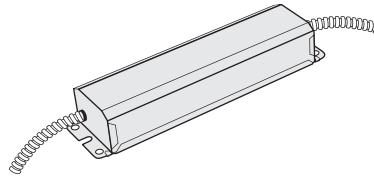


B426

Installation Instructions

FLUORESCENT EMERGENCY BALLAST

U.S. Patent No. 5,004,953 And 5,811,938



PHILIPS
bodine



! IMPORTANT SAFEGUARDS !

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. To prevent high voltage from being present on yellow/black & yellow output leads prior to installation, inverter connector must be open. Do not join inverter connector until installation is complete and AC power is supplied to the emergency ballast.
2. This product is for use with one or two twin-tube, double twin-tube (quad), or triple twin-tube compact fluorescent lamps shown in the Lamp Rating Chart.
3. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
4. To reduce the risk of electric shock, disconnect both normal and emergency power supplies and inverter connector of the emergency ballast before servicing.
5. This emergency ballast is for factory or field installation.
6. This product is suitable for damp locations where the ambient temperature is 0°C minimum, +50°C maximum. Product is not suitable for heated air outlets and wet or hazardous locations.
7. An unswitched AC power source is required (120 or 277 VAC, 60 Hz).
8. Do not install near gas or electric heaters.
9. Do not attempt to service the battery. A sealed, no-maintenance battery is used that is not field replaceable. Contact the manufacturer for information on service.
10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
11. Do not use this product for other than intended use.
12. Servicing should be performed by qualified service personnel.

Lamp Rating Chart		
Operates One or Two (2-Pin) Lamps		
Lamp Type	Wattage	Base
Twin-Tube	13	GX23
Quad	10,13,18,26	G24d
Triple	13,18,26	GX24d

SAVE THESE INSTRUCTIONS



Ni - Cd

**THIS PRODUCT CONTAINS A RECHARGEABLE NICKEL-CADMIUM BATTERY.
THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.**

02/06/09

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INSTALLATION

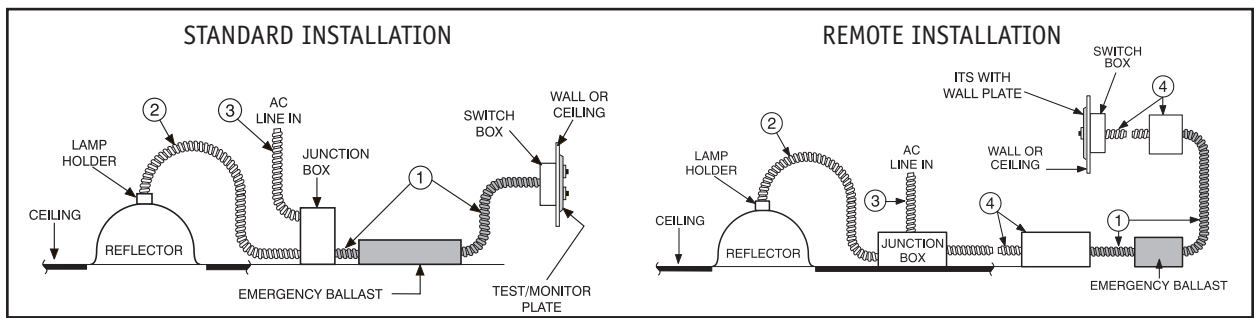


WARNING: TO PREVENT HIGH VOLTAGE FROM BEING PRESENT ON YELLOW/BLACK & YELLOW OUTPUT LEADS PRIOR TO INSTALLATION, INVERTER CONNECTOR MUST BE OPEN. DO NOT JOIN INVERTER CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED TO THE EMERGENCY BALLAST.

NOTE: Make sure that the necessary branch circuit wiring is available. An unswitched source of power is required. The emergency ballast must be fed from the same branch circuit as the AC ballast.

STEP #1 ▶ INSTALLING THE EMERGENCY BALLAST

- > Disconnect AC power from the fixture.
- > Refer to illustration below to install the emergency ballast and test/monitor plate. Make electrical connections in accordance with the National Electrical Code and any local regulations. The test/monitor plate may be installed close to the fixture in the ceiling or at a remote location (up to 50 feet). The emergency ballast may be remotely installed up to 1/2 the distance the AC ballast manufacturer recommends removing the AC ballast from the lamp, or up to 50 feet, whichever is less. If no AC ballast is used, the emergency ballast can be remotely mounted up to 50 feet away. Note: A switch box is not supplied.



Emergency ballast **No Shading – Equipment supplied by others**

- ① – Flexible conduit (supplied) to connect ballast wires.
- ② – Existing conduit to run existing wires to lamp holder (AC ballast on junction box). If AC ballast is on reflector, run yellow, yellow/black, blue/white and blue wires from emergency ballast through this conduit.
- ③ – AC line in.
- ④ – Conduit and junction box (not supplied), necessary for remote installation.

STEP #2 ▶ WIRING THE EMERGENCY BALLAST

- > See back page for detailed wiring schematics. The emergency ballast can be used with one- or two- lamp fixtures, and operates one or two lamps in the emergency mode.
- > Cut fixture wire between the lamp holder and AC ballasts and connect the blue and blue/white emergency ballast wires to the AC ballast and the yellow and yellow/black wires to the lamp holder.
- > On switched fixtures, an additional unswitched hot (120 or 277 VAC) wire must be run to the junction box and connected to the emergency ballast.
- > Connect LED by matching violet and brown leads. For optional tabbed LED, connect violet lead to positive (+) tab (marked). For Illuminated Test Switch (ITS) connect as shown on wiring diagrams by matching violet and brown leads and connecting the black leads to the emergency ballast white and white/black wires.
- > After installation is complete, supply AC power to the emergency ballast and join the inverter connector.

INSTALLATION

STEP #3 EMERGENCY BALLAST QUICK CHECK AND LABELING

- > For short-term testing of the emergency function, the battery must be charged for at least two hours. The emergency ballast must be charged for at least 24 hours before conducting a long-term test.
- > In a readily visible location, attach the label "**CAUTION - This Unit Has More Than One Power Connection Point. To Reduce The Risk Of Electric Shock, Disconnect Both The Branch Circuit-Breakers Or Fuses And Emergency Power Supplies Before Servicing.**"

OPERATION

When AC power is applied, the charging indicator light is illuminated, indicating that the battery is being charged. When power fails, the emergency ballast automatically switches to emergency power (internal battery), providing at least 90 minutes of emergency lighting. This emergency ballast will operate one or two 10 W or 13 W lamps for a minimum of 120 minutes.

MAINTENANCE

Although no routine maintenance is required to keep the emergency 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.
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds. One or two lamps should operate at reduced illumination.
3. Conduct a full length discharge test once a year. One or two lamps should operate at reduced illumination for at least the rated duration.

! REFER ANY SERVICING INDICATED BY THESE CHECKS TO QUALIFIED PERSONNEL !

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

FIG C230 TWO-LAMP FIXTURE, TWO SIMPLE REACTOR AC BALLASTS

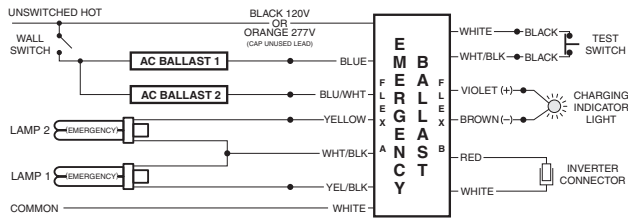


FIG C231 TWO-LAMP FIXTURE, TWO AUTOTRANSFORMER AC BALLASTS

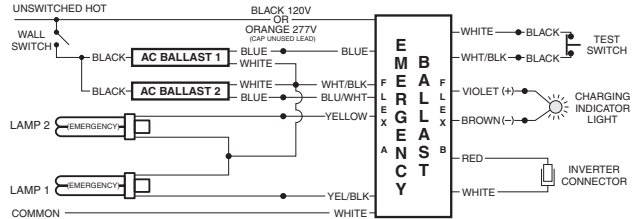


FIG C232 ONE-LAMP FIXTURE, ONE SIMPLE REACTOR AC BALLAST

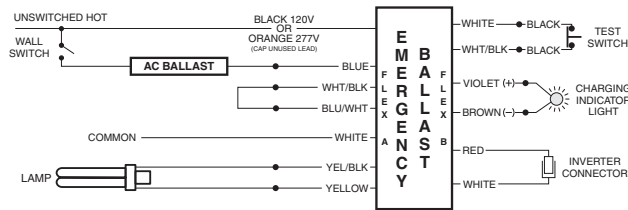


FIG C233 ONE-LAMP FIXTURE, ONE AUTOTRANSFORMER AC BALLAST

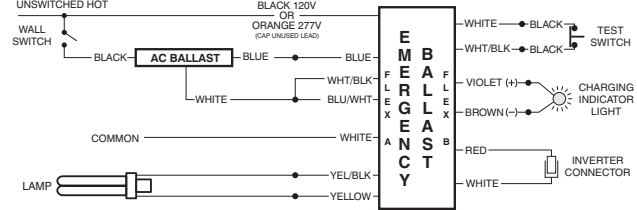


FIG C234 TWO-LAMP FIXTURE WITHOUT AC BALLAST

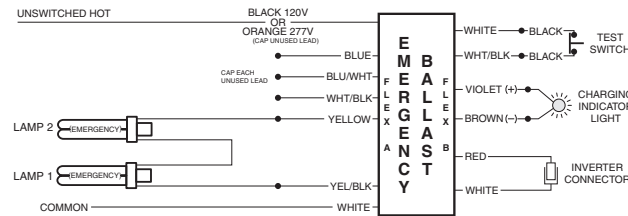


FIG C235 TWO-LAMP FIXTURE WITH ADVANCE H-2B13-TP OR ROBERTSON H213P BALLASTS

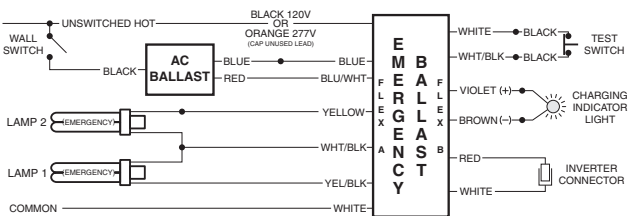


FIG C236 TWO LAMP FIXTURE, WITH ADVANCE VH-2B13-TP BALLAST

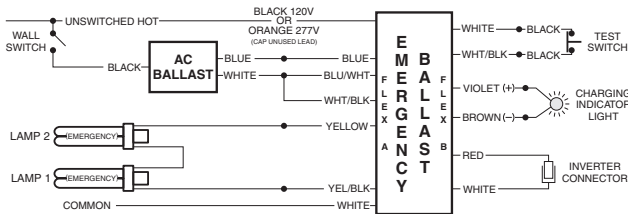
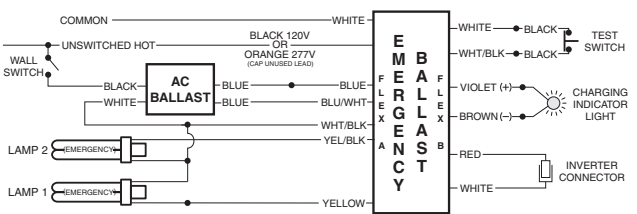


FIG C212 TWO-LAMP FIXTURE, ONE MAGNETIC AC BALLAST



**This emergency ballast is also compatible with other AC ballasts.
 Please contact factory with AC ballast model number for wiring diagrams.**