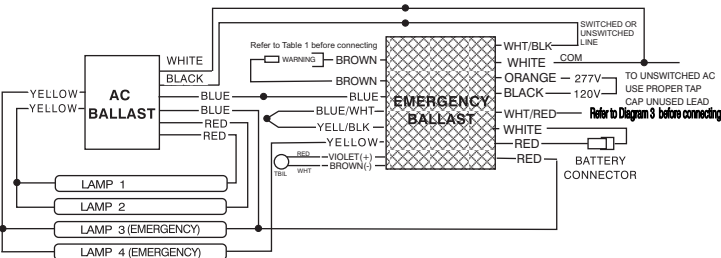
B. THREE (3) LAMP INSTANT START BALLAST



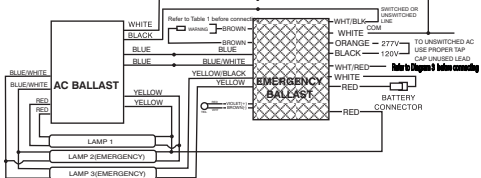
E. TWO (2) LAMP RAPID START BALLAST



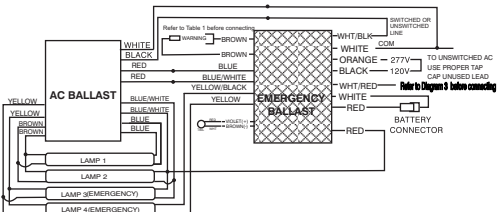
C. FOUR (4) LAMP INSTANT START BALLAST



F. THREE (3) LAMP RAPID START BALLAST

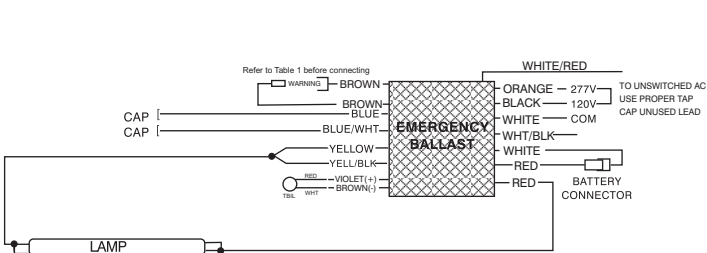


G. FOUR (4) LAMP RAPID START BALLAST



## Emergency only Operation

A. ONE (1) LAMP WITHOUT AC BALLAST (14-54W)



B. TWO (2) LAMP WITHOUT BALLAST (14-54W)

