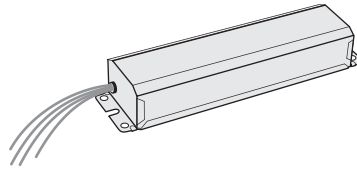


B213H

Installation Instructions

EMERGENCY LIGHTING EQUIPMENT



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 red & 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 twin-tube or double twin-tube (quad) compact fluorescent lamp 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 installation only.
6. This product is suitable for damp locations where the ambient temperature is 0°C minimum, +50°C maximum. This product is suitable for use in sealed and gasketed fixtures.
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 2-PIN LAMP		
Lamp Type	Wattage	Base
Twin-Tube	5,7,9	G23
	13	GX23
Quad	9	G23
	10	G24d
	13	GX23

SAVE THESE INSTRUCTIONS

This component is incomplete in certain construction features or restricted in performance capabilities and not intended for separate installation in the field; rather it is intended for use as a component of complete equipment submitted for investigation by Underwriters Laboratories Inc. Final acceptance of the component in the complete equipment is dependent upon its installation and use in accordance with all applicable use conditions and ratings noted in the component report issued by Underwriters Laboratories Inc.



Ni - Cd

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

03/21/11

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INSTALLATION

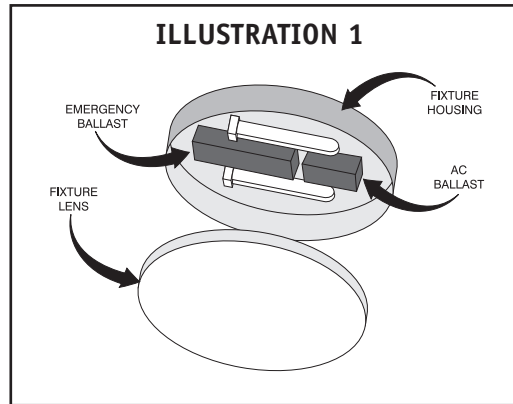


WARNING: TO PREVENT HIGH VOLTAGE FROM BEING PRESENT ON RED & YELLOW OUTPUT LEADS PRIOR TO INSTALLATION, INVERTER CONNECTOR MUST BE OPEN. DO NOT JOIN INVERTER CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED TO THE EMERGENCY BALLAST.

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.

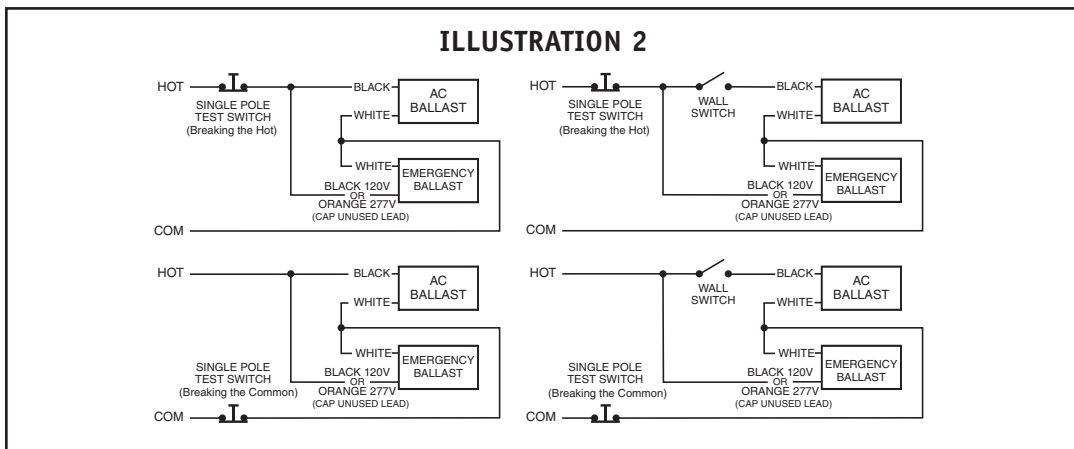
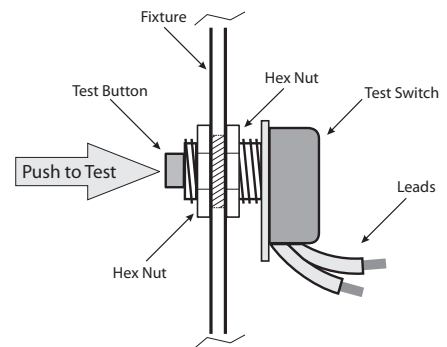
STEP #1 ▶ INSTALLING THE EMERGENCY BALLAST

- > Disconnect AC power from the fixture.
- > Install emergency ballast as shown in Illustration 1. Note: This is only an example of one possible installation.



STEP #2 ▶ INSTALLING THE TEST SWITCH

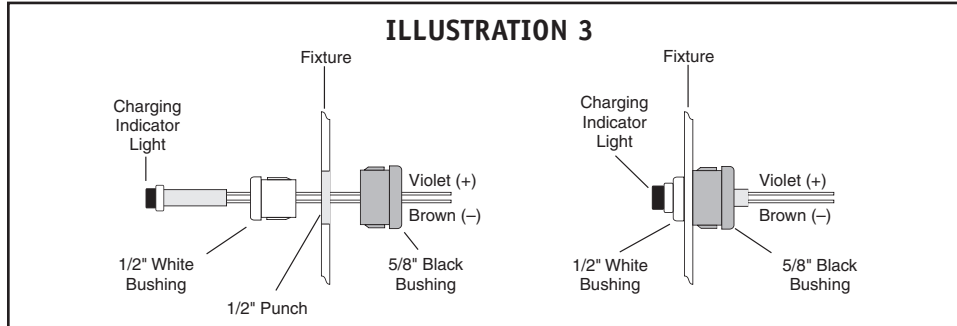
- > Drill a 1/2" hole and install the test switch (e.g. through the side of a surface mounted fixture).
- > Refer to the Illustration 2 and wire the test switch so that it removes AC power from both the emergency ballast and the AC ballast at the same time.



INSTALLATION

STEP #3 **▶** INSTALLING THE CHARGING INDICATOR LIGHT

- > Install the CHARGING INDICATOR LIGHT as shown in Illustration 3 so that it will be visible after the fixture is installed.



NOTE: After installing the charging indicator light and test switch, mark each with the appropriate label.

STEP #4 **▶** WIRING THE EMERGENCY BALLAST

- > Determine the type of AC ballast installed in the fixture.
- > Select the appropriate wiring diagram on back to connect the emergency ballast to the AC ballast and lamp(s). Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- > After installation is complete, supply AC power to the emergency ballast and join the inverter connector.
- > At this point, power should be connected to both the AC ballast and the emergency ballast, and the Charging Indicator Light should illuminate indicating the battery is charging.
- > A short-term discharge test may be conducted after the emergency ballast has been charging for two hours. Charge for 24 hours before conducting a long-term discharge test. Refer to OPERATION.
- > 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.

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 lamp should operate at reduced illumination.
3. Conduct a 90-minute discharge test once a year. One lamp should operate at reduced illumination for at least 90 minutes.

! 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 DIAGRAMS

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

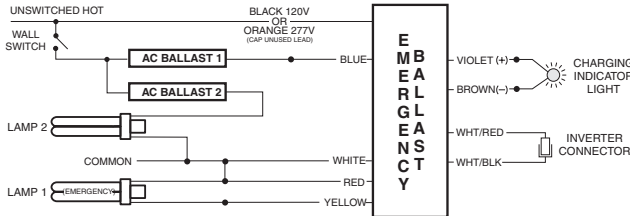


FIG B TWO-LAMP FIXTURE, TWO AUTOTRANSFORMER AC BALLASTS

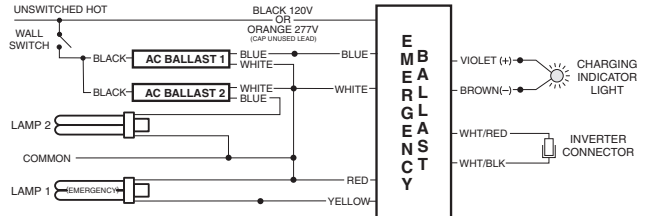


FIG C ONE-LAMP FIXTURE, ONE SIMPLE REACTOR AC BALLAST

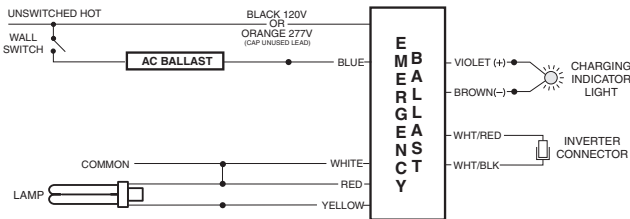


FIG D ONE-LAMP FIXTURE, ONE AUTOTRANSFORMER AC BALLAST

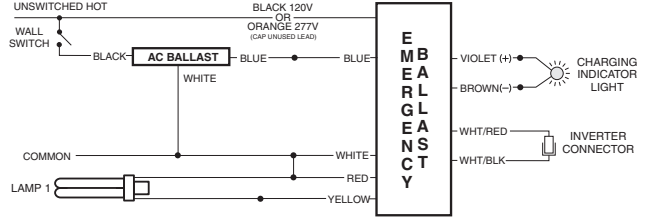


FIG E ONE-LAMP FIXTURE WITHOUT AC BALLAST

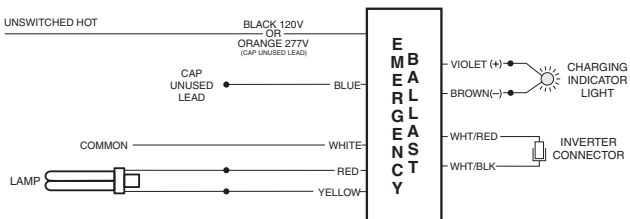
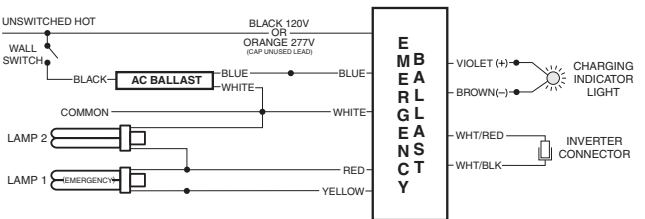


FIG F TWO-LAMP FIXTURE, ONE MAGNETIC AC BALLAST



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